ORIGINAL DÜPERTHAL CATALOGUE

Version 11.1

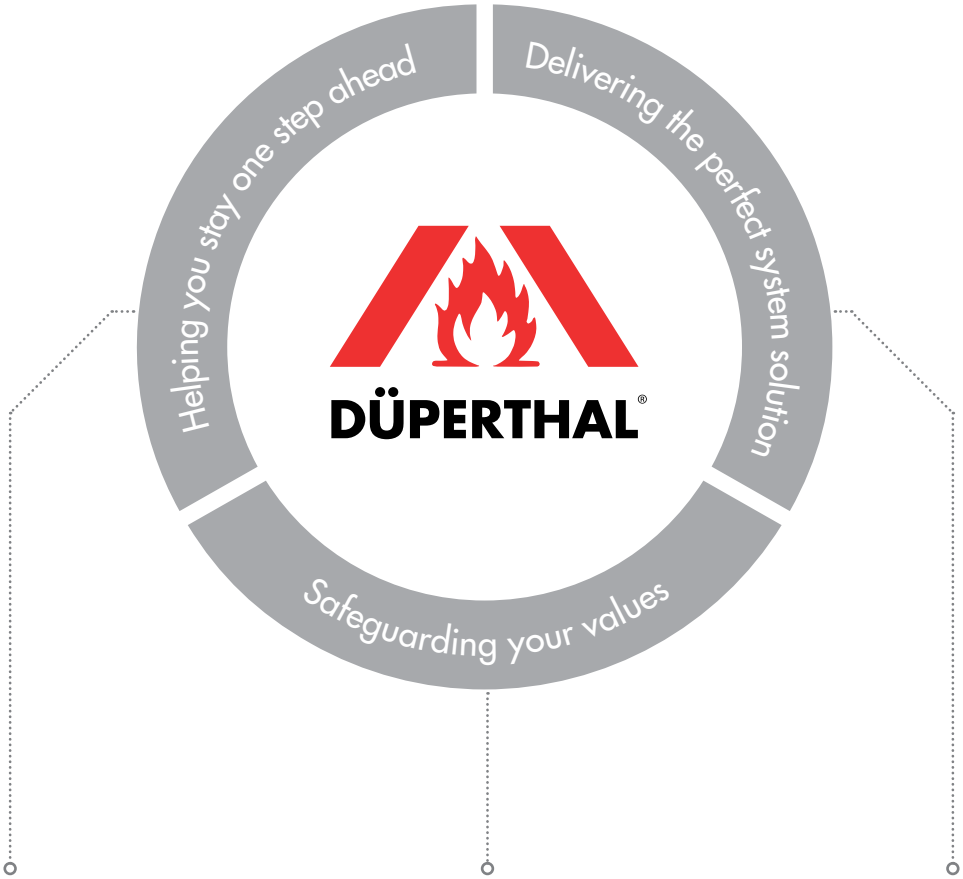
DÜPERTHAL®

Safety Storage Cabinets
Certified System Solutions

DÜPERTHAL – constant reassurance

Welcome
to DÜPERTHAL

As a leading German quality and technology enterprise, we set the standards when it comes to designing system solutions for the process-optimised storage of chemicals and hazardous materials. All of our products and solutions are tailored specifically to meet your requirements. In addition to maximum safety, they offer the highest levels of effectiveness and efficiency – also in situations where there is no risk of fire. We are therefore providing you with constant reassurance. This is what we, as a family-run company, stand for. The original is what we stand for.



Always a step ahead

You get a strong and active partner with us. Our aim is to always stay one step ahead. All of our products exceed the prescribed standards. The same applies to our work with you. We provide honest analyses and openly discuss challenges and propose improvements, helping you to always identify the ideal solution.

Safeguarding your values

For more than 40 years, we have been the industry standard as Europe's first manufacturer of safety storage cabinets. We have proven our technical and business management competency with successful projects world wide. And we always want to improve. We are continually enhancing our safety solutions - so that you can protect your values with us in the future.

Delivering the perfect system solution

DÜPERTHAL is the only supplier with whom not only the high-quality, standard products are TÜV certified, but also your individually tailored system solutions. There is no need for on-site acceptance. Whether consultation, components, installation, or maintenance - we want to always offer you the best possible value. In product safety and from a business management perspective.

Constant development for your safety

We don't rest on our good reputation. Because we are aware that your work is constantly becoming more complex. That's why your demands on our safety solutions are increasing. In order to meet these requirements, we are continuously pushing ahead with further developing our products. We invest time, know-how, passion and especially one thing: heart and soul.

Did you know that ...

» the name DÜPERTHAL stands for full service?

» DÜPERTHAL markets more than just products?

» the internet-enabled Cabi2Net brings smart technologies into the workplace?

» the system solutions from DÜPERTHAL are more than just cabinets?

» you profit economically and technologically from the wide range of solutions?

You can find detailed answers to these questions and further useful information on the following pages - compact, practical, and forward-looking!

Cabi2Net

Simple, safe, effective – the Cabi2Net from DÜPERTHAL is revolutionising the central control of work processes. With every internet-enabled end device, Cabi2Net offers you a virtual look into your safety storage cabinet and information, example about fill: fill levels, ventilation functionality, and provides warning notices.

Cabi2Net can be easily scaled, expandable as necessary through additional modules and can even be integrated into general building automation.

HARDWARE

- Internet capable system
- Processes sensor signals (fill level, pressure, flow rate, and more)
- Controls signal lights, warnings, valves and more

SOFTWARE

- All cabinets can be activated separately
- Digital real-time protocol
- Operate with keyboard, mouse or touch screen

NEW FUNCTIONS

- One interface, everything under control
- Planning of resource-conserving container exchanges
- Remote access to important data and information

» FIND OUT MORE IN PRODUCT SECTION 6.

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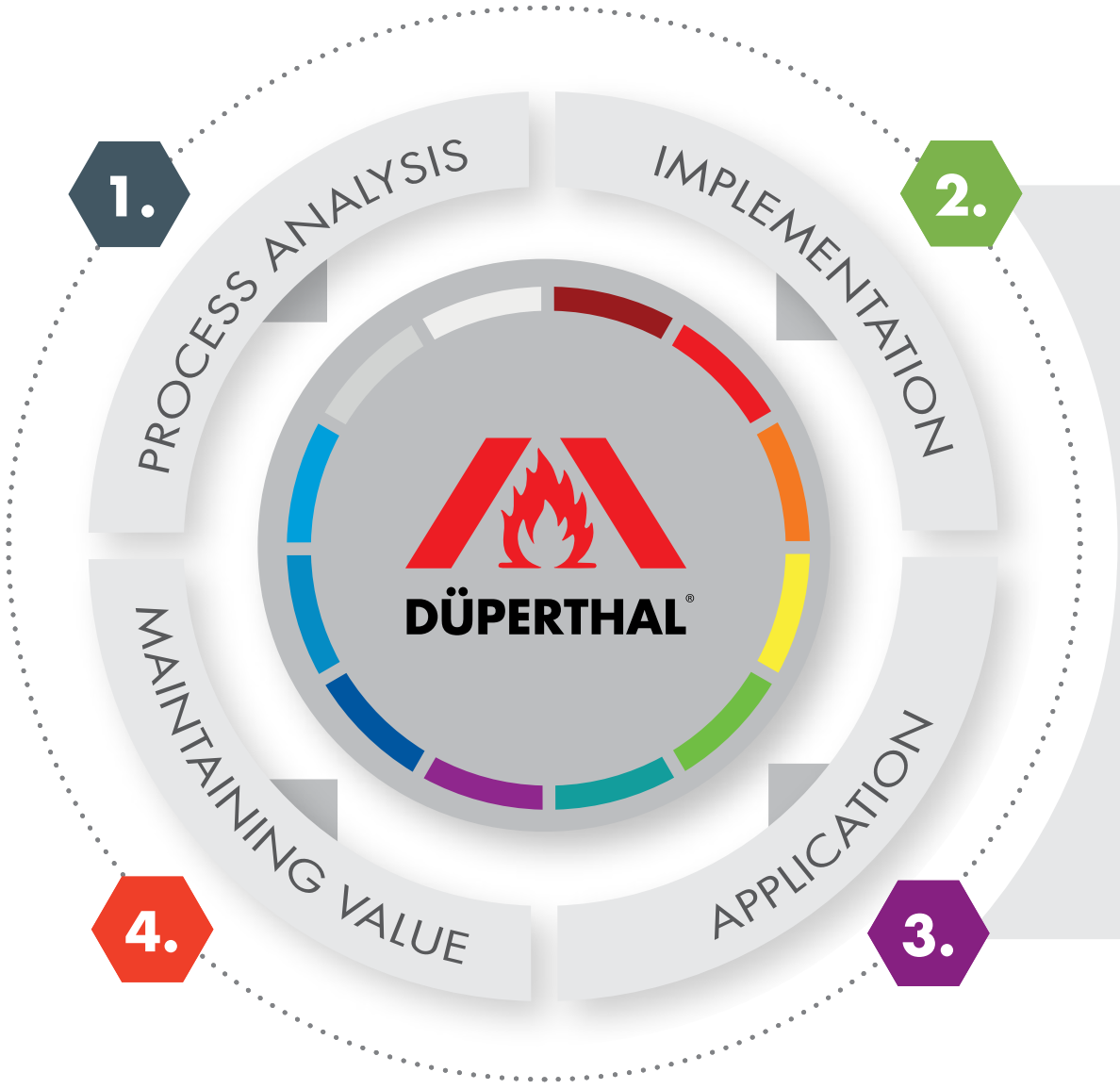
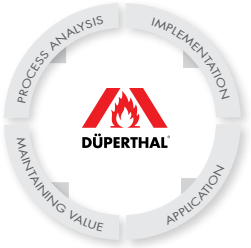
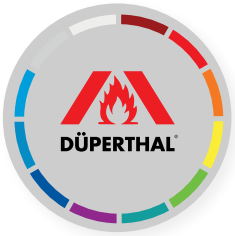
From the process to realisation: We go with you

We offer products and service for every requirement

DÜPERTHAL offers system solutions for process-optimised storage of chemicals and hazardous substances for scientific research, development and production. Our goal is to always fulfil your individual requirements with customised solutions. This is why you can expect not only outstanding certified products from us, but also outstanding full service.







Services throughout the process

One of our central positioning features is the deep understanding of the processes of our customers. For more than 40 years, we have stood by you as an active companion and consultant: from the analysis of your individual requirements, to the planning and implementation of the optimal solution, through to permanent maintenance.

Innovative products for every situation

Our product portfolio for the storage, use and disposal of chemicals and hazardous substances is as diverse as the requirements for their handling. In addition to high-quality, certified safety storage cabinets, we offer a variety of fitting options and accompanying products for every need, however specific.

Technical added advantages

- Safety storage cabinets and accompanying products for every application
- More occupational safety and environmental protection through maximum fire protection.
- Maximum comfort during use and operation

Economic added advantages

- Optimisation of processes and work processes.
- Continuous value retention
- Excellent service throughout the process

Tailored to your processes

1. Process analysis

Your problem is our challenge

Your processes should run optimally - in every respect. Our experts take a closer look at safety-relevant and profitability aspects. You are guaranteed the greatest possible flexibility in implementation. Because we have the right solution for every situation.

From process analysis to concept

Together with you on site, our experts will collect extensive data in an as-is analysis. Based on this information and your requirements, a target state is defined in a task folder.

Modular and tested system solutions

We use the full range of DÜPERTHAL's standard technologies and supplement them with modular and type-tested systems, adapted to your requirements.

2. Implementation

Safe and economical solutions

Not only do you get a technically perfect system from us, but we also make sure that you have to put in as little effort as possible. We deliver our products directly to the site and take over the implementation. Full service is our principle.

Shipment and delivery

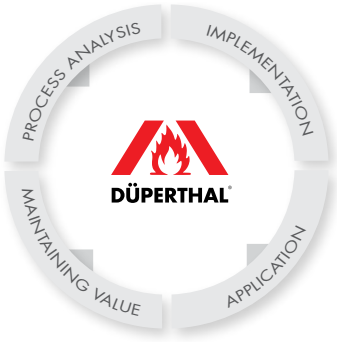
Safety for us starts with the delivery of the product. The specialist carrier appointed by us works according to a detailed checklist and therefore ensures that our products are professionally transported to and installed in their final place of use - delivery just-in-time and just-in-place.

Project support on site

The professional handling of complex projects requires more than just delivering safety storage cabinets. DÜPERTHAL therefore provides comprehensive support for your national and international projects with planning, delivery service, construction site support and training of the lab managers and users.

Installation, implementation and final acceptance

Our team of specialists ensures a smooth and optimal assembly process on site. After complete installation of all components, the commissioning and joint final acceptance will be carried out with you.



3. Application

Optimal integration – safe and economical solutions

We work conscientiously to optimise your process flows sustainably. This means that we attach great importance to documentation and training. In addition, the latest technology is used for evaluations. In this way, we integrate our products ideally into your existing structures.

Documentation

A detailed operations manual is supplied with each product, especially for complex projects. This already includes the CE certificate of conformity and the type certificate for the patented system solutions tested by independent third parties.

Training and risk assessment

In order that you are sure that our components can be used professionally and can be operated without any risk, we will be happy to train the responsible persons directly on the spot. The points treated can be included in your risk assessment.

Evaluation

With the Internet-capable Cabi2Net, all relevant operating parameters of the safety storage cabinets can be constantly monitored and evaluated. The query can be sent simply from a mobile phone, tablet or PC. This also safeguards your processes and helps you to make the internal value chain even more efficient.

4. Maintaining value

Product life cycle - maximum safety

To ensure the functionality and safety of your system solution in the long term, we recommend an annual inspection. Our service agreement guarantees you maintenance and spare parts long after installation and commissioning.

Occupational safety and health OSHA / EU-OSHA

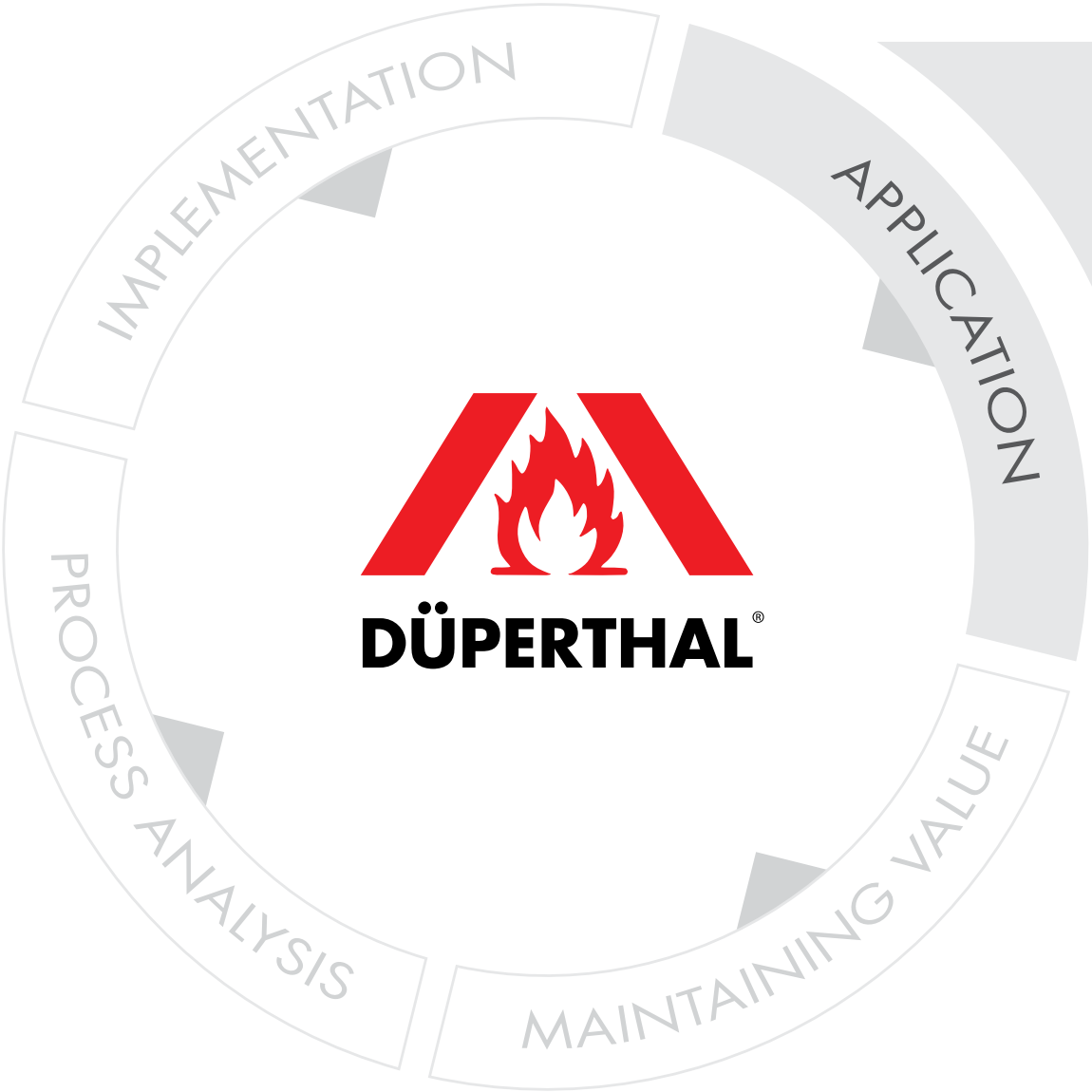
When dealing with hazardous substances, the highest priority is the protection of employees and the environment. Therefore, DÜPERTHAL safety storage cabinets guarantee compliance with the requirements of the Occupational Safety and Health Administration (OSHA and EU-OSHA). We will clarify all relevant topics and train you in the safe handling of our products

Permanent service agreement with regular maintenance and service

Highly complex processes rely on robust structures. With our service agreement, we can safeguard our reliable system solutions even better in your interest. The annual maintenance also extends the manufacturer's guarantee. A double benefit for you - in terms of safety and profitability.

Your Challenge – **Our Solution**

The handling of hazardous substances is subject to stringent regulations – for good reason. DÜPERTHAL can help you to meet all the relevant requirements whilst at the same time optimising your work processes. Based on the analysis of the actual status and the jointly defined objective, you receive an individually tailored and modular system solution from us. Thanks to our varied product range, you can design your laboratory and workplace flexibly and as needed.



1. Storage

Safely storing hazardous substances

We offer a wide range of products for the safe storage of sensitive hazardous goods. Up to 90 minutes of protection in case of fire ensures maximum safety.

2. Use

Using products ergonomically

In addition to a large range of standard solutions, we have tailor-made solutions that integrate seamlessly into your workflows and optimise them.

3. Disposal

Disposing of materials in an environmentally sound manner

There are strict regulations for the disposal of dangerous goods. We provide a wide range of products and components for safe implementation in compliance with regulations.

90 minutes – Course of events **and timetable of a fire**

In the event of a fire, the 90 minutes of tested fire protection is the decisive factor in protecting people and minimising damage to property. DÜPERTHAL safety storage cabinets of fire resistance rating Type 90 allow sufficient time for workers to leave the room in the event of a fire and allow the fire brigade sufficient time to get into the laboratory. Just before a smaller extinguishable fire from stored flammable substances causes an uncontrollable fire.

Type 90

Fire resistance

0 min.

0 minutes - start of the fire

- The fire alarm is activated.
- Workers begin to leave.

5-10-min.

5-10 minutes - after the start of the fire

- Workers are outside the danger zone.
- The fire brigade is on the way to the site.

The test of the cabinet under fire conditions is part of the standard. Each cabinet model is type-tested in a fire chamber in accordance with DIN EN 14470-1. The test parameters and test temperatures in the fire chamber and directly in the cabinet are specified in the standard, and further details are provided on the following pages.

10-15 min.

90 min.

10-15 minutes - after the start of the fire

» The fire brigade is at the source of the fire.

After 10 minutes of burn time

» Safety storage cabinets with a fire resistance of 10 minutes are now losing their function.
» The flammable substances are no longer safe.
» The fire brigade must fight the fire at a considerably increased risk.
» Heavy damage is to be expected.

Your benefits with the 90-minute technology

» Safety storage cabinets Type 90 retain their function for 90 minutes.
» The hazardous substances are stored safely for at least 90 minutes.
» The fire brigade has considerably more time to extinguish the fire safely.
» Reduction of the fire load and minimisation of damage.

Fire chamber test according to **DIN EN 14470-1**

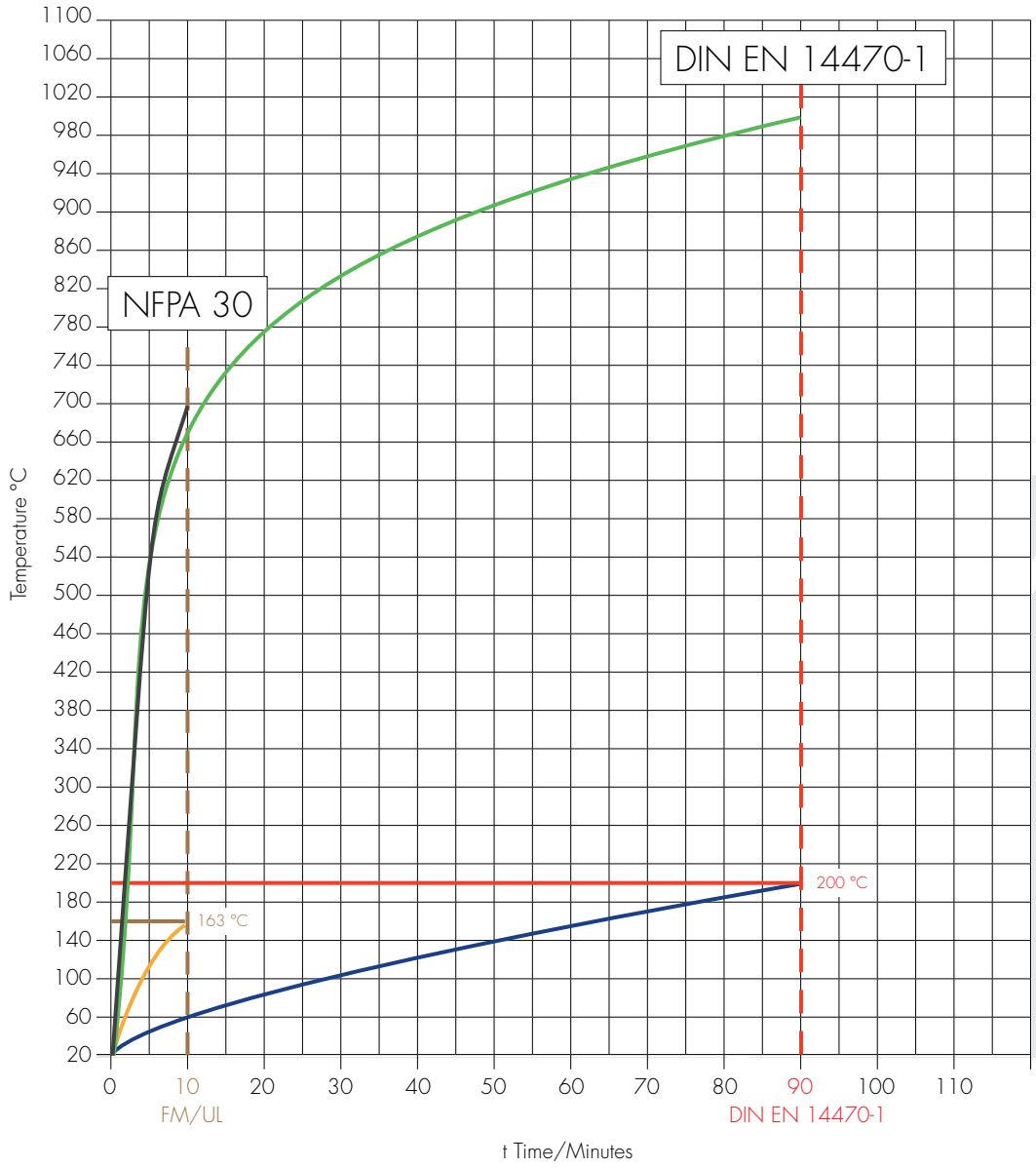
The fire resistance rating of safety storage cabinets in accordance with DIN EN 14470-1 is determined by the rise of temperature of the cabinet interior inside of a fire chamber according to the temperature-time curve in accordance with DIN EN 1363-1. Starting from an initial temperature of 20 +/- 5 °C and after the time until the temperature in the cabinet interior increases to 180 °C maximum, the cabinet is then classified as Type 15, 30, 60 or 90 (analogous to time in minutes).Safety storage cabinets for pressurised gas cylinders are subjected to a comparable test in accordance with DIN EN 14470-2, details on this are provided on page 264.

DIN EN 14470-1

Your economic advantage

Example calculation: (average values)	US standards FM/UL, NFPA 30	European standard DIN EN 14470-1
Cost of purchasing a safety storage cabinet	€ 1,000	€ 2,430
tested fire resistance	10 minutes	90 minutes
Profitability/Costs	**100 € per min.**	**27 € per min.**

Video of an extreme test



Your technical advantage

Fire and explosion-proof safety storage cabinets Type 90 by DÜPERTHAL offer a reliable fire resistance of 90 minutes in accordance with DIN EN 14470-1.

US standards according to FM/UL, NFPA 30

- Maximum allowed temperature in the cabinet in acc. with FM/UL = 163 °C (325 °F).
- Temperature profile in accordance with NFPA 251 in the open fire chamber.
- Example of the rising temperature in an FM/UL cabinet during the fire test, monitored with 1 thermometer.

European standard DIN EN 14470-1.

- Maximum allowed temperature in the cabinet in acc. with DIN EN 14470-1 = 200 °C (392 °F).
- Temperature profile in accordance with DIN EN 1363-1 in the closed fire chamber.
- Example of the rising temperature in a Type 90 cabinet during the fire test, monitored with 11 thermometers.

90 minutes of safety
thanks to special construction

Utmost care is essential in the handling of hazardous substances. Our technology with maximum fire resistance helps you to achieve this. Thus, thanks to their special construction, our safety storage cabinets guarantee fire resistance of 90 minutes, type-tested according to DIN EN 14470-1.

Type 90

Fire resistance

Construction:

- The doors and the outer carcass are made of powder-coated sheet steel.
- The inner carcass and the inside of the doors are made of high-quality decor panels.
- There is a special insulation between the inner and outer carcasses, so that the heat cannot penetrate into the cabinet interior in case of fire.
- In case of fire, doors, drawers and ventilation openings for air supply and exhaust air are automatically closed and the door gaps as well as open joints are sealed by foam-forming gaskets.

Your benefits through DÜPERTHAL safety storage cabinets Type 90:

- A chain reaction will be avoided in case of fire.
- Workers, the fire brigade, and rescue services will be protected.
- Maximum fire protection for buildings and systems.
- Reduction of insurance contributions for fire protection is possible.
- Financial security, e.g. by reducing the risk of default of production and buildings.
- Fulfilment of the requirements of risk management in accordance with ISO 9000 and ISO 14001.
- Use of high-quality safety storage cabinets conserves resources and strengthens the image of your company.

Test criteria, protection objectives **and minimum requirements**

The three essential requirements of a safety storage cabinet in accordance with DIN EN 14470-1 are the minimisation of the risk of fire, the minimisation of fumes released into the work environment, and the retention of possible leakages. The test requirements of the laboratory furniture standard DIN EN 14727 also ensure a minimum of quality.

DIN EN 14470-1
DIN EN 14727

Extracts from DIN EN 14470-1

Ventilation

- To prevent an explosive atmosphere, the ventilation must be effective directly above the bottom tray.
- Ventilation openings for air supply and exhaust air must self-close when the temperature reaches 70 °C (158 °F).

Interior fittings

- The bottom tray for the restraint of possible leakages must still be functional even after the fire resistance test
- The shelves must be made of non-absorbent material, bear the permissible load over the duration of the fire and be at most 1.75 m (5.74 ft) above the floor.

Door technology

- Complete self-locking of the doors within a maximum of 20 seconds, optionally, an arrest system with temperature release at 50 °C (122 °F) is possible.
- Closing force between the main closing and opposite closing edge of the door must not exceed 100 Newtons.
- Each wing of the door must be operational with one hand.
- If the doors are lockable, the locking device must not prevent self-closing in case of fire.

Fire chamber test

- Each cabinet model and size is type-tested in a fire chamber test in accordance with DIN EN 14470-1 Type 90.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

Extracts from DIN EN 14727

Static endurance test

» Standing surfaces, e.g. storage shelves, are subject to a static load and impact tests and must not show any breakage or other damage.

Dynamic load test

» All components that move mechanically such as pull-out shelves, drawers and doors are tested with 50,000 cycles each. After the tests, the doors must close exactly and snap into place.

Tested safety at a very high level including

» Type-testing according to DIN EN 14470-1 by recognised test institutes (TÜV Süd, iBMB Braunschweig, ift Rosenheim).

» TÜV-tested according to DIN EN 14727 (laboratory furniture standard).

» Type 90 classification in accordance with DIN EN 14470-1.

» GS/CE mark.

» High Quality mark of approval for upper-level style, user-friendliness and increased lifetime.

High-quality safety storage cabinets **with maximum fire protection**

Your added advantage with DÜPERTHAL safety storage cabinets!

- **Maximum fire protection for your safety**
  Maximum safety with Type 90 technology and automatic self-closing doors in case of fire.
- **Upper-level style for your health**
  Ventilation in every cabinet level with visual inspection of the butterfly valves, with a continuous earthing concept as a standard.
- **Increased lifetime for your investment**
  Continuous testing in accordance with DIN EN 14727, even 80,000 instead of 50,000 cycles in the dynamic load test.

1 Ventilation

Ventilation in **every cabinet level** and visual inspection of the venting cut-off flaps.

2 Earthing system

To prevent ignition hazards through earthing in accordance with TRGS 727, the bearing surfaces are conductively connected as a standard to the equipotential bonding saddles.

3 Automatic closing of the doors

In case of fire, a thermocouple automatically triggers the uninterrupted closing system via the non-wearing safety feature (functional principle similar to the air bag system).

4 Base

A set-back base is the solution to ergonomic working and a safe position.

5 Lock arrangement

The ergonomic lock arrangement at handle level increases handling convenience.

6 Transport

Due to the base construction with removable base boards, the cabinet is accessible from all sides. As a result, simple transport, for example with a hand pallet truck, is possible.

Solved internally, confirmed externally **and independently**

For DÜPERTHAL, quality is the main focus. Proof of this is provided by the quality marks of approval awarded to each of our safety storage cabinets, in recognition of our comprehensive quality management system as per DIN EN ISO 9001. One basic condition here is that, apart from our own in-house inspections, production of the safety storage cabinets is continuously monitored by external accredited test institutes.

Tested safety - Made in Germany

Tested safety at the highest level including

- Type-tested according to DIN EN 14470-1 as well as DIN EN 14470-2 by recognised test institutes (TÜV Süd, iBMB Braunschweig, ift Rosenheim).
- TÜV testing according to DIN EN 14727 (laboratory furniture standard).
- GS/CE mark.
- High Quality mark of approval for upper-level style, user-friendliness and increased lifetime.

DÜPERTHAL Innovation – sustainably protected technical inventions based on well over **50 national and international patents!**

DIN EN

Explosion and **health protection**

In accordance with DIN EN 14470, safety storage cabinets must be provided with supply and exhaust air connection in order to prevent hazardous vapours escaping into the working area by means of a technical exhaust air system. In this case, the ventilation must be carried out to the open air in a safe place. Alternatively, ATEX-compliant (2014/34/EU) recirculating air filter systems have been tried and tested in practice in safety storage cabinets for solvents. In accordance with TRGS 510, safety storage cabinets without industrial ventilation must be earthed due to the increased danger potential.

» Exhaust air systems

» Filter systems

Your added advantage with industrial ventilation!

» **Preventing an explosive atmosphere**
A concentration dilution can already be achieved in the safety storage cabinet from a 10-fold air exchange per hour, so that an ex-zone around the cabinet is avoided. Please note that a lab bottle that has been opened once can already be a permanent source of emissions.

» **Minimisation of health risks**
With industrial ventilation, an increased risk of explosion as well as odour pollution can be counteracted. In practice, it might be necessary to set a higher air exchange.

» **Effectiveness / Functionality**
The ventilation must be effective immediately above the bottom tray, since solvent vapours are often heavier than air. The laboratory directive also requires that the extraction is applied directly at the point of danger. Therefore, all DÜPERTHAL safety storage cabinets are equipped with ventilation at each cabinet level.

Our commitment to **sustainable action**

As an internationally operating family business with a company culture characterised by the community, we maintain clear values that characterise our daily thinking and action. In this way, we always have the big picture in mind in order to achieve satisfaction and success together with our customers and partners. This vision is committed to bringing the requirements of customers, the environment and society into harmony.

DÜPERTHAL Sustainability

Good economic sense, ecological long-term vision and social care - these are the ingredients for our daily thinking and action.

Economic aspects

The holistic view of the processes of our customers is deeply rooted in our corporate philosophy. This is how we create the basic conditions for optimised, safe and ergonomic work processes. Retaining the value of the products not only reduces costs. The increased lifetime of the safety storage cabinets also saves resources and saves energy for production.

Ecological aspects

DÜPERTHAL is committed to environmental protection and resource efficiency. We attach great importance to the commitment to use locally available raw materials. The short transport routes from suppliers in the surrounding area help to reduce emissions of harmful substances. At the same time, the use of recyclable materials relieves the environment during production.

Socio-cultural aspects

We promote and protect scientific research and development. With our products and services we increase safety in the workplace. We help our customers focus on the essentials - their work and the development of innovations that advance our society. Therefore, we do not limit ourselves to Germany. We document and certify our services in many countries and languages in order to implement our high standards on a comprehensive basis.

We continue the advancement of our company with the same diligence. For that is how we lay the the foundation stone for securing our future-oriented production sites and the preservation of valuable jobs in the region.

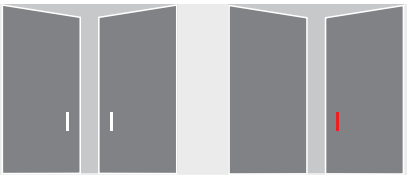
Passive storage
of flammable liquids

1

Safety storage cabinets Type 90 for flammable liquids

Door technologies

1.1 **CLASSIC line**

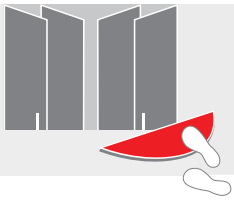


Type 90

1.2 **PREMIUM line**

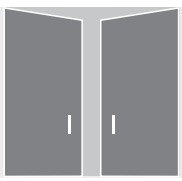
Type 90

1.3 **COMFORT line**



Type 90

1.4 **COMPACT line**



Type 90

1.5 **UTS ergo line®**
BENCH line

Type 90

from page

with **wing door technology,** interior fittings
bottom tray, optionally storage shelves
or pull-out shelves.

36

with **folding door technology,** interior fittings
bottom tray, optionally storage shelves,
pull-out shelves or vario shelves.

66

with folding door technology and **pneumatic operation**
with foot pedal, interior fittings bottom tray,
optionally storage shelves or vario shelves.

88

with **wing door technology**, interior fittings
bottom tray with grating.

98

with **wing door technology,** interior fittings
optionally bottom tray or automatically extending
pull-out tray.

110

Safety storage cabinets for non-flammable media or combined storage

Type 90

1.6 **HSC line**

1.7 **ACID line**

Type 90

1.8 **Chemical cabinet**

1.9 **Environmental cabinet**
1.10 **Toxic substances cabinet**

Type 30

1.11 **BASIC line**

from page

For the combined storage of acids, lye, toxins and flammable hazardous substances.

136

For the storage of corrosive liquids
Interior fittings pull-out trays made of PE.

152

For the storage of flammable and water-polluting substances.

166

Environmental cabinet – for the storage of water-polluting substances.
Toxic substances cabinet – for the storage of toxic substances.

170

with **wing door technology,** interior fittings bottom tray and shelves.

176

CLASSIC line 1.1

Safety storage cabinets
with wing door technology

Your added advantage with the CLASSIC line!

- **Health**
  Ventilation on each cabinet level provides optimised air exchange.
- **Safety**
  In case of fire, a thermocouple automatically initiates the uninterrupted closing of the doors.
- **Working safety**
  Equipotential bonding saddles as a standard on the cabinet help to prevent spark formation.

CLASSIC line in detail

Your classical standard solution for the storage of hazardous substances: The CLASSIC line – highest level of fire protection and as practicable as you require.

1 Classical wing door technology
Easy-moving wing door technology is the correct solution for a multitude of possible applications.

2 One-hand wing door technology
The wing doors can be easily opened with minimum effort via a handle with a single operation.

3 Storage shelves
Storage shelves offer the largest storage capacity and ideal use of space due to their height adjustment at a pitch of 16 mm (0.63 inch).

4 Pull-out shelves
Containers can be safely stored with both hands due to the easy-moving pull-out shelves.

5 Double pull-out stop (patented)
A double pull-out stop prevents several pull-out shelves from being pulled out at the same time.

6 Self-closing in case of fire
The closure control system guarantees that in case of fire the pull-out shelves are retracted and only then are the doors closed.

CLASSIC line Type 90 at a glance

CLASSIC standard XL with storage shelves or storage shelves and centre partition wall

Dimensions [mm] [inch]	Width	Depth	Height
CLASSIC standard XL 1-2	1194 47	612 24.1	2085 82.09

CLASSIC standard XL – V1

CLASSIC standard XL – V2

Max. volume of largest individual container [l]/[gal]	30/7.92	15/3.96

CLASSIC standard L, ML and M with storage shelves

Dimensions [mm] [inch]	Width	Depth	Height
CLASSIC standard L	894 35.2	612 24.1	2085 82.09
CLASSIC standard ML	594 23.39	747 29.41	2085 82.09
CLASSIC standard M	594 23.39	612 24.1	2085 82.09

CLASSIC standard L

CLASSIC standard ML

CLASSIC standard M

Max. volume of largest individual container [l]/[gal]	20/5.28	15/3.96	10/2.64

CLASSIC standard XS, SL and S with storage shelves

Dimensions [mm] [inch]	Width	Depth	Height
CLASSIC standard XS	1194 47	612 24.1	1425 56.1
CLASSIC standard SL	594 23.39	474 18.66	1425 56.1
CLASSIC standard S	594 23.39	612 24.1	1425 56.1

CLASSIC standard XS

CLASSIC standard SL

CLASSIC standard S

Max. volume of largest individual container [l]/[gal]	30/7.93	15/3.96	10/2.64

CLASSIC pro XL with pull-out shelves

Dimensions [mm] [inch]	Width	Depth	Height
CLASSIC pro XL 1-4	1194 47	612 24.1	2085 82.09

CLASSIC pro XL – V1

CLASSIC pro XL – V2

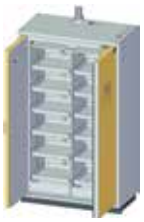
CLASSIC pro XL – V3

CLASSIC pro XL – V4

Max. volume of largest individual container [l]/[gal]	30/7.93	30/7.93	30/7.93	30/7.93

CLASSIC pro XL with pull-out shelves and centre partition wall

Dimensions [mm] [inch]	Width	Depth	Height
CLASSIC pro XL 5-8	1194 47	612 24.1	2085 82.09



CLASSIC pro XL – V5

CLASSIC pro XL – V6

CLASSIC pro XL – V7

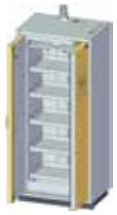
CLASSIC pro XL – V8

Max. volume of largest individual container [l]/[gal]	10/2.64	10/2.64	10/2.64	10/2.64

CLASSIC pro L with pull-out shelves

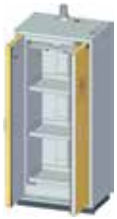
Dimensions [mm] [inch]	Width	Depth	Height
CLASSIC pro L 1-4	894 35.2	612 24.1	2085 82.09

CLASSIC pro L – V1



CLASSIC pro L – V2

CLASSIC pro L – V3

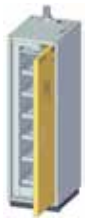


CLASSIC pro L – V4

Max. volume of largest individual container [l]/[gal]	20/5.28	20/5.28	20/5.28	20/5.28

CLASSIC pro ML with pull-out shelves

Dimensions [mm] [inch]	Width	Depth	Height
CLASSIC pro ML 1-4	594 23.39	747 29.41	2085 82.09



CLASSIC pro ML – V1

CLASSIC pro ML – V2

CLASSIC pro ML – V3

CLASSIC pro ML – V4

Max. volume of largest individual container [l]/[gal]	15/3.96	15/3.96	15/3.96	15/3.96

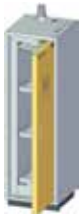
CLASSIC pro M with pull-out shelves

Dimensions [mm] [inch]	Width	Depth	Height
CLASSIC pro M 1-4	594 23.39	612 24.1	2085 82.09

CLASSIC pro M – V1

CLASSIC pro M – V2

CLASSIC pro M – V3



CLASSIC pro M – V4

Max. volume of largest individual container [l]/[gal]	10/2.64	10/2.64	10/2.64	10/2.64

CLASSIC standard – Type 90

Your classical standard solution for the storage of hazardous substances: The CLASSIC line standard – highest level of fire protection and as practicable as you require.

CLASSIC standard XL

CLASSIC standard L

CLASSIC standard M

CLASSIC standard S

CLASSIC pro – Type 90

The cabinets of the CLASSIC line pro offer an optimum level of comfort for the storage of flammable chemicals with 90 minutes of fire protection. Discover the versatility offered by CLASSIC pro cabinets.

CLASSIC pro XL – V1

CLASSIC pro L – V3

CLASSIC pro M – V1

Interior fittings:

» Storage shelves, pull-out shelves and bottom tray, optionally made of powder-coated sheet steel or stainless steel.

Construction:

» Wing doors, powder-coated sheet steel.
» The doors are generally right-hinged for one-door cabinets. A left-hung door can be delivered at no extra charge.
» Outer carcass, powder-coated sheet steel.
» Inner carcass made of high-quality decor panels.

Colour standard version:

» Wing doors in zinc yellow RAL 1018.
» Carcass completely in light grey RAL 7035.
» Individual colours possible.
» Base in slate grey RAL 7015.

Golden yellow **RAL 1004** | Light grey **RAL 7035** | Zinc yellow **RAL 1018** | Pure white **RAL 9010**

Ordering information

		CLASSIC standard XL - V1	CLASSIC standard XL - V2
		with storage shelves	with storage shelves and centre partition wall
Ref. no.			
with classical wing door technology		29-201267-030	29-201267-032
with one-hand wing door technology		29-201265-030	29-201265-032
Details		4 storage shelves, 1 bottom tray and base	2x 4 storage shelves, 2 bottom trays, centre partition wall and base
Dimensions			
Outer (width x depth x height)	[mm] [inch]	1194 x 612 x 2085 47 x 24.1 x 82.09	1194 x 612 x 2085 47 x 24.1 x 82.09
Inner (width x depth x height)	[mm] [inch]	1098 x 469 x 1700 43.23 x 18.46 x 66.93	1098 x 469 x 1700 43.23 x 18.46 x 66.93
Weight	[kg] [lbs]	455 1003.1	465 1025.15
Storage capacity/standing surface (approx. data)			
Size	[400 ml/11 oz] [1.0 l/0.26 gal] [1.0 l/0.26 gal] [2.5 l/0.66 gal]	105 spray cans 38 cans 45 glass lab bottles 19 glass lab bottles	53 spray cans 19 cans 23 glass lab bottles 9 glass lab bottles

Ref. no. **Additional interior fittings**	**Material**		
Interior fittings	Stainless steel	29-51267-260	29-51267-262
Storage shelf	Sheet steel	29-51267-013	29-51267-015
Storage shelf	Stainless steel	29-51267-213	29-51267-215
Insert for storage shelf	PP	29-51267-323	29-51267-325
Anti-slip mat	Rubber	29-51267-533	29-51267-535
Locker (door hung left)		29-50000-036L	29-50000-036L
Locker (door hung right)		29-50000-036	29-50000-036

Other accessories on page 58. Other technical details and dimensions from page 60 onwards.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

	CLASSIC standard L	CLASSIC standard ML	CLASSIC standard M
	with storage shelves	with storage shelves Special depth 747 mm/29.41 inch	with storage shelves
	29-200967-030	29-200677-030	29-200667-030
	29-200965-030	–	–
	4 storage shelves, 1 bottom tray and base	4 storage shelves, 1 bottom tray and base	4 storage shelves, 1 bottom tray and base
	894 x 612 x 2085 35.2 x 24.1 x 82.09	594 x 747 x 2085 23.39 x 29.41 x 82.09	594 x 612 x 2085 23.39 x 24.1 x 82.09
	798 x 469 x 1700 31.42 x 18.46 x 66.93	498 x 604 x 1700 19.61 x 23.78 x 66.93	498 x 469 x 1700 19.61 x 18.46 x 66.93
	365 804.69	325 716.5	265 584.22
	77 spray cans 28 cans 34 glass lab bottles 14 glass lab bottles	57 spray cans 20 cans 25 glass lab bottles 10 glass lab bottles	45 spray cans 16 cans 20 glass lab bottles 8 glass lab bottles
	29-50967-260	29-50677-260	29-50667-260
	29-50967-013	29-50677-013	29-50667-013
	29-50967-213	29-50677-213	29-50667-213
	29-50967-323	29-50677-323	29-50667-323
	29-50967-533	29-50677-533	29-50667-533
	29-50000-036L	29-50000-036L	29-50000-036L
	29-50000-036	29-50000-036	29-50000-036

Ordering information

		CLASSIC standard XS	CLASSIC standard SL
		with storage shelves	with storage shelves Special depth 747 mm/29.41 inch
Ref. no.			
with classical wing door technology		29-131267-030	29-130677-030
with one-hand wing door technology		29-131265-030	–
Details		2 storage shelves, 1 bottom tray and base	2 storage shelves, 1 bottom tray and base
Dimensions			
Outer (width x depth x height)	[mm] [inch]	1194 x 612 x 1425 47 x 24.1 x 56.1	594 x 747 x 1425 23.39 x 29.41 x 56.1
Inner (width x depth x height)	[mm] [inch]	1098 x 469 x 1040 43.23 x 18.46 x 40.94	498 x 604 x 1040 19.61 x 23.78 x 40.94
Weight	[kg] [lbs]	380 837.76	225 496.04
Storage capacity/standing surface (approx. data)			
Size	[400 ml/11 oz] [1.0 l/0.26 gal] [1.0 l/0.26 gal] [2.5 l/0.66 gal]	105 spray cans 38 cans 45 glass lab bottles 19 glass lab bottles	75 spray cans 20 cans 25 glass lab bottles 10 glass lab bottles

Ref. no. **Additional interior fittings**	**Material**		
Interior fittings	Stainless steel	29-51267-261	29-50677-261
Storage shelf	Sheet steel	29-51267-013	29-50677-013
Storage shelf	Stainless steel	29-51267-213	29-50677-213
Insert for storage shelf	PP	29-51267-323	29-50677-323
Anti-slip mat	Rubber	29-51267-533	29-50677-533
Locker (door hung left)		29-50000-036L	29-50000-036L
Locker (door hung right)		29-50000-036	29-50000-036

Other accessories on page 58. Other technical details and dimensions from page 60 onwards.

Tested safety at a very high level including:

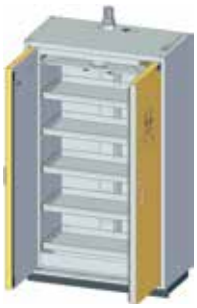
DIN EN 14470-1
DIN EN 14727

CLASSIC standard S

with storage shelves

29-130667-030	
–	
2 storage shelves, 1 bottom tray and base	
594 x 612 x 1425 23.39 x 24.1 x 56.1	
498 x 469 x 1040 19.61 x 18.46 x 40.94	
195 429.9	
45 spray cans 16 cans 20 glass lab bottles 8 glass lab bottles	
29-50667-261	
29-50667-013	
29-50667-213	
29-50667-323	
29-50667-533	
29-50000-036L	
29-50000-036	

Ordering information



		CLASSIC pro XL - V1	CLASSIC pro XL - V2
		with pull-out shelves	with pull-out shelves
Ref. no.			
with classical wing door technology		29-201267-053	29-201267-052
with one-hand wing door technology		29-201265-053	29-201265-052
Details		6 pull-out shelves, 1 bottom tray and base	5 pull-out shelves, 1 bottom tray and base
Dimensions			
Outer (width x depth x height)	[mm]	1194 x 612 x 2085	1194 x 612 x 2085
	[inch]	47 x 24.1 x 82.09	47 x 24.1 x 82.09
Inner (width x depth x height)	[mm]	979 x 469 x 1700	979 x 469 x 1700
	[inch]	38.54 x 18.46 x 66.93	38.54 x 18.46 x 66.93
Weight	[kg]	465	465
	[lbs]	1025.15	1025.15
Storage capacity/standing surface (approx. data)			
Size	[400 ml/11 oz]	77 spray cans	77 spray cans
	[1.0 l/0.26 gal]	29 cans	29 cans
	[1.0 l/0.26 gal]	35 glass lab bottles	35 glass lab bottles
	[2.5 l/0.66 gal]	14 glass lab bottles	14 glass lab bottles
Ref. no.			
Additional interior fittings	**Material**		
Interior fittings	Stainless steel	29-51267-273	29-51267-272
Tray insert	PP	29-51267-327	29-51267-327
Label holder		29-50000-001	29-50000-001
Anti-slip mat for pull-out shelf	Rubber	29-51267-537	29-51267-537
Locker (door hung left)		29-50000-037L	29-50000-037L
Locker (door hung right)		29-50000-037	29-50000-037

Other accessories on page 58. Other technical details and dimensions from page 60 onwards.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

CLASSIC pro XL - V3	CLASSIC pro XL - V4
with pull-out shelves	with pull-out shelves
29-201267-051	**29-201267-050**
29-201265-051	**29-201265-050**
4 pull-out shelves, 1 bottom tray and base	3 pull-out shelves, 1 bottom tray and base
1194 x 612 x 2085 47 x 24.1 x 82.09	1194 x 612 x 2085 47 x 24.1 x 82.09
979 x 469 x 1700 38.54 x 18.46 x 66.93	979 x 469 x 1700 38.54 x 18.46 x 66.93
465 1025.15	465 1025.15
77 spray cans 29 cans 35 glass lab bottles 14 glass lab bottles	77 spray cans 29 cans 35 glass lab bottles 14 glass lab bottles
29-51267-271	29-51267-270
29-51267-327	29-51267-327
29-50000-001	29-50000-001
29-51267-537	29-51267-537
29-50000-037L	29-50000-037L
29-50000-037	29-50000-037

Ordering information

	CLASSIC pro XL - V5	CLASSIC pro XL - V6
	with pull-out shelves and centre partition wall	with pull-out shelves and centre partition wall
Ref. no.		
with classical wing door technology	29-201267-059	29-201267-058
with one-hand wing door technology	29-201265-059	29-201265-058
Details	2x 6 pull-out shelves, 2 bottom trays, centre partition wall and base	2x 5 pull-out shelves, 2 bottom trays, centre partition wall and base
Dimensions		
Outer (width x depth x height) [mm]	1194 x 612 x 2085	1194 x 612 x 2085
Outer (width x depth x height) [inch]	47 x 24.1 x 82.09	47 x 24.1 x 82.09
Inner (width x depth x height) [mm]	979 x 469 x 1700	979 x 469 x 1700
Inner (width x depth x height) [inch]	38.54 x 18.46 x 66.93	38.54 x 18.46 x 66.93
Weight [kg]	485	485
Weight [lbs]	1069.24	1069.24
Storage capacity/standing surface (approx. data)		
Size [400 ml/11 oz]	37 spray cans	37 spray cans
[1.0 l/0.26 gal]	13 cans	13 cans
[1.0 l/0.26 gal]	16 glass lab bottles	16 glass lab bottles
[2.5 l/0.66 gal]	6 glass lab bottles	6 glass lab bottles

Additional interior fittings	**Material**	**Ref. no.**	**Ref. no.**
Interior fittings	Stainless steel	29-51267-279	29-51267-278
Tray insert	PP	29-51267-329	29-51267-329
Label holder		29-50000-001	29-50000-001
Anti-slip mat for pull-out shelf	Rubber	29-51267-539	29-51267-539
Locker (door hung left)		29-50000-037L	29-50000-037L
Locker (door hung right)		29-50000-037	29-50000-037

Other accessories on page 58. Other technical details and dimensions from page 60 onwards.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

	CLASSIC pro XL - V7	CLASSIC pro XL - V8
	with pull-out shelves and centre partition wall	with pull-out shelves and centre partition wall
	29-201267-057	29-201267-056
	29-201265-057	29-201265-056
	2x 4 pull-out shelves, 2 bottom trays, centre partition wall and base	2x 3 pull-out shelves, 2 bottom trays, centre partition wall and base
	1194 x 612 x 2085 47 x 24.1 x 82.09	1194 x 612 x 2085 47 x 24.1 x 82.09
	979 x 469 x 1700 38.54 x 18.46 x 66.93	979 x 469 x 1700 38.54 x 18.46 x 66.93
	485 1069.24	485 1069.24
	37 spray cans 13 cans 15 glass lab bottles 6 glass lab bottles	37 spray cans 13 cans 15 glass lab bottles 6 glass lab bottles
	29-51267-277	29-51267-276
	29-51267-329	29-51267-329
	29-50000-001	29-50000-001
	29-51267-539	29-51267-539
	29-50000-037L	29-50000-037L
	29-50000-037	29-50000-037

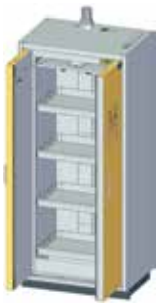
Ordering information

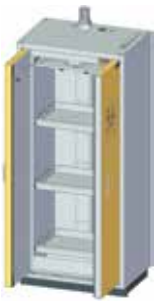
		CLASSIC pro L - V1	CLASSIC pro L - V2
		with pull-out shelves	with pull-out shelves
Ref. no.			
with classical wing door technology		29-200967-053	29-200967-052
with one-hand wing door technology		29-200965-053	29-200965-052
Details		6 pull-out shelves, 1 bottom tray and base	5 pull-out shelves, 1 bottom tray and base
Dimensions			
Outer (width x depth x height)	[mm]	894 x 612 x 2085	894 x 612 x 2085
	[inch]	35.2 x 24.1 x 82.09	35.2 x 24.1 x 82.09
Inner (width x depth x height)	[mm]	679 x 469 x 1700	679 x 469 x 1700
	[inch]	26.73 x 18.46 x 66.93	26.73 x 18.46 x 66.93
Weight	[kg]	365	365
	[lbs]	804.69	804.69
Storage capacity/standing surface (approx. data)			
Size	[400 ml/11 oz]	63 spray cans	63 spray cans
	[1.0 l/0.26 gal]	22 cans	22 cans
	[1.0 l/0.26 gal]	27 glass lab bottles	27 glass lab bottles
	[2.5 l/0.66 gal]	10 glass lab bottles	10 glass lab bottles
Ref. no.			
Additional interior fittings	**Material**		
Interior fittings	Stainless steel	29-50967-273	29-50967-272
Tray insert	PP	29-50967-327	29-50967-327
Label holder		29-50000-001	29-50000-001
Anti-slip mat for pull-out shelf	Rubber	29-50967-537	29-50967-537
Locker (door hung left)		29-50000-037L	29-50000-037L
Locker (door hung right)		29-50000-037	29-50000-037

Other accessories on page 58. Other technical details and dimensions from page 60 onwards.

Tested safety at a very high level including:

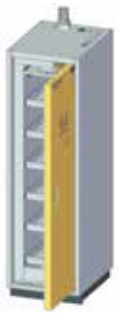
DIN EN 14470-1
DIN EN 14727





	CLASSIC pro L - V3	CLASSIC pro L - V4
	with pull-out shelves	with pull-out shelves
	29-200967-051	**29-200967-050**
	29-200965-051	**29-200965-050**
	4 pull-out shelves, 1 bottom tray and base	3 pull-out shelves, 1 bottom tray and base
	894 x 612 x 2085 35.2 x 24.1 x 82.09	894 x 612 x 2085 35.2 x 24.1 x 82.09
	679 x 469 x 1700 26.73 x 18.46 x 66.93	679 x 469 x 1700 26.73 x 18.46 x 66.93
	365 804.69	365 804.69
	63 spray cans 22 cans 27 glass lab bottles 10 glass lab bottles	63 spray cans 22 cans 27 glass lab bottles 10 glass lab bottles
	29-50967-271	29-50967-270
	29-50967-327	29-50967-327
	29-50000-001	29-50000-001
	29-50967-537	29-50967-537
	29-50000-037L	29-50000-037L
	29-50000-037	29-50000-037

Ordering information



		CLASSIC pro ML - V1	CLASSIC pro ML - V2
		with pull-out shelves Special depth 747 mm/29.41 inch	with pull-out shelves Special depth 747 mm/29.41 inch
Ref. no.			
with classical wing door technology		29-200677-053	29-200677-052
Details		6 pull-out shelves, 1 bottom tray and base	5 pull-out shelves, 1 bottom tray and base
Dimensions			
Outer (width x depth x height)	[mm] [inch]	594 x 747 x 2085 23.39 x 29.41 x 82.09	594 x 747 x 2085 23.39 x 29.41 x 82.09
Inner (width x depth x height)	[mm] [inch]	379 x 604 x 1700 14.92 x 23.78 x 66.93	379 x 604 x 1700 14.92 x 23.78 x 66.93
Weight	[kg] [lbs]	335 738.55	335 738.55
Storage capacity/standing surface (approx. data)			
Size	[400 ml/11 oz] [1.0 l/0.26 gal] [1.0 l/0.26 gal] [2.5 l/0.66 gal]	50 spray cans 15 cans 19 glass lab bottles 7 glass lab bottles	50 spray cans 15 cans 19 glass lab bottles 7 glass lab bottles
Ref. no.			
Additional interior fittings	**Material**		
Interior fittings	Stainless steel	29-50677-273	29-50677-272
Tray insert	PP	29-50677-327	29-50677-327
Label holder		29-50000-001	29-50000-001
Anti-slip mat for pull-out shelf	Rubber	29-50677-537	29-50677-537
Locker (door hung left)		29-50000-037L	29-50000-037L
Locker (door hung right)		29-50000-037	29-50000-037

Other accessories on page 58. Other technical details and dimensions from page 60 onwards.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

	CLASSIC pro ML - V3	CLASSIC pro ML - V4
	with pull-out shelves Special depth 747 mm/29.41 inch	with pull-out shelves Special depth 747 mm/29.41 inch
	29-200677-051	29-200677-050
	4 pull-out shelves, 1 bottom tray and base	3 pull-out shelves, 1 bottom tray and base
	594 x 747 x 2085 23.39 x 29.41 x 82.09	594 x 747 x 2085 23.39 x 29.41 x 82.09
	379 x 604 x 1700 14.92 x 23.78 x 66.93	379 x 604 x 1700 14.92 x 23.78 x 66.93
	335 738.55	335 738.55
	50 spray cans 15 cans 19 glass lab bottles 7 glass lab bottles	50 spray cans 15 cans 19 glass lab bottles 7 glass lab bottles
	29-50677-271	29-50677-270
	29-50677-327	29-50677-327
	29-50000-001	29-50000-001
	29-50677-537	29-50677-537
	29-50000-037L	29-50000-037L
	29-50000-037	29-50000-037

Ordering information

		CLASSIC pro M - V1	CLASSIC pro M - V2
		with pull-out shelves	with pull-out shelves
Ref. no.			
with classical wing door technology		29-200667-053	29-200667-052
Details		6 pull-out shelves, 1 bottom tray and base	5 pull-out shelves, 1 bottom tray and base
Dimensions			
Outer (width x depth x height)	[mm] [inch]	594 x 612 x 2085 23.39 x 24.1 x 82.09	594 x 612 x 2085 23.39 x 24.1 x 82.09
Inner (width x depth x height)	[mm] [inch]	379 x 469 x 1700 14.92 x 18.46 x 66.93	379 x 469 x 1700 14.92 x 18.46 x 66.93
Weight	[kg] [lbs]	275 606.27	275 606.27
Storage capacity/standing surface (approx. data)			
Size	[400 ml/11 oz] [1.0 l/0.26 gal] [1.0 l/0.26 gal] [2.5 l/0.66 gal]	46 spray cans 16 cans 20 glass lab bottles 8 glass lab bottles	46 spray cans 16 cans 20 glass lab bottles 8 glass lab bottles

Additional interior fittings	**Material**	**Ref. no.**	
Interior fittings	Stainless steel	29-50667-273	29-50667-272
Tray insert	PP	29-50667-327	29-50667-327
Label holder		29-50000-001	29-50000-001
Anti-slip mat for pull-out shelf	Rubber	29-50667-537	29-50667-537
Locker (door hung left)		29-50000-037L	29-50000-037L
Locker (door hung right)		29-50000-037	29-50000-037

Other accessories on page 58. Other technical details and dimensions from page 60 onwards.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

	CLASSIC pro M - V3	CLASSIC pro M - V4
	with pull-out shelves	with pull-out shelves
	29-200667-051	29-200667-050
	4 pull-out shelves, 1 bottom tray and base	3 pull-out shelves, 1 bottom tray and base
	594 x 612 x 2085 23.39 x 24.1 x 82.09	594 x 612 x 2085 23.39 x 24.1 x 82.09
	379 x 469 x 1700 14.92 x 18.46 x 66.93	379 x 469 x 1700 14.92 x 18.46 x 66.93
	275 606.27	275 606.27
	46 spray cans 16 cans 20 glass lab bottles 8 glass lab bottles	46 spray cans 16 cans 20 glass lab bottles 8 glass lab bottles
	29-50667-271	29-50667-270
	29-50667-327	29-50667-327
	29-50000-001	29-50000-001
	29-50667-537	29-50667-537
	29-50000-037L	29-50000-037L
	29-50000-037	29-50000-037

Accessories - varied and flexible

Adapt the cabinets of the CLASSIC line to your requirements even better with the large variety of accessories offered. To make your workplace more efficient and safer.

Exhaust air systems
Monitoring exhaust air systems help prevent explosion risks in work areas, see programme section 7.

Earthing cables
Through the equipotential bonding saddles on the cabinet as a standard and an additional earthing cable with crocodile clip in the interior, conductive containers can be directly connected to the earthing cable as per TRGS 727.

Anti-slip mat
Anti-slip mats can prevent containers from inadvertently slipping. So everything stays where it belongs (see additional interior fittings).

Labelling system
When the doors are opened, the label holder folds forward for easier reading. Up to seven holders can be attached and the scannable labels can be easily changed.

Transport trolley
with antistatic rollers to safely transport hazardous substances.

Red-Box
for safely storing documents exactly where they are needed.

Absorber cloths
Absorber cloths are specially designed for use with chemicals and are thus ideal for picking up spilled hazardous substances.

Locker
bolted directly in the safety storage cabinet as additionally protected access control (see additional interior fittings).

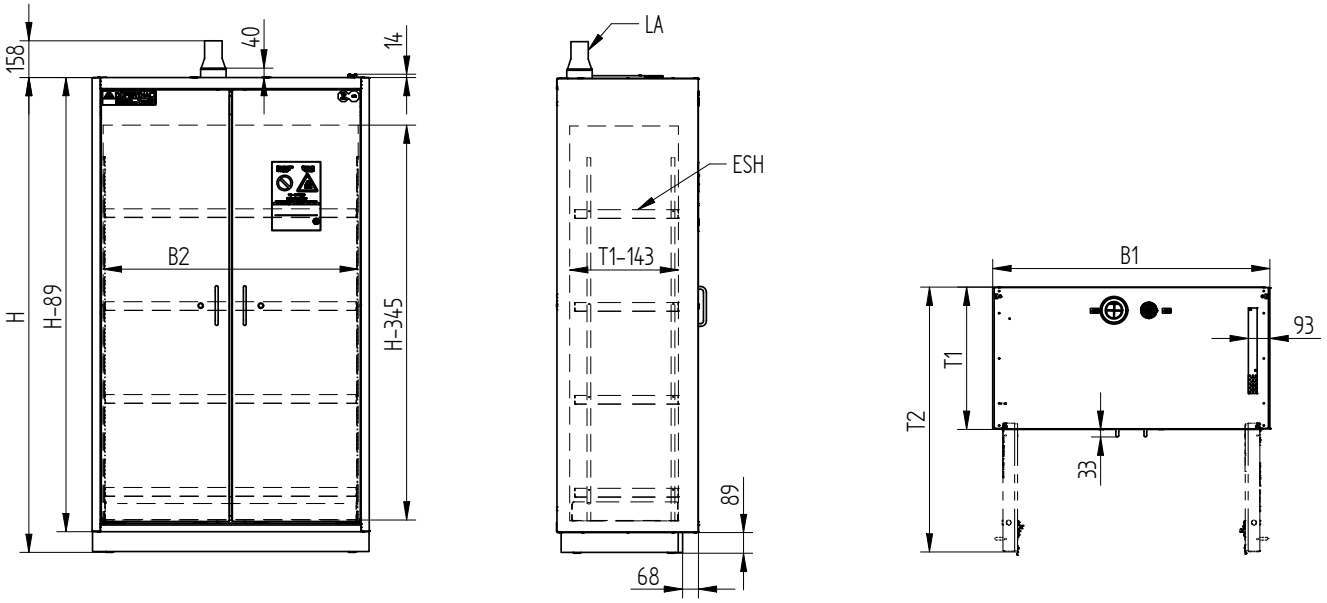
Accessories	Ref. no.
Pipe penetration (reclosable)	on request
Pipe penetration	29-70000-048
Red-Box	2.233.04

Optional extras	
Transport trolley for flammable media	7.02.100
Earthing cable with crocodile clip	1.806.63
Exhaust air system or ventilator	see programme section 7 or at www.dueperthal.com
Safety container	see programme section 8 or at www.dueperthal.com
Absorber	see programme section 10 or at www.dueperthal.com

Tech specs CLASSIC standard – Type 90

Technical details - CLASSIC standard

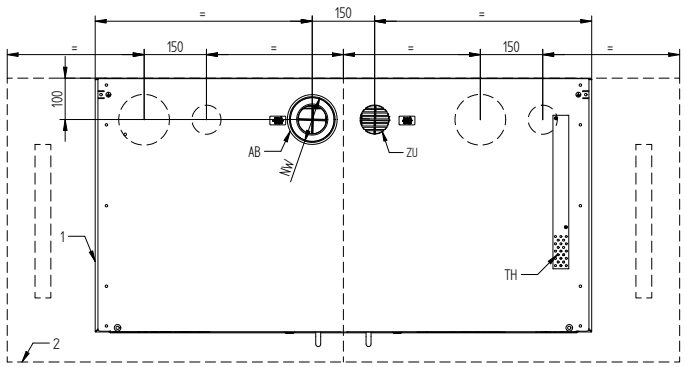
Front view | Side view | Top view



Model size		S	SL	XS	M	ML	L	LL	XL	XXL
H	[mm]	1385	1385	1385	2045	2045	2045	2045	2045	2045
	[inch]	54.53	54.53	54.53	80.51	80.51	80.51	80.51	80.51	80.51
B1	[mm]	594	594	1194	594	594	894	894	1194	1650
	[inch]	23.39	23.39	47	23.39	23.39	35.2	35.2	47	64.96
B2	[mm]	498	498	1098	498	498	798	798	1098	2x 746
	[inch]	19.61	19.61	43.23	19.61	19.61	31.42	31.42	43.23	2x 29.37
T1	[mm]	612	747	612	612	747	612	747	612	747
	[inch]	24.1	29.41	24.1	24.1	29.41	24.1	29.41	24.1	29.41
T2	[mm]	1100	1235	1140	1100	1235	990	1125	1140	1483
	[inch]	43.31	48.62	44.88	43.31	48.62	38.98	44.29	44.88	56.61
Doors		1	1	2	1	1	2	2	2	2

LA: Connection socket NW 75 (2.95)
ESH: Adjustable heights and standing surface dimensions

Top view - more details

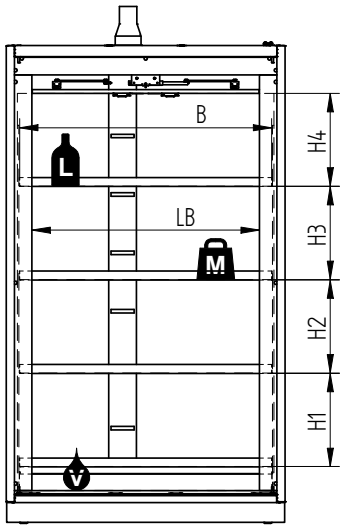


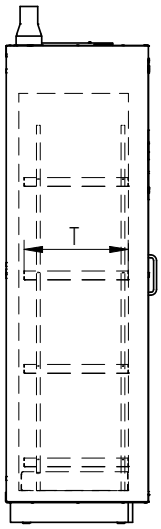
1: Cabinet size S-XL
2: Cabinet size XXL
NW: 110 (4.33) with adapter 75 (2.95)
AB: Exhaust air connection
ZU: Air supply
TH: Thermocouple

Tech specs CLASSIC standard – Type 90

Technical details - CLASSIC standard

Front view | Side view





Max. container height [mm] [inch]

Model size		S | SL | XS	M | ML L | LL XL | XXL
2 storage shelves	**H1**	478 18.82	798 31.42
	H4	457 18	797 31.38
3 storage shelves	**H1**	318 12.52	542 21.34
	H2	318 12.52	526 20.71
	H4	297 11.7	525 20.67
4 storage shelves	**H1**	–	398 15.67
	H2	–	398 15.67
	H3	–	398 15.67
	H4	–	397 15.63

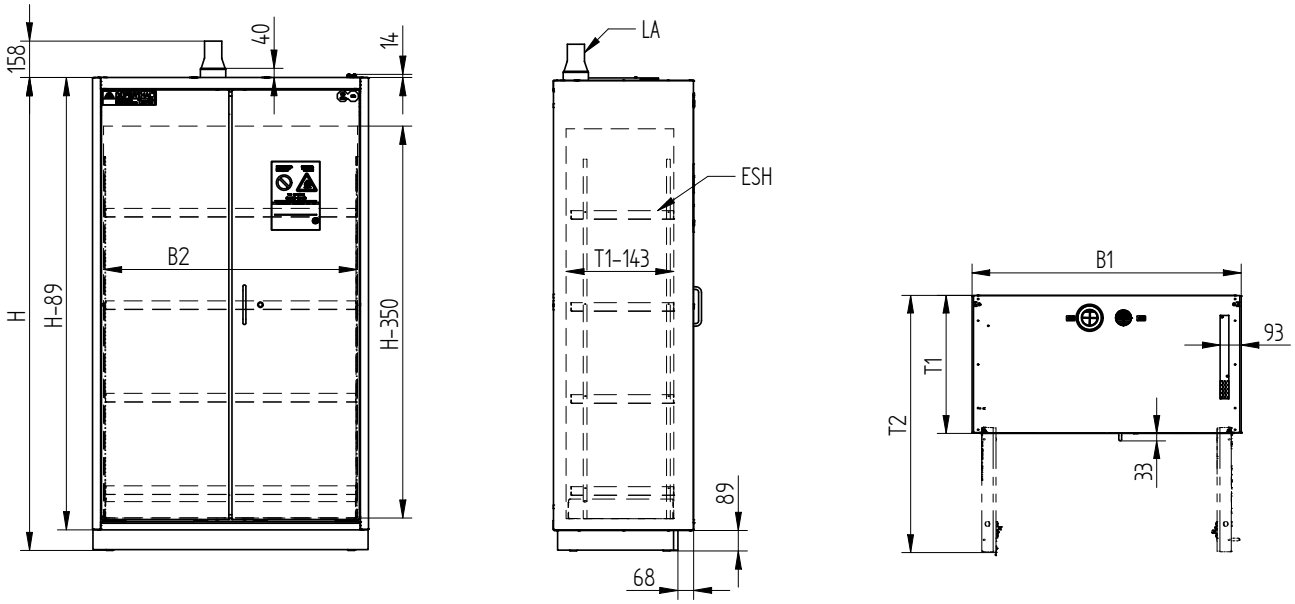
Model size		S	SL	XS	M	ML	L	LL	XL	XL (CP)	XXL
B	[mm] [inch]	479 18.86	479 18.86	1079 42.48	479 18.86	479 18.86	779 30.67	779 30.67	1079 42.48	2x 522 2x 20.55	2x 727 2x 28.62
LB	[mm] [inch]	374 14.72	374 14.72	974 38.35	374 14.72	374 14.72	674 26.54	674 26.54	974 38.35	2x 479 2x 18.86	2x 684 2x 26.93
T	[mm] [inch]	445 17.52	580 22.83	445 17.52	445 17.52	580 22.83	445 17.52	580 22.83	445 17.52	445 17.52	580 22.83
M	[kg] [lbs]	75 165.35	75 165.35	75 165.35	75 165.35	75 165.35	75 165.35	75 165.35	75 165.35	75 165.35	75 165.35
L	[l] [gal]	10 2.64	15 3.96	30 7.93	10 2.64	15 3.96	20 5.28	25 6.6	30 7.93	15 3.96	25 6.6
V	[l] [gal]	11 2.91	16,5 4.36	33 8.72	11 2.91	16,5 4.36	22 5.81	27,5 7.26	33 8.72	16,5 4.36	27,5 7.26
Tare weight	[kg] [lbs]	195 429.9	225 496.04	380 837.76	265 584.22	325 716.5	365 804.69	410 903.9	455 1003.1	465 1025.15	866 1909.2
Max. additional load	[kg] [lbs]	240 529.11	240 529.11	240 529.11	360 793.66	360 793.66	360 793.66	360 793.66	360 793.66	360 793.66	2x 360 2x 793.66

B: Inner width of standing surface, in millimetres
LB: Clear width (doors), in millimetres
T: Inner depth of standing surface, in millimetres
M Load bearing capacity per storage shelf (uniformly distributed), in kilograms
L: Maximum volume of the largest individual container, in litres
V: Max. collection volume, in litres
CP: (with) centre partition wall

Tech specs CLASSIC standard – Type 90

Technical details - CLASSIC standard with one-hand wing door technology

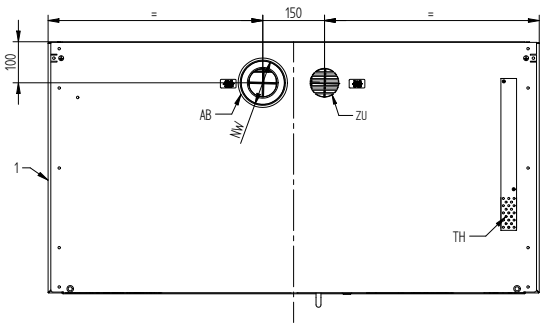
Front view	Side view	Top view



Model size		XS	L	LL	XL
H	[mm] [inch]	1385 54.53	2045 80.51	2045 80.51	2045 80.51
B1	[mm] [inch]	1194 47	894 35.2	894 35.2	1194 47
B2	[mm] [inch]	1098 43.23	798 31.42	798 31.42	1098 43.23
T1	[mm] [inch]	612 24.1	612 24.1	747 29.41	612 24.1
T2	[mm] [inch]	1140 44.88	990 38.98	1125 44.29	1140 44.88
Doors		2	2	2	2

LA: Connection socket NW 75 (2.95)
ESH: Adjustable heights and standing surface dimensions

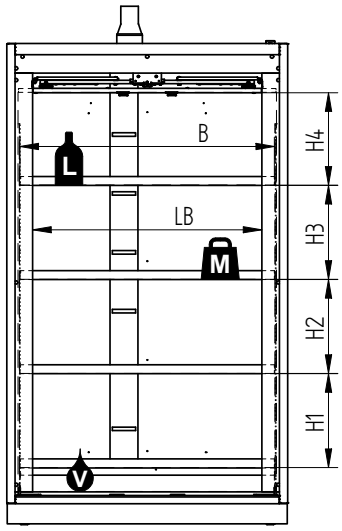
Top view - more details

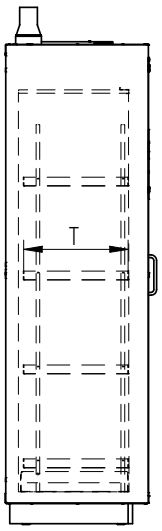


1: Cabinet size XS-XL
NW: 110 (4.33) with adapter 75 (2.95)
AB: Exhaust air connection
ZU: Air supply
TH: Thermocouple

Dimensions | Adjustment height - CLASSIC standard with one-hand wing door technology

Front view | Side view





Max. container height [mm] [inch]

Model size		XS	L | LL | XL
2 storage shelves	H1	478 18.82	798 31.42
	H4	452 17.8	792 31.18
3 storage shelves	H1	318 12.52	542 21.34
	H2	318 12.52	526 20.71
	H4	292 11.5	520 20.47
4 storage shelves	H1	–	398 15.67
	H2	–	398 15.67
	H3	–	398 15.67
	H4	–	392 15.43

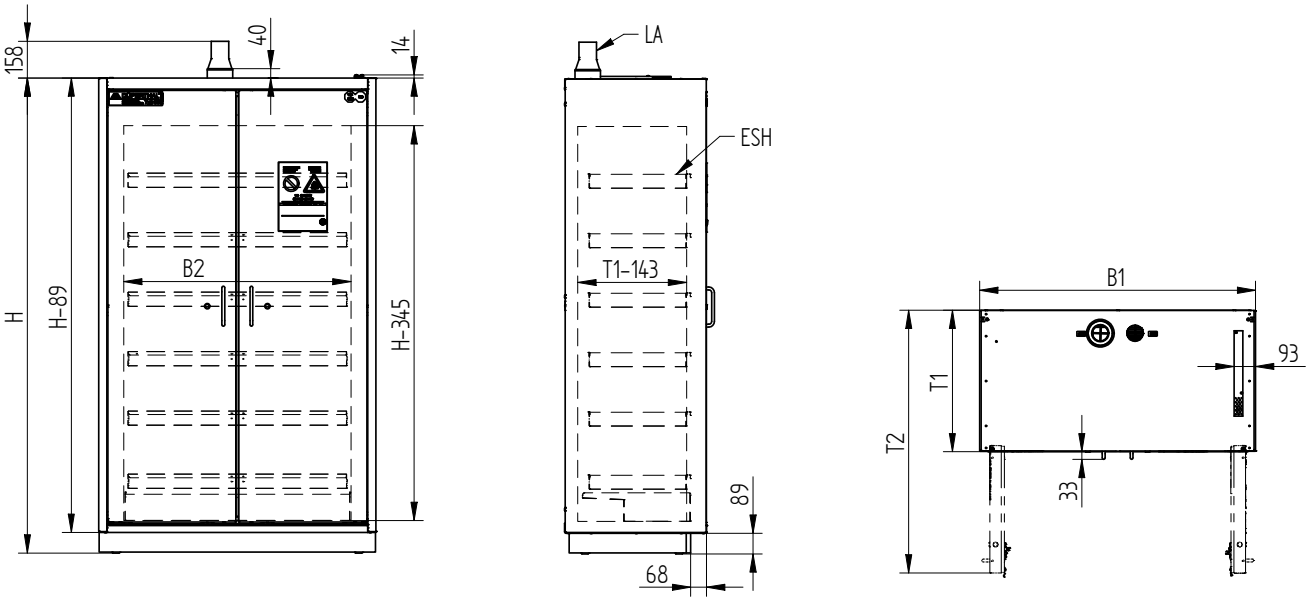
Model size		XS	L	LL	XL	XL (CP)
B	[mm] [inch]	1079 42.48	779 30.67	779 30.67	1079 42.48	2x 522 2x 20.55
LB	[mm] [inch]	974 38.35	674 26.54	674 26.54	974 38.35	2x 479 2x 18.86
T	[mm] [inch]	445 17.52	445 17.52	580 22.83	445 17.52	445 17.52
M	[kg] [lbs]	75 165.35	75 165.35	75 165.35	75 165.35	75 165.35
L	[l] [gal]	30 7.93	20 5.28	25 6.6	30 7.93	15 3.96
V	[l] [gal]	33 8.72	22 5.81	27,5 7.26	33 8.72	16,5 4.36
Tare weight	[kg] [lbs]	380 837.76	365 804.69	410 903.9	455 1003.1	465 1025.15
Max. additional load	[kg] [lbs]	240 529.11	360 793.66	360 793.66	360 793.66	360 793.66

B: Inner width of standing surface, in millimetres
LB: Clear width (doors), in millimetres
T: Inner depth of standing surface, in millimetres
M Load bearing capacity per storage shelf (uniformly distributed), in kilograms
L: Maximum volume of the largest individual container, in litres
V: Max. collection volume, in litres
CP: (with) centre partition wall

Tech specs CLASSIC pro – Type 90

Technical details - CLASSIC pro

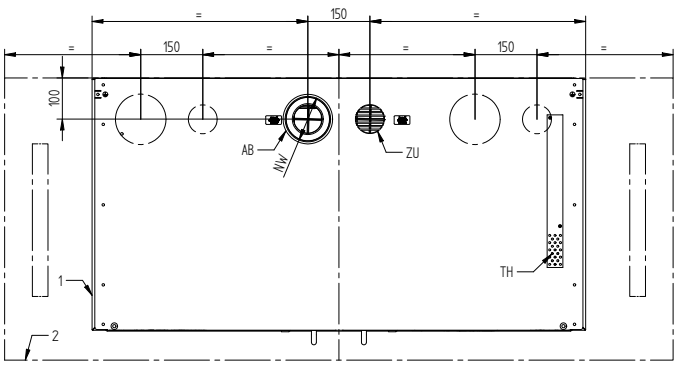
Front view | Side view | Top view



Model size		M	ML	L	LL	XL	XXL
H	[mm]	2045	2045	2045	2045	2045	2045
	[inch]	80.51	80.51	80.51	80.51	80.51	80.51
B1	[mm]	594	594	894	894	1194	1650
	[inch]	23.39	23.39	35.2	35.2	47	64.96
B2	[mm]	379	379	679	679	979	2x 627
	[inch]	14.92	14.92	23.73	23.73	38.54	2x 24.69
T1	[mm]	612	747	612	747	612	747
	[inch]	24.1	29.41	24.1	29.41	24.1	29.41
T2	[mm]	1100	1235	990	1125	1140	1483
	[inch]	43.31	48.62	38.98	44.29	44.88	56.61
Doors		1	1	2	2	2	2

LA: Connection socket NW 75 (2.95)
ESH: Adjustable heights and standing surface dimensions

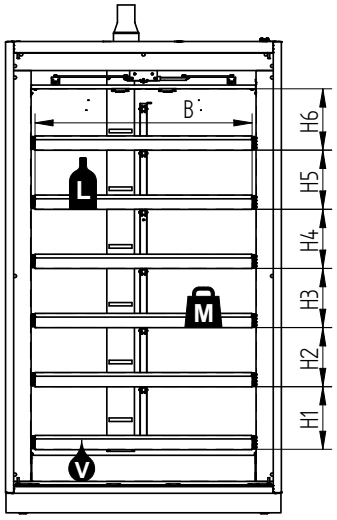
Top view - more details



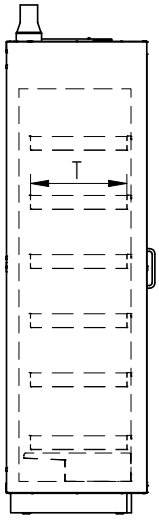
1: Cabinet size M-XL
2: Cabinet size XXL
NW: 110 (4.33) with adapter 75 (2.95)
AB: Exhaust air connection
ZU: Air supply
TH: Thermocouple

Dimensions | Adjustment heights - CLASSIC pro

Front view



Side view



Model size		M	ML	L	LL	XL	XL (CP)	XXL
B	[mm]	340	340	640	640	940	442	2x 588
	[inch]	13.39	13.39	25.2	25.2	37.01	17.4	2x 23.15
T	[mm]	417	552	417	552	417	417	552
	[inch]	16.42	21.73	16.42	21.73	16.42	16.42	21.73
M	[kg]	40	40	60	60	60	40	60
	[lbs]	88.18	88.18	132.28	132.28	132.28	88.18	132.28
L	[l]	10	15	20	25	30	10	25
	[gal]	2.64	3.96	5.28	6.6	7.93	2.64	6.6
V	[l]	11	16,5	22	27,5	33	11	27,5
	[gal]	2.91	4.36	5.81	7.26	8.72	2.91	7.26
Tare weight	[kg]	275	335	365	420	465	485	900
	[lbs]	606.27	738.55	804.69	925.94	1025.15	1069.24	1984.16
Max. additional load	[kg]	240	240	240	360	360	360	360
	[lbs]	529.11	529.11	529.11	793.66	793.66	793.66	793.66

B: Inner width of standing surface, in millimetres
T: Inner depth of standing surface, in millimetres
M Load bearing capacity per pull-out shelf (evenly distributed), in kilograms
L: Maximum volume of the largest individual container, in litres
V: Max. collection volume, in litres
CP: (with) centre partition wall

Max. container height [mm] [inch]

Model size		M | ML L | LL XL | XXL
3 pull-out shelves	**H1**	527 20.74
	H2	527 20.74
	H6	505 19.88
4 pull-out shelves	**H1**	399 15.71
	H2	399 15.71
	H3	383 15.08
	H6	377 14.84
5 pull-out shelves	**H1**	319 12.56
	H2	319 12.56
	H3	319 12.56
	H4	303 11.89
	H6	297 11.7
6 pull-out shelves	**H1**	271 10.67
	H2	255 10.04
	H3	255 10.04
	H4	255 10.04
	H5	255 10.04
	H6	265 10.43

PREMIUM line 1.2

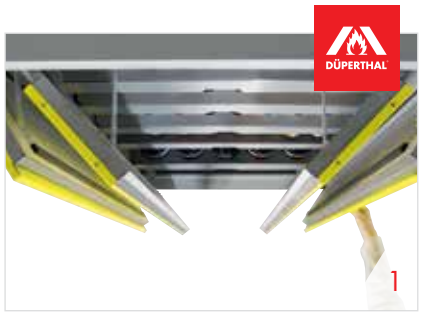
Safety storage cabinets
with folding door technology

Your added advantage with the PREMIUM line!

- **Health**
  Ventilation on each cabinet level provides optimised air exchange.
- **Safety**
  Space-saving folding doors for more free moving space, in case of fire with automatic closing of the doors.
- **Working safety**
  Equipotential bonding saddles as a standard on the cabinet help to prevent spark formation.

PREMIUM line in detail

Discover the space-saving solution for the storage of flammable liquids, the PREMIUM line by DÜPERTHAL, with 90 minutes of fire protection. Experience the versatility and the comfort offered by the PREMIUM line.



1 Easy-moving folding door technology
The easy-moving folding doors can be opened easily with a minimum amount of effort using a single handle and they are very space-saving. Thus they are appropriate for smaller or confined labs.

2 Storage shelves
Storage shelves offer the largest storage capacity and ideal use of space due to their height adjustment at a pitch of 16 mm (0.63 inch).

3 Pull-out shelves
Containers can be safely stored with both hands due to the easy-moving pull-out shelves.

4 Double pull-out stop (patented)
A double pull-out stop prevents several pull-out shelves from being pulled out at the same time.

5 Self-closing in case of fire
The closure control system guarantees that in case of fire the pull-out shelves are retracted and only then are the doors closed.

6 Vario shelves
The vario shelves are ideal for the storage of small containers and have height adjustment in the 64 mm pitch. When the doors are being opened, the containers swivel down ready to be grabbed.

PREMIUM line Type 90 at a glance

PREMIUM standard XL with storage shelves or storage shelves and centre partition wall

Dimensions [mm] [inch]	Width	Depth	Height
PREMIUM standard XL 1-2	1194 47	597 23.5	2077 81.77

PREMIUM standard XL - V1

PREMIUM standard XL – V2

Max. volume of largest individual container [l]/[gal]	30/7.93	15/3.96

PREMIUM standard M, ML with storage shelves

Dimensions [mm] [inch]	Width	Depth	Height
PREMIUM standard M	594 23.39	597 23.5	2077 81.77
PREMIUM standard ML	594 23.39	747 29.41	2077 81.77

PREMIUM standard M

PREMIUM standard ML

Max. volume of largest individual container [l]/[gal]	10/2.64	15/3.96

PREMIUM pro XL with pull-out shelves

Dimensions [mm] [inch]	Width	Depth	Height
PREMIUM pro XL 1-4	1194 47	597 23.5	2077 81.77

PREMIUM pro XL – V1

PREMIUM pro XL – V2

PREMIUM pro XL – V3

PREMIUM pro XL – V4

Max. volume of largest individual container [l]/[gal]	25/6.6	25/6.6	25/6.6	25/6.6

PREMIUM pro XL with pull-out shelves and centre partition wall

Dimensions [mm] [inch]	Width	Depth	Height
PREMIUM pro XL 5-8	1194 47	597 23.5	2077 81.77

PREMIUM pro XL – V5

PREMIUM pro XL – V6

PREMIUM pro XL – V7

PREMIUM pro XL – V8

Max. volume of largest individual container [l]/[gal]	10/2.64	10/2.64	10/2.64	10/2.64

PREMIUM pro ML with pull-out shelves

PREMIUM pro ML – V1

PREMIUM pro ML – V2

PREMIUM pro ML – V3

PREMIUM pro ML – V4

Dimensions [mm] [inch]	Width	Depth	Height
PREMIUM pro ML 1-4	594 23.39	747 29.41	2077 81.77

Max. volume of largest individual container [l]/[gal]	15/3.96	15/3.96	15/3.96	15/3.96

PREMIUM pro M with pull-out shelves

PREMIUM pro M – V1

PREMIUM pro M – V2

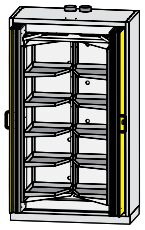
PREMIUM pro M – V3

PREMIUM pro M – V4

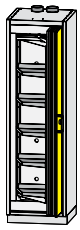
Dimensions [mm] [inch]	Width	Depth	Height
PREMIUM pro M 1-4	594 23.39	597 23.5	2077 81.77

Max. volume of largest individual container [l]/[gal]	10/2.64	10/2.64	10/2.64	10/2.64

PREMIUM vario XL and M with vario shelves



PREMIUM vario XL



PREMIUM vario M

Dimensions [mm] [inch]	Width	Depth	Height
PREMIUM vario XL	1195 47.04	595 23.43	2080 81.88
PREMIUM vario M	595 23.43	595 23.43	2080 81.88

Max. volume of largest individual container [l]/[gal]	4.3/1.14	4.3/1.14

PREMIUM standard – Type 90

Discover the space-saving solution for the storage of large quantities of flammable liquids, the PREMIUM standard by DÜPERTHAL, with 90 minutes of fire protection. Experience the versatility and the comfort offered by the PREMIUM standard.

PREMIUM standard XL - V1

PREMIUM standard XL - V2

PREMIUM standard M

PREMIUM vario – Type 90

The cabinets in the PREMIUM vario Type 90 version are especially suitable for the storage of flammable hazardous substances in smaller containers. In this model, when the easy-moving doors are opened, the containers swivel towards you ready to be grasped.

PREMIUM vario XL

PREMIUM vario M

PREMIUM pro – Type 90

The PREMIUM pro type cabinets are the comfortable solution for the storage of several types of container. This is because the easy-moving pull-out shelves with double pull-out stop guarantee a simple and safe access to the contents of the cabinet.

PREMIUM pro XL – V1

PREMIUM pro M – V1

PREMIUM pro M – V2

Interior fittings:

- Storage shelves, pull-out shelves, vario shelves and bottom trays, optionally made of powder-coated sheet steel or stainless steel.

Construction:

- Folding doors of powder-coated sheet steel, with cascade construction.
- The doors are generally right-hinged for one-door cabinets. A left-hung door can be delivered on request for no additional charge.
- Outer carcass, powder-coated sheet steel.
- Inner carcass made of high-quality decor panels.

Colour standard version:

- Wing doors in zinc yellow RAL 1018.
- Carcass completely in light grey RAL 7035.
- Individual colours possible.
- Base in slate grey RAL 7015.

Golden yellow **RAL 1004** | Light grey **RAL 7035** | Zinc yellow **RAL 1018** | Pure white **RAL 9010**

Ordering information

		PREMIUM standard XL - V1	PREMIUM standard XL - V2
		with storage shelves	with storage shelves and centre partition wall
Ref. no.			
with classical folding door technology		29-201262-030	29-201262-032
Details		4 storage shelves, 1 bottom tray and base	2x 4 storage shelves, 2 bottom trays, centre partition wall and base
Dimensions			
Outer (width x depth x height)	[mm] [inch]	1194 x 597 x 2077 47 x 23.5 x 81.77	1194 x 597 x 2077 47 x 23.5 x 81.77
Inner (width x depth x height)	[mm] [inch]	1098 x 468 x 1655 43.23 x 18.43 x 65.16	1098 x 468 x 1655 43.23 x 18.43 x 65.16
Weight	[kg] [lbs]	496 1093.5	505 1113.33
Storage capacity/standing surface (approx. data)			
Size	[400 ml/11 oz] [1.0 l/0.26 gal] [1.0 l/0.26 gal] [2.5 l/0.66 gal]	105 spray cans 38 cans 45 glass lab bottles 19 glass lab bottles	52 spray cans 19 cans 22 glass lab bottles 9 glass lab bottles
Ref. no.			
Additional interior fittings	**Material**		
Interior fittings	Stainless steel	on request	on request
Storage shelf	Sheet steel	29-51267-013	29-51267-015
Storage shelf	Stainless steel	on request	on request
Insert for storage shelf	PP	29-51267-323	29-51267-325
Anti-slip mat	Rubber	29-51267-533	29-51267-535
Locker (door hung left)		on request	on request
Locker (door hung right)		on request	on request

Other accessories on page 83. Other technical details and dimensions from page 84 onwards.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

	PREMIUM standard ML	PREMIUM standard M
	with storage shelves Special depth 750 mm/29.53 inch	with storage shelves
	29-200672-030	29-200662-030
	4 storage shelves, 1 bottom tray and base	4 storage shelves, 1 bottom tray and base
	594 x 747 x 2077 23.39 x 29.41 x 81.77	594 x 597 x 2077 23.39 x 23.5 x 81.77
	498 x 618 x 1655 19.6 x 24.33 x 65.12	498 x 468 x 1655 19.6 x 18.43 x 65.12
	357 787.1	297 654.77
	64 spray cans 23 cans 27 glass lab bottles 11 glass lab bottles	46 spray cans 16 cans 20 glass lab bottles 8 glass lab bottles
	on request	on request
	29-50677-013	29-50667-013
	on request	on request
	29-50677-323	29-50667-323
	29-50677-533	29-50667-533
	on request	on request
	on request	on request

Ordering information

		PREMIUM pro XL – V1	PREMIUM pro XL – V2
		with pull-out shelves	with pull-out shelves
Ref. no.			
with classical folding door technology		29-201262-053	29-201262-052
Details		6 pull-out shelves, 1 bottom tray and base	5 pull-out shelves, 1 bottom tray and base
Dimensions			
Outer (width x depth x height)	[mm] [inch]	1194 x 597 x 2077 47 x 23.5 x 81.77	1194 x 597 x 2077 47 x 23.5 x 81.77
Inner (width x depth x height)	[mm] [inch]	1098 x 468 x 1655 43.23 x 18.43 x 65.16	1098 x 468 x 1655 43.23 x 18.43 x 65.16
Weight	[kg] [lbs]	528 1164.04	528 1164.04
Storage capacity/standing surface (approx. data)			
Size	[400 ml/11 oz] [1.0 l/0.26 gal] [1.0 l/0.26 gal] [2.5 l/0.66 gal]	77 spray cans 29 cans 35 glass lab bottles 14 glass lab bottles	77 spray cans 29 cans 35 glass lab bottles 14 glass lab bottles

Ref. no. **Additional interior fittings**	**Material**		
Interior fittings	Stainless steel	on request	on request
Tray insert	PP	29-51262-327	29-51262-327
Label holder		29-50000-001	29-50000-001
Anti-slip mat for pull-out shelf	Rubber	29-51262-537	29-51262-537
Locker (door hung left)		on request	on request
Locker (door hung right)		on request	on request

Other accessories on page 83. Other technical details and dimensions from page 84 onwards.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

	PREMIUM pro XL – V3	PREMIUM pro XL – V4
	With pull-out shelves	with pull-out shelves
	29-201262-051	29-201262-050
	4 pull-out shelves, 1 bottom tray and base	3 pull-out shelves, 1 bottom tray and base
	1194 x 597 x 2077 47 x 23.5 x 81.77	1194 x 597 x 2077 47 x 23.5 x 81.77
	1098 x 468 x 1655 43.23 x 18.43 x 65.16	1098 x 468 x 1655 43.23 x 18.43 x 65.16
	528 1164.04	528 1164.04
	77 spray cans 29 cans 35 glass lab bottles 14 glass lab bottles	77 spray cans 29 cans 35 glass lab bottles 14 glass lab bottles
	on request	on request
	29-51262-327	29-51262-327
	29-50000-001	29-50000-001
	29-51262-537	29-51262-537
	on request	on request
	on request	on request

Ordering information

		PREMIUM pro XL – V5	PREMIUM pro XL – V6
		with pull-out shelves and centre partition wall	with pull-out shelves and centre partition wall
Ref. no.			
with classical folding door technology		29-201262-059	29-201262-058
Details		2x 6 pull-out shelves, 2 bottom trays, centre partition wall and base	2x 5 pull-out shelves, 2 bottom trays, centre partition wall and base
Dimensions			
Outer (width x depth x height)	[mm] [inch]	1194 x 597 x 2077 47 x 23.5 x 81.77	1194 x 597 x 2077 47 x 23.5 x 81.77
Inner (width x depth x height)	[mm] [inch]	1098 x 468 x 1655 43.23 x 18.43 x 65.16	1098 x 468 x 1655 43.23 x 18.43 x 65.16
Weight	[kg] [lbs]	600 1322.77	600 1322.77
Storage capacity/standing surface (approx. data)			
Size	[400 ml/11 oz] [1.0 l/0.26 gal] [1.0 l/0.26 gal] [2.5 l/0.66 gal]	37 spray cans 13 cans 16 glass lab bottles 6 glass lab bottles	37 spray cans 13 cans 16 glass lab bottles 6 glass lab bottles

Ref. no. **Additional interior fittings**	**Material**		
Interior fittings	Stainless steel	on request	on request
Tray insert	PP	29-51262-329	29-51262-329
Label holder		29-50000-001	29-50000-001
Anti-slip mat for pull-out shelf	Rubber	29-51262-539	29-51262-539
Locker (door hung left)		on request	on request
Locker (door hung right)		on request	on request

Other accessories on page 83. Other technical details and dimensions from page 84 onwards.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

PREMIUM pro XL – V7	PREMIUM pro XL – V8
with pull-out shelves and centre partition wall	with pull-out shelves and centre partition wall
29-201262-057	29-201262-056
2x 4 pull-out shelves, 2 bottom trays, centre partition wall and base	2x 3 pull-out shelves, 2 bottom trays, centre partition wall and base
1194 x 597 x 2077 47 x 23.5 x 81.77	1194 x 597 x 2077 47 x 23.5 x 81.77
1098 x 468 x 1655 43.23 x 18.43 x 65.16	1098 x 468 x 1655 43.23 x 18.43 x 65.16
600 1322.77	600 1322.77
37 spray cans 13 cans 16 glass lab bottles 6 glass lab bottles	37 spray cans 13 cans 16 glass lab bottles 6 glass lab bottles
on request	on request
29-51262-329	29-51262-329
29-50000-001	29-50000-001
29-51262-539	29-51262-539
on request	on request
on request	on request

Ordering information

		PREMIUM pro ML – V1	PREMIUM pro ML – V2	PREMIUM pro ML – V3
		with pull-out shelves special depth 747 mm/29.41 inch	with pull-out shelves special depth 747 mm/29.41 inch	with pull-out shelves special depth 747 mm/29.41 inch
Ref. no.				
with classical folding door technology		29-200672-053	29-200672-052	29-200672-051
Details		6 pull-out shelves, 1 bottom tray and base	5 pull-out shelves, 1 bottom tray and base	4 pull-out shelves, 1 bottom tray and base
Dimensions				
Outer (width x depth x height)	[mm]	594 x 747 x 2077	594 x 747 x 2077	594 x 747 x 2077
	[inch]	23.39 x 29.41 x 81.77	23.39 x 29.41 x 81.77	23.39 x 29.41 x 81.77
Inner (width x depth x height)	[mm]	498 x 618 x 1655	498 x 618 x 1655	498 x 618 x 1655
	[inch]	19.6 x 24.33 x 65.16	19.6 x 24.33 x 65.16	19.6 x 24.33 x 65.16
Weight	[kg]	389	389	389
	[lbs]	857.6	857.6	857.6
Storage capacity/standing surface (approx. data)				
Size	[400 ml/11 oz]	50 spray cans	50 spray cans	50 spray cans
	[1.0 l/0.26 gal]	15 cans	15 cans	15 cans
	[1.0 l/0.26 gal]	19 glass lab bottles	19 glass lab bottles	19 glass lab bottles
	[2.5 l/0.66 gal]	7 glass lab bottles	7 glass lab bottles	7 glass lab bottles
Ref. no.				
Additional interior fittings	**Material**			
Interior fittings	Stainless steel	on request	on request	on request
Tray insert	PP	29-50672-327	29-50672-327	29-50672-327
Label holder		29-50000-001	29-50000-001	29-50000-001
Anti-slip mat for pull-out shelf	Rubber	29-50672-537	29-50672-537	29-50672-537
Locker (door hung left)		on request	on request	on request
Locker (door hung right)		on request	on request	on request

Other accessories on page 83. Other technical details and dimensions from page 84 onwards.

Tested safety at a very high level including:

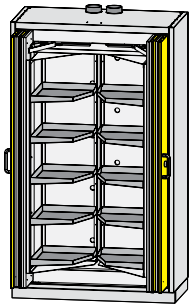
DIN EN 14470-1
DIN EN 14727

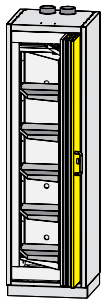
PREMIUM pro ML – V4	PREMIUM pro M – V1	PREMIUM pro M – V2	PREMIUM pro M – V3	PREMIUM pro M – V4
with pull-out shelves special depth 747 mm/29.41 inch	with pull-out shelves	with pull-out shelves	with pull-out shelves	with pull-out shelves
29-200672-050	29-200662-053	29-200662-052	29-200662-051	29-200662-050
3 pull-out shelves, 1 bottom tray and base	6 pull-out shelves, 1 bottom tray and base	5 pull-out shelves, 1 bottom tray and base	4 pull-out shelves, 1 bottom tray and base	3 pull-out shelves, 1 bottom tray and base
594 x 747 x 2077 23.39 x 29.41 x 81.77	594 x 597 x 2077 23.39 x 29.41 x 81.77	594 x 597 x 2077 23.39 x 29.41 x 81.77	594 x 597 x 2077 23.39 x 29.41 x 81.77	594 x 597 x 2077 23.39 x 29.41 x 81.77
498 x 618 x 1655 19.6 x 24.33 x 65.16	498 x 468 x 1655 19.6 x 24.33 x 65.16	498 x 468 x 1655 19.6 x 24.33 x 65.16	498 x 468 x 1655 19.6 x 24.33 x 65.16	498 x 468 x 1655 19.6 x 24.33 x 65.16
389 857.6	329 725.32	329 725.32	329 725.32	329 725.32
37 spray cans 13 cans 16 glass lab bottles 6 glass lab bottles	46 spray cans 16 cans 20 glass lab bottles 8 glass lab bottles	46 spray cans 16 cans 20 glass lab bottles 8 glass lab bottles	46 spray cans 16 cans 20 glass lab bottles 8 glass lab bottles	46 spray cans 16 cans 20 glass lab bottles 8 glass lab bottles
on request	on request	on request	on request	on request
29-50672-327	29-50672-327	29-50672-327	29-50672-327	29-50672-327
29-50000-001	29-50000-001	29-50000-001	29-50000-001	29-50000-001
29-50672-537	29-50672-537	29-50672-537	29-50672-537	29-50672-537
on request	on request	on request	on request	on request
on request	on request	on request	on request	on request

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

Ordering information





	PREMIUM vario XL	PREMIUM vario M
	with vario shelves	with vario shelves
Ref. no.		
with classical folding door technology	29-201262-051V	29-200662-051V
Details	2x 5 vario shelves and base	5 vario shelves and base
Dimensions		
Outer (width x depth x height) [mm]	1195 x 595 x 2080	595 x 595 x 2080
Outer (width x depth x height) [inch]	47.05 x 23.43 x 81.89	23.43 x 23.43 x 81.89
Inner (width x depth x height) [mm]	1099 x 446 x 1830	499 x 446 x 1830
Inner (width x depth x height) [inch]	43.27 x 17.56 x 72.05	19.65 x 17.56 x 72.05
Weight [kg]	475	290
Weight [lbs]	1047.2	639.34
Storage capacity/standing surface (approx. data)		
Size [400 ml/11 oz]	36 spray cans	36 spray cans
[1.0 l/0.26 gal]	12 cans	12 cans
[1.0 l/0.26 gal]	16 glass lab bottles	16 glass lab bottles
[2.5 l/0.66 gal]	6 glass lab bottles	6 glass lab bottles
Ref. no.		
Additional interior fittings **Material**		
Interior fittings Stainless steel	on request	on request
Anti-slip mat for vario shelf Rubber	29-81266-550	29-81266-550

Other accessories on page 83. Other technical details and dimensions from page 84 onwards.

Accessories - varied and flexible

Adapt the cabinets of the PREMIUM line to your requirements even better with the large variety of accessories offered. To make your workplace more efficient and safer.

Exhaust air systems
Monitoring exhaust air systems help prevent explosion risks in work areas, see programme section 7.

Earthing cables
Through the equipotential bonding saddles on the cabinet as a standard and an additional earthing cable with crocodile clip in the interior, conductive containers can be directly connected to the earthing cable as per TRGS 727.

Anti-slip mat
Anti-slip mats can prevent containers from inadvertently slipping. So everything stays where it belongs (see additional interior fittings).

Labelling system
When the doors are opened, the label holder folds forward for easier reading. Up to seven holders can be attached and the scannable labels can be easily changed.

Transport trolley
with antistatic rollers to safely transport hazardous substances.

Locker
bolted directly in the safety storage cabinet as additionally protected access control (see additional interior fittings).

Absorber cloths
Absorber cloths are specially designed for use with chemicals and are thus ideal for picking up spilled hazardous substances.

Pipe penetration
Safety storage cabinets can be adapted to your requirements by incorporating additional penetrations for pipes, hoses and cables.

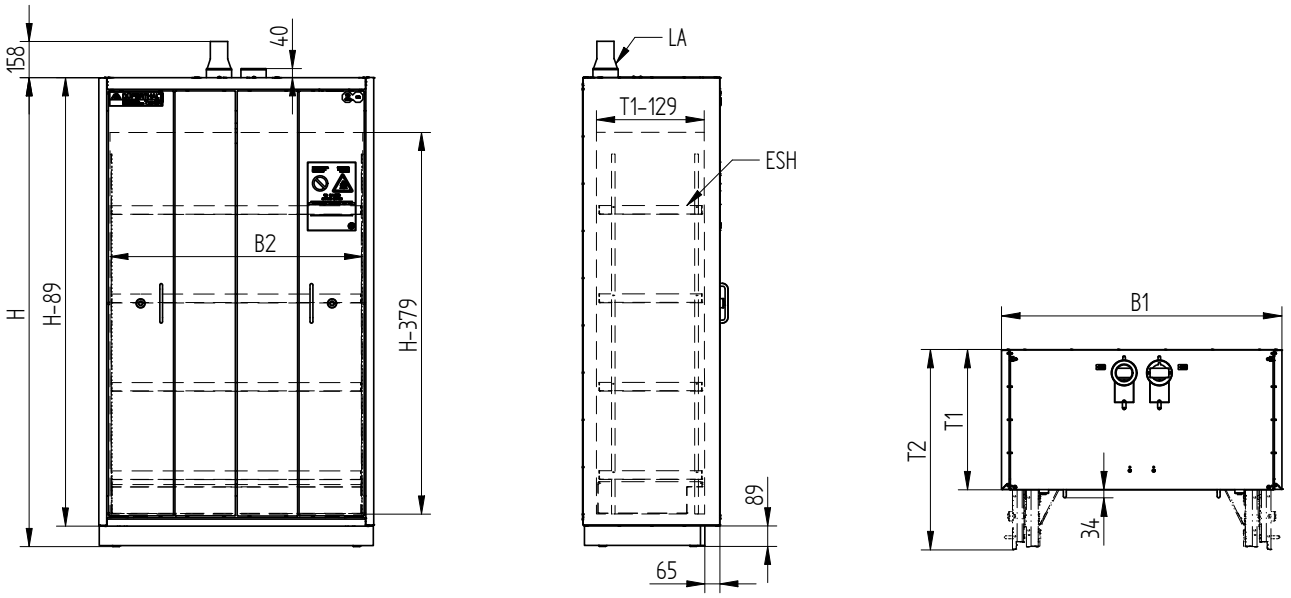
Accessories	Ref. no.
Pipe penetration (reclosable)	on request
Pipe penetration	29-70000-048
Red-Box	2.233.04

Optional extras	
Transport trolley for flammable media	7.02.100
Earthing cable with crocodile clip	1.806.63
Exhaust air system or ventilator	see programme section 7 or at www.dueperthal.com
Safety container	see programme section 8 or at www.dueperthal.com
Absorber	see programme section 10 or at www.dueperthal.com

Tech specs PREMIUM standard – Type 90

Technical details - **PREMIUM standard**

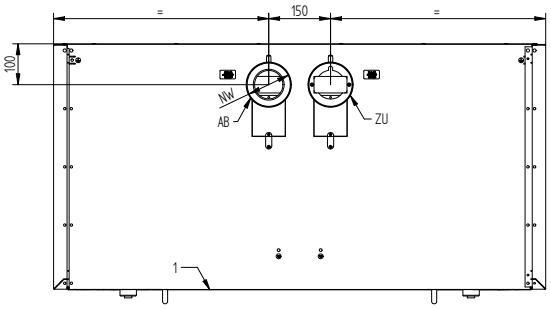
Front view | Side view | Top view



Model size		M	ML	XL
H	[mm] [inch]	2037 80.2	2037 80.2	2037 80.2
B1	[mm] [inch]	594 23.39	594 23.39	1194 47
B2	[mm] [inch]	498 19.6	498 19.6	1098 43.23
T1	[mm] [inch]	597 23.5	747 29.41	597 23.5
T2	[mm] [inch]	854 33.62	1004 39.53	854 33.62
Doors		1	1	2

LA: Connection socket NW 75 (2.95) ESH: Adjustable heights and standing surface dimensions

Top view - more details



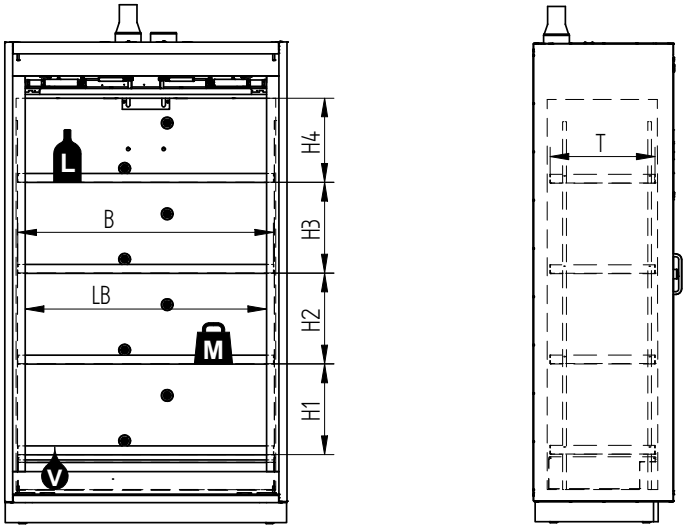
1: Cabinet size M-XL
NW: 110 (4.33) with adapter 75 (2.95)
AB: Exhaust air connection
ZU: Air supply

Tech specs PREMIUM standard – Type 90

DÜPERTHAL

Technical details - PREMIUM standard

Front view | Side view



Max. container height [mm] [inch]

Model size		M | ML | XL
2 storage shelves	**H1**	766 30.16
	H4	739 29.09
3 storage shelves	**H1**	510 20.08
	H2	510 20.08
	H4	483 19.02
4 storage shelves	**H1**	382 15.04
	H2	382 15.04
	H3	382 15.04
	H4	355 13.98

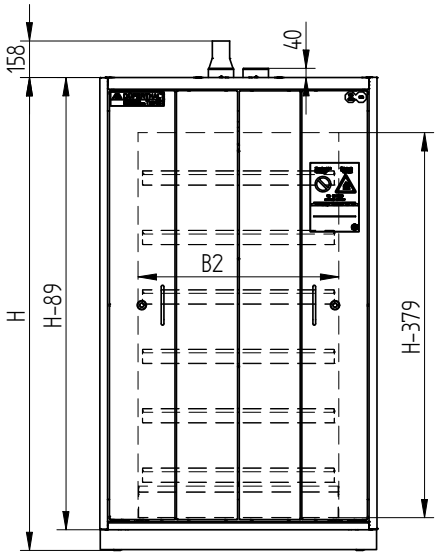
Model size		M	ML	XL	XL (CP)
B	[mm] [inch]	481 18.94	481 18.94	1081 42.56	2x 522 2x 20.55
LB	[mm] [inch]	420 16.54	420 16.54	1020 40.16	2x 502 2x 19.76
T	[mm] [inch]	445 17.52	580 22.83	445 17.52	445 17.52
M	[kg] [lbs]	75 165.35	75 165.35	75 165.35	75 165.35
L	[l] [gal]	10 2.64	15 3.96	30 7.9	15 3.96
V	[l] [gal]	11 2.91	16,5 4.36	33 8.72	16,5 4.36
Tare weight	[kg] [lbs]	297 654.77	357 787.1	496 1093.5	505 1113.33
Max. additional load	[kg] [lbs]	360 793.66	360 165.35	360 165.35	360 165.35

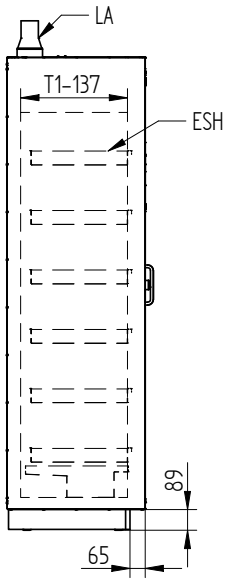
B: Inner width of standing surface, in millimetres
LB: Clear width (doors), in millimetres
T: Inner depth of standing surface, in millimetres
M Load bearing capacity per storage shelf (uniformly distributed), in kilograms
L: Maximum volume of the largest individual container, in litres
V: Max. collection volume, in litres
CP: (with) centre partition wall

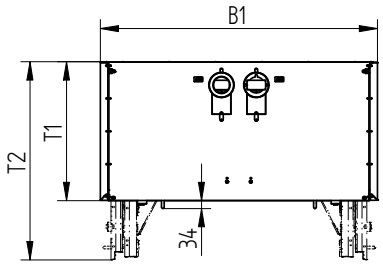
Tech specs PREMIUM pro – Type 90

Technical details - PREMIUM pro

Front view | Side view | Top view



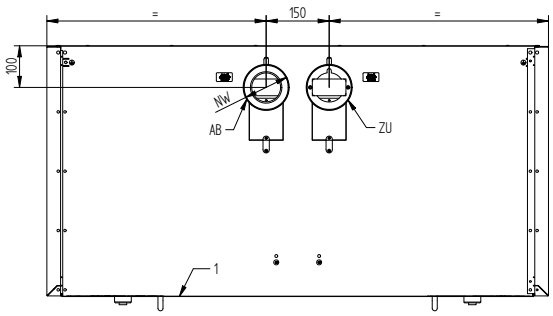




Model size		M	ML	XL
H	[mm] [inch]	2037 80.2	2037 80.2	2037 80.2
B1	[mm] [inch]	594 23.39	594 23.39	1194 47
B2	[mm] [inch]	344 13.54	344 13.54	864 34.02
T1	[mm] [inch]	597 23.5	747 29.41	597 23.5
T2	[mm] [inch]	854 33.62	1004 39.53	854 33.62
Doors		1	1	2

LA: Connection socket NW 75 (2.95)
ESH: Adjustable heights and standing surface dimensions

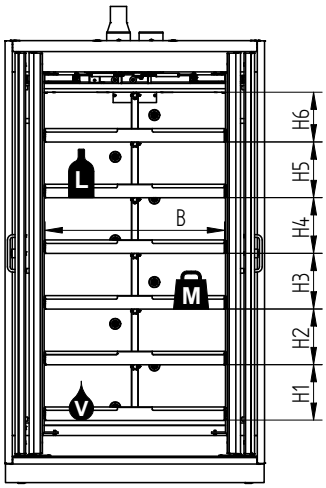
Top view - more details



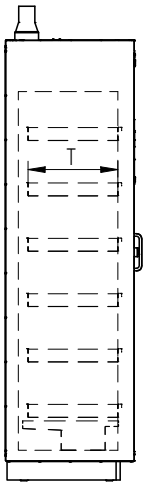
1: Cabinet size M-XL
NW: 110 (4.33) with adapter 75 (2.95)
AB: Exhaust air connection
ZU: Air supply

Technical details - PREMIUM pro

Front view



Side view



Model size		M	ML	XL	XL (MTW)
B	[mm] [inch]	305 12.01	305 12.01	825 32.48	2x 385 2x 15.16
T	[mm] [inch]	415 16.34	565 22.24	415 16.34	2x 415 2x 16.34
M	[kg] [lbs]	40 88.18	40 88.18	60 132.28	40 88.18
L	[l] [gal]	10 2.64	15 3.96	25 6.6	10 2.64
V	[l] [gal]	11 2.91	17,5 4.62	28 7.4	13,5 3.57
Tare weight	[kg] [lbs]	329 725.32	389 857.6	528 1164.04	600 1322.77
Max. additional load	[kg] [lbs]	240 529.12	240 529.12	360 793.66	360 793.66

B: Inner width of standing surface, in millimetres
LB: Clear width (doors), in millimetres
T: Inner depth of standing surface, in millimetres
M Load bearing capacity per storage shelf (uniformly distributed), in kilograms
L: Maximum volume of the largest individual container, in litres
V: Max. collection volume, in litres
CP: (with) centre partition wall

Max. container height [mm]
[inch]

Model size		M | ML | XL
3 pull-out shelves	**H1**	511 20.12
	H2	511 20.12
	H6	484 19.06
4 pull-out shelves	**H1**	383 15.08
	H2	383 15.08
	H3	383 15.08
	H6	356 14.02
5 pull-out shelves	**H1**	303 11.93
	H2	303 11.93
	H3	303 11.93
	H4	303 11.93
	H6	292 11.5
6 pull-out shelves	**H1**	255 10.04
	H2	255 10.04
	H3	255 10.04
	H4	255 10.04
	H5	255 10.04
	H6	228 8.98

COMFORT line 1.3

Safety storage cabinets
with pneumatically controlled folding doors

Your added advantage with the COMFORT line!

- **Health**
  Ventilation on each cabinet level provides optimised air exchange.
- **Safety**
  Space-saving folding doors for more free moving space, in case of fire with automatic closing of the doors.
- **Working safety**
  Ergonomic working with pneumatic door control and removal of containers with both hands.

COMFORT line in detail

A maximum of ergonomics and comfort is offered by the COMFORT line from DÜPERTHAL with 90-minute fire protection and pneumatic foot control.

1 Pneumatically controlled folding doors
Pneumatic door control easily activated by foot pedal. The space-saving folding doors open automatically.

2 Easy-moving folding door technology
In case of failure of compressed air, comfortable opening of the folding doors with minimum effort via a single handle.

3 Vario shelves
The vario shelves are ideal for the storage of small containers and have height adjustment in the 64 mm (2.52 inch) pitch. When the doors are being opened, the canisters swivel ergonomically ready to be grabbed.

4 Storage shelves
Storage shelves offer the largest storage capacity and ideal use of space due to their height adjustment at a pitch of 16 mm (0.63 inch).

5 Automatic closing system
When the foot pedal is released, or if activated by a thermocouple in case of fire, the doors close automatically within 20 seconds.

6 Ventilation
Ventilation on every cabinet level and optical control option of the venting cut-off flaps.

COMFORT standard – Type 90

A maximum of ergonomics and comfort is offered by the COMFORT line from DÜPERTHAL with 90-minute fire protection and pneumatic foot control. The storage shelves offer the largest storage capacity and ideal use of space with their height adjustment in the 16 mm (0.63 inch) pitch.

COMFORT standard XL

COMFORT standard M

COMFORT vario – Type 90

The COMFORT vario type cabinets are the comfortable solution for the storage of several types of container. The vario shelves swivel when the doors are opened and you can put containers in or take them out with both hands even faster.

COMFORT vario XL

COMFORT vario M

Interior fittings:

- Storage shelves, vario shelves and bottom trays, optionally made of powder-coated sheet steel or stainless steel.

Construction:

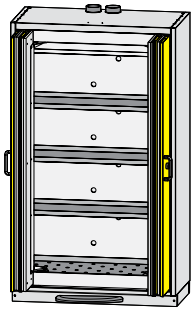
- Folding doors made of powder-coated sheet steel, in cascade structure.
- The doors are generally right-hinged for one-door cabinets. A left-hung door can be delivered on request for no additional charge.
- Outer carcass, powder-coated sheet steel.
- Inner carcass made of high-quality decor panels.

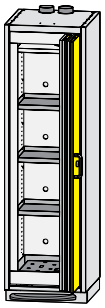
Colour standard version:

- Wing doors in zinc yellow RAL 1018.
- Carcass completely in light grey RAL 7035.
- Individual colours possible.
- Base in slate grey RAL 7015.

Golden yellow **RAL 1004** | Light grey **RAL 7035** | Zinc yellow **RAL 1018** | Pure white **RAL 9010**

Ordering information



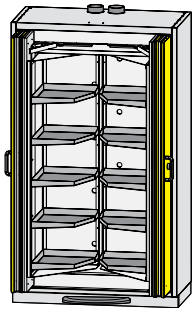


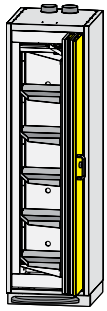
		COMFORT standard XL	COMFORT standard M
		with storage shelves	with storage shelves
Ref. no.			
with classical folding door technology		29-201266-021	29-200666-021
Details		4 storage shelves, 1 bottom tray, pedal and base	4 storage shelves, 1 bottom tray, pedal and base
Dimensions			
Outer (width x depth x height)	[mm] [inch]	1195 x 595 x 2080 47.05 x 23.43 x 81.89	595 x 595 x 2080 23.43 x 23.43 x 81.89
Inner (width x depth x height)	[mm] [inch]	1099 x 446 x 1830 43.27 x 17.56 x 72.05	499 x 446 x 1830 17.68 x 17.56 x 72.05
Weight	[kg] [lbs]	475 1047.2	290 639.34
Storage capacity/standing surface (approx. data)			
Size	[400 ml/11 oz] [1.0 l/0.26 gal] [1.0 l/0.26 gal] [2.5 l/0.66 gal]	105 spray cans 38 cans 45 glass lab bottles 19 glass lab bottles	46 spray cans 16 cans 20 glass lab bottles 8 glass lab bottles
Ref. no.			
Additional interior fittings	**Material**		
Interior fittings	Stainless steel	on request	on request
Storage shelf	Sheet steel	29-81260-114	29-80660-114
Storage shelf	Stainless steel	on request	on request
Insert for storage shelf	PP	29-81260-314	29-80660-314
Anti-slip mat	Rubber	29-81260-514	29-80660-514
Locker (door hung left)		on request	on request
Locker (door hung right)		on request	on request

Other accessories on page 96. Other technical details and dimensions from page 97 onwards.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727





	COMFORT vario XL	COMFORT vario M
	with vario shelves	with vario shelves
	29-201266-051V	29-200666-051V
	2x 5 vario shelves, pedal and base	5 vario shelves, pedal and base
	1195 x 595 x 2080 47.05 x 23.43 x 81.89	595 x 595 x 2080 23.43 x 23.43 x 81.89
	1099 x 446 x 1830 43.27 x 17.56 x 72.05	499 x 446 x 1830 17.68 x 17.56 x 72.05
	475 1047.2	350 771.62
	36 spray cans 12 cans 16 glass lab bottles 6 glass lab bottles	36 spray cans 12 cans 16 glass lab bottles 6 glass lab bottles
	on request	on request
	–	–
	on request	on request
	–	–
	29-81266-550	29-81266-550
	–	–
	–	–

Accessories - varied and flexible

Adjust your DÜPERTHAL safety storage cabinet to meet your requirements even better with a variety of accessories. To make your workplace more efficient and safer.

Exhaust air systems
Monitoring exhaust air systems help prevent explosion risks in work areas, see programme section 7.

Red-Box
for safely storing documents exactly where they are needed.

Absorber cloths
Absorber cloths are specially designed for use with chemicals and are thus ideal for picking up spilled hazardous substances.

Pipe penetration
Safety storage cabinets can be adapted to your requirements by incorporating additional penetrations for pipes, hoses and cables.

Accessories:	**Ref. no.:**
Pipe penetration (reclosable)	on request
Pipe penetration	29-70000-048
Red-Box	2.233.04
Optional extras:	
Transport trolley for flammable media	7.02.100
Earthing cable with crocodile clip	1.806.63
Exhaust air system or ventilator	see programme section 7 or at www.dueperthal.com
Safety container	see programme section 8 or at www.dueperthal.com
Absorber	see programme section 10 or at www.dueperthal.com

Technical details - COMFORT line

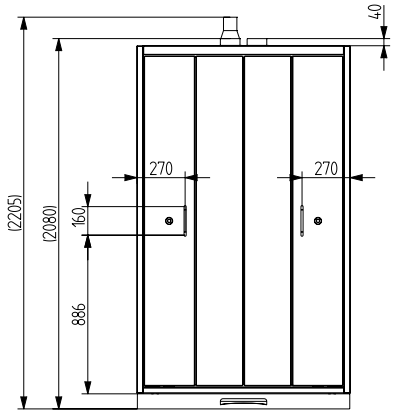
Model size		XL standard	M standard	XL vario	M vario
Load bearing capacity with uniformly distributed load (maximum load capacity/shelf)	[kg] [lbs]	75 165.35	75 165.35	22 48.5	22 48.5
Maximum volume of the largest individual container that may be placed on the respective standing surface of the cabinet	[l] [gal]	46 12.15	12 3.17	4,3 1.14	4,3 1.14
Collection volume bottom tray/vario shelves	[l] [gal]	51 13.47	14 3.7	4,75 1.25	4,75 1.25
Volumetric flow rate with 10-fold air exchange	approx. [m³/h] approx. [cubic ft/h]	10 353.1	4 141.24	10 353.1	4,5 158.9
Pressure drop in the cabinet	[Pa] [Psi]	<1 <1	<1 <1	<1 <1	<1 <1
Operating pressure	[Bar] [Psi]	6,5 94.25	6,5 94.25	6,5 94.25	6,5 94.25

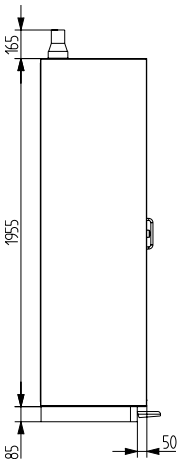
Dimensions – interior fittings [mm] - COMFORT line
[inch]

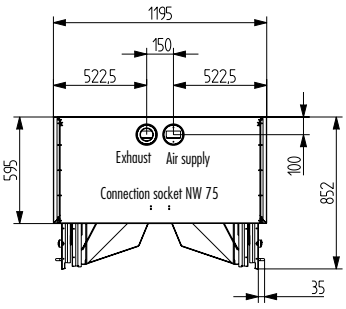
Model size	XL			M		
	Width	Depth	Height	Width	Depth	Height
Vario shelf	352 13.86	420 16.54	50 1.97	352 13.86	420 16.54	50 1.97
Storage shelf	1090 42.91	430 16.93	35 1.38	490 19.3	430 16.93	35 1.38
Bottom tray	1085 42.72	440 17.32	126 4.96	485 19.1	440 17.32	65 2.56
Perforated sheet insert	1067 42.01	422 16.61	126 4.96	432 17.01	422 16.61	80 3.15

Front view	Side view	Top view

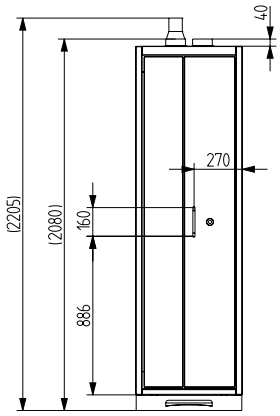
COMFORT XL

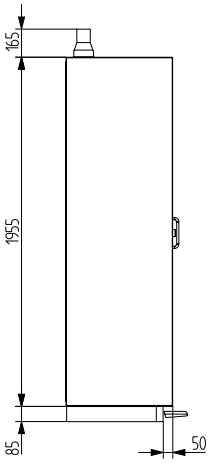


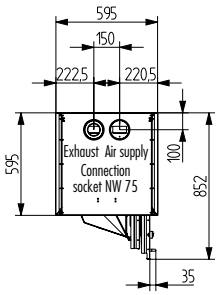




COMFORT M







COMPACT line 1.4

Safety storage cabinets
for passive storage of drums

Your added advantage with the COMPACT line!

- **Health**
  Ventilation on each cabinet level provides optimised air exchange.
- **Safety**
  In case of fire, a thermocouple automatically initiates the uninterrupted closing of the doors.
- **Working safety**
  Equipotential bonding saddles as a standard on the cabinet help to prevent spark formation.

COMPACT line in detail

Drums can also be stored with safety and comfort near the work site. The COMPACT line by DÜPERTHAL, with 90 minutes of fire protection, allows short paths and efficient work even for the storage of large containers.

1 Classical wing door technology
Easy-moving wing door technology is the correct solution for a multitude of possible applications.

2 Simple to load and unload
General concept for easy and ergonomic loading and unloading with an optional drum lifter and heavy load drawer.

3 Arrest system
The heavy load drawer is fitted with safety locking to prevent the uncontrolled activation of the heavy load drawer.

4 Base bezel
Base bezel easy to remove in all COMPACT XXL models. After the removal of the base with the drum lifter 1.31.045* roll-under.

5 Ventilation
Ventilation on every cabinet level and optical control option of the venting cut-off flaps.

6 Self-closing in case of fire
Maximum safety with the automatic closing of the doors in case of fire.

COMPACT line – Type 90

Discover the space-saving solution for the storage of large quantities of hazardous goods, the COMPACT line by DÜPERTHAL, with 90 minutes of fire protection. Experience the versatility and the comfort offered by the COMPACT line.

COMPACT LL - V1

COMPACT LL - V2

COMPACT XXL - V3

Interior fittings:

- Bottom tray optionally made of powder-coated sheet steel with galvanised grating or made of stainless steel, including grating.
- Optional heavy load drawer with safety locking for 200 litre (52.83 gal) drums in light grey RAL 7035.

Construction:

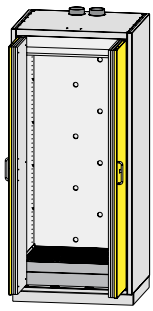
- Wing doors, powder-coated sheet steel.
- Outer carcass, powder-coated sheet steel.
- Inner carcass made of high-quality decor panels.

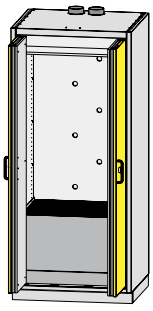
Colour standard version:

- Wing doors in zinc yellow RAL 1018.
- Carcass completely in light grey RAL 7035.
- Base in slate grey RAL 7015.
- Individual colours possible.

Golden yellow **RAL 1004** | Light grey **RAL 7035** | Zinc yellow **RAL 1018** | Pure white **RAL 9010**

Ordering information



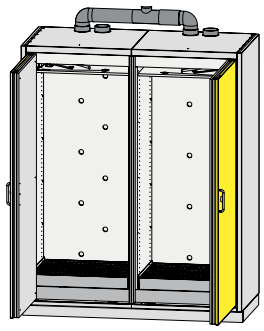


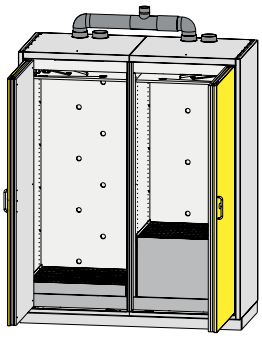
		COMPACT LL – V1	COMPACT LL - V2
		for max. 60 litre (15.85 gal) drum/container	for max. 200 litre (52.83 gal) drum/container
Ref. no.			
with classical wing door technology		29-200977-011	29-200977-031
Details		1 bottom tray for 60 litre drum with grating and base	1 bottom tray for 200 litre drum with grating and base
Dimensions			
Outer (width x depth x height)	[mm]	895 x 745 x 2080	895 x 745 x 2080
	[inch]	35.23 x 29.33 x 81.89	35.23 x 29.33 x 81.89
Inner (width x depth x height)	[mm]	799 x 595 x 1535	799 x 595 x 1200
	[inch]	31.46 x 23.43 x 60.43	31.46 x 23.43 x 47.24
Weight	[kg]	442	442
	[lbs]	974.44	974.44
Storage capacity/standing surface (approx. data)			
Size	[50/60 l] [13.21/15.85 gal]	2 drums	2 drums
	[200 l] [52.83 gal]	–	1 drum
Ref. no.			
Additional interior fittings	**Material**		
Interior fittings	Sheet steel	on request	on request
Storage shelf	Sheet steel	29-50977-013	–
Storage shelf	Stainless steel	29-50977-213	–
Drum lifter for 60/200 l (15.85/52.83 gal) drums/containers		see programme section 9	see programme section 9
Heavy load drawer with safety locking for 200 litre (52.83 gal) drum, load bearing capacity 250 kg (551.16 lbs)		–	29-50977-069

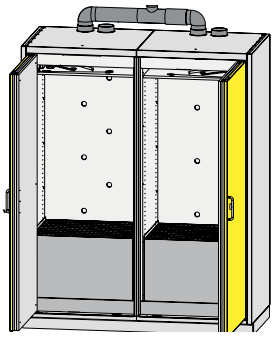
Other accessories on page 106. Other technical details and dimensions from page 108 onwards.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727







	COMPACT XXL - V1	COMPACT XXL - V2	COMPACT XXL - V3
	for 60 litre (15.85 gal) drums	for 60/200 litre (15.85 /52.83 gal) drums	for 200 litre (52.83 gal) drum
	29-201777-011	29-201777-033	29-201777-031
	2 bottom trays each for 1x 60 litre drum with grating and base	1 bottom tray each for 1x 60 litre drum (left), 1 bottom tray for 1x 200 litre drum (right) each with grating and base	2 bottom trays each for 1x 200 litre drum with grating and base
	1655 x 745 x 2080 35.23 x 29.33 x 81.89	1655 x 745 x 2080 35.23 x 29.33 x 81.89	1655 x 745 x 2080 35.23 x 29.33 x 81.89
	L/R: 744 x **L/R:** 595 x **L/R:** 1540 **L/R:** 29.29 x **L/R:** 23.43 x **L/R:** 60.63	**L/R:** 744 x **L/R:** 595 x **L:** 1540 | **R:** 1180 **L/R:** 29.29 x **L/R:** 23.43 x **L:** 60.63 | **R:** 46.46	**L/R:** 744 x **L/R:** 595 x **L/R:** 1180 **L/R:** 29.29 x **L/R:** 23.43 x **L/R:** 46.46
	895 1973.14	895 1973.14	895 1973.14
	2 drums	2 drums	2 drums
	–	1 drum	1 drum
	on request	on request	on request
	29-51777-013	29-51777-013	–
	29-51777-213	29-51777-213	–
	see programme section 9	see programme section 9	see programme section 9
	–	29-50977-069	29-50977-069

Accessories - varied and flexible

Adapt the cabinets of the COMPACT line to your requirements even better with the large variety of accessories offered. To make your workplace more efficient and safer.

Exhaust air systems
Monitoring exhaust air systems help prevent explosion risks in work areas, see programme section 7.

Heavy load drawer
with safety locking for 200 litre (52.83 gal) drums in light grey RAL 7035.

Drum lifter
for picking up and transporting 200 l (52.83 gal) drums. Ideally in connection with heavy load drawer, see programme section 9.

Pipe penetration
Safety storage cabinets can be adapted to your requirements by incorporating additional penetrations for pipes, hoses and cables.

Platform lift
Ideal for lifting and transporting of drums and canisters when used in conjunction with a transport unit with a rollers.

Transport unit with rollers
with arrest system for easy intake of drums and canisters.

Cabi2Net
for central control of work processes. Configuration according to individual requirements.

Absorber cloths
Absorber cloths are specially designed for use with chemicals and are thus ideal for picking up spilled hazardous substances.

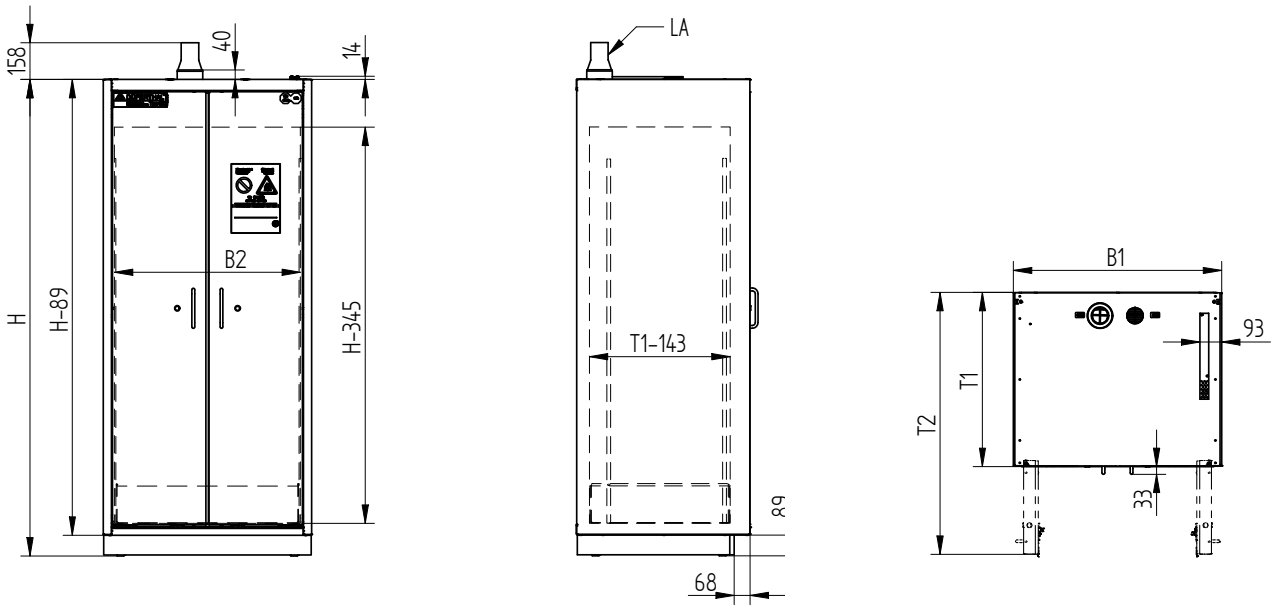
Accessories	Ref. no.
Cabi2Net	on request
Pipe penetration (reclosable)	on request
Pipe penetration	29-70000-048
Red-Box	2.233.04

Optional extras	
Drum lifter with quick lift, load bearing capacity 300 kg (661.39 lbs) for 200 litre (52.83 gal) drum	1.31.045*
Platform lift, load bearing capacity 100 kg (220.46 lbs)	1.31.050
Transport unit with rollers - left | right	1.31.051 | 1.31.052
Transport unit with rollers and additional front rollers - left | right	1.31.053 | 1.31.054
Centering tabs for transport unit	1.31.055
Earthing cable with crocodile clip	1.806.63
Exhaust air system or ventilator	see programme section 7 or at www.dueperthal.com
Safety container	see programme section 8 or at www.dueperthal.com
Absorber	see programme section 10 or at www.dueperthal.com

Tech specs COMPACT line – Drum cabinets

Technical details - COMPACT line

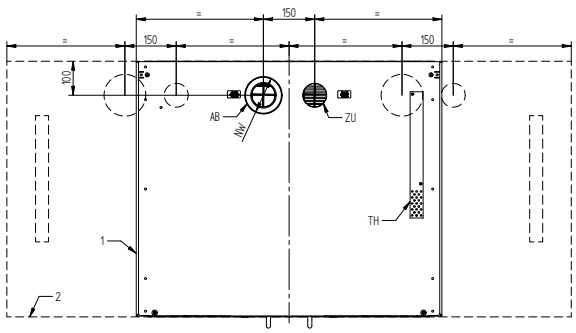
Front view | Side view | Top view



Model size		ML	LL	XXL
H	[mm] [inch]	2045 80.51	2045 80.51	2045 80.51
B1	[mm] [inch]	594 23.39	894 35.2	1650 65
B2	[mm] [inch]	498 19.61	798 31.1	2x 746 2x 29.37
T1	[mm] [inch]	747 29.21	747 29.21	747 29.21
T2	[mm] [inch]	1235 48.62	1125 44.29	1483 58.39
Doors		1	2	2

LA: Connection socket NW 75 (2.95)

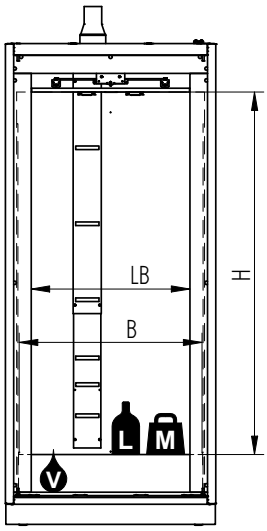
Top view - more details



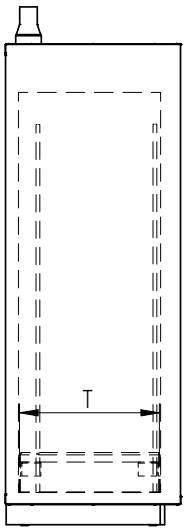
1: Cabinet size ML | LL
2: Cabinet size XXL
NW: 110 (4.33) with adapter 75 (2.95)
AB: Exhaust air connection
ZU: Air supply
TH: Thermocouple

Technical details - COMPACT line

Front view



Side view



Model size		ML	LL - V1	LL - V2	XXL - V1 (CP)	XXL - V2 (CP)	XXL - V3 (CP)
B	[mm] [inch]	479 18.86	776 30.55	776 30.55	2x 724 2x 28.5	2x 724 2x 28.5	2x 724 2x 28.5
LB	[mm] [inch]	374 14.72	674 26.54	674 26.54	2x 684 2x 26.93	2x 684 2x 26.93	2x 684 2x 26.93
H	[mm] [inch]	1540 60.63	1540 60.63	1180 46.46	1540 60.63	1180 46.46	1540 | 1180 60.63 | 46.46
T	[mm] [inch]	594 23.39	594 23.39	594 23.39	594 23.39	594 23.39	594 23.39
M	[kg] [lbs]	250 551.16	250 551.16	250 551.16	250 551.16	250 551.16	250 551.16
L	[l] [gal]	60 15.85	60 15.85	200 52.83	60 15.85	200 52.83	60 | 200 15.85 | 52.83
V	[l] [gal]	66 17.44	66 17.44	220 58.12	66 17.44	220 58.12	66 | 220 17.44 | 58.12
Tare weight	[kg] [lbs]	325 716.5	400 881.85	424 934.76	820 1807.8	866 1909.2	844 1860.7
Max. additional load	[kg] [lbs]	360 793.66	360 793.66	360 793.66	2x 360 2x 793.66	2x 360 2x 793.66	2x 360 2x 793.66

B: Inner width of standing surface, in millimetres
LB: Clear width (doors), in millimetres
H: Inner height (maximum container height), in millimetres
T: Inner depth of standing surface, in millimetres
M Load bearing capacity per storage shelf (uniformly distributed), in kilograms
L: Maximum volume of the largest individual container, in litres
V: Max. collection volume, in litres
CP: (with) centre partition wall

UTS ergo line® | BENCH line 1.5

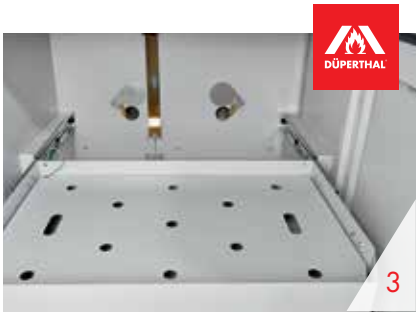
Safety storage cabinets
for under-benches

Your added advantage with the UTS ergo line® and BENCH line!

- **Health**
  Ideal layout of ventilation ensures an optimised air exchange.
- **Safety**
  In case of fire, a thermocouple automatically initiates the uninterrupted closing of the doors.
- **Working safety**
  Equipotential bonding saddles as a standard on the cabinet help to prevent spark formation.

UTS ergo line® | BENCH line in detail

The safety storage cabinets of the UTS ergo line and BENCH line are specially constructed for the storage of hazardous substances close to where they are needed. With the UTS ergo line and BENCH line, all containers are always safely stored and at your fingertips when you need them.



1 Push-to-open wing doors
Very easy-moving push-to-open wing doors can be opened by light pressure on the front.

2 One-hand wing door technology
The wing doors can be opened comfortably with minimal effort using a single handle and the pull-out tray comes out automatically.

3 Ventilation
Optimal layout of ventilation and exhaust valves for visual inspection. Efficient air flow system results in low energy consumption and lowers ongoing operating costs.

4 Floor extraction
Permanent floor extraction through slotted base. This ensures that vapours collecting at the bottom of the cabinet are safely removed and passed to the exhaust air system.

5 PP inserts
PP inserts for the bottom tray and the pull-out tray are perfect for collecting small leakages.

6 Roller set
Roller set available for all base variants with which the UTS ergo line can be installed more easily into existing equipment.

UTS ergo line® | BENCH line – Type 90 at a glance

UTS ergo S and ST with pull-out tray or bottom tray

Dimensions [mm] [inch]		
Width	Depth	Height
600 23.62	593 23.35	631 24.84

UTS ergo ST

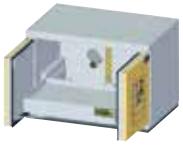
UTS ergo S

Max. volume of largest individual container [l]/[gal]	12/3.17	10/2.64

UTS ergo M and MT with pull-out tray or bottom tray

Dimensions [mm] [inch]		
Width	Depth	Height
888 34.96	593 23.35	631 24.84

UTS ergo MT



UTS ergo M

Max. volume of largest individual container [l]/[gal]	19/5.02	16/4.23

UTS ergo L, LT and LD with pull-out tray or bottom tray

Dimensions [mm] [inch]		
Width	Depth	Height
1100 43.31	593 23.35	631 24.84

UTS ergo LT

UTS ergo L

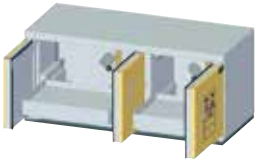
UTS ergo LD

Max. volume of largest individual container [l]/[gal]	24/6.34	21/5.54	10/2.64

UTS ergo XL, XLT with pull-out tray or bottom tray

Dimensions [mm] [inch]		
Width	Depth	Height
1400 55.12	593 23.35	631 24.84

UTS ergo XLT



UTS ergo XL

Max. volume of largest individual container [l]/[gal]	19/5.02	15/3.96

BENCH ST and S with pull-out tray or bottom tray

Dimensions [mm] [inch]		
Width	Depth	Height
601 23.66	594 23.39	805 31.69

BENCH ST

BENCH S

Max. volume of largest individual container [l]/[gal]	12/3.17	10/2.64

UTS ergo S-5 and ST-5 with pull-out tray or bottom tray

Dimensions [mm] [inch]		
Width	Depth	Height
600 23.62	493 19.41	631 24.84

UTS ergo S-5

UTS ergo ST-5

Max. volume of largest individual container [l]/[gal]	8/2.11	9/2.38

UTS ergo M-5 and MT-5 with pull-out tray or bottom tray

Dimensions [mm] [inch]		
Width	Depth	Height
888 34.96	493 19.41	631 24.84

UTS ergo M-5

UTS ergo MT-5

Max. volume of largest individual container [l]/[gal]	11/2.91	14/3.7

UTS ergo L-5, LT-5 and LD-5 with pull-out tray or bottom tray

Dimensions [mm] [inch]		
Width	Depth	Height
1100 43.31	493 19.41	631 24.84

UTS ergo L-5

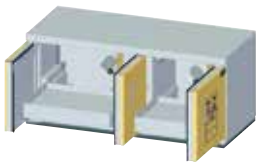
UTS ergo LT-5

UTS ergo LD-5

Max. volume of largest individual container [l]/[gal]	16/4.23	19/5.02	7/1.85

UTS ergo XL-5 and XLT-5 with pull-out tray or bottom tray

Dimensions [mm] [inch]		
Width	Depth	Height
1400 55.12	493 19.41	631 24.84



UTS ergo XL-5

UTS ergo XLT-5

Max. volume of largest individual container [l]/[gal]	11/2.91	14/3.7

UTS ergo line® – Type 90
Depth 600 mm | 500 mm
23.63 inch | 19.96 inch

The safety storage cabinets in the UTS ergo line are the ideal solution for fire resistant storage of flammable liquids close to where they are needed – under the worktop. Configure your own custom storage solution from the various sizes and varied optional extras offered by the range.

UTS ergo ST -
Depth 600 mm/23.62 inch
UTS ergo ST-5 -
Depth 500 mm/19.96 inch

UTS ergo S -
Depth 600 mm/23.62 inch
UTS ergo S-5 -
Depth 500 mm/19.96 inch

UTS ergo MT -
Depth 600 mm/23.62 inch
UTS ergo MT-5 -
Depth 500 mm/19.96 inch

UTS ergo M -
Depth 600 mm/23.62 inch
UTS ergo M-5 -
Depth 500 mm/19.96 inch

UTS ergo LT -
Depth 600 mm/23.62 inch
UTS ergo LT-5 -
Depth 500 mm/19.96 inch

UTS ergo L -
Depth 600 mm/23.62 inch
UTS ergo L-5 -
Depth 500 mm/19.96 inch

UTS ergo LD -
Depth 600 mm/23.62 inch
UTS ergo LD-5 -
Depth 500 mm/19.96 inch

UTS ergo XLT -
Depth 600 mm/23.62 inch
UTS ergo XLT-5 -
Depth 500 mm/19.96 inch

UTS ergo XL -
Depth 600 mm/23.62 inch
UTS ergo XL-5 -
Depth 500 mm/19.96 inch

BENCH line – Type 90
Depth 600 mm
23.62 inch

The compact safety storage cabinets of the BENCH line are ideal for the fire-protected storage of larger containers of flammable liquids under the worktop. Attain maximum flexibility with the varied optional extras.

BENCH ST

BENCH S

Interior fittings:

» Bottom trays and pull-out trays optionally made of powder-coated sheet steel or stainless steel.

Construction:

» Wing doors, powder-coated sheet steel.
» The doors are generally right-hinged for one-door cabinets. A left-hung door can be delivered on request for no additional charge.
» Outer carcass, powder-coated sheet steel.
» Inner carcass made of high-quality decor panels.

Colour standard version:

» Wing doors in zinc yellow RAL 1018.
» Carcass completely in light grey RAL 7035.
» Base in slate grey RAL 7015.
» Individual colours possible.

Golden yellow **RAL 1004** | Light grey **RAL 7035** | Zinc yellow **RAL 1018** | Pure white **RAL 9010**

Ordering information

		UTS ergo ST		UTS ergo S	
		with bottom tray		with pull-out tray	
Ref. no.					
Classical door technology		29-060667-001		29-060667-003	
Push-to-open		29-060669-001		29-060669-003	
Details		1 bottom tray, 1 perforated sheet insert and classical 35 mm (1.38 inch) base		1 pull-out tray, 1 perforated sheet insert and classical 35 mm (1.38 inch) base	
Dimensions		Outer	Inner	Outer	Inner
Width	[mm] [inch]	600 23.62	503 19.8	600 23.62	503 19.8
Depth	[mm] [inch]	593 23.35	463 18.23	593 23.35	463 18.23
Height (classical)	[mm] [inch]	631 24.84	480 18.9	631 24.84	480 18.9
Height (ToeKick)	[mm] [inch]	681 26.81	480 18.9	681 26.81	480 18.9
Weight	[kg] [lbs]	106 233.69		110 242.51	
Storage capacity/standing surface (approx. data)					
Size	[400 ml/11 oz] [1,0 l/0.26 gal] [1,0 l/0.26 gal] [2.5 l/0.66 gal]	45 spray cans 16 cans 20 glass lab bottles 7 glass lab bottles		38 spray cans 14 cans 7 glass lab bottles 7 glass lab bottles	
Ref. no.					
Additional interior fittings	**Material**				
Interior fittings	Stainless steel	29-10660-260		29-10661-261	
Pull-out tray	Sheet steel	–		29-10661-119	
Insert for pull-out tray/ bottom tray	PP	29-10660-314		29-10661-314	
Anti-slip mat	Rubber	29-10660-514		29-10661-514	
Classical base 85 mm/3.35 inch (instead of 35 mm/1.38 inch)		29-10660-084		29-10660-084	
ToeKick base 85 mm/3.35 inch		29-10660-085		29-10660-085	
Roller set		29-10900-011		29-10900-011	

Other accessories on page 126. Other technical details and dimensions from page 128 onwards.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

UTS ergo MT	UTS ergo M	UTS ergo LT	UTS ergo L
with bottom tray	with pull-out tray	with bottom tray	with pull-out tray
29-060967-001	29-060967-003	29-061167-001	29-061167-003
29-060969-001	29-060969-003	29-061169-001	29-061169-003
1 bottom tray, 1 perforated sheet insert and classical 35 mm (1.38 inch) base	1 pull-out tray, 1 perforated sheet insert and classical 35 mm (1.38 inch) base	1 bottom tray, 1 perforated sheet insert and classical 35 mm (1.38 inch) base	1 pull-out tray, 1 perforated sheet insert and classical 35 mm (1.38 inch) base

Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
888 34.96	790 31.1	888 34.96	790 31.1	1100 43.31	1003 39.49	1100 43.31	1003 43.31
593 23.35	463 18.23	593 23.35	463 18.23	593 23.35	463 18.23	593 23.35	463 18.23
631 24.84	480 18.9	631 24.84	480 18.9	631 24.84	480 18.9	631 24.84	480 18.9
681 26.81	480 18.9	681 26.81	480 18.9	681 26.81	480 18.9	681 26.81	480 18.9
141 310.85		149 328.49		169 372.58		182 401.24	
74 spray cans 26 cans 31 glass lab bottles 13 glass lab bottles		61 spray cans 22 cans 25 glass lab bottles 9 glass lab bottles		94 spray cans 33 cans 40 glass lab bottles 18 glass lab bottles		82 spray cans 29 cans 34 glass lab bottles 15 glass lab bottles	
29-10960-260		29-10961-261		29-11160-260		29-11161-261	
–		29-10961-119		–		29-11161-119	
29-10960-314		29-10961-314		29-11160-314		29-11161-314	
29-10960-514		29-10961-514		29-11160-514		29-11161-514	
29-10960-084		29-10960-084		29-11160-084		29-11160-084	
29-10960-085		29-10960-085		29-11160-085		29-11160-085	
29-10900-011		29-10900-011		29-11400-011		29-11400-011	

Ordering information

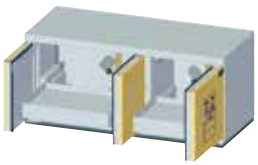
		UTS ergo LD		UTS ergo XLT	
		with pull-out tray		with bottom tray	
Ref. no.					
Classical door technology		29-061167-005		29-061467-001	
Push-to-open		29-061169-005		29-061469-001	
Details		2 pull-out trays, 2 perforated sheet inserts and classical base 35 mm (1.38 inch)		2 bottom trays, 2 perforated sheet insert and classical base 35 mm (1.38 inch)	
Dimensions		Outer	Inner	Outer	Inner
Width	[mm]	1100	L: 490 | R: 490	1400	L: 790 | R: 490
	[inch]	43.31	19.3 19.3	55.12	31.1 19.3
Depth	[mm]	593	463	593	463
	[inch]	23.35	18.23	23.35	18.23
Height (classical)	[mm]	631	480	631	480
	[inch]	24.84	18.9	24.84	18.9
Height (ToeKick)	[mm]	681	480	681	480
	[inch]	26.81	18.9	26.81	18.9
Weight	[kg]	187		220	
	[lbs]	412.26		485.02	
Storage capacity/standing surface (approx. data)					
Size	[400 ml/11 oz]	38/38	spray cans	74/44	spray cans
	[1,0 l/0.26 gal]	14/14	cans	26/17	cans
	[1,0 l/0.26 gal]	17/17	glass lab bottles	31/20	glass lab bottles
	[2.5 l/0.66 gal]	6/6	glass lab bottles	13/8	glass lab bottles

Ref. no. **Additional interior fittings**	**Material**		
Interior fittings	Stainless steel	29-11163-261	29-11460-260
Pull-out tray	Sheet steel	L: 29-11163-119L R: 29-11163-119	–
Shelf	Sheet steel	–	–
Insert for pull-out tray/ bottom tray	PP	L: 29-11163-314L R: 29-11163-314	L: 29-11460-314L R: 29-11460-314
Anti-slip mat	Rubber	29-11163-514	L: 29-11460-514L R: 29-11460-514
Classical base 85 mm/3.35 inch (instead of 35 mm/1.38 inch)		29-11160-084	29-11460-084
ToeKick base 85 mm/3.35 inch		29-11160-085	29-11460-085
Roller set		29-11400-011	29-11400-011

Other accessories on page 126. Other technical details and dimensions from page 128 onwards.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727



	UTS ergo XL	BENCH ST	BENCH S
	with pull-out tray	with bottom tray	with pull-out tray
	29-061467-005	29-080667-001	29-080667-003
	29-061469-005	29-080669-001	29-080669-003
	2 pull-out trays, 2 perforated sheet inserts and classical base 35 mm (1.38 inch)	1 bottom tray, 1 perforated sheet insert and classical base 35 mm (1.38 inch)	1 pull-out tray, 1 perforated sheet insert and classical base 35 mm (1.38 inch)
	Outer / Inner	Outer / Inner	Outer / Inner
	1400 55.12 L: 790 | R: 490 31.1 19.3	601 23.67 503 19.8	601 23.67 503 19.8
	593 23.35 463 18.23	594 23.39 463 18.23	594 23.39 463 18.23
	631 24.84 480 18.9	805 31.7 655 25.78	805 31.7 655 25.78
	681 26.81 480 18.9	855 33.66 655 25.78	855 33.66 655 25.78
	232 511.47	132 291.01	120 264.55
	56/38 spray cans 20/14 cans 23/17 glass lab bottles 9/6 glass lab bottles	45 spray cans 16 cans 20 glass lab bottles 7 glass lab bottles	38 spray cans 14 cans 17 glass lab bottles 7 glass lab bottles
	29-11463-261	on request	on request
	L: 29-11463-119L R: 29-11163-119	–	29-20661-119
	–	29-20660-120	–
	L: 29-11463-314L R: 29-11163-314	29-10660-314	29-10661-314
	L: 29-11463-514L R: 29-11163-514	29-10660-514	29-10661-514
	29-11460-084	29-10660-084	29-10660-084
	29-11460-085	29-10660-085	29-10660-085
	29-11400-011	29-10900-011	29-10900-011

Ordering information

		UTS ergo ST-5		UTS ergo S-5	
		with bottom tray		with pull-out tray	
Ref. no.					
Classical door technology		29-060657-001		29-060657-003	
Push-to-open		29-060659-001		29-060659-003	
Details		1 bottom tray, 1 perforated sheet insert and classical 35 mm (1.38 inch) base		1 pull-out tray, 1 perforated sheet insert and classical 35 mm (1.38 inch) base	
Dimensions		Outer	Inner	Outer	Inner
Width	[mm] [inch]	600 23.62	503 19.8	600 23.62	503 19.8
Depth	[mm] [inch]	493 19.41	363 14.29	493 19.41	363 14.29
Height (classical)	[mm] [inch]	631 24.84	480 18.9	631 24.84	480 18.9
Height (ToeKick)	[mm] [inch]	681 26.81	480 18.9	681 26.81	480 18.9
Weight	[kg] [lbs]	99 218.26		101 222.67	
Storage capacity/standing surface (approx. data)					
Size	[400 ml/11 oz] [1,0 l/0.26 gal] [1,0 l/0.26 gal] [2.5 l/0.66 gal]	35 spray cans 13 cans 15 glass lab bottles 5 glass lab bottles		28 spray cans 9 cans 11 glass lab bottles 4 glass lab bottles	

Additional interior fittings	**Material**	**Ref. no.**	**Ref. no.**
Interior fittings	Stainless steel	29-10650-260	29-10651-261
Pull-out tray	Sheet steel	–	29-10651-119
Insert for pull-out tray/ bottom tray	PP	29-10650-314	29-10651-314
Anti-slip mat	Rubber	29-10650-514	29-10651-514
Classical base 85 mm/3.35 inch (instead of 35 mm/1.38 inch)		29-10650-084	29-10650-084
ToeKick base 85 mm/3.35 inch		29-10650-085	29-10650-085
Roller set		29-10900-011	29-10900-011

Other accessories on page 126. Other technical details and dimensions from page 128 onwards.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

UTS ergo MT-5	UTS ergo M-5	UTS ergo LT-5	UTS ergo L-5
with bottom tray	with pull-out tray	with bottom tray	with pull-out tray
29-060957-001	29-060957-003	29-061157-001	29-061157-003
29-060959-001	29-060959-003	29-061159-001	29-061159-003
1 bottom tray, 1 perforated sheet insert and classical 35 mm (1.38 inch) base	1 pull-out tray, 1 perforated sheet insert and classical 35 mm (1.38 inch) base	1 bottom tray, 1 perforated sheet insert and classical 35 mm (1.38 inch) base	1 pull-out tray, 1 perforated sheet insert and classical 35 mm (1.38 inch) base

Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
888 34.96	790 31.1	888 34.96	790 31.1	1100 43.31	1003 39.49	1100 43.31	1003 43.31
493 19.41	363 14.29	493 19.41	363 14.29	493 19.41	363 14.29	493 19.41	363 14.29
631 24.84	480 18.9	631 24.84	480 18.9	631 24.84	480 18.9	631 24.84	480 18.9
681 26.81	480 18.9	681 26.81	480 18.9	681 26.81	480 18.9	681 26.81	480 18.9
134 295.42		137 302.03		161 354.9		168 370.37	
56 spray cans 19 cans 24 glass lab bottles 10 glass lab bottles		45 spray cans 16 cans 21 glass lab bottles 7 glass lab bottles		70 spray cans 25 cans 31 glass lab bottles 12 glass lab bottles		61 spray cans 22 cans 29 glass lab bottles 10 glass lab bottles	
29-10950-260		29-10951-261		29-11150-260		29-11151-261	
–		29-10951-119		–		29-11151-119	
29-10950-314		29-10951-314		29-11150-314		29-11151-314	
29-10950-514		29-10951-514		29-11150-514		29-11151-514	
29-10950-084		29-10950-084		29-11150-084		29-11150-084	
29-10950-085		29-10950-085		29-11150-085		29-11150-085	
29-10900-011		29-10900-011		29-11400-011		29-11400-011	

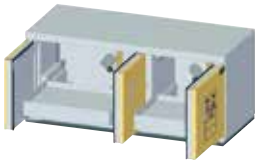
Ordering information

		UTS ergo LD-5		UTS ergo XLT-5	
		with pull-out tray		with bottom tray	
Ref. no.					
Classical door technology		29-061157-005		29-061457-001	
Push-to-open		29-061159-005		29-061459-001	
Details		2 pull-out trays, 2 perforated sheet inserts and classical 35 mm (1.38 inch) base		2 bottom trays, 2 perforated sheet inserts and classical 35 mm (1.38 inch) base	
Dimensions		Outer	Inner	Outer	Inner
Width	[mm] [inch]	1100 43.31	**L:** 490 | **R:** 490 19.3 19.3	1400 55.12	**L:** 790 | **R:** 490 31.1 19.3
Depth	[mm] [inch]	493 19.41	363 14.29	493 19.41	363 14.29
Height (classical)	[mm] [inch]	631 24.84	480 18.9	631 24.84	480 18.9
Height (ToeKick)	[mm] [inch]	681 26.81	480 18.9	681 26.81	480 18.9
Weight	[kg] [lbs]	173 381.4		211 465.18	
Storage capacity/standing surface (approx. data)					
Size (L/R)	[400 ml/11 oz] [1,0 l/0.26 gal] [1,0 l/0.26 gal] [2.5 l/0.66 gal]	26/26 spray cans 9/9 cans 11/11 glass lab bottles 4/4 glass lab bottles		56/35 spray cans 19/13 cans 24/15 glass lab bottles 10/5 glass lab bottles	
Ref. no.					
Additional interior fittings	**Material**				
Interior fittings	Stainless steel	29-11153-261		29-11450-260	
Pull-out tray	Sheet steel	**L:** 29-11153-119L **R:** 29-11153-119		–	
Insert for pull-out tray/ bottom tray	PP	**L:** 29-11153-314L **R:** 29-11153-314		**L:** 29-11450-314L **R:** 29-11450-314	
Anti-slip mat	Rubber	29-11153-514		**L:** 29-11450-514L **R:** 29-11450-514	
Classical base 85 mm/3.35 inch (instead of 35 mm/1.38 inch)		29-11150-084		29-11450-084	
ToeKick base 85 mm/3.35 inch		29-11150-085		29-11450-085	
Roller set		29-11400-011		29-11400-011	

Other accessories on page 126. Other technical details and dimensions from page 128 onwards.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727



UTS ergo XL-5

with pull-out tray

29-061457-005	
29-061459-005	
2 pull-out trays, 2 perforated sheet inserts and classical 35 mm (1.38 inch) base	
Outer	Inner
1400 55.12	L: 790 | R: 490 31.1 19.3
493 19.41	363 14.29
631 24.84	480 18.9
681 26.81	480 18.9
223 491.63	
42/26 spray cans 15/9 cans 20/11 glass lab bottles 6/4 glass lab bottles	
29-11453-261	
L: 29-11453-119L R: 29-11153-119	
L: 29-11453-314L R: 29-11153-314	
L: 29-11453-514L R: 29-11153-514	
29-11450-084	
29-11450-085	
29-11400-011	

Accessories - varied and flexible

Choose from the great variety of optional extras the best suited items for your laboratory. Create your own individual work environment tailored to your requirements and work processes.

Exhaust air systems
Monitoring exhaust air systems help prevent explosion risks in work areas, see programme section 7.

Pipe penetration
Safety storage cabinets can be adapted to your requirements by incorporating additional penetrations for pipes, hoses and cables.

Earthing cables
Through the equipotential bonding saddles on the cabinet as a standard and an additional earthing cable with crocodile clip in the interior, conductive containers can be directly connected to the earthing cable as per TRGS 727.

Anti-slip mat
Anti-slip mats can prevent containers from inadvertently slipping. So everything stays where it belongs (see additional interior fittings).

ToeKick base
for ergonomic working. The user can easily use the worktop above the UTS ergo line and BENCH line, protecting their back (see additional interior fittings).

Roller set
The under-bench cabinet is optionally available with a roller set. This facilitates integration into existing equipment.

Transport trolley
in conductive design with antistatic rollers to safely transport hazardous substances.

VisiCon safety container
with integrated sight glass and measuring scale.

Accessories - UTS ergo line® | BENCH line	**Ref. no.**
Locking systems:	
Cylinder lock	included
Lock with profile half-cylinder	on request
MPS-1 with automatic locking system	50-30000-920
Additional interior fittings	
Earthing cable with crocodile clip	1.806.63
Pipe penetration (reclosable)	on request
Pipe penetration	29-70000-048
Optional extras	
Transport trolley for flammable media	7.02.100
VisiCon - safety container, 1 litre (0.26 gal) | 2 litre (0.53 gal)	5.90.001 | 5.90.002
Exhaust air system or ventilator	see programme section 7 or at www.dueperthal.com
Safety container	see programme section 8 or at www.dueperthal.com
Absorber	see programme section 10 or at www.dueperthal.com

Tech specs UTS ergo line® – Depth 600 mm/23.62 inch

Max. container height [mm]
[inch]

Interior fittings	
Pull-out tray with perforated sheet insert	340 13.39
Pull-out tray	404 15.91
Bottom tray with perforated sheet insert	386 15.2
Bottom tray	450 17.72

Interior fittings with additional pull-out tray	
from pull-out tray with perforated sheet insert up to bottom edge of additional pull-out tray	190 7.48
from pull-out tray without perforated sheet insert up to bottom edge of additional pull-out tray	200 7.87
from addit. pull-out tray to cabinet roof	190 7.48

Technical details - UTS ergo line - Depth 600 mm/23.62 inch

Model size			ST	S	MT	M	LT	L	LD left | right	XLT left | right	XL left | right
Load bearing capacity with uniformly distributed load (maximum load capacity/shelf)	[kg] [lbs]	Bottom tray	60 132	–	60 132	–	60 132	–	–	60 | 60 132 | 132	–
		Pull-out tray	–	45 99	–	45 99	–	45 99	45 | 45 99 | 99	–	45 | 45 99 | 99
Maximum volume of the largest individual container which may be stored in the cabinet	[l] [gal]		12 3.2	10 2.6	19 5	16 4.2	24 6.3	21 5.5	10 | 10 2.6 | 2.6	19 | 12 5 | 3.2	15 | 10 3.9 | 2.6
Collection volume	[l] [gal]	Bottom tray	13,2 3.5	–	21,3 5.6	–	27,2 7.2	–	– | –	21,3 | 13,2 5.6 | 3.5	– | –
		Pull-out tray	–	11,3 3	–	18,1 4.8	–	23,9 6.3	11 2.9	– | –	16,8 | 11 4.4 | 2.9
Base height (other base heights on request)	[mm] [inch]	with classical base	35 1.4	35 1.4	35 1.4	35 1.4	35 1.4	35 1.4	35 1.4	35 1.4	35 1.4
		with ToeKick base	85 3.35	85 3.35	85 3.35	85 3.35	85 3.35	85 3.35	85 3.35	85 3.35	85 3.35
Volumetric flow rate with 10-fold air exchange	approx. [m³/h] approx. [cubic ft/h]		1,1 38.8	1,1 38.8	1,7 60	1,7 60	2,2 77.7	2,2 77.7	2,2 77.7	2,7 95.3	2,7 95.3
Pressure drop in the cabinet	[Pa] [Psi]		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Dimensions – interior fittings [mm] **- UTS ergo line - Depth 600 mm/23.62 inch**
[inch]

Model size	ST			S			MT			M			LT			L		
	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height
Pull-out tray	–	–	–	427 16.8	432 16.7	101 3.9	–	–	–	677 26.7	432 16.7	101 3.9	–	–	–	892 35.1	432 16.7	101 3.9
Bottom tray	494 19.5	438 17.2	64 2.5	–	–	–	781 30.7	438 17.2	64 2.5	–	–	–	994 39.1	438 17.2	64 2.5	–	–	–
Perforated sheet insert	476 18.7	420 16.5	64 2.5	–	–	–	763 30	420 16.5	64 2.5	–	–	–	976 38.4	420 16.5	64 2.5	–	–	–
Perforated sheet insert/ pull-out tray	–	–	–	413 16.2	414 16.3	64 2.5	–	–	–	659 25.9	414 16.3	64 2.5	–	–	–	847 33.3	414 16.3	64 2.5

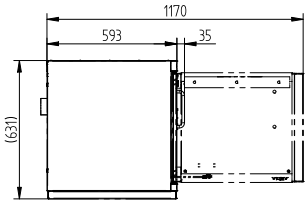
Dimensions – interior fittings [mm] **- UTS ergo line - Depth 600 mm/23.62 inch**
[inch]

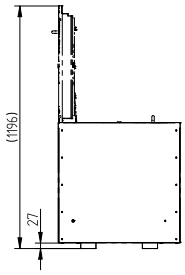
Model size	LD			XLT left | right			XL left | right		
	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height
Pull-out tray	416 16.4	432 16.7	101 3.9	–	–	–	631 | 416 24.8 | 16.4	432 | 432 16.7 | 16.7	101 | 101 3.9 | 3.9
Bottom tray	–	–	–	781 | 485 30.7 | 19.1	438 | 438 17.2 | 17.2	64 | 64 2.5 | 2.5	–	–	–
Perforated sheet insert	–	–	–	763 | 467 30 | 18.4	420 | 420 16.5 | 16.5	64 | 64 2.5 | 2.5	–	–	–
Perforated sheet insert/ pull-out tray	398 15.7	414 16.3	64 2.5	–	–	–	613 | 398 24.1 | 15.7	414 | 414 16.3 | 16.3	64 | 64 2.5 | 2.5

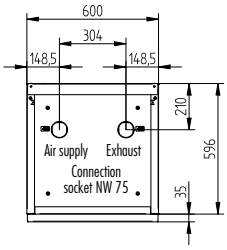
Tech specs UTS ergo line® – Depth 600 mm/23.62 inch

Side view	Top view	Rear view

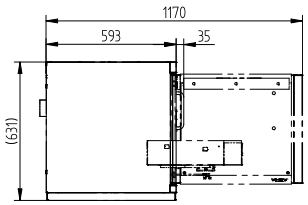
UTS ergo ST

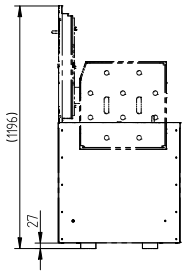


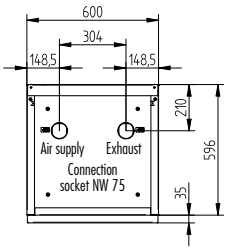




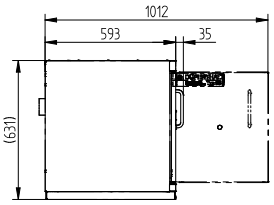
UTS ergo S

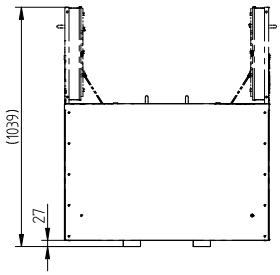


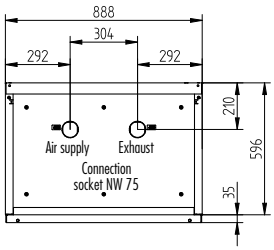




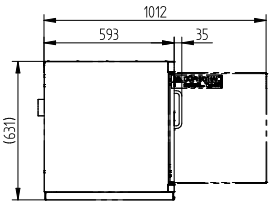
UTS ergo MT

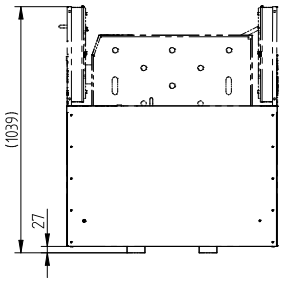


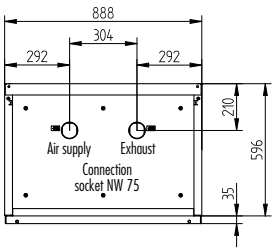




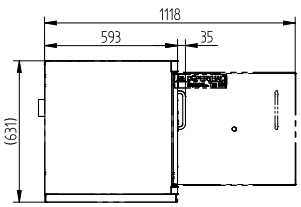
UTS ergo M

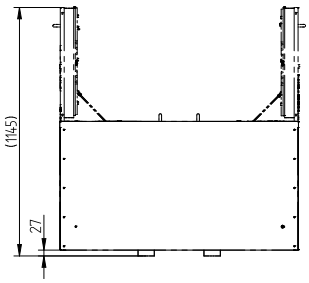


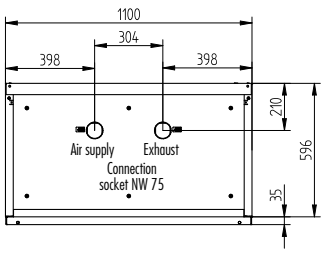




UTS ergo LT



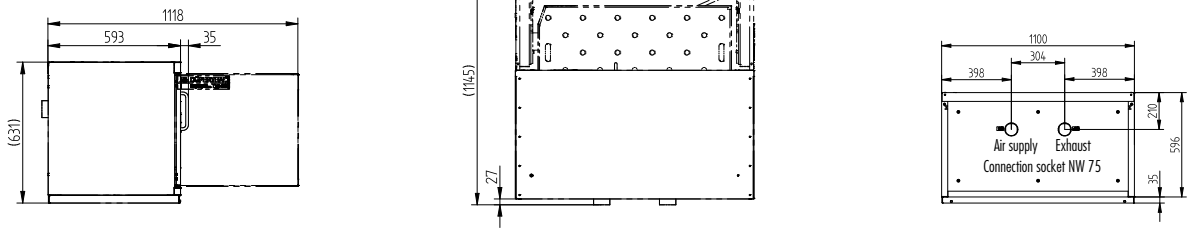




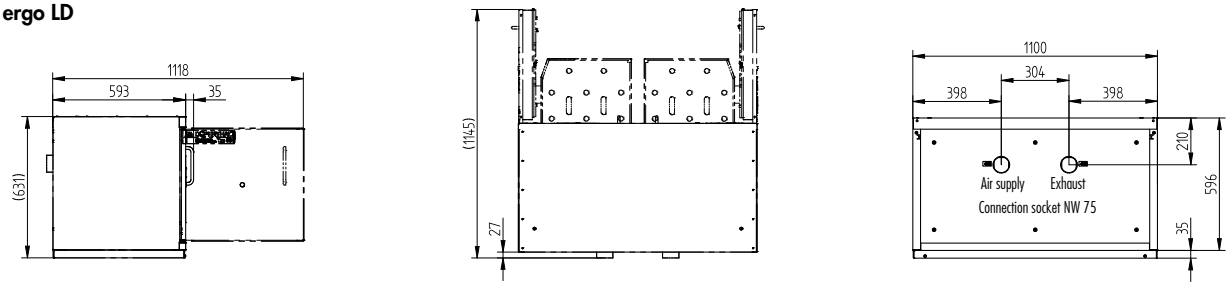
Tech specs UTS ergo line® – Depth 600 mm/23.62 inch

Side view	Top view	Rear view

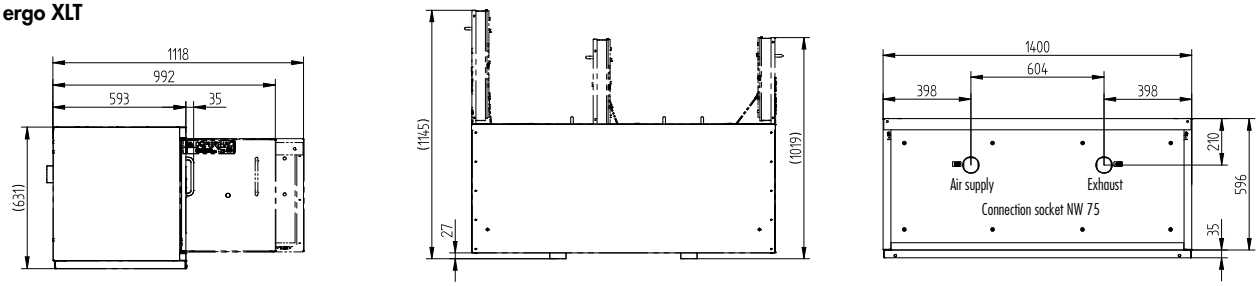
UTS ergo L



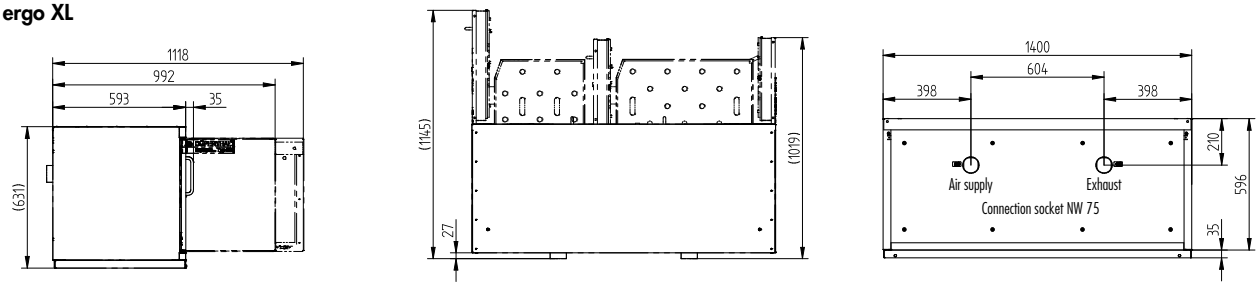
UTS ergo LD



UTS ergo XLT



UTS ergo XL



Tech specs UTS ergo line® – Depth 500 mm/19.69 inch

Max. container height [mm]
[inch]

Interior fittings	
Pull-out tray with perforated sheet insert	340 13.39
Pull-out tray	404 15.91
Bottom tray with perforated sheet insert	386 15.2
Bottom tray	450 17.72

Interior fittings with additional pull-out tray	
from pull-out tray with perforated sheet insert up to bottom edge of additional pull-out tray	190 7.48
from pull-out tray without perforated sheet insert up to bottom edge of additional pull-out tray	200 7.87
from addit. pull-out tray to cabinet roof	190 7.48

Technical details - UTS ergo line - Depth 500 mm/19.69 inch

Model size			ST-5	S-5	MT-5	M-5	LT-5	L-5	LD-5 left | right	XLT-5 left | right	XL-5 left | right
Load bearing capacity with uniformly distributed load (maximum load capacity/shelf)	[kg] [lbs]	Bottom tray	60 132	–	60 132	–	60 132	–	–	60 | 60 132 | 132	–
		Pull-out tray	–	40 88	–	40 88	–	40 88	40 | 40 88 | 88	–	40 | 40 88 | 88
Maximum volume of the largest individual container which may be stored in the cabinet	[l] [gal]		9 2.4	8 2.1	14 3.7	12 3.2	19 5	16 4.2	7 | 7 1.8 | 1.8	14 | 9 3.7 | 2.4	11 | 7 2.9 | 1.8
Collection volume	[l] [gal]	Bottom tray	10,4 2.7	–	16,4 4.3	–	20,9 5.5	–	– | –	16,4 | 10,2 4.3 | 2.6	– | –
		Pull-out tray	–	8,9 2.3	–	13,9 3.6	–	18,3 4.8	8,4 2.2	– | –	12,9 | 8,4 3.4 | 2.2
Base height (other base heights on request)	[mm] [inch]	with classical base	35 1.4	35 1.4	35 1.4	35 1.4	35 1.4	35 1.4	35 1.4	35 1.4	35 1.4
		with ToeKick base	85 3.35	85 3.35	85 3.35	85 3.35	85 3.35	85 3.35	85 3.35	85 3.35	85 3.35
Volumetric flow rate with 10-fold air exchange	approx. [m³/h] approx. [cubic ft/h]		0,9 31.7	0,9 31.7	1,4 49.4	1,4 49.4	1,7 60	1,7 60	1,7 60	2,2 77.6	2,2 77.6
Pressure drop in the cabinet	[Pa] [Psi]		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Dimensions – interior fittings [mm] **- UTS ergo line - Depth 500 mm/19.69 inch**
[inch]

Model size	ST-5			S-5			MT-5			M-5			LT-5			L-5		
	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height
Pull-out tray	–	–	–	427 16.8	332 13.1	101 3.9	–	–	–	677 26.7	332 13.1	101 3.9	–	–	–	892 35.1	332 13.1	101 3.9
Bottom tray	494 19.4	338 13.3	64 2.5	–	–	–	781 30.7	338 13.3	64 2.5	–	–	–	994 39.1	338 13.3	64 2.5	–	–	–
Perforated sheet insert	476 18.7	320 12.6	64 2.5	–	–	–	763 30	320 12.6	64 2.5	–	–	–	976 38.4	320 12.6	64 2.5	–	–	–
Perforated sheet insert/ pull-out tray	–	–	–	413 16.2	314 12.4	64 2.5	–	–	–	659 25.9	314 12.4	64 2.5	–	–	–	847 33.3	314 12.4	64 2.5

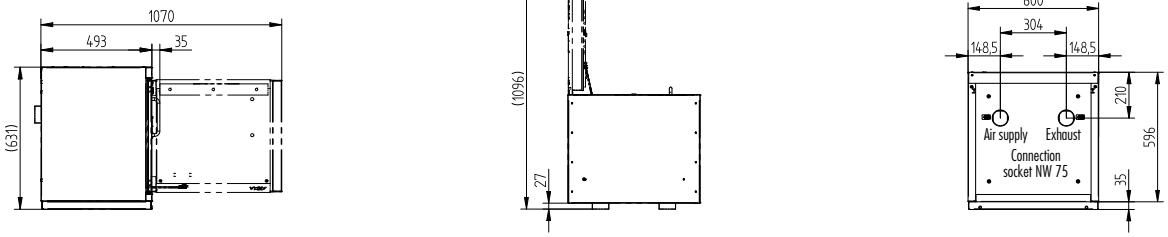
Dimensions – interior fittings [mm] **- UTS ergo line - Depth 500 mm/19.69 inch**
[inch]

Model size	LD-5			XLT-5 left | right			XL-5 left | right		
	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height
Pull-out tray	416 16.4	332 13.1	101 3.9	–	–	–	631 | 416 24.8 | 16.4	332 | 332 13.1 | 13.1	101 | 101 3.9 | 3.9
Bottom tray	–	–	–	781 | 485 30.7 | 19.1	338 | 338 13.3 | 13.3	64 | 64 2.5 | 2.5	–	–	–
Perforated sheet insert	–	–	–	763 | 467 30 | 18.4	320 | 320 12.6 | 12.6	64 | 64 2.5 | 2.5	–	–	–
Perforated sheet insert/ pull-out tray	398 15.7	314 12.4	64 2.5	–	–	–	613 | 398 24.1 | 15.7	314 | 314 12.4 | 12.4	64 | 64 2.5 | 2.5

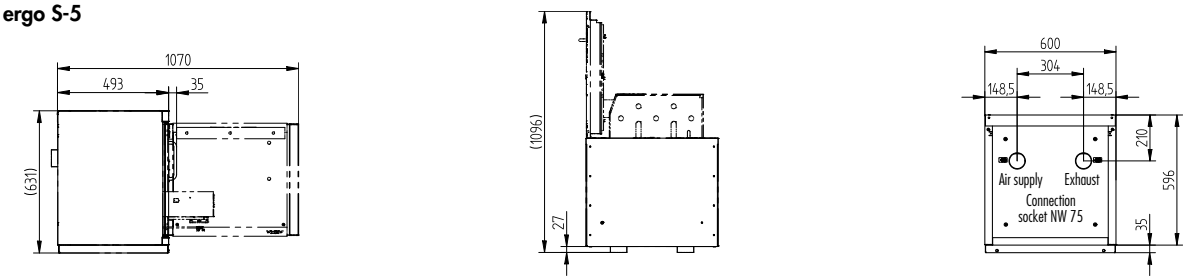
Tech specs UTS ergo line® – Depth 500 mm/19.69 inch

Side view	Top view	Rear view

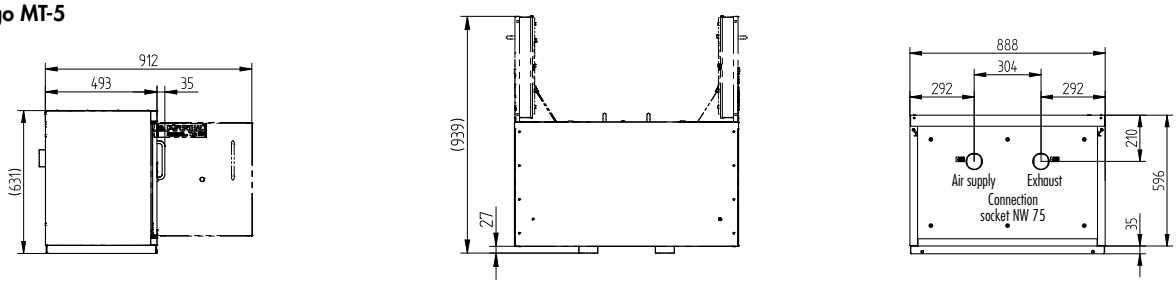
UTS ergo ST-5



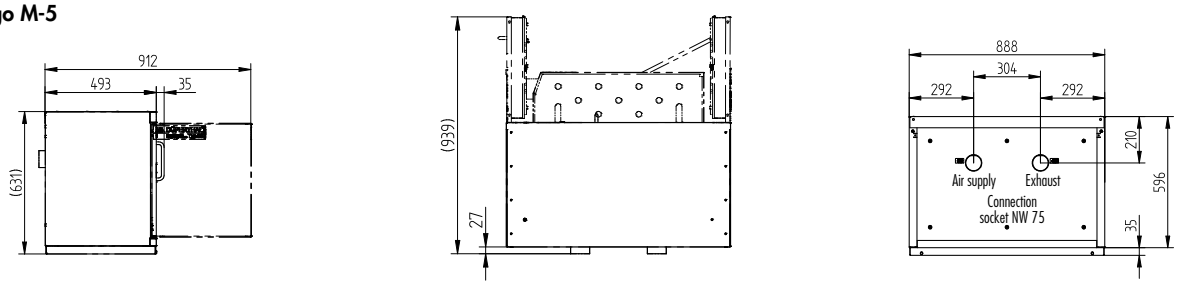
UTS ergo S-5



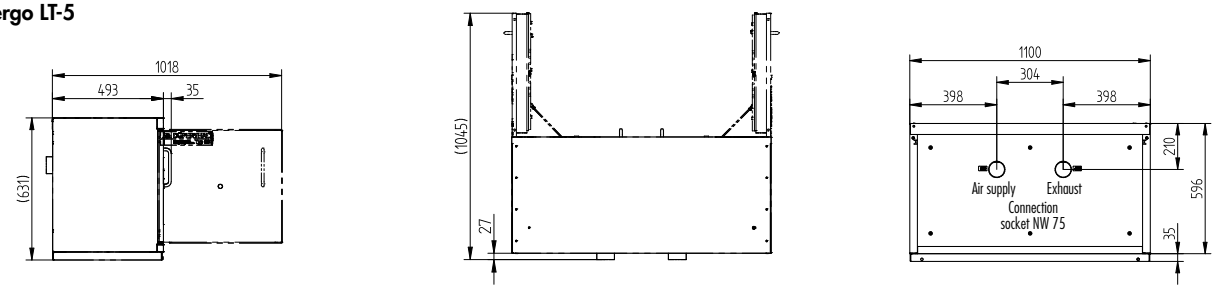
UTS ergo MT-5



UTS ergo M-5



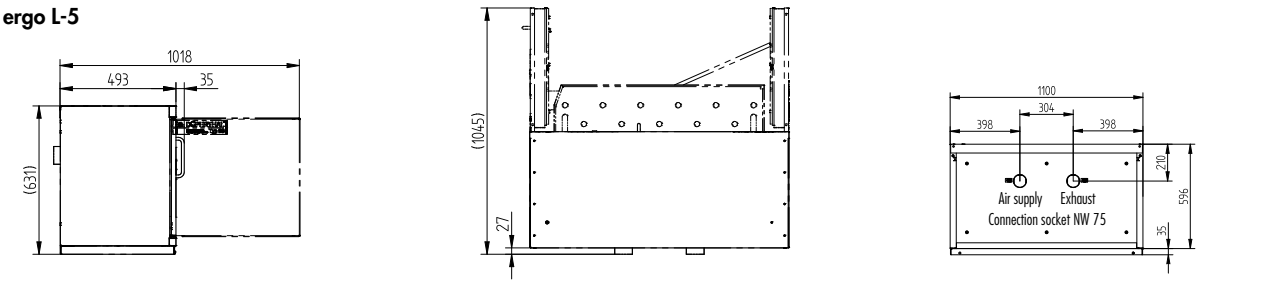
UTS ergo LT-5



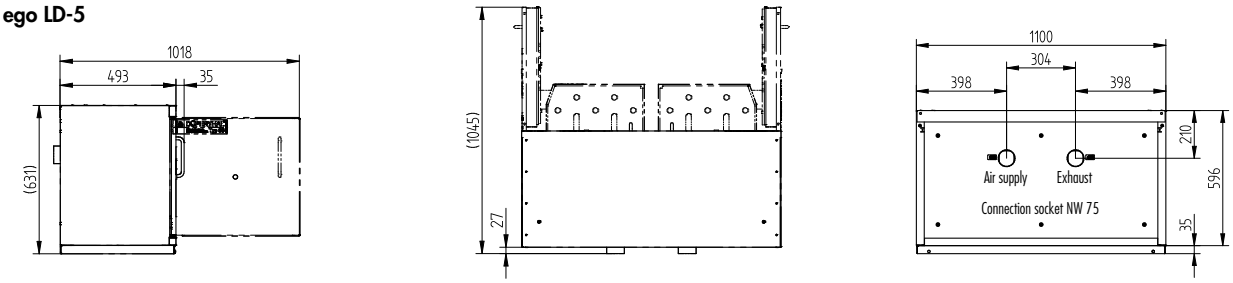
Tech specs UTS ergo line® – Depth 500 mm/19.69 inch

Side view	Top view	Rear view

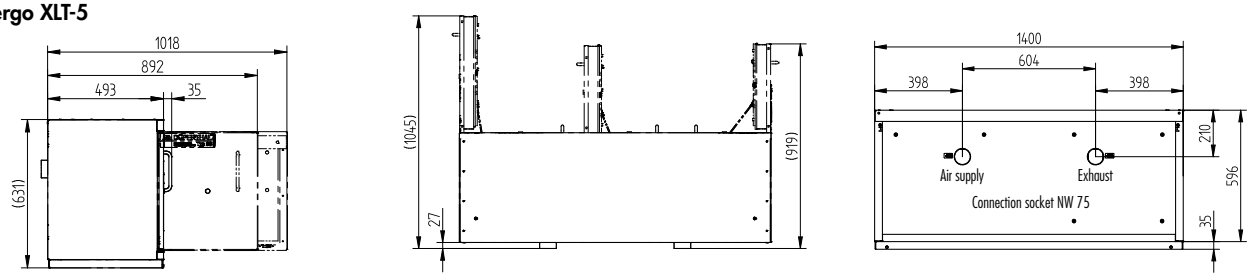
UTS ergo L-5



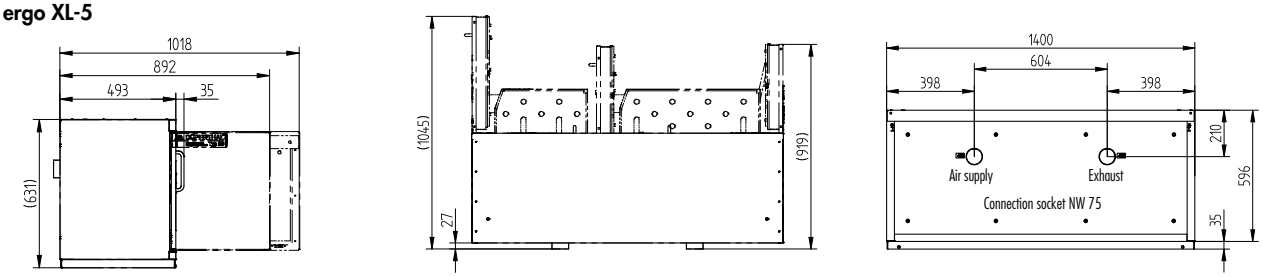
UTS ego LD-5



UTS ergo XLT-5



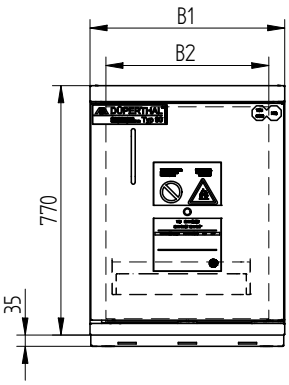
UTS ergo XL-5



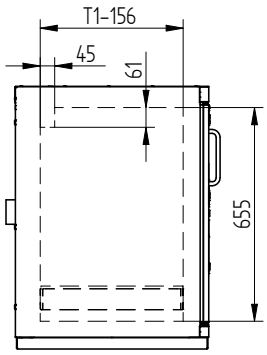
Tech specs BENCH line – ST

Technical details - BENCH line ST

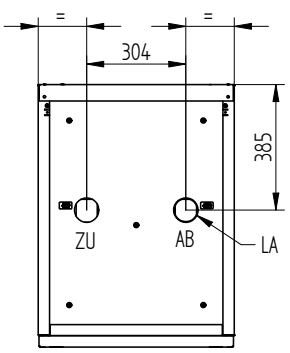
Front view



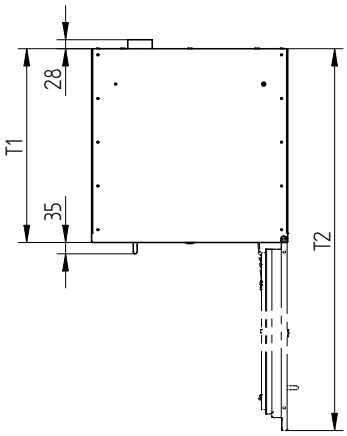
Side view



Rear view



Top view

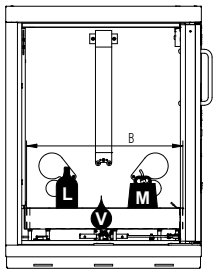


Model size		ST	ST-5
B1	[mm] [inch]	601 23.66	601 23.66
B2	[mm] [inch]	503 19.8	503 19.8
T1	[mm] [inch]	594 23.39	494 19.45
T2	[mm] [inch]	1170 46.06	1070 42.13
Doors		1	1

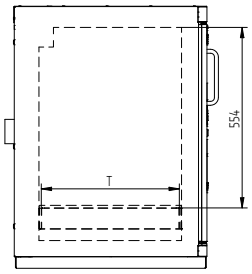
LA: Connection socket NW 75 (2.95)
AB: Exhaust air connection
ZU: Air supply

Dimensions | adjustable heights - BENCH line ST

Front view



Side view

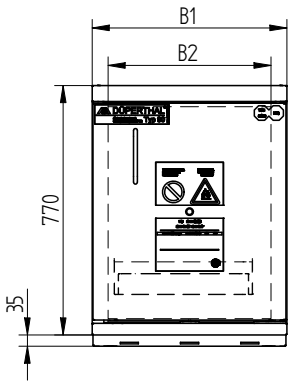


Model size		ST	ST-5
B	[mm] [inch]	480 18.9	480 18.9
T	[mm] [inch]	424 16.7	324 12.76
M	[kg] [lbs]	60 132.28	60 132.28
L	[l] [gal]	12 3.17	9 2.38
V	[l] [gal]	13,2 3.49	10,4 2.75
Tare weight	[kg] [lbs]	111 244.71	104 229.28
Max. additional load	[kg] [lbs]	60 132.28	60 132.28

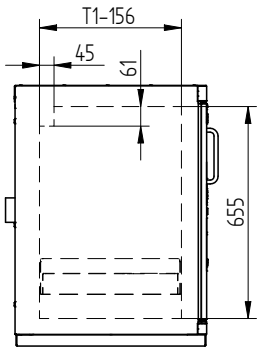
B: Inner width of standing surface, in millimetres
T: Inner depth of standing surface, in millimetres
M Load bearing capacity (uniformly distributed), in kilograms.
L: Maximum volume of the largest individual container, in litres
V: Max. collection volume, in litres

Technical details - BENCH line S

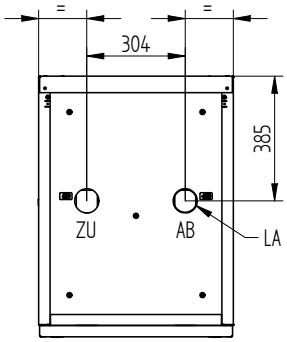
Front view



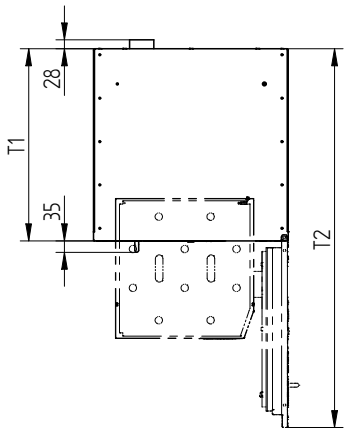
Side view



Rear view



Top view

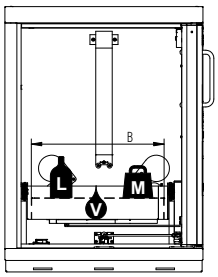


Model size		S	S-5
B1	[mm] [inch]	601 23.66	601 23.66
B2	[mm] [inch]	503 19.8	503 19.8
T1	[mm] [inch]	594 23.39	494 19.45
T2	[mm] [inch]	1170 46.06	1070 42.13
Doors		1	1

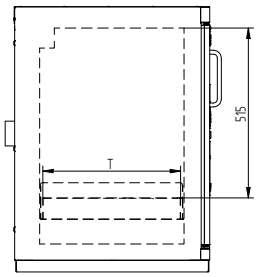
LA: Connection socket NW 75 (2.95)
AB: Exhaust air connection
ZU: Air supply

Dimensions | adjustable heights - BENCH line S

Front view



Side view



Model size		S	S-5
B	[mm] [inch]	403 15.87	403 15.87
T	[mm] [inch]	418 16.46	318 12.52
M	[kg] [lbs]	45 99.21	40 88.18
L	[l] [gal]	10 2.64	8 2.11
V	[l] [gal]	11,3 2.99	8,9 2.35
Tare weight	[kg] [lbs]	134 295.42	115 253.53
Max. additional load	[kg] [lbs]	45 99.21	40 88.18

B: Inner width of standing surface, in millimetres
T: Inner depth of standing surface, in millimetres
M Load bearing capacity (uniformly distributed), in kilograms.
L: Maximum volume of the largest individual container, in litres
V: Max. collection volume, in litres

HSC line 1.6

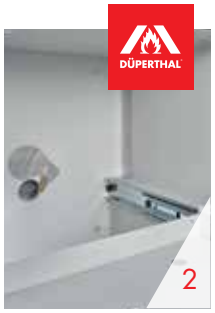
Safety storage cabinets
for combined storage in the smallest possible space

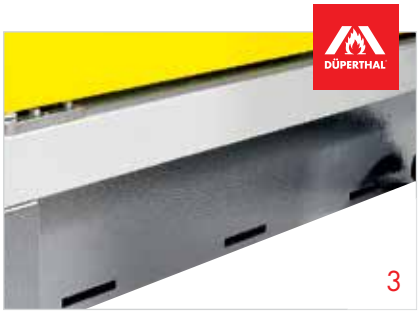
Your added advantage with the HSC UTS ergo line!

- **Health**
  Ideal layout of ventilation ensures an optimised air exchange.
- **Safety**
  Safe storage of various hazardous substances in the smallest space.
- **Working safety**
  Equipotential bonding saddles as a standard on the cabinet help to prevent spark formation.

HSC UTS ergo line® in detail

For compact storage of acids, lye and flammable liquids, we recommend the HSC UTS ergo line.
Along with 90 minutes of fire protection, this versatile under-bench solution offers a new dimension of safety and comfort for your workplace.





1 Separate units
The cabinets have separate storage compartments for acids and lye and for flammable liquids, thus enabling combined storage where space is limited.

2 Ventilation
Optimal layout of ventilation and exhaust valves for visual inspection. Vapours arising from acids, lye and solvents are extracted via separate connection sockets.

3 Floor extraction
Permanent floor extraction through slotted base. Vapours collecting at the bottom of the cabinet are safely removed and passed to the exhaust air system.

4 Earthing (system)
Equipotential bonding saddles as a standard on the cabinet unit for flammable liquids help to prevent spark formation.

5 Acids and lye unit
The arrest system of the pull-out tray prevents accidental pulling out. In order to remove the pull-out tray for cleaning, it only needs to be tilted slightly.

6 One-hand wing door technology
The wing doors can be opened with minimal effort via a single handle and the pull-out tray comes out automatically.

HSC UTS ergo line® – Type 90

The safety storage cabinets of the HSC UTS ergo line are ideal for safe combined storage of both acids and lye as well as flammable liquids. They have varied additional functionalities which help increase safety and work comfort.

HSC UTS ergo LD

HSC UTS ergo XL

Interior fittings:

- Pull-out tray and perforated sheet insert in safety storage cabinet Type 90 made optionally of powder-coated sheet steel or stainless steel.
- Pull-out trays in the acids and lye cabinet made of polypropylene.

Construction:

- Wing doors of the safety storage cabinet Type 90 made of powder-coated sheet steel.
- Outer carcass, powder-coated sheet steel.
- Inner carcass of the safety storage cabinet Type 90 made of high-quality decor panels.
- Inner carcass of acids and lye cabinet made of polypropylene.

Colour standard version:

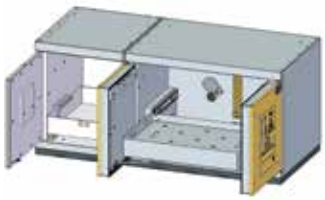
- Wing doors of the safety storage cabinet in zinc yellow RAL 1018, wing doors of the acids and lye cabinet in grey white RAL 9002.
- Carcass completely in light grey RAL 7035.
- Base in slate grey RAL 7015.
- Individual colours possible.

Golden yellow **RAL 1004** | Light grey **RAL 7035** | Zinc yellow **RAL 1018** | Pure white **RAL 9010**

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

Ordering information



	HSC UTS ergo LD	HSC UTS ergo XL
	With pull-out trays	With pull-out trays
Ref. no.		
with classical wing door technology	39-061167-005	39-061467-005
Details	2 pull-out trays, 1 perforated sheet insert and classical 35 mm (1.38 inch) base	2 pull-out trays, 1 perforated sheet inserts and classical 35 mm (1.38 inch) base
Dimensions	Outer / Inner	Outer / Inner
Width [mm] [inch]	1100 / 43.31 — L: 418 | R: 503 / 16.46 | 19.8	1400 / 55.12 — L: 418 | R: 790 / 16.46 | 31.1
Depth [mm] [inch]	595 / 23.43 — L: 543 | R: 463 / 21.38 | 18.23	595 / 23.43 — L: 543 | R: 463 / 21.38 | 18.23
Height (classical) [mm] [inch]	631 / 24.84 — L: 501 | R: 480 / 19.72 | 18.9	631 / 24.84 — L: 501 | R: 480 / 19.72 | 18.9
Height (ToeKick) [mm] [inch]	681 / 26.81 — L: 501 | R: 480 / 19.72 | 18.9	681 / 26.81 — L: 501 | R: 480 / 19.72 | 18.9
Weight [kg] [lbs]	210 / 462.97	249 / 548.95
Storage capacity/standing surface (approx. data)		
Size (L/R) [400 ml/11 oz] [1.0 l/0.26 gal] [1.0 l/0.26 gal] [2.5 l/0.66 gal]	39/28 spray cans 12/10 cans 14/11 glass lab bottles 7/5 glass lab bottles	39/46 spray cans 12/16 cans 14/18 glass lab bottles 7/9 glass lab bottles
Ref. no.		
Additional interior fittings — **Material**		
Insert for pull-out tray — PP	29-10661-314	29-10961-314
Anti-slip mat — Rubber	29-10661-514	29-10961-514
Classical base 85 mm/3.35 inch (instead of 35 mm/1.38 inch)	29-11160-084	29-11460-084
ToeKick base 85 mm/3.35 inch	29-11160-085	29-11460-085
Roller set	29-11400-011	29-11400-011

Other accessories on page 143. Other technical details and dimensions from page 144 onwards.

Accessories - varied and flexible

Adjust the cabinets of the HSC UTS ergo line with a variety of accessories to meet your requirements even better.. To make your workplace more efficient and safer.

Exhaust air systems
Monitoring exhaust air systems help prevent explosion risks in work areas, see programme section 7.

Pipe penetration
Safety storage cabinets can be adapted to your requirements by incorporating additional penetrations for pipes, hoses and cables.

Anti-slip mat
Anti-slip mats can prevent containers from inadvertently slipping. So everything stays where it belongs (see additional interior fittings).

VisiCon safety container
with integrated sight glass and measuring scale.

Earthing cables
Through the equipotential bonding saddles on the cabinet as a standard and an additional earthing cable with crocodile clip in the interior, conductive containers can be directly connected to the earthing cable as per TRGS 727.

Base
The ToeKick version of the base design for ergonomic working. Users can stand comfortably and use the worktop above the HSC UTS ergo line® cabinet, protecting their back.

Roller set
The under-bench cabinet is optionally available with a roller set. This facilitates integration into existing equipment.

Transport trolley
with antistatic rollers to safely transport hazardous substances.

Accessories	Ref. no.
Locking systems:	
Cylinder lock	included
Additional interior fittings	
Earthing cable with crocodile clip	1.806.63
Pipe penetration (reclosable)	on request
Pipe penetration	29-70000-048
Optional extras	
Transport trolley for flammable media | for acids and lye	7.02.100 | 7.02.200
VisiCon - safety container, 1 litre (0.26 gal) | 2 litre (0.53 gal)	5.90.001 | 5.90.002
Exhaust air system or ventilator	see programme section 7 or at www.dueperthal.com
Safety container	see programme section 8 or at www.dueperthal.com
Absorber	see programme section 10 or at www.dueperthal.com

Tech specs HSC UTS ergo line® – Type 90

Max. container height [mm]
[inch]

Interior fittings	
Safety storage cabinet Type 90 pull-out tray with perforated sheet insert	340 13.39
Acids and lye cabinet pull-out tray	463 18.23

Technical details - HSC UTS ergo line

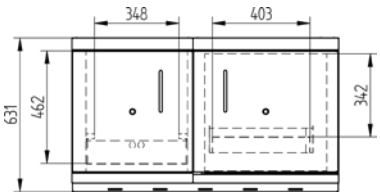
Model size			**LD**	**XL**
Load bearing capacity with uniformly distributed load (maximum load capacity/pull-out tray)	[kg] [lbs]	left side	20 44.1	20 44.1
		right side	45 99.21	45 99.21
Maximum volume of the largest individual container that may be placed on the respective standing surface of the cabinet	[l] [gal]	left side	10 2.64	10 2.64
		right side	10 2.64	16 4.23
Collection volume pull-out tray	[l] [gal]	left side	12 3.17	12 3.17
		right side	11,3 2.99	18,1 4.78
Base height (other base heights on request)	[mm] [inch]	with classical base	35 1.38	35 1.38
		with ToeKick base	85 3.35	85 3.35
Volumetric flow rate with 10-fold air exchange	approx. [m³/h] approx. [cubic ft/h]	left side	1,2 52.97	1,2 52.97
		right side	1,1 38.84	1,7 60.03
Pressure drop in the cabinet	[Pa] [Psi]		<1 <1	<1 <1

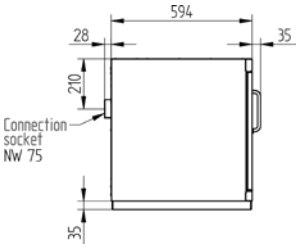
Dimensions - Interior fittings [mm] **- HSC UTS ergo line**
[inch]

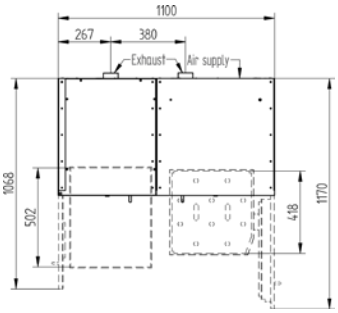
Model size	**LD** left | right Acids/lye | Type 90			**XL** left | right Acids/lye | Type 90		
	Width	Depth	Height	Width	Depth	Height
Pull-out tray	400 | 427 15.75 | 16.81	512 | 432 20.16 | 17.01	103 | 101 4.06 | 3.98	400 | 677 15.75 | 26.65	512 | 432 20.16 | 17.01	103 | 101 4.06 | 3.98
Perforated sheet insert	– | 413 – | 16.26	– | 414 – | 16.3	– | 64 – | 2.52	– | 659 – | 29.94	– | 414 – | 16.3	– | 64 – | 2.52

Front view	Side view	Top view

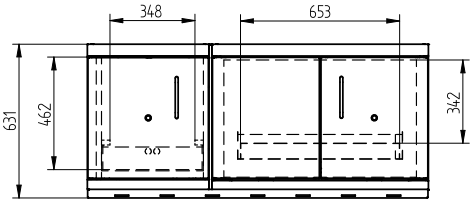
HSC UTS ergo LD

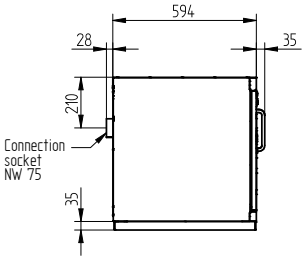


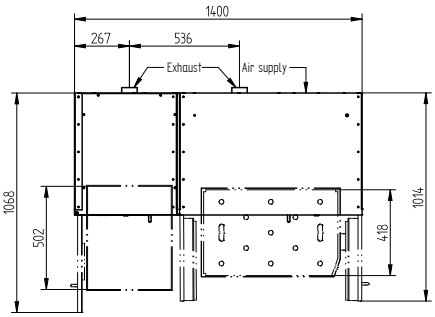




HSC UTS ergo XL







Safety storage cabinet
for combined storage

Your added advantage with the HSC Hazardous Substances Centre!

- **Health**
  Ventilation on each cabinet level provides optimised air exchange.
- **Safety**
  Safe storage of various hazardous substances in the smallest space.
- **Working safety**
  Equipotential bonding saddles as a standard on the cabinet help to prevent spark formation.

HSC Hazardous Substances Centre in detail

The HSC Hazardous Substances Centre by DÜPERTHAL offers a lot of room for optimal storage of acids, lye and flammable liquids with fire protection of 90 minutes.

1 Air grids
The air grids, connected to a technical exhaust air system, provide for constant air exchange.

2 Ventilation
The cabinet has two separate ventilation connection sockets (NW 75/2.95), meaning that the vapours arising from acids and lye and from solvents are extracted separately.

3 Door arrest system
As a standard, the Type 90 safety storage cabinet is fitted with a door arrest system with thermal monitoring, ensuring that the door is closed automatically in case of fire.

4 Built-in window
Substances in the storage chamber are always clearly visible through the built-in window.

5 Door stopper
Cushioned door stoppers guarantee that the doors of the acids and lye cabinet and the storage chamber close gently and with a low noise level.

6 Warning symbols
Stickers with warning symbols are included in delivery.

HSC Hazardous Substances Centre – Type 90

The HSC Hazardous Substances Centre by DÜPERTHAL offers a lot of room for optimal storage of acids, lye and flammable liquids with fire protection of 90 minutes.

HSC - Hazardous Substances Centre

Interior fittings:

- Storage shelves and bottom tray in safety storage cabinet Type 90 made optionally of powder-coated sheet steel or stainless steel.
- Pull-out trays of acids and lye cabinet made of polyethylene.

Colour:

- Wing door of the safety storage cabinet in zinc yellow RAL 1018, wing doors of the acids and lye cabinet in light grey RAL 7035.
- Carcass completely in light grey RAL 7035.
- Base in slate grey RAL 7015.

Construction:

- Wing door of the safety storage cabinet Type 90 made of powder-coated sheet steel.
- Outer carcass of the safety storage cabinet Type 90 made of powder-coated sheet steel.
- Outer carcass of the acids and lye cabinet and the storage chamber made of high-quality decor panels.
- Inner carcass of the acids and lye cabinet and the storage chamber made of high-quality decor panels.

Golden yellow **RAL 1004** | Light grey **RAL 7035** | Zinc yellow **RAL 1018** | Pure white **RAL 9010**

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

Ordering information

HSC Hazardous Substances Centre – Type 90

Ref. no.	
with classical wing door technology	39-201270-067

Details	
Safety storage cabinet CLASSIC S 1:	1 storage shelf, 1 bottom tray, 1 perforated sheet insert
Acids and lye cabinet:	6 pull-out trays
Storage chamber:	1 shelf

Dimensions		
Outer (width x depth x height)	[mm] [inch]	1195 x 660 x 2040 45.63 x 25.98 x 80.31
Weight	[kg] [lbs]	350 771.62

Ref. no.		
Additional interior fittings	**Material**	
Storage shelf	Sheet steel	29-80660-114
Storage shelf	Stainless steel	29-80660-214
Insert for storage shelf	PP	29-80660-314
Anti-slip mat	Rubber	29-80660-514

» **Information**

In Germany, our specialist carrier can assemble the hazardous substances centre at the place of use.

Other accessories on page 150. Other technical details and dimensions from page 151 onwards.

Accessories - varied and flexible

Adjust the HSC Hazardous Substances Centre to meet your requirements even better with a variety of accessories. To make your workplace more efficient and safer.

Exhaust air systems
Monitoring exhaust air systems help prevent explosion risks in work areas, see programme section *7*.

Transport trolley
in conductive design with antistatic rollers to safely transport flammable hazardous substances.

Transport trolley
with antistatic rollers to safely transport non-flammable hazardous substances.

VisiCon safety container
with integrated sight glass and measuring scale.

Red-Box
for safely storing documents exactly where they are needed.

Absorber cloths
Absorber cloths are specially designed for use with chemicals and are thus ideal for picking up spilled hazardous substances.

Accessories	**Ref. no.**
Red-Box	2.233.04

Optional extras	
Transport trolley for flammable media	*7*.02.100
Transport trolley for acids and lye	*7*.02.200
VisiCon - safety container, 1 litre (0.26 gal) | 2 litre (0.53 gal)	5.90.001 | 5.90.002
Exhaust air system or ventilator	see programme section *7* or at www.dueperthal.com
Safety container	see programme section 8 or at www.dueperthal.com
Absorber	see programme section 10 or at www.dueperthal.com

Tech specs HSC – Type 90

Technical details [kg] - **HSC Hazardous Substances Centre** [lbs]

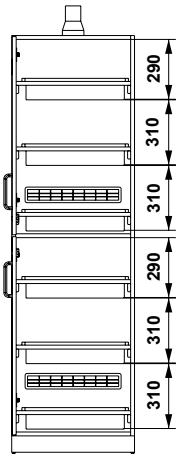
Model size		**XL**
Max. load bearing capacity	Pull-out tray	20 44.1
	Storage shelf	45 99.21

Dimensions – interior fittings/usable standing surfaces [mm] [inch]

Model size	**XL**		
	Width	Depth	Height
Storage shelf / safety storage cabinet	490 19.29	370 14.57	30 1.18
Pull-out tray/acids and lye	470 18.5	400 15.75	100 3.93
Storage chamber (per level)	560 22.05	510 20.01	275 10.83

1.6

Adjustable heights - HSC Hazardous Substances Centre: Acids and lye cabinet

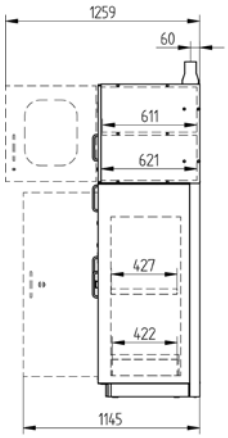


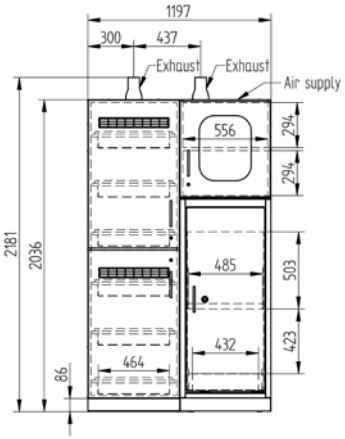
Type of container [litres] [gal]		**Container height** [mm] [inch]
Glass lab bottle	0,5 0.13	195 7.68
Glass lab bottle	1,0 0.26	235 9.25
Glass lab bottle	2,5 0.66	265 10.43

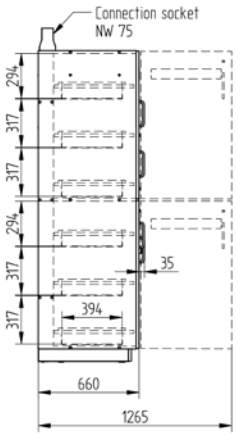
Other adjustable heights available on request.

Right side view	Front view	Left side view

HSC - Hazardous Substances Centre







ACID line 1.7

ACID line
for the storage of acids and lye

Not suitable for the storage of flammable liquids.

Your added advantage with the ACID line!

- **Health**
  Large air grids ensure optimised air exchange.
- **Safety**
  All doors of the ACID line cabinets are separately lockable to provide access control and increase security.
- **Working safety**
  Highly media-resistant safety storage cabinets for the safe storage of aggressive substances.

ACID line in detail

ACID line safety storage cabinets are optimised specifically for the storage of acids and lye. The varied additional functionalities of the cabinets of the ACID line increase workplace safety and comfort.

1 Moulded grips
Integrated moulded grips prevent slipping when drawing out the pull-out trays.

2 Damped closing of the doors
Cushioned door stoppers guarantee that the doors close gently and at a low noise level.

3 Ventilation
Prepared connection to a technical exhaust air system and air grids in the doors enables a constant air exchange.

4 Media extraction
With a large bottom tray and perforated insert, the model ACID M 6 is perfect for the safe filling of small containers, e.g. with manual pump 1.96.150.

5 Bottom tray
The bottom tray can be easily cleaned if there is contamination.

6 High media resistance
All pull-out trays are made of highly-resistant polyethylene. With the use of a polypropylene tray insert, the model ACID UTS L with drawer offers an alternative in terms of media resistance.

ACID line

The ACID line is the most reasonable solution for all working areas in which acids and lye, but no flammable substances have to be stored. The especially media-resistant safety storage cabinets fulfil all requirements for the storage of corrosive substances. The ACID UTS are particularly suitable for smaller laboratories on account of their compact size.

ACID M 1

ACID M 6

ACID XS

ACID XL

ACID UTS L

ACID UTS LT

ACID UTS ST

Interior fittings:

» Pull-out trays made of polyethylene or polypropylene.

Construction:

» Scratch, impact and wear resistant inner and outer carcass constructed from 19 mm (0.75 inch) melamine-resin-coated decor panels.
» The doors are generally hung on the left. A right-hung door can be delivered at no extra charge.

Colour standard version:

» Wing doors in light grey RAL 7035.
» Carcass completely in light grey RAL 7035.
» Base in slate grey RAL 7015.

Light grey
RAL 7035

Ordering information

		ACID M 1	ACID M 2
		2 doors	1 door
Ref. no.			
with wing door		20-200677-061L	20-200677-062L
Details		6 pull-out trays/polyethylene and base	6 pull-out trays/polyethylene and base
Dimensions			
Outer (width x depth x height)	[mm] [inch]	600 x 660 x 2040 23.62 x 25.98 x 80.31	600 x 660 x 2040 23.62 x 25.98 x 80.31
Weight	[kg] [lbs]	120 264.55	120 264.55
Ref. no.			
Additional interior fittings	**Material**		
Anti-slip mat	Rubber	29-10660-514	29-10660-514

Other accessories on page 162. Other technical details and dimensions from page 163 onwards.

Tested safety at a very high level including:

DIN EN 14727

	ACID M 3	ACID M 4	ACID M 6
	2 doors	1 door	1 door
	20-200677-065L	20-200677-066L	20-200677-072L
	4 pull-out trays/polyethylene and base	4 pull-out trays/polyethylene and base	3 pull-out trays/polyethylene, 1 side shelf and 1 bottom tray/polypropylene with perforated sheet insert and base
	600 x 660 x 2040 23.62 x 25.98 x 80.31	600 x 660 x 2040 23.62 x 25.98 x 80.31	600 x 660 x 2040 23.62 x 25.98 x 80.31
	105 231.49	105 231.49	120 264.55
	29-10660-514	29-10660-514	29-10660-514

Ordering information

		ACID XS	ACID XL
		2 doors	2 doors
Ref. no.			
With wing doors/drawer		20-131277-001	20-201277-062
Details		8 pull-out trays/polyethylene	12 pull-out trays/polyethylene
Dimensions			
Outer (width x depth x height)	[mm] [inch]	1200 x 660 x 1400 47.24 x 25.98 x 55.12	1200 x 660 x 2040 47.24 x 25.98 x 80.31
Weight	[kg] [lbs]	150 330.7	240 529.11
Ref. no.			
Additional interior fittings	**Material**		
Anti-slip mat	Rubber	29-10660-514	29-10660-514

Other accessories on page 162. Other technical details and dimensions from page 163 onwards.

Tested safety at a very high level including:

DIN EN 14727

	ACID UTS ST	ACID UTS LT	ACID UTS L
	1 door	2 doors	1 drawer
	20-060677-061	20-061177-061	20-061164-001
	2 pull-out trays/polyethylene	4 pull-out trays/polyethylene	1 tray insert/polypropylene
	560 x 660 x 635 22.05 x 25.98 x 25	1100 x 660 x 635 43.31 x 25.98 x 25	1100 x 600 x 635 43.31 x 23.62 x 25
	36 79.37	65 143.3	75 165.35
	29-10660-514	29-10660-514	29-10660-514

Accessories - varied and flexible

Adjust the cabinets of the ACID line with a variety of accessories to meet your equirements even better.
To make your workplace more efficient and safer.

Exhaust air systems
Monitoring exhaust air systems help prevent explosion risks in work areas, see programme section 7.

Transport trolley
with antistatic rollers to safely transport hazardous substances.

VisiCon safety container
with integrated sight glass and measuring scale.

Absorber cloths
Absorber cloths are specially designed for use with chemicals and are thus ideal for picking up spilled hazardous substances.

Accessories/optional extras	Ref. no.
Transport trolley for acids and lye	7.02.200
Hand pump for acids and lye - only for Model ACID M 6	1.96.150
VisiCon - safety container, 1 litre (0.26 gal)	5.90.001
VisiCon - safety container, 2 litres (0.52 gal)	5.90.002
Exhaust air system or ventilator	see programme section 7 or at www.dueperthal.com
Absorber	see programme section 10 or at www.dueperthal.com

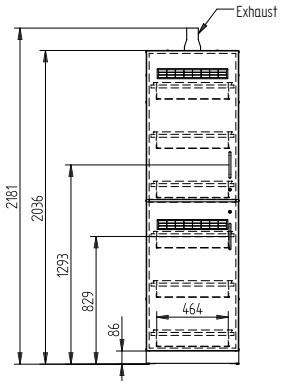
Technical specifications ACID line

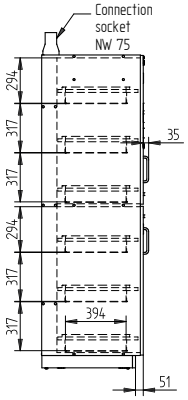
Technical details - ACID line

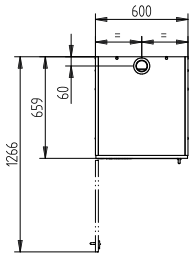
Model size			M 1 - M4	M 6	XS	XL	UTS ST	UTS LT	UTS L
Load bearing capacity	[kg] [lbs]	Pull-out tray	40 88.18	40 88.18	40 88.18	40 88.18	40 88.18	40 88.18	–
		Drawer	–	–	–	–	–	–	50 110.23
Collection volume	[l] [gal]		18 4.76	18 | 20 4.76 | 5.28	18 4.76	18 4.76	18 4.76	18 4.76	40 10.57

Front view	Side view	Top view

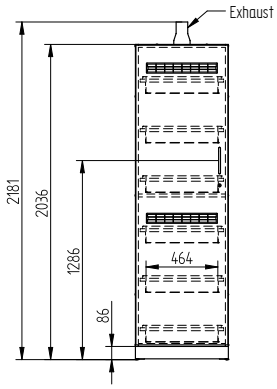
ACID M1

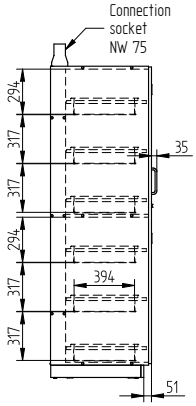


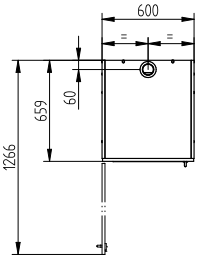




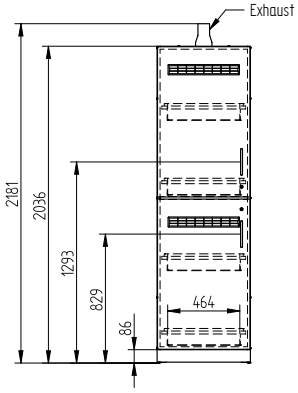
ACID M2

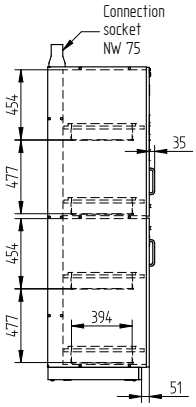


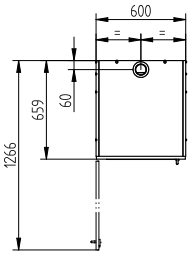




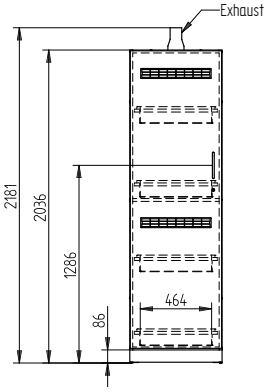
ACID M3

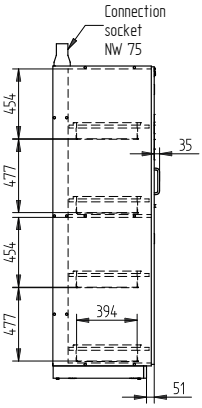


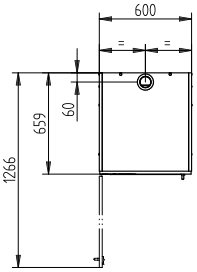




ACID M4



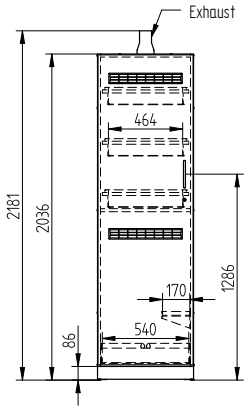


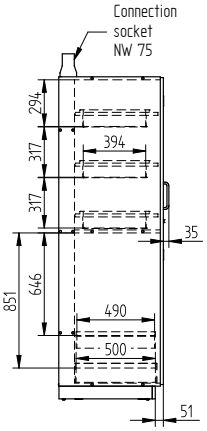


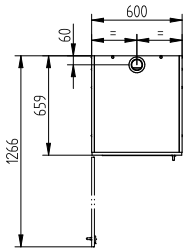
Tech specs ACID line

Front view	Side view	Top view

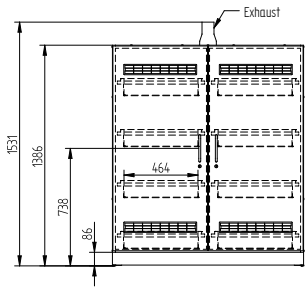
ACID M6

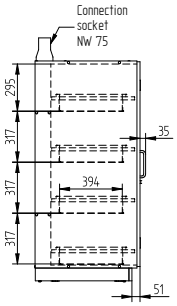


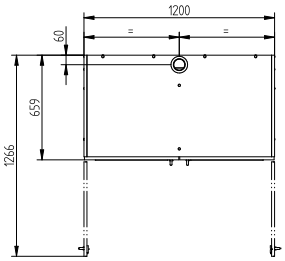




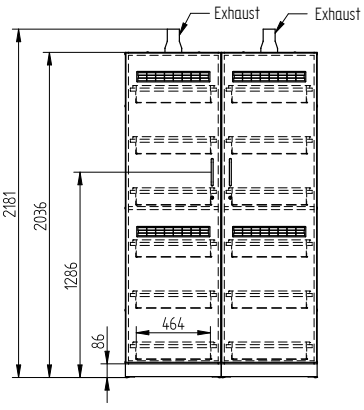
ACID XS

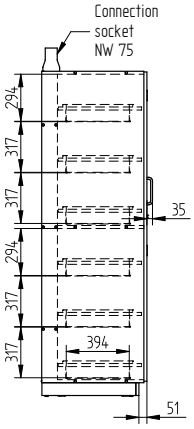


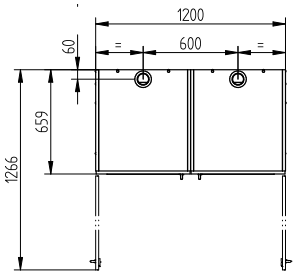




ACID XL

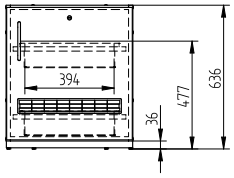


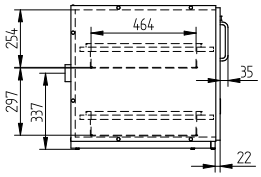


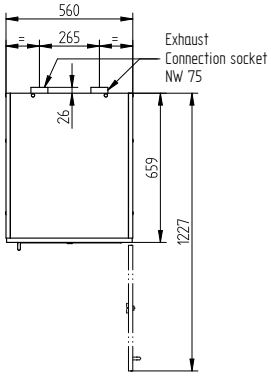


Front view	Side view	Top view

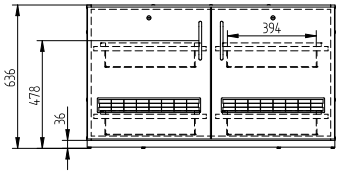
ACID UTS ST

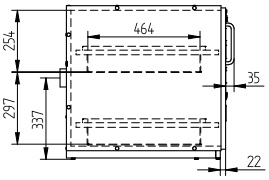


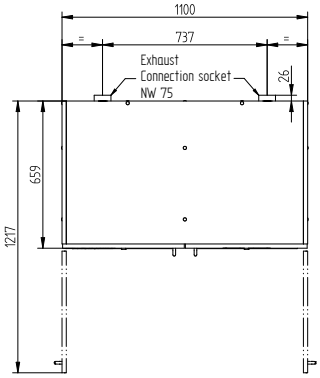




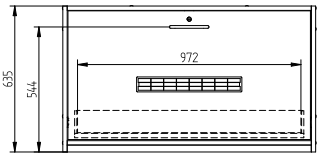
ACID UTS LT

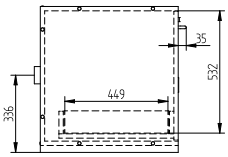


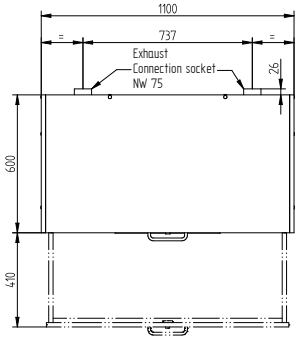




ACID UTS L







Chemical cabinets 1.8

Chemical cabinet with Type 90 unit **for flammable liquids**

Fittings and features:

- Sheet steel cabinet light grey RAL 7035
- Torsion-resistant wing doors with box gusset in light grey RAL 7035.
- Closure by turning handle security lock, closes on 3 sides.
- Magnetic pocket for DIN A5 documents.
- Height-adjustable collection trays, galvanised, 3 mm (0.12 inch) with declaration of conformity in accordance with StawaR.
- Collection tray tilt protection due to anti-lift device.
- Ventilation through ventilation openings in the rear of the cabinet.

Type 90 unit:

- Type 90 classification in accordance with DIN EN 14470-1.
- Type testing according to DIN EN 14470-1 and DIN EN 14727 by TÜV Süd.
- GS/CE mark.
- Including bottom tray and perforated sheet insert made of powder-coated sheet steel.
- Wing doors optionally in zinc yellow RAL 1018 or light grey RAL 7035.

For the safe storage of flammable substances and substances hazardous to water WGK 1-3 in small containers in accordance with the regulations. This product complies with the requirements of the German Equipment and Product Safety Act (TÜV-tested with GS mark). The collection trays are manufactured in accordance with the Water Resources Act by a specialist company.

Edge protection

Anti-lift device of the collection trays

Adjustable feet to compensate for uneven ground

Ordering information

Ref. no.		
Chemical cabinet L		39-201066-003
Details		3 collection trays
Dimensions		
Outer (width x depth x height)	[mm] [inch]	950 x 600 x 1950 37.4 x 23.62 x 76.77
Weight	[kg] [lbs]	241 531.31

Ref. no.	
Accessories/optional extras	
Additional collection tray	29-81066-125
Red-Box	2.233.04
Exhaust air system or ventilator	see programme section 7 or at www.dueperthal.com
Absorber	see programme section 10 or at www.dueperthal.com

Technical specifications - Collection trays

Dimensions (width x depth x height)	[mm] [inch]	947 x 458 x 60 37.28 x 18.03 x 2.36
Material thickness	[mm] [inch]	3 (galvanised) 0.12
Load bearing capacity with uniformly distributed load	[kg] [lbs]	75 165.35

Toxic substances and environmental cabinets 1.9-10

Environmental cabinets
for non-flammable substances

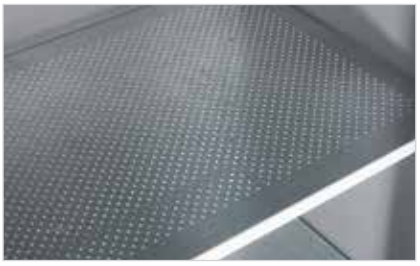
Fittings and features:

- Sheet steel cabinet signal grey, similar to RAL 7004.
- Torsion-resistant wing doors with box gusset.
- Closure by turning handle security lock, closes on 3 sides.
- Magnetic pocket for DIN A5 documents, depth 10 mm (0.25 inch).
- Bottom tray galvanised, 3 mm (0.12 inch) with declaration of conformity in accordance with StawaR.
- Height-adjustable shelves, galvanised.
- 4 adjustable feet to compensate for uneven ground.
- Ventilation through connection socket on the cabinet roof.

» Not suitable for the storage of flammable liquids.

For the safe storage of non-flammable substances and substances hazardous to water WGK 1-3 in small containers in accordance with the regulations. This product complies with the requirements of the German Equipment and Product Safety Act. The collection trays are manufactured in accordance with the Water Resources Act by a specialist company.

Bottom tray with declaration of conformity



Perforated shelves for optimal ventialation in the cabinet, height adjustable within pitch

Adjustable feet to compensate for uneven ground

Ordering information

		M	L	XL
Ref. no.				
Environmental cabinet		20-201049-010	20-201048-020	20-201047-030
Details		3 shelves, 1 bottom tray	3 shelves, 1 bottom tray	3 shelves, 1 bottom tray
Dimensions				
Outer (width x depth x height)	[mm] [inch]	594 x 612 x 2045 23.39 x 24.1 x 80.51	894 x 612 x 2045 35.2 x 24.1 x 80.51	1194 x 612 x 2045 47 x 24.1 x 80.51

Technical specifications - bottom tray

Dimensions (width x depth x height)	[mm] [inch]	580 x 560 x 68 22.83 x 22.05 x 2.68	880 x 560 x 45 34.65 x 22.05 x 1.77	1185 x 560 x 35 46.65 x 22.05 x 1.38
Material thickness	[mm] [inch]	3 (galvanised) 0.12	3 (galvanised) 0.12	3 (galvanised) 0.12
Collection volume	[l] [gal]	20 5.28	20 5.28	20 5.28
Shelf load bearing capacity with uniformly distributed load	[kg] [lbs]	75 165.35	75 165.35	75 165.35

Toxic substances cabinet
for non-flammable substances

Fittings and features:

- Approved for the storage of max. 200 kg (440.92 lbs) of toxic substances of class T, max. 50 kg (110.23 lbs) of highly toxic substances T+.
- Sheet steel cabinet light grey RAL 7035
- Torsion-resistant wing doors with box gusset.
- Closure by turning handle, closes on 3 sides.
- High-quality safety lock for increased protection against break-ins.
- Bracket for poison book DIN A4, depth 15 mm (0.59 inch).
- Bottom tray galvanised, material thickness 3 mm (0.12 inch) with declaration of conformity in accordance with StawaR.
- Including 3 perforated shelves.
- 4 adjustable feet to compensate for uneven ground.
- Ventilation via connection socket (NW 75/2.95) on the cabinet roof.

» Not suitable for the storage of flammable liquids.

For the safe storage of non-flammable, toxic substances in accordance with the regulations. This product complies with the requirements of the German Equipment and Product Safety Act. The bottom tray is manufactured in accordance with the Water Resources Act by a specialist company.

Integrated bracket for poison book

Perforated shelves for optimal ventialation in the cabinet, height adjustable within pitch

Bottom tray with declaration of conformity and adjustable feet to compensate for uneven ground

Ordering information

Ref. no.		
Toxic substances cabinet L		20-201045-011
Details		3 shelves
Dimensions		
Outer (width x depth x height)	[mm] [inch]	950 x 420 x 1950 37.4 x 16.54 x 76.77

Ref. no.		
Accessories/optional extras		
Additional shelf (galvanised)		20-81045-124

Technical specifications - bottom tray

Dimensions (width x depth x height)	[mm] [inch]	935 x 365 x 63 36.81 x 14.37 x 2.48
Material thickness	[mm] [inch]	3 (galvanised) 0.12
Collection volume	[l] [gal]	20 5.28
Shelf load bearing capacity with uniformly distributed load	[kg] [lbs]	75 165.35

BASIC line 1.11

BASIC line
for a fire protection of 30 minutes

Your added advantage with the BASIC line!

- **Health**
  Ventilation on each cabinet level provides optimised air exchange.
- **Safety**
  In case of fire, a thermocouple automatically initiates the uninterrupted closing of the doors.
- **Working safety**
  Equipotential bonding screws as a standard in the cabinet help prevention of spark formation.

BASIC line in detail

For the economic storage of hazardous substances with a 30 minute fire protection concept - the simple way to achieve a higher safety level at your workplace.

1 Classical wing door technology
Easy-moving wing door technology is the correct solution for a multitude of possible applications.

2 Self-closing in case of fire
Doors with integrated arrest system as a standard. This way containers can be put in and removed with both hands. In case of fire the thermocouple closes the door or retracts the drawer automatically.

3 Storage shelves
Storage shelves offer the largest storage capacity and ideal use of space due to their height adjustment at a pitch of 32 mm (1.26 inch).

4 Ergonomics
Ergonomic lock layout at handle level and integrated locking cylinder in the easy-moving doors and drawers.

5 Damped closing of the doors
Cushioned door stoppers guarantee that the doors/drawers close gently and at a low noise level.

6 Adjustable feet
Adjustable feet with extra large bearing surface for easy alignment and level equalisation from inside and out.

BASIC line – Type 30

Safety storage cabinets with 30 minutes of fire protection for the economic storage of hazardous substances in working areas, according to TRGS 510.

BASIC XL

BASIC M

BASIC UTS line – Type 30

The safety storage cabinets of the BASIC UTS line are especially designed for the storage of flammable hazardous substances close to where they are needed. With a fire resistance of 30 minutes, they offer a minimum level of safety at the workplace.

BASIC UTS BST-5

BASIC UTS BLT-5

BASIC UTS BLK-5

Interior fittings:

» Bottom shelves and bottom trays, optionally made of powder-coated sheet steel or stainless steel.

Construction:

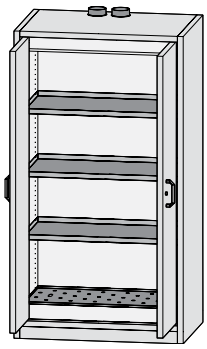
» Complete cabinet unit made of high-quality, flame-retardant decor panels.
» The doors are generally right-hinged for one-door cabinets. A left-hung door can be delivered on request for no additional charge.

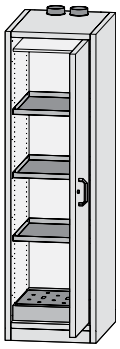
Colour standard version:

» Wing doors/drawers in grey, similar to RAL 7035 - microperl.
» Carcass completely in grey, similar to RAL 7035 - microperl.
» Base in slate grey RAL 7015.

similar to:
Light grey
RAL 7035

Ordering information



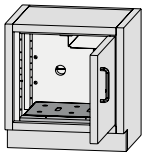


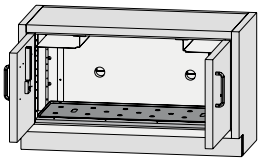
		BASIC XL		BASIC M	
		with storage shelves		with storage shelves	
Ref. no.					
with wing door/drawer		23-201260-401		23-200660-401	
Details		3 storage shelves, 1 bottom tray, 1 perforated sheet insert and base		3 storage shelves, 1 bottom tray, 1 perforated sheet insert and base	
Dimensions		Outer	Inner	Outer	Inner
Width	[mm] [inch]	1195 47.05	1119 44.05	595 23.43	519 47.05
Depth	[mm] [inch]	595 23.43	470 18.5	595 23.43	470 18.5
Height	[mm] [inch]	2075 81.69	1600 63	2075 81.69	1600 63
Weight	[kg] [lbs]	278 612.89		147 324.08	
Storage capacity/standing surface (approx. data)					
Size	[400 ml/11 oz] [1,0 l/0.26 gal] [1,0 l/0.26 gal] [2.5 l/0.66 gal]	120 spray cans 47 cans 55 glass lab bottles 22 glass lab bottles		53 spray cans 19 cans 24 glass lab bottles 9 glass lab bottles	
Ref. no.					
Additional interior fittings	**Material**				
Storage shelf	Sheet steel	23-81260-114		23-80660-114	
Anti-slip mat	Rubber	29-81260-514		29-80660-514	
Locker (door hung left)		29-50000-036L		29-50000-036L	
Locker (door hung right)		29-50000-036		29-50000-036	

Other accessories on page 185. Other technical details and dimensions from page 186 onwards.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727



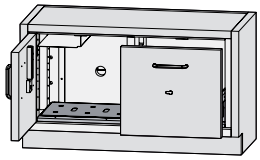


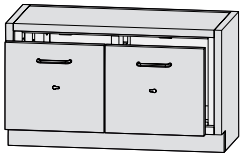
	BASIC UTS BS-5		BASIC UTS BST-5		BASIC UTS BLT-5	
	with drawer		with bottom tray		with bottom tray	
	23-060654-401		23-060650-401		23-061150-401	
	1 drawer, 1 perforated sheet insert and base		1 bottom tray, 1 perforated sheet insert and base		1 bottom tray, 1 perforated sheet insert and base	
	Outer	Inner	Outer	Inner	Outer	Inner
	595 23.43	453 17.83	595 23.43	453 17.83	1095 44.05	934 36.77
	500 19.69	423 16.65	500 19.69	423 16.65	500 19.69	423 16.65
	635 25	355 13.98	635 25	358 14.01	635 25	358 14.01
	59 130.07		59 130.07		91 200.62	
	29 spray cans 10 cans 12 glass lab bottles 5 glass lab bottles		32 spray cans 12 cans 14 glass lab bottles 5 glass lab bottles		85 spray cans 30 cans 36 glass lab bottles 15 glass lab bottles	
	–		–		–	
	29-90650-514		29-90650-514		29-91150-514	
	–		–		–	
	–		–		–	

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

Ordering information





	BASIC UTS BLK-5	BASIC UTS BLD-5
	with bottom tray and drawer	with drawer
Ref. no.		
with wing door/drawer	23-061153-401	23-061155-401
Details	1 drawer, 1 bottom tray, 2 perforated sheet inserts and base	2 drawers, 2 perforated sheet inserts and base
Dimensions	Outer / Inner	Outer / Inner
Width [mm] [inch]	1095 43.13 / **L:** 452 | **R:** 452 17.8 17.8	1095 43.13 / **L:** 452 | **R:** 452 17.8 17.8
Depth [mm] [inch]	500 19.69 / 423 16.65	500 19.69 / 423 16.65
Height [mm] [inch]	635 25 / **L:** 358 | **R:** 355 14.1 13.98	635 25 / **L:** 355 | **R:** 355 13.98 13.98
Weight [kg] [lbs]	111 244.71	111 244.71
Storage capacity/standing surface (approx. data)		
Size [400 ml/11 oz] [1.0 l/0.26 gal] [1.0 l/0.26 gal] [2.5 l/0.66 gal]	34/29 spray cans 12/10 cans 15/12 glass lab bottles 6/5 glass lab bottles	29/29 spray cans 10/10 cans 12/12 glass lab bottles 5/5 glass lab bottles
Ref. no.		
Additional interior fittings / **Material**		
Anti-slip mat / Rubber	29-90650-514	29-90650-514

Other accessories on page 185. Other technical details and dimensions from page 186 onwards.

Accessories - varied and flexible

Adapt the cabinets of the BASIC line to your needs even better with the large variety of accessories offered.
To make your workplace more efficient and safer.

Exhaust air systems
Monitoring exhaust air systems help prevent explosion risks in work areas, see programme section 7.

Earthing cables
Through the equipotential bonding saddles on the cabinet as a standard and an additional earthing cable with crocodile clip in the interior, conductive containers can be directly connected to the earthing cable as per TRGS 727.

Transport trolleys
Optional transport trolleys are available with antistatic rollers to safely transport hazardous substances, see programme section 9.

Pipe penetration
Safety storage cabinets can be adapted to your requirements by incorporating additional penetrations for pipes, hoses and cables.

Red-Box
for safely storing documents exactly where they are needed.

Absorber cloths
Absorber cloths are specially designed for use with chemicals and are thus ideal for picking up spilled hazardous substances.

Locker
bolted directly in the safety storage cabinet as additionally protected access control (see additional interior fittings).

Anti-slip mat
Anti-slip mats can prevent containers from inadvertently slipping. So everything stays where it belongs (see additional interior fittings).

Accessories:	**Ref. no.:**
Pipe penetration (reclosable)	on request
Pipe penetration	29-70000-048
Red-Box	2.233.04
Optional extras:	
Transport trolley for flammable media	7.02.100
Earthing cable with crocodile clip	1.806.63
Exhaust air system or ventilator	see programme section 7 or at www.dueperthal.com
Safety container	see programme section 8 or at www.dueperthal.com
Absorber	see programme section 10 or at www.dueperthal.com

Tech specs BASIC line – Type 30

Technical details - BASIC standard

Model size		**XL**	**M**
Load bearing capacity with uniformly distributed load (maximum load capacity/shelf)	[kg] [lbs]	75 165.35	40 88.18
Maximum volume of the largest individual container that may be placed on the respective standing surface of the cabinet	[l] [gal]	46 12.15	21 5.55
Collection volume of bottom tray	[l] [gal]	51 13.47	23 6.08
Volumetric flow rate with 10-fold air exchange	approx. [m^3/h] approx. [cubic ft/h]	10 353.1	5 176.55
Pressure drop in the cabinet	[Pa] [Psi]	<1 <1	<1 <1

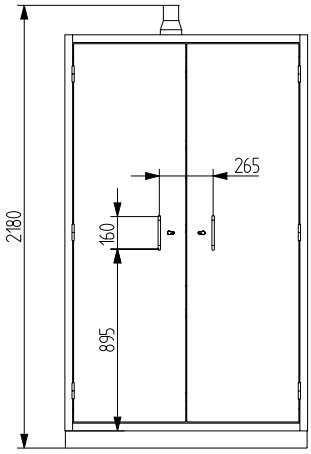
Dimensions – interior fittings [mm] **- BASIC line**
[inch]

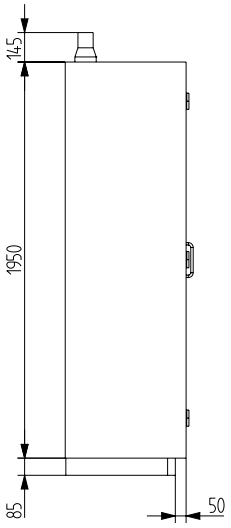
Model size	**XL**			**M**		
	Width	Depth	Height	Width	Depth	Height
Storage shelf	1115 43.9	458 18.03	35 1.38	515 20.78	458 18.03	35 1.38
Bottom tray	1115 43.9	458 18.03	100 3.93	515 20.78	458 18.03	100 3.93
Perforated sheet insert	1106 43.54	449 17.68	100 3.93	506 19.92	449 17.68	100 3.93

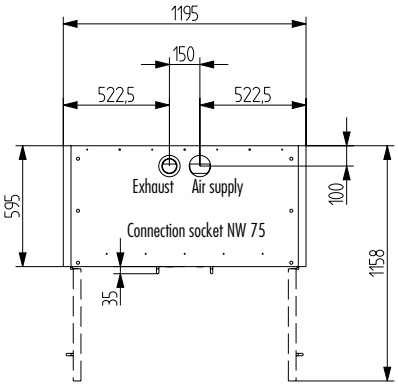
Tech specs BASIC line – Type 30

Front view	Side view	Top view

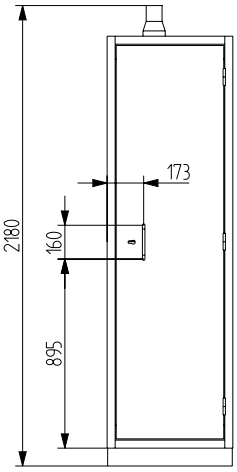
BASIC XL

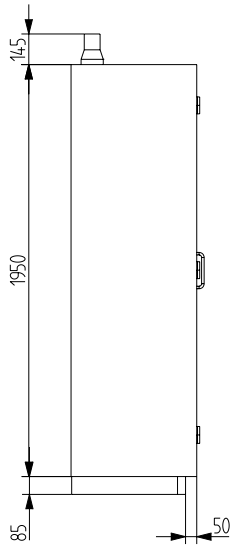


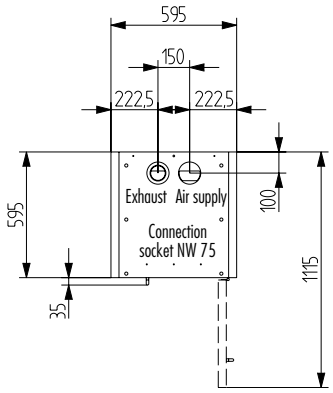




BASIC M







Tech specs BASIC UTS line – Type 30

Technical details - BASIC UTS line

Model size			BS-5	BST-5	BLT-5	BLK-5	BLD-5
Load bearing capacity with uniformly distributed load (maximum load capacity/shelf)	[kg] [lbs]	Bottom tray	30 66.14	30 66.14	30 66.14	30 66.14	30 66.14
		Drawer				30 66.14	
Maximum volume of the largest individual container that can be stored on the respective standing surface of the cabinet	[l] [gal]	Bottom tray	7 1.85	16 4.23	35 9.25	16 4.23	7 1.85
		Drawer				7 1.85	
Collection volume of bottom tray	[l] [gal]	Bottom tray	8 2.11	18 4.76	38,5 10.17	18 4.76	8 2.11
		Drawer				8 2.11	
Volumetric flow rate with 10-fold air exchange	approx. [m³/h] approx. [cubic ft/h]		1,2 42.37	1,2 42.37	2,5 88.28	2,5 88.28	2,5 88.28
Pressure drop in the cabinet	[Pa] [Psi]		<1 <1	<1 <1	<1 <1	<1 <1	<1 <1

Dimensions – interior fittings [mm] **- BASIC UTS line**
[inch]

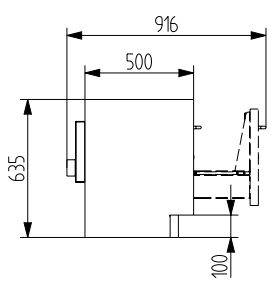
Model size	BS-5			BST-5			BLT-5			BLK-5 Door side | Drawer			BLD-5 per drawer		
	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height
Storage shelf	–	–	–	450 17.72	350 13.78	35 1.38	940 37.01	350 13.78	35 1.38	450 | – 17.7 | –	350 | – 13.8 | -	35 | – 1.4 | -	–	–	–
Bottom tray /drawer	410 16.14	341 13.43	125 4.92	450 17.72	350 13.78	130 5.12	940 37.01	350 13.78	130 5.12	450 | 402 17.7 | 15.8	350 | 341 13.8 | 13.4	130 | 125 5.1 | 4.9	402 15.83	349 13.74	125 4.92
Perforated sheet insert	392 15.43	331 13.03	60 2.36	445 17.52	342 13.46	120 4.72	935 36.81	342 13.46	120 4.72	445 | 392 17.5 |15.4	342 | 331 13.5 | 13	120 | 60 4.7 | 2.4	392 15.43	331 13.03	60 2.36

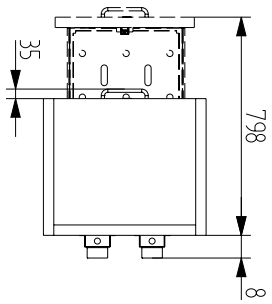
Max. container heights - BASIC UTS line [mm]
[inch]

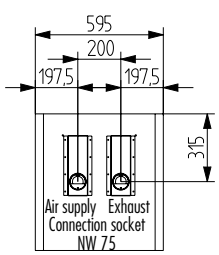
Model size	BS-5	BST-5	BLT-5	BLK-5 Door side | Drawer	BLD-5 per drawer
with perforated sheet	355 13.98	358 14.1	358 14.1	358 | 355 14.1 | 13.98	355 13.98
without perforated sheet	415 16.34	478 18.92	478 18.92	478 | 415 18.92 | 16.34	415 16.34

Side view | Top view | Rear view

BASIC UTS BS-5



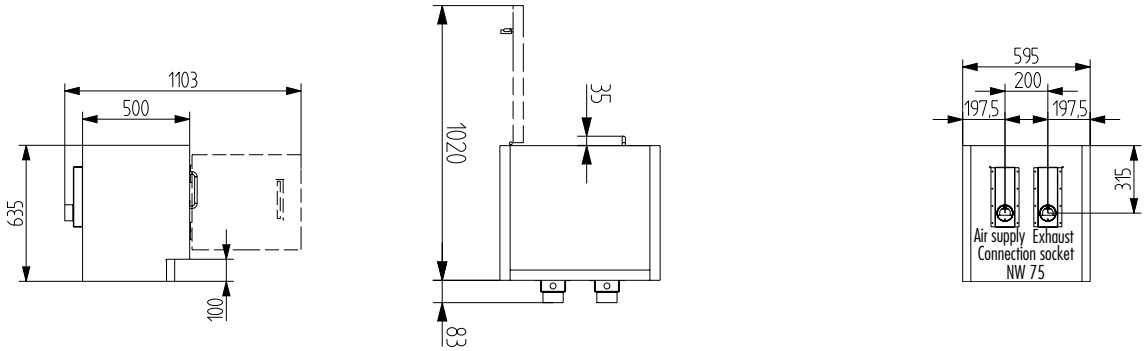




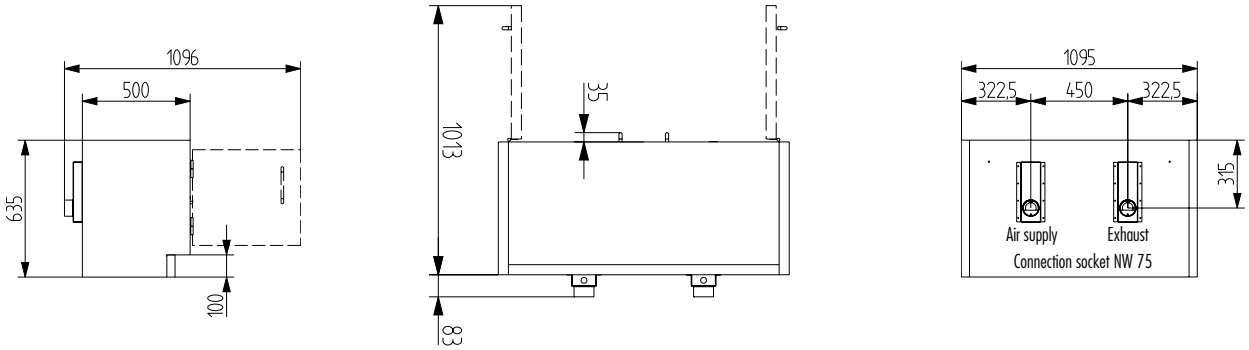
Tech specs BASIC UTS line UTS - Type 30

Side view	Top view	Rear view

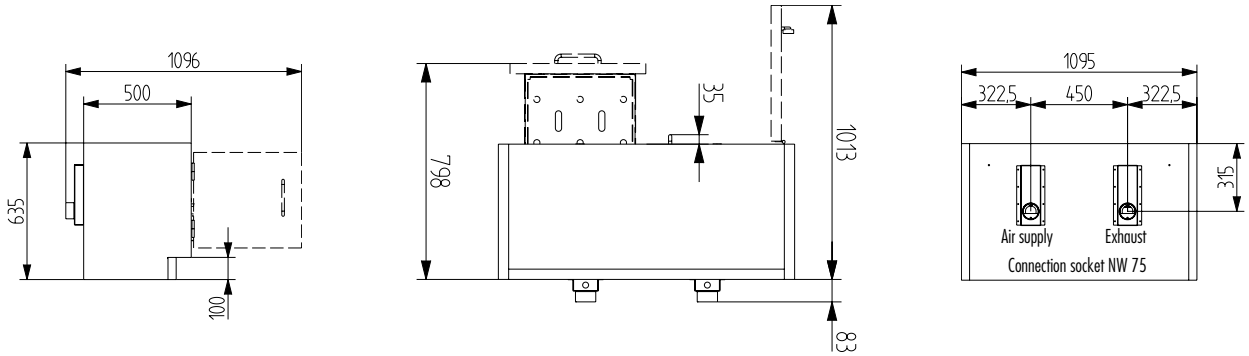
BASIC UTS BST - 5



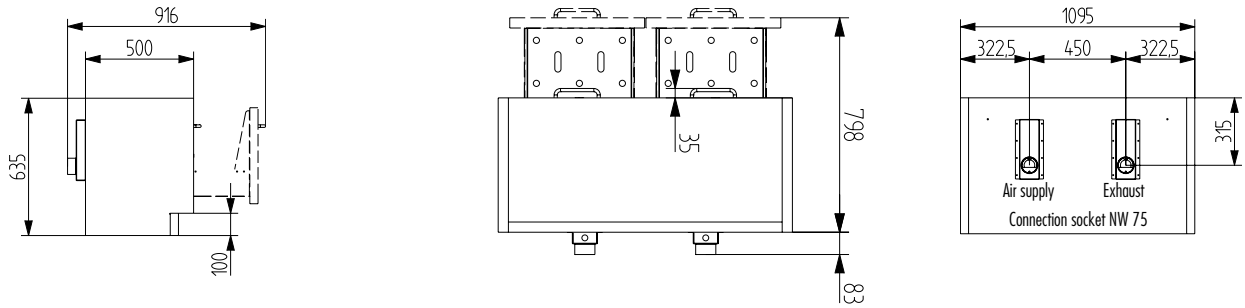
BASIC UTS BLT - 5



BASIC UTS BLK - 5



BASIC UTS BLD - 5



Active storage
of flammable liquids

2

Safe storage - both active and passive

There are different technical and administrative requirements for the active and passive storage of flammable liquids. How will you store your chemicals? It is best if you determine how substances will be stored at your workplace or laboratory during the planning of installations. Below, you will find some important aspects of active and passive storage.

Passive storage

- Liquids or solids are stored in sealed containers.
- No filling or transferring takes place in or at the cabinet.
- Your safety storage cabinet serves only as a storage location.

Active storage

- Flammable liquids are stored in open or unsealed containers.
- Chemicals are filled or transferred in or at the safety storage cabinet.
- Your safety storage cabinet is actively connected to your processes. It is a storage location - and a workplace.

Maximum protection with a system – tailored to your processes

As soon as you begin with active storage, you must take different requirements into account in your risk assessment (acc. to TRGS 400) and the associated explosion protection documents: these include requirements of TRGS 526 and TRGS 510 Annex 3, but also additional points of TRGS 509, TRGS 727 and DIN EN 60079-10.

Proactive working safety

The DÜPERTHAL safety storage cabinets for active storage guarantee you conformity with the regulations and their construction offers a firm foundation for efficient workflows. This enables us to offer you individual solutions optimally tailored to your processes.

Your technical advantage

- Optimal management of liquids during supply and disposal.
- The risk of an accident due to overfilling is minimised.
- Effective and monitored object and air curtain extraction when filling as well as ventilation in each cabinet level ensure the reduction of explosive atmosphere and increase health protection.
- The integrated earthing concept includes inner and outer conductive surfaces as well as the connection of all electrically conductive components with the potential connection to the cabinet body.

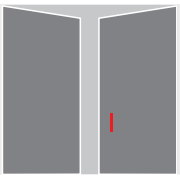
Your economic advantage

- Decentralised storage with media available directly at the workplace means work simplification and time saving.
- Safety processes can be optimized and defined for simple documentation in your risk assessment.
- The explosion protection concept recommended in the GS certification can be incorporated in the explosion protection document and facilitates the documentation.
- Falling consumption of chemicals reduces procurement and disposal costs and spares the environment (CO2 balance).

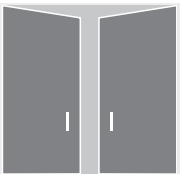
Safety storage cabinets for active storage of flammable liquids

Door technologies

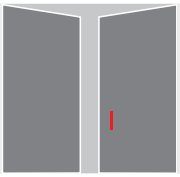
2.1 TAP line — Type 90



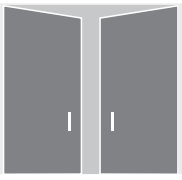
2.2 SUPPLY line — Type 90



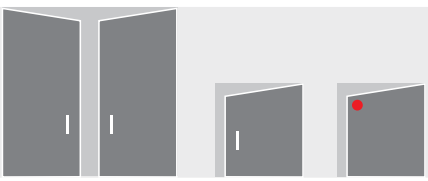
2.3 COMPLEX line — Type 90



2.4 ACTCOM line — Type 90



2.5 DISPOSAL [UTS ergo|BENCH] line
HPLC service station — Type 90



2.6 VisiCon® Waste Collection System

from page

Supply systems: canister cabinets
with canister shelves, drip trays and exhaust air monitor

198

Supply systems: drum cabinets
with exhaust air monitor

209

Supply systems: drum stations
with media pump, extraction point and exhaust air monitoring

219

Supply and disposal systems
with collection container, exhaust air monitor and fill level monitor

227

Disposal systems
with collection container, exhaust air monitor and fill level monitor

233

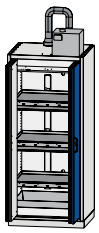
Collection system
Collect media flexibly and centrally

255

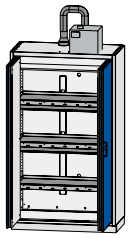
Active Storage Type 90 - Supply at a glance

TAP line - canister cabinets with canister shelves, drip trays and exhaust air monitor

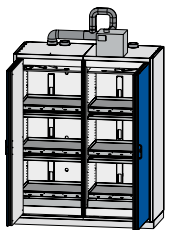
Dimensions [mm] [inch]	Width	Depth	Height
TAP LL	895 35.24	745 29.33	2080 81.89
TAP XL	1195 47.05	595 23.43	2080 81.89
TAP XXL	1655 65.16	745 29.33	2080 81.89



TAP LL



TAP XL



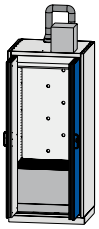
TAP XXL

Max. volume of largest individual container [l]/[gal]	60/15.85	43/11.36	60/15.85

SUPPLY line – drum cabinets with exhaust air monitor

Dimensions [mm] [inch]	Width	Depth	Height
SUPPLY LL 1-2	895 35.24	745 29.33	2080 81.89

SUPPLY LL 1

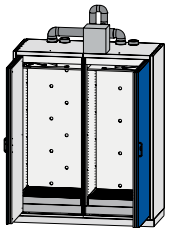


SUPPLY LL 2

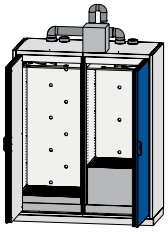
Max. volume of largest individual container [l]/[gal]	60/15.85	200/52.83

SUPPLY line – drum cabinets with exhaust air monitor

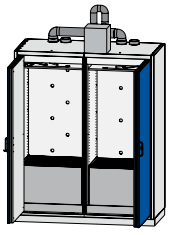
Dimensions [mm] [inch]	Width	Depth	Height
SUPPLY XXL 1-3	1665 65.55	745 29.33	2080 81.89



SUPPLY XXL 1



SUPPLY XXL 2

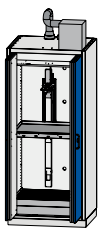


SUPPLY XXL 3

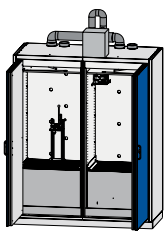
Max. volume of largest individual container [l]/[gal]	**L:** 60/15.85 **R:** 60/15.85	**L:** 60/15.85 **R:** 200/52.83	**L:** 200/52.83 **R:** 200/52.83

COMPLEX line - drum stations with media pump, filling point and exhaust air monitor

Dimensions [mm] [inch]	Width	Depth	Height
COMPLEX LL	895 35.24	745 29.33	2080 81.89
COMPLEX XXL	1655 65.16	745 29.33	2080 81.89



COMPLEX LL



COMPLEX XXL

Max. volume of largest individual container [l]/[gal]	60/15.85	**L:** 200/52.83 **R:** 200/52.83

Active Storage Type 90 - Disposal at a glance

ACTCOM line and DISPOSAL line with collection containers and exhaust air monitor

Dimensions [mm] [inch]	Width	Depth	Height
ACTCOM XL	1195 47.05	595 23.43	2080 81.89
DISPOSAL M	595 23.43	595 23.43	2080 81.89
DISPOSAL XL	1195 47.05	595 23.43	2080 81.89

ACTCOM XL

DISPOSAL XL

DISPOSAL M

Max. volume of largest individual container [l]/[gal]	ACTCOM XL	DISPOSAL XL	DISPOSAL M
	30/7.93	60/15.85	60/15.85

DISPOSAL UTS ergo line, DISPOSAL BENCH line, HPLC service station with exhaust air monitor

Dimensions [mm] [inch]	Width	Depth	Height
DISPOSAL UTS ergo S	600 23.62	593 23.34	631 24.84

DISPOSAL UTS ergo S 1

DISPOSAL UTS ergo S 2

DISPOSAL UTS ergo S 3

Max. volume of largest individual container [l]/[gal]	DISPOSAL UTS ergo S 1	DISPOSAL UTS ergo S 2	DISPOSAL UTS ergo S 3
	5/1.32	10/2.64	10/2.64

Dimensions [mm] [inch]	Width	Depth	Height
DISPOSAL UTS ergo LD	1100 43,31	593 23.34	631 24.84
DISPOSAL BENCH S	600 23.62	593 23.34	831 32.71
HPLC Service-Station	900 35.43	750 29.53	745 29.33

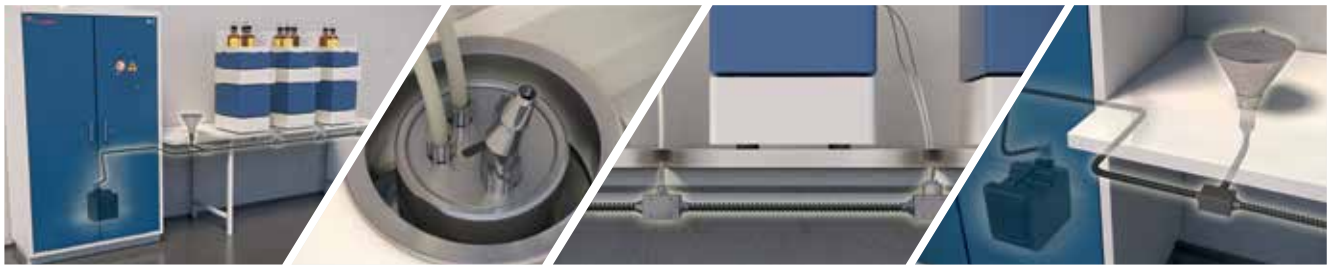
UTS ergo LD

DISPOSAL BENCH S

HPLC Service-Station

Max. volume of largest individual container [l]/[gal]	UTS ergo LD	DISPOSAL BENCH S	HPLC Service-Station
	L: 10/2.64 **R:** 10/2.64	20/5.28	10/2.64

VisiCon® Waste collection system - Collect media flexibly and centrally



Detailed information from programme section 2.6

TAP line 2.1

Safety storage cabinets
for supply from canisters

Your added advantage with the TAP line!

- **Health**
  Object and air curtain extraction during filling and ventilation in each cabinet level.
- **Safety**
  Safe media extraction from canisters and drums into smaller containers in accordance with TRGS 509.
- **Working safety**
  Conductive powder coating as a standard and integrated earthing system according to TRGS 727.

TAP line in detail

The TAP line safety storage cabinets are ideal for efficiently and safely withdrawing media.
All cabinets of the TAP line have a wide range of additional functions that make working easier and safer.

1 Wing door technology
The wing doors can be opened with minimal effort. In case of fire, a thermocouple automatically closes the doors without blocking.

2 Media extraction
Storage in accordance with TRGS 510 and safe media extraction from canisters and drums in accordance with TRGS 509.

3 Canister shelves
The layout of the canister shelves allows optimum use of space. The integrated drip trays can easily be inserted and automatically move to the front after the end of the filling process.

4 Air curtain extraction
Object and air curtaindirectly at the canister tap minimize the explosive atmosphere during the filling process.

5 Ventilation monitoring
The exhaust air monitoring unit integrated as a standard monitors the required exhaust air flow rate.

6 Prevention of ignition hazards
The electrically conductive interior fittings and earthing cables with crocodile clips are conductively connected to the equipotential bonding saddles on the cabinet roof in accordance with TRGS 727.

TAP line – Type 90

The TAP line Type 90 from DÜPERTHAL is specially designed to remove media from canisters and small drums. This allows more flexible work processes and a more efficient organisation of the internal value chain. This effectively leads to the release of resources, which can be used actively and on a results-orientated basis for scientific research.

TAP LL

TAP XL

Interior fittings:

» Canister shelves, drip trays and bottom tray made of conductive, powder-coated sheet steel.
Interior fittings are also possible in various stainless steel versions.

Colour standard version:

» Wing doors in gentian blue, similar to RAL 5010.
» Complete carcass in light grey, similar to RAL 7035.
» Base in slate grey RAL 7015.

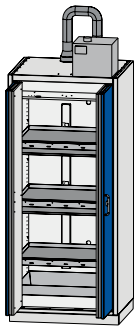
Construction:

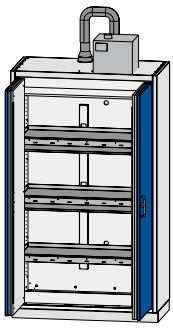
» Wing doors made of conductive powder-coated sheet steel.
» Outer carcass made of conductive powder-coated sheet steel.
» Inner carcass made of conductive powder-coated sheet steel.

Gentian blue
RAL 5010

Light grey
RAL 7035

Ordering information





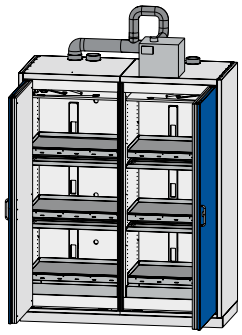
		TAP LL	TAP XL
		with one-hand wing door technology	with one-hand wing door technology
Ref. no.			
With exhaust air monitoring unit and ventilator		49-200971-027	49-201261-027
With exhaust air monitoring unit		49-200971-028	49-201261-028
Details		3 canister shelves, 2 drip trays, 12 earthing cables with crocodile clips, 1 bottom tray and base	3 canister shelves, 2 drip trays, 15 earthing cables with crocodile clips, 1 bottom tray and base
Dimensions			
Outer (width x depth x height)	[mm] [inch]	895 x 745 x 2080 35.24 x 29.33 x 81.89	1195 x 595 x 2080 47.05 x 23.43 x 81.89
Inner (width x depth x height)	[mm] [inch]	799 x 595 x 1830 31.46 x 23.43 x 72.05	1099 x 446 x 1830 43.27 x 17.56 x 72.05
Weight	[kg] [lbs]	442 974.44	469 1033.97
Storage capacity/standing surface (approx. data)			
Size	[5 l/1.32 gal] [10 l/2.64 gal] [20 l/5.28 gal] [5 l/1.32 gal] [10 l/2.64 gal]	5 PE canisters 3 PE canisters (conductive) 3 PE canisters (conductive) 5 Stainless steel canisters 5 Stainless steel canisters	7 PE canisters 5 PE canisters (conductive) – 7 Stainless steel canisters 7 Stainless steel canisters

Ref. no. **Additional interior fittings**	**Material**		
Bottom tray, canister shelf and drip tray	Stainless steel V2A	on request	on request
Bottom tray, canister shelf and drip tray	Stainless steel V4A	on request	on request
Insert for drip tray	PE-el	on request	on request

Other accessories on page 206. Other technical details and dimensions from page 207 onwards.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727



TAP XXL

with classical wing door technology

49-201773-027	
49-201773-028	
6 canister shelves, 4 drip trays, 24 earthing cables with crocodile clips, 2 bottom trays and base	
1665 x 745 x 2080 65.55 x 29.33 x 81.89	
L/R: 744 x **L/R:** 595 x **L/R:** 1830 **L/R:** 29.29 x **L/R:** 23.43 x **L/R:** 72.05	
895 1373.14	
10 PE canisters 6 PE canisters (conductive) 6 PE canisters (conductive) 8 Stainless steel canisters 8 Stainless steel canisters	
on request	
on request	
on request	

Accessories - varied and flexible

Adjust your DÜPERTHAL safety storage cabinet to meet your requirements even better with a variety of accessories. To make your workplace more efficient and safer.

Pipe penetration
for stainless steel pipes, cables and hoses up to Ø 28 mm (1.1 inch).

Red-Box
for safely storing documents exactly where they are needed.

Transport trolley
in conductive design with antistatic rollers to safely transport hazardous substances.

Unlocking system with RFID card
The DÜPERTHAL safety storage cabinets are optimally suited for the unlocking mechanism with RFID user card with MPS-1.

Accessories	**Ref. no.**
Cabi2Net	on request
MPS-1 with automatic locking system	50-30000-920
Pipe penetration (reclosable)	on request
Pipe penetration	49-70000-048
Red-Box	2.233.04

Optional extras	
Transport trolley for flammable media	7.02.100
VisiCon - safety container, 1 litre (0.26 gal)	5.90.001
VisiCon - safety container, 2 litres (0.51 gal)	5.90.002
Stainless steel canister, 5 litres (1.32 gal)	3.85.005
Stainless steel canister, 10 litres (2.64 gal)	3.85.010
Dispensing tap for stainless steel canisters 3.85.005 and 3.85.010	3.85.200
Earthing cable with crocodile clip	1.806.63
Absorber	see programme section 10 or at www.dueperthal.com

Tech specs TAP line - Type 90

Technical details - TAP line

Model size		LL	XL	XXL
Load bearing capacity with uniformly distributed load (maximum load capacity/shelf)	[kg] [lbs]	75 165.35	75 165.35	75 165.35
Maximum volume of the largest individual container that may be placed on the respective standing surface of the cabinet	[l] [gal]	60 15.85	43 11.36	60 15.85
Collection volume of bottom tray	[l] [gal]	66 17.44	48 12.68	66 17.44
Volumetric flow rate with 10-fold air exchange	approx. [m^3/h] approx. [cubic ft/h]	10 353.1	10 353.1	20 706.2
Required extraction flow rate for filling and transferring (active storage*)	approx. [m^3/h] approx. [cubic ft/h]	>21 >750	>21 >750	>42 >1490
Pressure drop in the cabinet	[Pa] [Psi]	<1 <1	<1 <1	<1 <1

*** Note**

The continuously upcoming (24h) exhaust air flow rate of the installation must be monitored during filling and transferring (active storage) to detect failure of the required air stream and to at least trigger an alarm.

Dimensions – interior fittings [mm] - TAP line
[inch]

Model size	LL			XL			XXL		
	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height
Canister shelf	790 31.1	520 20.47	35 1.38	1095 43.11	370 14.57	35 1.38	735 28.94	520 20.47	35 1.38
Drip tray	781 30.75	307 12.09	35 1.38	1091 42.95	307 12.09	35 1.38	736 28.98	307 12.09	35 1.38
Bottom tray	785 30.91	590 23.23	155 6.1	1085 42.72	440 17.32	105 4.13	745 29.33	590 23.23	517 20.35

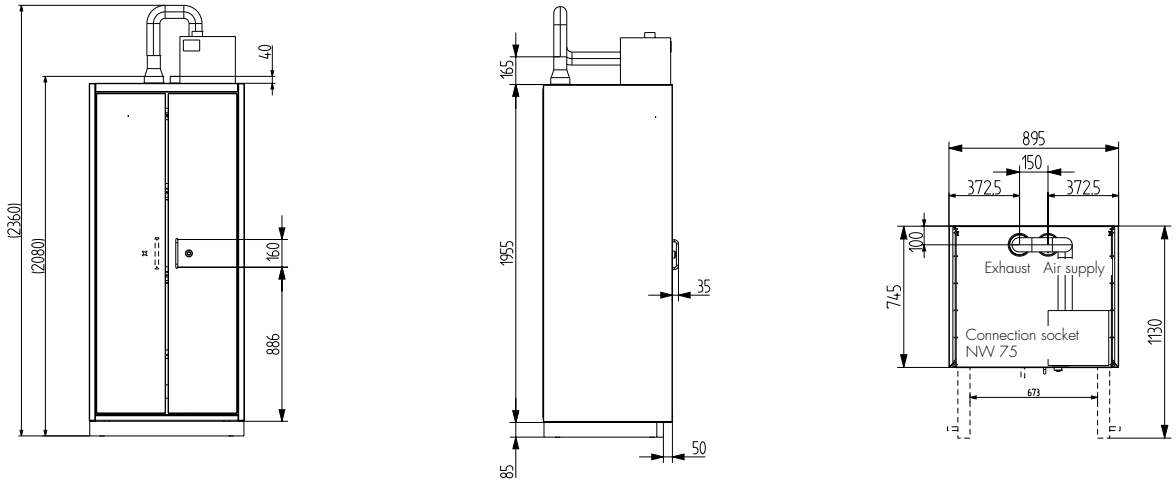
Zoning

When the required extraction volume flow is complied with, in general the ratio to the filling volume flow is sufficient, so that the lower explosion protection limit (UEG) is exceeded for a short time only. Therefore, an ex-zone 2 can be expected in the cabinet interior and at the extraction point. Within the scope of the risk assessment, the explosion protection limits must be considered. It may be necessary to adjust the exhaust air flow rate or the ex-zones.

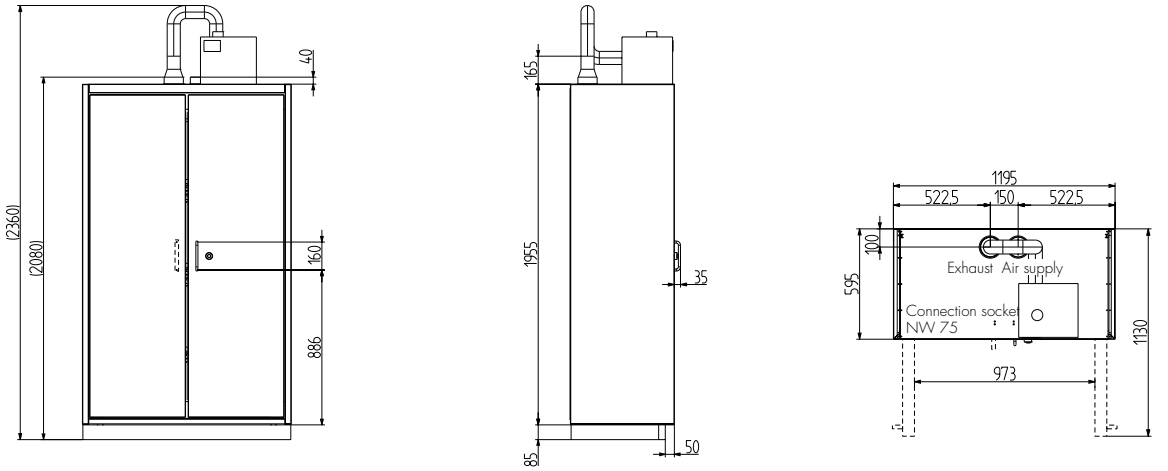
Tech specs TAP line - Type 90

Front view	Side view	Top view

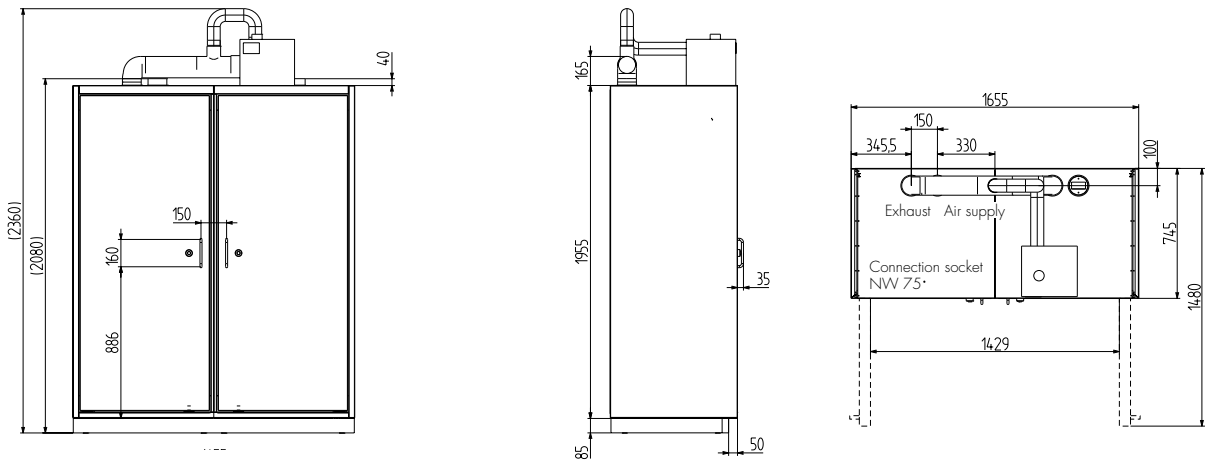
TAP LL



TAP XL



TAP XXL



SUPPLY line 2.2

Safety storage cabinets
for supply from drums

Your added advantage with the SUPPLY line!

- **Health**
  Ventilation and exhaust air monitoring minimise the explosive atmosphere when filling.
- **Safety**
  Secure media supply and integration into the process chain in accordance with TRGS 509.
- **Working safety**
  Conductive powder coating as a standard and integrated earthing system according to TRGS 727.

SUPPLY line in detail

The SUPPLY line Type 90 from DÜPERTHAL is specially designed to safely remove media from drums. This allows integration into present process chains and a more efficient organisation of the internal value chain. All SUPPLY line cabinets have a wide range of additional functions that make working easier and safer.

1 Wing door technology
The wing doors can be opened with minimal effort. In case of fire, a thermocouple automatically closes the doors without blocking.

2 Ergonomic lock arrangement
The integrated locking system-compatible locking cylinder in the door is at an ergonomic handle level.

3 Media extraction
Storage in accordance with TRGS 510 and safe media extraction from drums in accordance with TRGS 509.

4 Heavy load drawer for 200 litre (52.83 gal) drum
Simple loading and unloading with a 200 litre (52.83 gal) drum with easy-moving heavy load drawer (optional), load bearing capacity 250 kg (551.16 lbs).

5 Ventilation monitoring
The exhaust air monitoring unit integrated as a standard monitors the required exhaust air flow rate.

6 Prevention of ignition hazards
The electrically conductive interior fittings and earthing cables with crocodile clips are conductively connected to the equipotential bonding saddles on the cabinet roof in accordance with TRGS 727.

SUPPLY line – Type 90

The SUPPLY line Type 90 from DÜPERTHAL is specially designed to remove media from drums. This allows more flexible work processes and a more efficient organisation of the internal value chain. This effectively leads to the release of resources, which can be used actively and on a results-orientated basis for scientific research.

SUPPLY LL 1

SUPPLY LL 2

SUPPLY XXL 3

Interior fittings:

- Bottom tray made of conductive, powder-coated sheet steel and galvanised grating.
- Optional: heavy load drawer with safety locking for 200 litre (52.83 gal) drums, conductive, in gentian blue similar to RAL 5010.

Construction:

- Wing doors made of conductive powder-coated sheet steel.
- Outer carcass made of conductive powder-coated sheet steel.
- Inner carcass made of conductive powder-coated sheet steel.

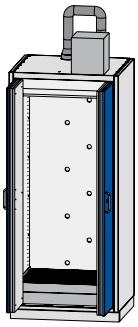
Colour standard version:

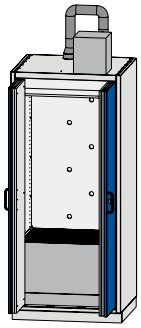
- Wing doors in gentian blue, similar to RAL 5010.
- Complete carcass in light grey, similar to RAL 7035.
- Base in slate grey RAL 7015.

Gentian blue **RAL 5010**

Light grey **RAL 7035**

Ordering information



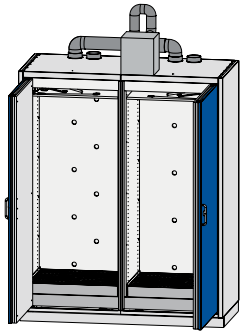


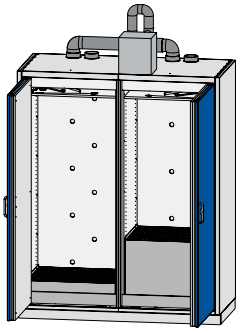
	SUPPLY LL 1	SUPPLY LL 2
	with classical wing door technology	with classical wing door technology
Ref. no.		
With exhaust air monitoring unit and ventilator	49-200970-017	49-200970-037
With exhaust air monitoring unit	49-200970-018	49-200970-038
Details	1 bottom tray for 60 l (15.85 gal) drum with grating, 2 earthing cables with crocodile clips and base	1 bottom tray for 200 l (52.83 gal) drum with grating, 2 earthing cables with crocodile clips and base
Dimensions		
Outer (width x depth x height) [mm]	895 x 745 x 2080	895 x 745 x 2080
Outer (width x depth x height) [inch]	35.24 x 29.33 x 81.89	35.24 x 29.33 x 81.89
Inner (width x depth x height) [mm]	799 x 595 x 1515	799 x 595 x 1155
Inner (width x depth x height) [inch]	31.46 x 23.43 x 59.65	31.46 x 23.43 x 45.47
Weight [kg]	432	444
Weight [lbs]	952.4	978.85
Storage capacity/standing surface (approx. data)		
Size [50/60 l] [13.21/15.85 gal]	2 drums	2 drums
Size [200 l] [52.83 gal]	–	1 drum
Ref. no.		
Additional interior fittings **Material**		
Bottom tray with grating: Stainless steel V2A	on request	on request
Bottom tray with grating: Stainless steel V4A	on request	on request
Heavy load drawer with safety locking for 200 litre (52.83 gal) drum, load bearing capacity 250 kg (551.16 lbs)	–	49-80970-069

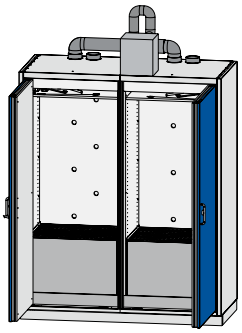
Other accessories on page 216. Other technical details and dimensions from page 217 onwards.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727







	SUPPLY XXL 1	SUPPLY XXL 2	SUPPLY XXL 3
	with classical wing door technology	with classical wing door technology	with classical wing door technology
	49-201773-017	49-201773-047	49-201773-037
	49-201773-018	49-201773-048	49-201773-038
	2 bottom trays, each for 1x 60 l (15.85 gal) drum with grating, 4 earthing cables with crocodile clips and base	1 bottom tray for 1x 60 l (15.85 gal) drum with grating (left), 1 bottom tray for 1x 200 l (52.83 gal) drum (right), 4 earthing cables with crocodile clips and base	2 bottom trays, each for 1x 200 l (52.83 gal) drum with grating, 4 earthing cables with crocodile clips and base
	1655 x 745 x 2080 65.16 x 29.33 x 81.89	1655 x 745 x 2080 65.16 x 29.33 x 81.89	1655 x 745 x 2080 65.16 x 29.33 x 81.89
	L/R: 744 x **L/R:** 595 x **L/R:** 1515 **L/R:** 29.29 x **L/R:** 23.43 x **L/R:** 59.65	**L/R:** 744 x **L/R:** 595 x **L:** 1515 | **R:** 1155 **L/R:** 29.29 x **L/R:** 23.43 x **L:** 59.65 | **R:** 45.47	**L/R:** 744 x **L/R:** 595 x **L/R:** 1155 **L/R:** 29.29 x **L/R:** 23.43 x **L/R:** 45.47
	861 1898.18	873 1924.64	885 1951.09
	2 drums	2 drums	2 drums
	–	1 drum	1 drum
	on request	on request	on request
	on request	on request	on request
	–	49-80970-069	49-80970-069

Accessories - varied and flexible

Adjust your DÜPERTHAL safety storage cabinet to meet your requirements even better with a variety of accessories. To make your workplace more efficient and safer.

Pipe penetration
for stainless steel pipes, cables and hoses up to Ø 28 mm (1.1 inch).

Red-Box
for safely storing documents exactly where they are needed.

Absorber cloths
Absorber cloths are specially designed for use with chemicals and are thus ideal for picking up spilled hazardous substances.

Platform lifter
Ideal for lifting and transporting drums and canisters when used together with a transport unit with rollers.

Cabi2Net
for central control of work processes. Configuration according to individual requirements.

Heavy load drawer
with safety locking for 200 litre (52.83 gal) drums, conductive, in gentian blue similar to RAL 5010.

Drum lifter
for picking up and transporting 200 l (52.83 gal) drums. Ideally used with heavy load drawer.

Transport unit with rollers
with arrest system for easy intake of drums and canisters.

Accessories	Ref. no.
Cabi2Net	on request
Pipe penetration	49-70000-048
Red-Box	2.233.04
Optional extras	
Platform lifter, load bearing capacity 100 kg (220.46 lbs)	1.31.050
Transport unit with rollers - left | right	1.31.051 | 1.31.052
Transport unit with rollers and additional front rollers - left | right	1.31.053 | 1.31.054
Drum lifter with quick lift for 200 l(52.83 gal) drums, load bearing capacity 300 kg (661.39 lbs)	1.31.045* (only for SUPPLY LL2, XXL2, XXL3)
Drum wrench	1.808.05
Compressed-air media pump - explosion-proof (set)	50-70000-052
Absorber	see programme section 10 or at www.dueperthal.com

Technical details - SUPPLY line

Model size			LL 1	LL 2	XXL 1	XXL 2	XXL 3
Load bearing capacity with uniformly distributed load (maximum load capacity/ standing surface)	[kg] [lbs]	Shelf	75 165.35	75 165.35	75 165.35	75 165.35	75 165.35
		Heavy load drawer	250 551.15	250 551.15	250 551.15	250 551.15	250 551.15
		Grating	250 551.15	250 551.15	250 551.15	250 551.15	250 551.15
Maximum volume of the largest individual container that may be stored in the cabinet	[l] [gal]	left side	60 15.85	200 52.83	60 15.85	60 15.85	200 52.83
	[l] [gal]	right side			60 15.85	200 52.83	200 52.83
Collection volume of bottom tray	[l] [gal]	left side	66 17.44	220 58.12	66 17.44	66 17.44	220 58.12
	[l] [gal]	right side			66 17.44	220 58.12	220 58.12
Volumetric flow rate with 10-fold air exchange	approx. [m³/h] approx. [cubic ft/h]	–	10 353.1	10 353.1	20 706.2	20 706.2	4,5 158.9
Required extraction flow rate for filling and transferring (active storage*)	approx. [m³/h] approx. [cubic ft/h]	–	>21 >750	>21 >750	>42 >1450	>42 >1450	>42 >1450
Pressure drop in the cabinet	[Pa] [Psi]	–	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1

*** Note**

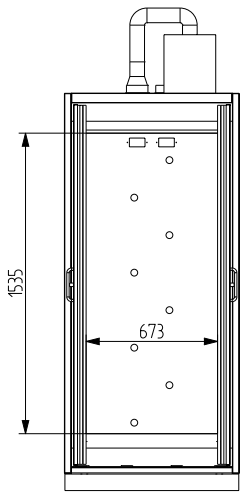
The continuously upcoming (24h) exhaust air flow rate of the installation must be monitored during filling and transferring (active storage) to detect failure of the required air stream and to at least trigger an alarm.

Zoning

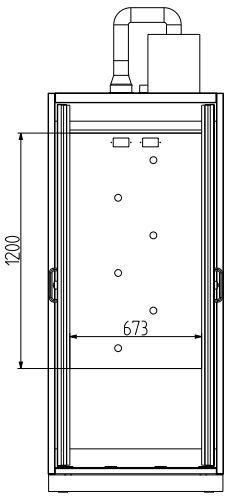
When the required extraction volume flow is complied with, in general the ratio to the filling volume flow is sufficient, so that the lower explosion protection limit (UEG) is exceeded for a short time only. Therefore, an ex-zone 2 can be expected in the cabinet interior. For risk assessment, the SUPPLY line has to be assessed in connection with its actual application. In this context, it may be necessary to adjust the ex-zones, the exhaust air flow rate or both.

Inner dimensions [mm] - SUPPLY line

SUPPLY LL 1



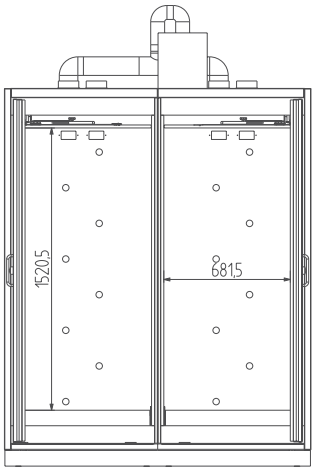
SUPPLY LL 2



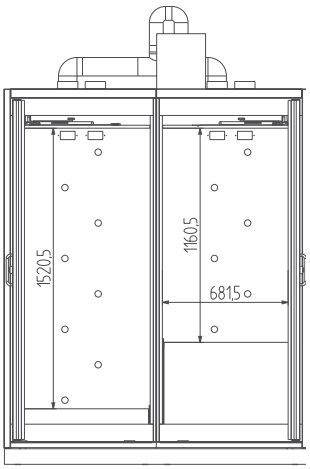
Tech specs SUPPLY line - Type 90

Inner dimensions [mm] - **SUPPLY line**

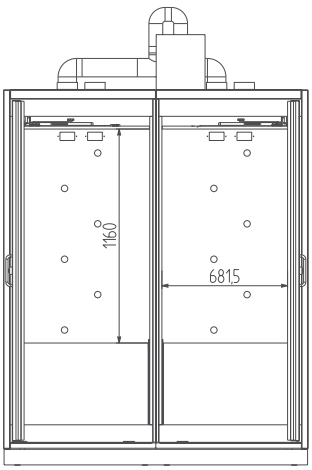
SUPPLY XXL 1



SUPPLY XXL 2

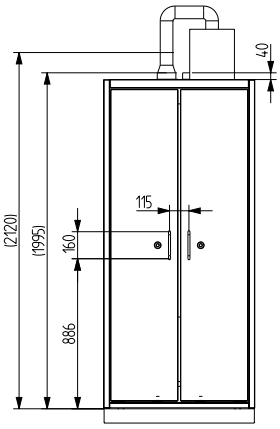


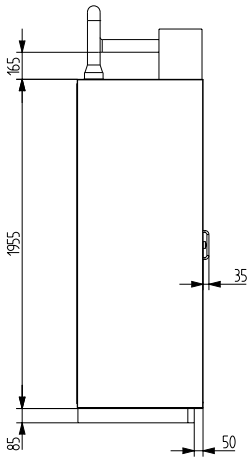
SUPPLY XXL 3

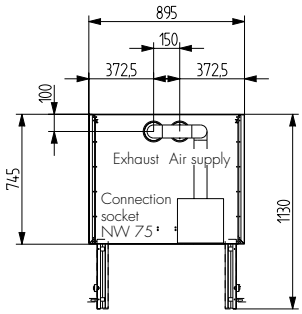


Front view	Side view	Top view

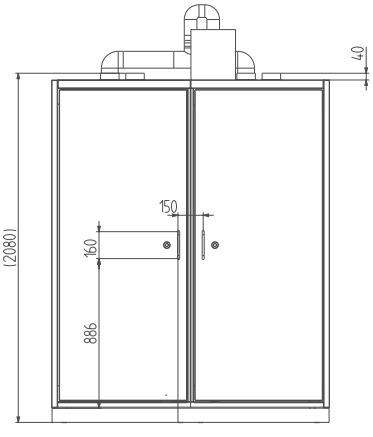
SUPPLY LL

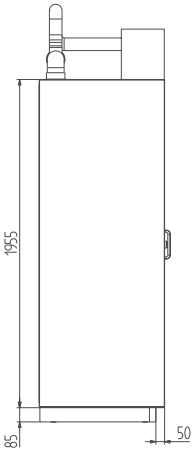


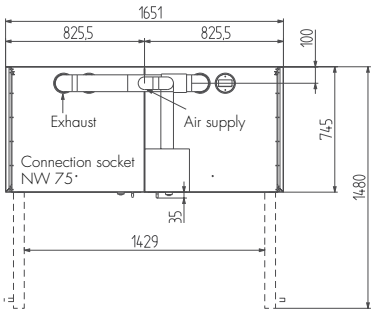




SUPPLY XXL







COMPLEX line 2.3

Safety storage cabinets
for supply from drums - system solution

Your added advantage with the COMPLEX line!

- **Health**
  Object and air curtain extraction directly at the tap minimize the explosive atmosphere when filling.
- **Safety**
  Safe media extraction from canisters and drums into smaller containers in accordance with TRGS 509.
- **Working safety**
  Conductive powder coating as a standard and integrated earthing system according to TRGS 727.

COMPLEX line in detail

The safety storage cabinets of the COMPLEX line are ideal for efficiently and safely withdrawing media.
All COMPLEX line cabinets have a wide range of additional functions that make working easier and safer.

1 Ventilation on each cabinet level
Object and air curtain extraction and additional optical control of the venting cut-off flaps.

2 Media pump
Activation of the media pump by means of a valve. In case of fire, an automatic pump emergency stop is triggered with closing of the doors.

3 Media extraction
Safe media extraction with self-closing tap from a 200 litre (52.83 gal) drum into smaller containers in accordance with TRGS 509.

4 Filling speed control
The filling speed can be adjusted continuously by means of a pressure reducer.

5 Prevention of ignition hazards
The electrically conductive interior fittings and earthing cables with crocodile clips are conductively connected to the equipotential bonding saddles on the cabinet roof in accordance with TRGS 727.

6 Full extension for 200 litre drum
Simple loading and unloading with a 200 litre (52.83 gal) drum with easy-moving heavy load drawer (optional), load bearing capacity 250 kg (551.16 lbs).

COMPLEX line – Type 90

The COMPLEX line Type 90 from DÜPERTHAL is a certified system solution specially designed for the removal of media from drums into smaller containers. The easy startup due to ready to plug-in, pre-assembled connections enables flexible work processes and more efficient organisation of the internal value chain.

COMPLEX LL

COMPLEX XXL

Interior fittings:

- Supply system with automatically closing tap (dead man's switch), including extraction at the filling point and standing surface.
- Media hoses made of PTFE-el with stainless steel cover, with foot valve on the suction side.
- Explosion-proof compressed-air media pump with pressure relief when the doors are closed.
- Bottom tray made of conductive, powder-coated sheet steel and galvanised grating.
- Optional: Heavy load drawer with safety locking for 200 litre drums, conductive, in gentian blue similar to RAL 5010.

Construction:

- Wing doors made of conductive powder-coated sheet steel.
- Outer carcass made of conductive powder-coated sheet steel.
- Inner carcass made of conductive powder-coated sheet steel.

Colour standard version:

- Wing doors in gentian blue, similar to RAL 5010.
- Complete carcass in light grey, similar to RAL 7035.
- Base in slate grey RAL 7015.

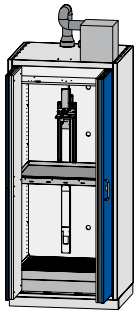
Gentian blue **RAL 5010**

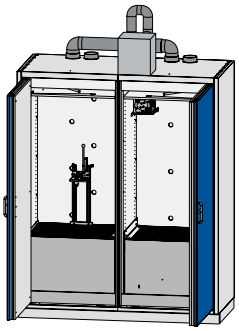
Light grey **RAL 7035**

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

Ordering information





		COMPLEX LL	COMPLEX XXL
		with one-hand wing door technology	with classical wing door technology
Ref. no.			
With exhaust air monitoring unit and ventilator		59-200971-007	59-201773-007
With exhaust air monitoring unit		59-200971-008	59-201773-008
Details		1 explosion-proof compressed-air media pump incl. suction pipe (length 1000 mm/ 39.37 inch), 1 self-closing tap, connection pipes with couplings, 2 earthing cables with crocodile clips, 1 bottom tray with grating for 60 l (15.85 gal) drum and base	1 explosion-proof compressed-air media pump incl. suction pipe (length 1000 mm/ 39.37 inch), 1 self-closing tap, connection pipes with couplings, 2 earthing cables with crocodile clips, 2 bottom trays with grating for 200 l (52.83 gal) drum and base
Dimensions			
Outer (width x depth x height)	[mm] [inch]	895 x 745 x 2080 35.24 x 29.33 x 81.89	1655 x 745 x 2080 65.16 x 29.33 x 81.89
Inner (width x depth x height)	[mm] [inch]	799 x 595 x 1830 31.46 x 23.43 x 72.05	L/R: 744 x L/R: 595 x L/R: 1160 L/R: 29.29 x L/R: 23.43 x L/R: 45.67
Weight	[kg] [lbs]	442 974.44	895 1973.14
Storage capacity/standing surface (approx. data)			
Size	[50/60 l] [13.21/15.85 gal]	2 drums	–
	[200 l] [52.83 gal]	–	2 drum
Ref. no.			
Additional interior fittings	**Material**		
Bottom tray, standing surface and drainboard	Stainless steel V2A	on request	on request
Bottom tray, standing surface and drainboard	Stainless steel V4A	on request	on request
Heavy load drawer with safety locking for 200 litre (52.83 gal) drum, load bearing capacity 250 kg (551.16 lbs).		–	49-80970-069

Other accessories on page 224. Other technical details and dimensions from page 225 onwards.

Accessories - varied and flexible

Adjust your DÜPERTHAL safety storage cabinet to meet your requirements even better with a variety of accessories. To make your workplace more efficient and safer.

Compressor
as an independent energy source for compressed air - ideal for operating the drum station.

Drum wrench
for easy opening and closing of drums, prevents spark formation.

Cabi2Net
for central control of work processes. Configuration according to individual requirements.

Heavy load drawer
with safety locking for 200 litre (52.83 gal) drums, conductive, in gentian blue similar to RAL 5010.

Drum lifter
for picking up and transporting 200 l (52.83 gal) drums. Ideally used with heavy load drawer.

Platform lifter
Ideal for lifting and transporting drums and canisters when used together with a transport unit with rollers.

Transport unit with rollers
with arrest system for easy intake of drums and canisters.

Absorber cloths
Absorber cloths are specially designed for use with chemicals and are thus ideal for picking up spilled hazardous substances.

Accessories	Ref. no.
Cabi2Net	on request
Red-Box	2.233.04

Optional extras	
Compressor, 6 bar (87 psi), low noise level 38 dB(A), 0.13 kW, 230V/50Hz, incl. 5 m (3.28 ft) pneumatic hose, ready to plug in	50-70000-046
Platform lifter, load bearing capacity 100 kg (220.46 lbs)	1.31.050
Transport unit with rollers - left | right	1.31.051 | 1.31.052
Transport unit with rollers and additional front rollers - left | right	1.31.053 | 1.31.054
Drum lifter with quick lift for 200 l (52.83 gal) drums, load bearing capacity 300 kg (661.39 lbs)	1.31.045*
Drum wrench	1.808.05
Canister made of conductive PE	see programme section 8 or at www.dueperthal.com
Vacuum and pressure compensation valves 2" for drums	see programme section 9 or at www.dueperthal.com
Absorber	see programme section 10 or at www.dueperthal.com

Technical details - COMPLEX line

Model size			LL	XXL
Load bearing capacity with uniformly distributed load (maximum load capacity/standing surface)	[kg] [lbs]	Shelf	75 165.35	75 165.35
		Heavy load drawer	250 551.16	250 551.16
		Grating	250 551.16	250 551.16
Maximum volume of the largest individual container which may be stored in the cabinet	[l] [gal]	left side	60 15.85	200 52.83
	[l] [gal]	right side		200 52.83
Collection volume bottom tray	[l] [gal]	left side	66 17.44	220 58.12
	[l] [gal]	right side		220 58.12
Operating pressure (on site) via compressed air or nitrogen	max. [bar] max. [psi]		4 58	4 58
Volumetric flow rate with 10-fold air exchange	approx. [m³/h] approx. [cubic ft/h]		10 353.1	20 706.2
Required extraction flow rate for filling and transferring (active storage*)	approx. [m³/h] approx. [cubic ft/h]		>21 >750	>42 >1450
Pressure drop in the cabinet	[Pa] [Psi]		<1 <1	<1 <1

*** Note**

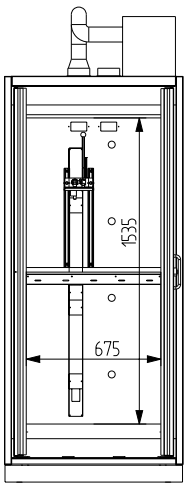
The continuously upcoming (24h) exhaust air flow rate of the installation must be monitored during filling and transferring (active storage) to detect failure of the required air stream and to at least trigger an alarm.

Zoning

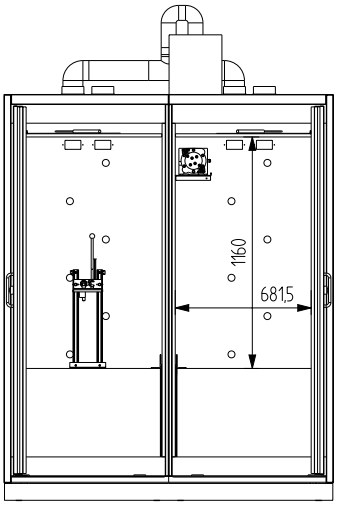
When the required extraction volume flow is complied with, in general the ratio to the filling volume flow is sufficient, so that the lower explosion protection limit (UEG) is exceeded for a short time only. Therefore, an ex-zone 2 can be expected in the cabinet interior. For risk assessment, the COMPLEX line has to be assessed in connection with its actual application. In this context, it may be necessary to adjust the ex-zones, the exhaust air flow rate or both.

Inner dimensions [mm] - COMPLEX line

COMPLEX LL



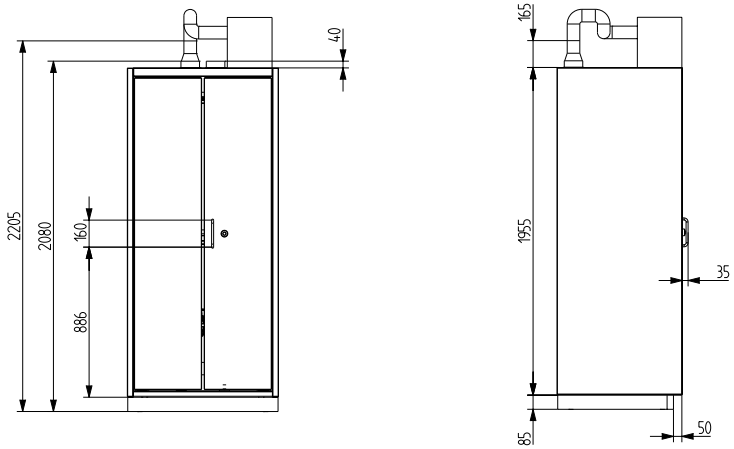
COMPLEX XXL



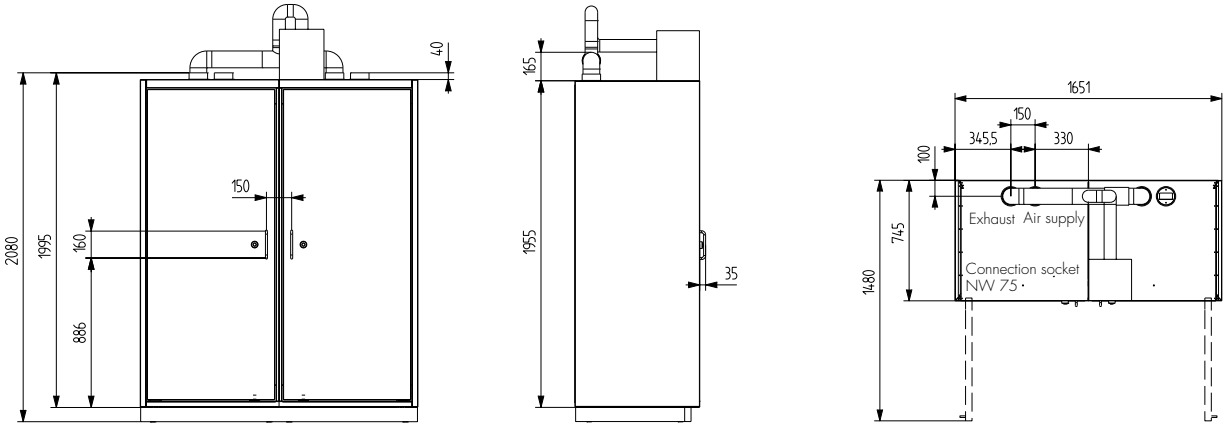
Tech specs COMPLEX line - Type 90

Front view	Side view	Top view

COMPLEX LL



COMPLEX XXL



ACTCOM line 2.4

Safety storage cabinets
for supply and disposal - system solution

Your added advantage with the ACTCOM line!

» **Health**
Object and air curtain extraction during filling, floor extraction and ventilation in the cabinet interior.

» **Safety**
Secure supply and disposal of media in accordance with TRGS 509.

» **Working safety**
Conductive powder coating as a standard and integrated earthing system according to TRGS 727.

ACTCOM line in detail

The ACTCOM line is the system solution for providing media and also for disposing of accrued wastes. The equipment is individually configured in agreement with you and adapted exactly to your requirements. The ACTCOM line has a wide range of additional functions that make working easier and safer.

1 Supply
Secure supply of media via capillary hoses directed through pipe penetration according to TRGS 509.

2 Disposal
The pull-out trays for insertion of disposal canisters provide maximum handling convenience.
The canisters are suitable to be equipped with fill level probes, optionally a capacitive probe or with a float probe.

3 Ventilation
Ventilation at every cabinet level, visual inspection of the venting cut-off flaps. Object extraction directly at the filling point.

4 Arrest system
As a standard, the doors are fitted with an arrest system. In case of fire, a thermocouple automatically closes the doors without blocking.

5 Ventilation monitoring
The exhaust air monitoring unit integrated as a standard monitors the required exhaust air flow rate.

6 Base design makes the cabinet easily accessible
The adjustable bases have an extra large bearing surface for easy alignment and level adjustment.

ACTCOM line - Type 90

The ACTCOM line Type 90 is designed for efficient and safe supply and disposal in a confined space as per TRGS 509. The media are removed from standard solvent containers via hose systems. After use the solvents are safely fed to the disposal system via the flexible VisiCon® collection system (see programme section 2.6).

ACTCOM XL

Interior fittings:

- Supply and disposal system prepared, adapted to your individual requirements.
- Pull-out trays made of conductive powder-coated sheet steel.

Construction:

- Wing doors made of conductive powder-coated sheet steel.
- Outer carcass made of conductive powder-coated sheet steel.
- Inner carcass made of conductive powder-coated sheet steel.

Colour standard version:

- Wing doors in gentian blue, similar to RAL 5010.
- Complete carcass in light grey, similar to RAL 7035.
- Base in slate grey RAL 7015.

Gentian blue **RAL 5010**

Light grey **RAL 7035**

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

Ordering information

	ACTCOM XL
	with classical wing door technology
Ref. no.	
With exhaust air monitoring unit and ventilator	on request
With exhaust air monitoring unit	on request
Details	System for supply and disposal of media, adapted to your individual requirements
Dimensions	
Outer (width x depth x height) [mm] [inch]	1195 x 595 x 2080 47.05 x 23.43 x 81.89
Inner (width x depth x height) [mm] [inch]	1099 x 446 x 1830 43.27 x 17.56 x 72.05
Weight [kg] [lbs]	469 1033.97
Storage capacity/standing surface (approx. data)	
Size [30 l] [7.93 gal]	–

Ref. no.		
Additional interior fittings	**Material**	
Bottom tray, funnel shelf and grating	Stainless steel V2A	on request
Bottom tray, funnel shelf and grating	Stainless steel V4A	on request
Funnel shelf	PE-el	on request
Shelf	Sheet steel	–

Further accessories on Page 238 - DISPOSAL line. Other technical details and dimensions from page 232 onwards.

Tech specs ACTCOM XL – Type 90

Technical details - ACTCOM line

Model size			**XL**
Load bearing capacity with uniformly distributed load (maximum load capacity/shelf)	[kg] [lbs]	Storage shelf	75 165.34
	[l] [gal]	Pull-out shelf	40 10.57
Maximum volume of the largest individual container which may be stored in the cabinet	[l] [gal]		30 7.93
Collection volume bottom tray	approx. [m³/h] approx. [cubic ft/h]		33 1165.23
Volumetric flow rate with 10-fold air exchange	approx. [m³/h] approx. [cubic ft/h]		10 353.1
Required extraction flow rate for transfer (active storage*)	approx. [m³/h] approx. [cubic ft/h]		>21 >750
Pressure drop in the cabinet	[Pa] [Psi]		<10 <10

*** Note**
The continuously upcoming (24h) exhaust air flow rate of the installation must be monitored during filling and transferring (active storage) to detect failure of the required air stream and to at least trigger an alarm.

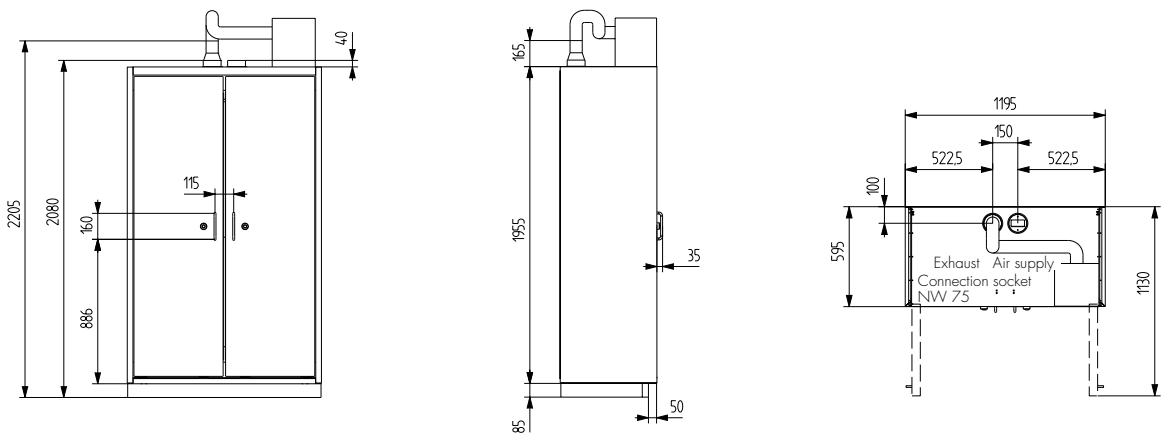
Dimensions – interior fittings [mm] **- ACTCOM line**
[inch]

Model size	XL		
	Width	Depth	Height
Shelf	1090 42.91	430 16.93	35 1.37
Bottom tray	1085 42.72	440 17.32	141 5.55

Zoning
When the required extraction volume flow is complied with, in general the ratio to the filling volume flow is sufficient, so that the lower explosion protection limit (UEG) is exceeded for a short time only. Therefore, an ex-zone 2 can be expected in the cabinet interior and at the filling point. For risk assessment, the DISPOSAL line (ACTCOM XL) has to be assessed in connection with its actual application. In this context, it may be necessary to adjust the ex-zones, the exhaust air flow rate or both.

Front view	Side view	Top view

ACTCOM XL



DISPOSAL line | DISPOSAL UTS ergo line ®
DISPOSAL BENCH line | HPLC service station

2.5

Safety storage cabinets
for disposal - system solution

Your added advantage with the DISPOSAL line!

» **Health**
Object and air curtain extraction during filling minimise the explosive atmosphere.

» **Safety**
Secure media disposal or transfer in containers up to 60 litres (15.85 gal) in accordance with TRGS 509.

» **Working safety**
Conductive powder coating as a standard and integrated earthing system according to TRGS 727.

DISPOSAL line in detail

Specially designed to store different chemical wastes, the DISPOSAL line is equipped with varied additional functions to make work easier and safer. From the great variety of optional extras, choose those which are ideally suited to your laboratory. Create your own individual work environment tailored to your requirements and work processes.

1 Ventilation
Ventilation at every cabinet level, visual inspection of the venting cut-off flaps.
Fume extraction directly at the filling point.

2 Media disposal
Safe media disposal or media transfer via stainless steel VisiCon safety funnel according to TRGS 509.

3 Arrest system
As a standard, the doors are fitted with an arrest system. In case of fire, a thermocouple automatically closes the doors without blocking.

4 Easy container change
After releasing the funnel locking device, the funnel may be lifted and the containers may be changed.

5 Ventilation monitoring
The exhaust air monitoring unit integrated as a standard monitors the required exhaust air flow rate.

6 Base design makes the cabinet easily accessible
The adjustable bases have an extra large bearing surface for easy alignment and level adjustment.

DISPOSAL line – Type 90

The DISPOSAL line is your flexible solution for handling waste disposal issues when working with a wide range of chemicals. On the following pages, you will find all features and ordering information at a glance.

DISPOSAL M

DISPOSAL XL

Interior fittings:

- Disposal system with funnel shelf, safety funnel and lockable hinged lid, conductive powder-coating.
- Bottom tray made of conductive, powder-coated sheet steel and galvanised grating.

Construction:

- Wing doors made of conductive powder-coated sheet steel.
- Outer carcass made of conductive powder-coated sheet steel.
- Inner carcass made of conductive powder-coated sheet steel.

Colour standard version:

- Wing doors in gentian blue, similar to RAL 5010.
- Complete carcass in light grey, similar to RAL 7035.
- Base in slate grey RAL 7015.

Gentian blue **RAL 5010**

Light grey **RAL 7035**

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

Ordering information

	DISPOSAL M	DISPOSAL XL
	with classical wing door technology	with classical wing door technology
Ref. no.		
With exhaust air monitoring unit and ventilator	59-200660-047	59-201260-047
With exhaust air monitoring unit	59-200660-048	59-201260-048
Details	1 safety funnel with hinged lid made of stainless steel, 2 earthing cables with crocodile clips, 1 bottom tray for 60 l (15.85 gal) drum with grating and base	2 safety funnels with hinged lid made of stainless steel, 4 earthing cables with crocodile clips, 1 bottom tray for 1x 60 l (15.85 gal) drum with grating and base
Dimensions		
Outer (width x depth x height) [mm]	595 x 595 x 2080	1195 x 595 x 2080
Outer (width x depth x height) [inch]	23.43 x 23.43 x 81.89	47.05 x 23.43 x 81.89
Inner (width x depth x height) [mm]	499 x 446 x 1830	1099 x 446 x 1830
Inner (width x depth x height) [inch]	19.65 x 17.56 x 72.05	43.27 x 17.56 x 72.05
Weight [kg]	301	469
Weight [lbs]	663.59	1033.97
Storage capacity/standing surface (approx. data)		
Size [10 l] [2.64 gal]	–	–
Size [50/60 l] [13.21/15.85 gal]	1 drum	2 drums
Ref. no.		
Additional interior fittings **Material**		
Bottom tray, funnel shelf and grating Stainless steel V2A	on request	on request
Bottom tray, funnel shelf and grating Stainless steel V4A	on request	on request
Funnel shelf PE-el	on request	on request
Shelf Sheet steel	49-80660-114	49-81260-114

Other accessories on page 238. Other technical details and dimensions from page 240 onwards.

Accessories - varied and flexible

From the great variety of optional extras, choose those which are ideally suited to your laboratory. Create your own individual work environment tailored to your requirements and work processes.

Level monitor
with control module to warn about overfilling.

Drum wrench
for easy opening and closing of drums, prevents spark formation.

Platform lifter
Ideal for lifting and transporting drums and canisters when used together with a transport unit with rollers.

.

Roller system
with arrest system for easy intake of drums and canisters.

Cabi2Net
for central control of work processes. Configuration according to individual requirements.

Pipe penetration
for stainless steel pipes, cables and hoses up to Ø 28 mm (1.1 inch) .

Transport trolley
in conductive design with antistatic rollers to safely transport hazardous substances.

Absorber cloths
Absorber cloths are specially designed for use with chemicals and are thus ideal for picking up spilled hazardous substances.

VisiCon safety container
with integrated sight glass and measuring scale.

Stainless steel funnel
optionally with fill hole Ø 120 mm (4.72 inch) or Ø 200 mm (7.87 inch).

Red-Box
for safely storing documents exactly where they are needed.

Canister
Made of electrostatic conductive polyethylene for the collection and transport of flammable liquids.

Accessories - DISPOSAL line	**Ref. no.**
Cabi2Net	on request
Pipe penetration (reclosable)	on request
Pipe penetration	49-70000-048
Red-Box	2.233.04
Optional extras	
Platform lifter, load bearing capacity 100 kg (220.46 lbs)	1.31.050
Transport unit with rollers - left | right	1.31.051 | 1.31.052
Transport unit with rollers and additional front rollers - left | right	1.31.053 | 1.31.054
Centering flaps for transport unit	1.31.055
Transport trolley for flammable media	7.02.100
Canister made of conductive PE, 10 litre (2.64 gal)	5.09.010
Canister made of conductive PE, 20 litre (5.28 gal)	5.09.020
Canister made of conductive PE, 30 litre (7.93 gal)	5.09.030
Canister made of conductive PE, 60 litre (15.85 gal)	5.09.060
VisiCon safety funnel with pipe (d = 200 mm/7.87 inch) for immersed filling	on request
VisiCon safety funnel (d = 120 mm/4.72 inch) with pipe socket to directly fill containers without hose	on request
VisiCon safety funnel (d = 200 mm/7.87 inch) with pipe socket to directly fill containers without hose	on request
VisiCon - safety container, 1 litre (0.26 gal)	5.90.001
VisiCon - safety container, 2 litre (0.53 gal)	5.90.002
Vacuum and pressure compensation valves 2" for drums	see programme section 9 or at www.dueperthal.com
Drum wrench	1.808.05
Absorber	see programme section 10 or at www.dueperthal.com

Tech specs DISPOSAL line – Type 90

Technical details - DISPOSAL line

Model size			**M**	**XL**
Load bearing capacity with uniformly distributed load (maximum load capacity/shelf)	[kg] [lbs]	Shelf	75 165.34	75 165.34
	[l] [gal]	Grating	250 66.04	250 66.04
Maximum volume of the largest individual container which may be stored in the cabinet	[l] [gal]		60 15.85	60 15.85
Collection volume bottom tray	approx. [m^3/h] approx. [cubic ft/h]		66 2330.46	66 2330.46
Volumetric flow rate with 10-fold air exchange	approx. [m^3/h] approx. [cubic ft/h]		10 353.1	10 353.1
Required extraction flow rate for transfer (active storage*)	approx. [m^3/h] approx. [cubic ft/h]		>21 >750	>21 >750
Pressure drop in the cabinet	[Pa] [Psi]		<10 <10	<10 <10

*** Note**
The continuously upcoming (24h) exhaust air flow rate of the installation must be monitored during filling and transferring (active storage) to detect failure of the required air stream and to at least trigger an alarm.

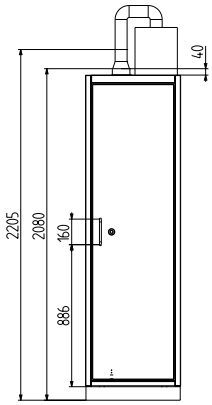
Dimensions – interior fittings [mm] **- DISPOSAL line**
[inch]

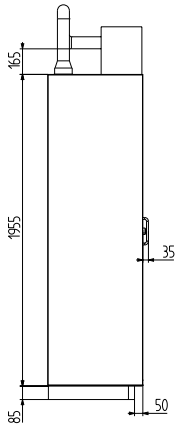
Model size	M			XL		
	Width	Depth	Height	Width	Depth	Height
Shelf	490 19.29	430 16.93	35 1.37	1090 42.91	430 16.93	35 1.37
Funnel shelf	490 19.29	430 16.93	35 1.37	536 21.1	430 16.93	35 1.37
Bottom tray	485 19.09	440 17.32	312 12.28	1085 42.72	440 17.32	141 5.55

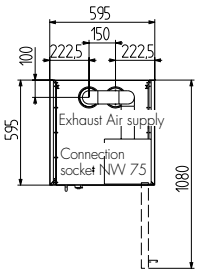
Zoning
When the required extraction volume flow is complied with, in general the ratio to the filling volume flow is sufficient, so that the lower explosion protection limit (UEG) is exceeded for a short time only. Therefore, an ex-zone 2 can be expected in the cabinet interior and at the filling point. For risk assessment, the DISPOSAL line has to be assessed in connection with its actual application. In this context, it may be necessary to adjust the ex-zones, the exhaust air flow rate or both.

Front view	Side view	Top view

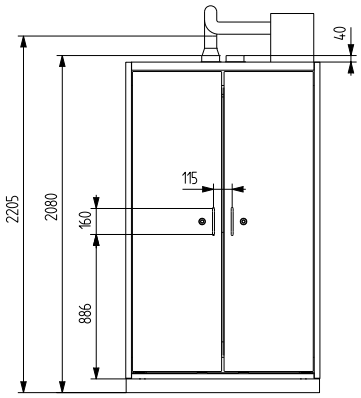
DISPOSAL M

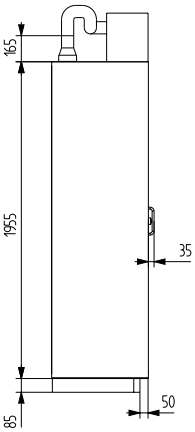


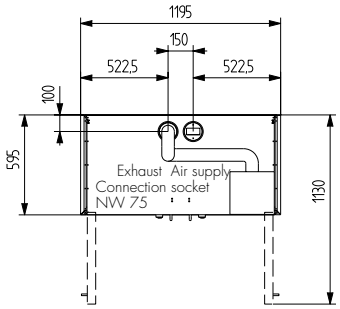




DISPOSAL XL







Safety storage cabinets
for disposal

Your added advantage with the DISPOSAL line!

- **Health**
  Object and air curtain extraction during filling, floor extraction and ventilation in the cabinet interior.
- **Safety**
  Secure media disposal or transfer in containers up to 20 litres (5.28 gal) in accordance with TRGS 509.
- **Working safety**
  Conductive powder coating as a standard and integrated earthing system according to TRGS 727.

Specially designed to store different chemical wastes, the DISPOSAL UTS ergo line and the DISPOSAL BENCH line are equipped with varied additional functions to make work easier and safer. From the great variety of optional extras, choose those which are ideally suited to your laboratory. Create your own individual work environment tailored to your requirements and work processes.

1 Push-to-open wing doors
Very easy-moving push-to-open wing doors can be opened by light pressure on the front.

2 Media disposal
Automatically extending pull-out trays ensure maximum handling convenience. The canisters are suitable to be equipped with fill level probes, optionally a capacitive probe or with a float probe.

3 Level monitor
The exhaust and filling level monitor Smart Control integrated as a standard with touch display for error display and logging warns against overfilling.

4 Air curtain extraction
The air supply and exhaust air vents are ideally placed for visual checking.

5 Equipotential bonding saddle
The electrically conductive interior fittings and earthing cables with crocodile clips are conductively connected to the equipotential bonding saddles on the cabinet roof in accordance with TRGS 727.

6 VisiCon Waste Collection System - funnel set
Funnel set for custom installation in exhaust hoods or workbenches. It is connected up continuously to the canister with a PTFE-el hose with a smooth interior and anti-kinking sleeve.

DISPOSAL UTS ergo line® – Type 90

DISPOSAL BENCH line – Type 90

The DISPOSAL UTS ergo line and DISPOSAL BENCH line are your flexible solution for handling waste disposal issues when working with a wide range of chemicals. On the following pages, you will find all features and ordering information at a glance.

DISPOSAL UTS ergo S 1

DISPOSAL UTS ergo LD

DISPOSAL BENCH S

Interior fittings:

- When the door is opened, an automatically extending pull-out tray made of conductive, powder-coated sheet steel, interior fittings DISPOSAL UTS ergo S 3 made of stainless steel.
- Conductive disposal system.

Construction:

- Wing door made of conductive powder-coated sheet steel.
- Outer carcass made of conductive powder-coated sheet steel.
- Inner carcass made of conductive powder-coated sheet steel.

Colour standard version:

- Wing doors in gentian blue, similar to RAL 5010.
- Complete carcass in light grey, similar to RAL 7035.
- Base in slate grey RAL 7015.

Gentian blue **RAL 5010**

Light grey **RAL 7035**

HPLC service station – Type 90

The HPLC service station is your flexible solution for handling waste disposal issues in high performance liquid chromatography. On the following page, you will find all ordering information at a glance.

HPLC service station S

For process reliability

Using the HPLC service station allows you to comply with a great variety of laws, regulations and directives, especially the safety requirements of TRGS 509 for filling and transfer stations. System-aided working ensures process reliability in a sustainable way and can thus be taken into account in your risk assessment.

HPLC service station consisting of:

- DISPOSAL UTS ergo line S
- Service rack

Interior fittings:

- Pull-out tray made of conductive powder-coated sheet steel.
- 7 electrical sockets at the rear of the cabinet.
- Standing surface, e.g. for PC.

Construction:

- Wing door made of conductive powder-coated sheet steel.
- Outer carcass made of conductive powder-coated sheet steel.
- Inner carcass made of conductive powder-coated sheet steel.
- Service rack made of high-quality decor panels.
- PC shelf made of powder-coated sheet steel.
- Base in ToeKick version.

Colour standard version:

- Wing doors in gentian blue, similar to RAL 5010.
- Complete carcass in light grey, similar to RAL 7035.
- Base in slate grey RAL 7015.

Gentian blue **RAL 5010**

Light grey **RAL 7035**

Ordering information

	DISPOSAL UTS ergo S 1	DISPOSAL UTS ergo S 2
	with 5 litre (1.32 gal) canisters	with conductive 10 litre (2.64 gal) canisters
Ref. no.		
Classical door technology	59-060667-036	59-060667-035
Push-to-open	59-060669-036	59-060669-035
Details	1 pull-out tray, 1 canister guidance, 3x 5 litre (1.32 gal) conductive PE canisters with 1 capacitive level probe, 1 waste cap with stopcock, electrically conductive PTFE hose with a length of 1.5 m (59.06 inch) and a 1/2" connection for a funnel, 1 pipe penetration with stainless steel pipe, 1 exhaust air monitor and level monitor with error indication on the touch display, 1 earthing cable with crocodile clip and classical base 35 mm (1.38 inch)	1 pull-out tray, 1 canister guidance, 2x 10 litre (2.64 gal) conductive PE canisters with 1 capacitive level probe, 1 waste cap with stopcock, electrically conductive PTFE hose with a length of 1.5 m (59.06 inch) and a 1/2" connection for a funnel, 1 pipe penetration with stainless steel pipe, 1 exhaust air monitor and level monitor with error indication on the touch display, 1 earthing cable with crocodile clip and classical base 35 mm (1.38 inch)
Dimensions	Outer / Inner	Outer / Inner
Width [mm]	600 / 503	600 / 503
[inch]	23.62 / 19.8	23.62 / 19.8
Depth [mm]	593 / 463	593 / 463
[inch]	23.35 / 18.23	23.35 / 18.23
Height (classical) [mm]	631 / 480	631 / 480
[inch]	24.84 / 18.9	24.84 / 18.9
Weight [kg]	130	130
[lbs]	286.6	286.6
Storage capacity/standing surface (approx. data)		
Size [5 l/1.32 gal]	3 PE canisters	–
[10 l/2.64 gal]	-	2 PE canisters (conductive)
[20 l/5.28 gal]	-	–
Ref. no.		
Additional interior fittings Material:		
Classical base 85 mm/3.35 inch (instead of 35 mm/1.38 inch)	29-10660-084	29-10660-084
ToeKick base 85 mm/3.35 inch	29-10660-085	29-10660-085
Roller set	29-10900-011	29-10900-011

Other accessories on page 249. Other technical details and dimensions from page 251 onwards.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

DISPOSAL UTS ergo S 3	DISPOSAL UTS ergo LD	DISPOSAL BENCH S
with conductive 10 litre (2.64 gal) canisters	with conductive 10 litre (2.64 gal) canisters	with conductive 20 litre (5.28 gal) canisters
59-060667-010	59-061167-035	59-080667-035
59-060669-010	59-061169-035	59-080669-035
1 pull-out tray, 1 canister guidance, 2x 10 litre (2.64 gal) conductive PE canisters with 1 capacitive level probe, 2 drip pans stainless steel V4A, direct (fume) extraction on canister opening, funnel stainless steel V4A with lid for immersed filling, funnel housing PE electroconductive with anti-rotation device, 1 pipe penetration, 1 exhaust air monitor and level monitor with error indication on the touch display, 1 earthing cable with crocodile clip and classical base 35 mm (1.38 inch)	2 pull-out trays, 2 canister guidances, 4x 10 litre (2.64 gal) conductive PE canisters with 2 capacitive level probes, 2 waste caps with stopcock, electrically conductive PTFE hoses with a length of 1.5 m (59.06 inch) and a 1/2" connection for a funnel, 1 pipe penetration with stainless steel pipe, 1 exhaust air monitor and level monitor with error indication on the touch display, 2 earthing cables with crocodile clip and classical base 35 mm (1.38 inch)	1 pull-out tray, 1 canister guidance, 2x 20 litre (5.28 gal) PE canisters with 1 capacitive level probe, 1 waste cap with stopcock, electrically conductive PTFE hose with a length of 1.5 m (59.06 inch) and a 1/2" connection for a funnel, 1 pipe penetration with stainless steel pipe, 1 exhaust air monitor and level monitor with error indication on the touch display, 1 earthing cable with crocodile clip and classical base 35 mm (1.38 inch)
Outer / Inner	Outer / Inner	Outer / Inner
600 / 503 23.62 / 19.8	1100 / L: 490 | R: 490 43.31 / 19.3 19.3	600 / 503 23.62 / 19.8
593 / 463 23.35 / 18.23	593 / 463 23.35 / 18.23	593 / 463 23.35 / 18.23
631 / 480 24.84 / 18.9	631 / 480 24.84 / 18.9	831 / 680 32.72 / 26.77
130 286.6	210 462.97	145 319.67
– 2 PE canisters (conductive) –	– 4 PE canisters (conductive) –	– – 2 PE canisters (conductive)
29-10660-084	29-11160-084	29-10660-084
29-10660-085	29-11160-085	29-10660-085
29-10900-011	29-11400-011	29-10900-011

Ordering information

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

	HPLC service station S
	with one-hand wing door technology push-to-open
Ref. no.	
stationary	500002
mobile	500003
Details	1 DISPOSAL UTS ergo line S with 2x 10 litre (2.64 gal) conductive PE canisters, 1 stopcock, 1 earthing cable with crocodile clip, 1 exhaust air monitor with level monitor and touch display, 1 PC shelf, 7 electrical sockets, 1 HPLC bench penetration, 2 cable penetrations and ToeKick base 85 mm (3.35 inch)
Abmessungen	
Outer (width x depth x height) [mm] [inch]	900 x 750 x 745 35.43 x 29.53 x 29.33
Inner (width x depth x height) [mm] [inch]	503 x 463 x 480 19.8 x 18.23 x 18.9
Weight [kg] [lbs]	170 374.78
Storage capacity/standing surface (approx. data)	
Size [10 l/2.64 gal]	2 PE canisters (conductive)
Ref. no.	
Additional interior fittings	
Monitor arm set, full motion, including bracket	300-10971-71
Keyboard arm set, extendable, including mouse pad	300-10971-72
Additional shelf for small parts	300-10971-73
VisiCon - Waste Collection System	see programme section 2.6 or at www.dueperthal.com

Other accessories on page 249. Other technical details and dimensions from page 254 onwards.

Accessories - varied and flexible

Adjust your DÜPERTHAL safety storage cabinet to meet your requirements even better with a variety of accessories.
To make your workplace more efficient and safer.

Cabi2Net
for central control of work processes. Configuration according to individual requirements.

VisiCon - Waste Collection System
for direct feeding of the solvent wastes via the bench penetrations to the cabinets.

Profile system
the flexible alternative to the bench penetration; it can also be used as a standig surface for HPLC systems.

Roller set
ensures easy installation into existing laboratory equipment.

Safety funnel set
made of stainless steel 1.4571, with hinged lid, removable dirt strainer and earthing cable with crocodile clip.

Shelf
Shelf for small parts.

Monitor arm set
Full motion, including bracket, optionally with extendable keyboard arm set and mouse pad.

ToeKick base
for ergonomic and back-friendly working (see additional interior fittings).

Accessories - Disposal systems	**Ref. no.**
Cabi2Net	on request
VisiCon - Waste Collection System / Profile system	see programme section 2.6 or at www.dueperthal.com
Safety funnel set made of stainless steel 1.4571, with hinged lid, removable dirt strainer and earthing cable with crocodile clip, bench penetration, fill diameter 200 mm (7.87 inch)	50-70000-054
Roller set and ToeKick base	see page 246-247
Monitor arm set, full motion, including bracket	300-10971-71
Keyboard arm set, extendable, including mouse pad	300-10971-72
Additional shelf for small parts	300-10971-73

Further optional extras

From the great variety of optional extras, choose those which are ideally suited to your laboratory. Create your own individual work environment tailored to your requirements and work processes.

VisiCon safety container
with integrated sight glass and measuring scale.

Float probe
with 1-3 measuring points - on request.

Status query door opening
This sensor can provide an easy way to monitor the status of the door (open/closed).

Temperature sensor
This is an early warning system for the detection of thermal events inside the cabinet.

Transport trolleys
Optionally transport trolleys are available with antistatic rollers to safely transport hazardous substances, see programme section 9.

Absorber cloths
Absorber cloths are specially designed for use with chemicals and are thus ideal for picking up spilled hazardous substances.

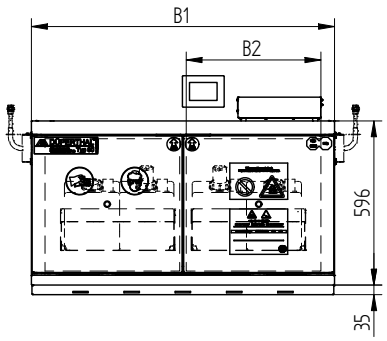
Canister
made of electrostatic conductive polyethylene for the collection and transport of flammable liquids.

Special pliers
for PE canister to close it adequately with a torque of 20 Nm.

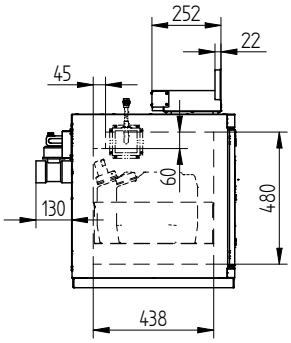
Optional extras	Ref. no.
Transport trolley for flammable media	7.02.100
Absorber	see programme section 10 or at www.dueperthal.com
Canister made of PE, 5 litre (1.32 gal)	5.09.105
Canister made of conductive PE, 10 litre (2.64 gal)	5.09.010
Canister made of conductive PE, 10 litre (2.64 gal), with sensor support	59-10000-098
Canister made of conductive PE, 20 litre (5.28 gal), with sensor support	59-20000-098
Special pliers for PE canister	5.09.003
Sensors	see programme section 6 or at www.dueperthal.com
Float porbe with 1-3 measuring points	on request
VisiCon - safety container, 1 litre (0.26 gal) | 2 litre (0.53 gal)	5.90.001 | 5.90.002
Red-Box	2.233.04

Technical details - DISPOSAL UTS ergo line

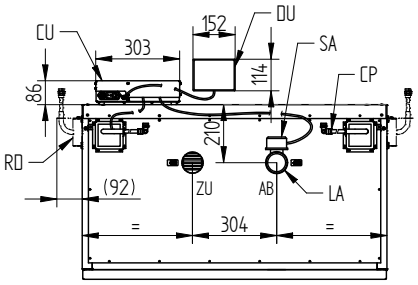
Front view



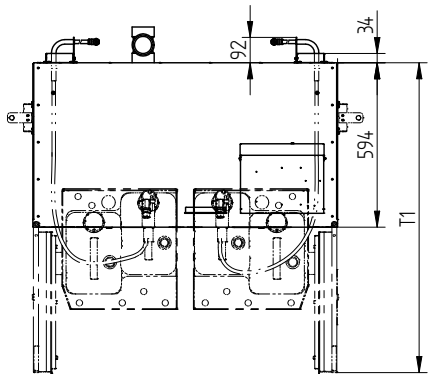
Side view



Rear view



Top view

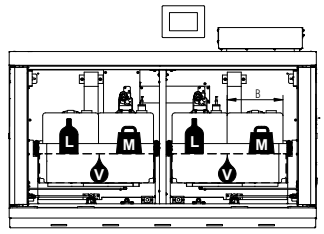


Model size		S	LD
B1	[mm] [inch]	601 23.66	1100 43.31
B2	[mm] [inch]	503 19.8	2x 489 2x 19.25
T1	[mm] [inch]	1170 46.1	1119 44.1
CU		Touch display	Touch display
Doors		1	2

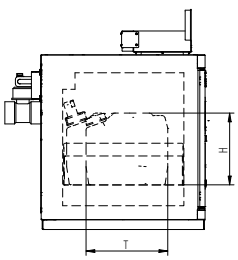
LA: Connection socket NW 75 (2.95)
AB: Exhaust air connection
ZU: Air supply (air supply and exhaust are mirror-inverted for model size S with left stop)
CU: Inspection unit (network connection 230V/AC, cable length approx. 2 m (6.56 ft))
DU: Display unit, cable length approx. 5 m (16.4 ft)
CP: End piece G ½" [m], hose length approx. 1.5 m/4.92 ft (for model size LD 2x)
SA: Sensor exhaust air monitor, cable length ca. 5 m (16.4 ft)
RD: Alternative mounting position

Dimensions | Adjustable heights - DISPOSAL UTS ergo line

Front view



Side view



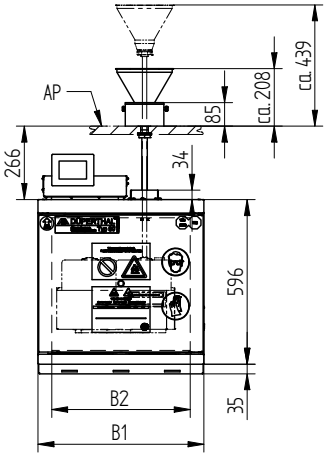
Model size		S		LD	
		5 [l] 1.3 [gal]	10 [l] 2.6 [gal]	5 [l] 1.3 [gal]	10 [l] 2.6 [gal]
B	[mm] [inch]	149 5.87	198 7.8	149 5.87	198 7.8
T	[mm] [inch]	191 7.52	298 11.73	191 7.52	298 11.73
H	[mm] [inch]	256 564.38	264 582.02	256 564.38	264 582.02
M	[kg] [lbs]	45 99.21	45 99.21	45 99.21	45 99.21
L - Monitored	[l] [gal]	1x 5 1x 1.3	1x 10 1x 2.6	2x 5 2x 1.3	2x 10 2x 2.6
L - Reserve	[l] [gal]	2x 5 2x 1.3	1x 10 1x 2.6	4x 5 4x 1.3	2x 10 2x 2.6
V	[l] [gal]	18,7 4.94	18,7 4.94	18,1 4.94	18,1 4.94
Tare weight	[kg] [lbs]	130 286.6	130 286.6	225 496.04	225 496.04
Max. additional load	[kg] [lbs]	45 99.21	45 99.21	45 99.21	45 99.21

B: Canister width
T: Canister depth
H: Canister height
M: Load bearing capacity (uniformly distributed)
L: Max. volume of the largest individual container
V: Max. collection volume

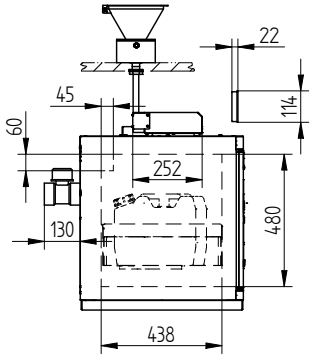
Tech specs DISPOSAL UTS ergo line® – Type 90

Technical details - DISPOSAL UTS ergo line S for immersed filling

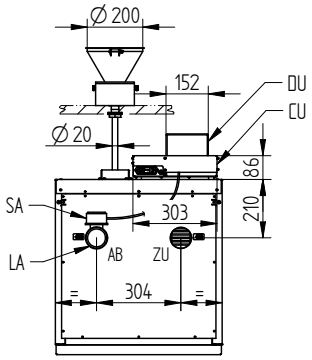
Front view



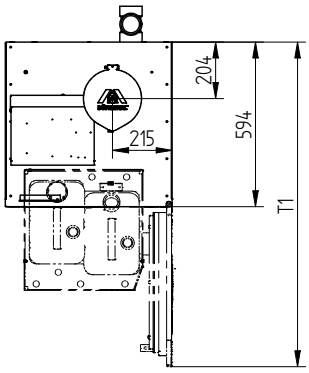
Side view



Rear view



Top view

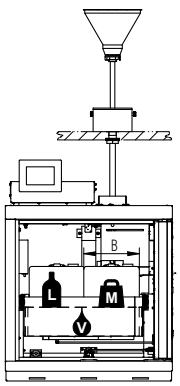


Model size		S
B1	[mm] [inch]	601 23.66
B2	[mm] [inch]	501 19.7
T1	[mm] [inch]	1170 46.1
CU		Touch display
Doors		1

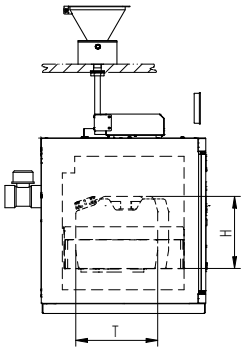
LA: Connection socket NW 75 (2.95)
AB: Exhaust air connection
ZU: Air supply (air supply and exhaust are mirror-inverted for model size S with left stop)
AP: Worktop
CU: Inspection unit (network connection 230V/AC, cable length approx. 2 m (6.56 ft))
DU: Display unit, cable length approx. 5 m (16.4 ft)
SA: Sensor exhaust air monitor, cable length ca. 5 m (16.4 ft)

Dimensions | Adjustable heights - DISPOSAL UTS ergo S for immersed filling

Front view



Side view

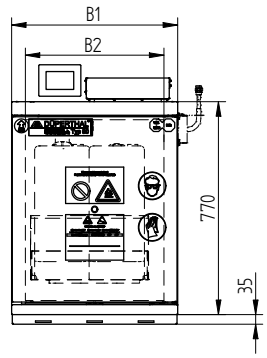


B: Canister width
T: Canister depth
H: Canister height
M: Load bearing capacity (uniformly distributed)
L: Max. volume of the largest individual container
V: Max. collection volume

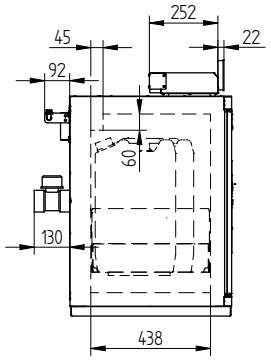
Model size		S 10 [l] 2.6 [gal]
B	[mm] [inch]	198 7.8
T	[mm] [inch]	298 11.73
H	[mm] [inch]	264 582.02
M	[kg] [lbs]	45 99.21
L - Monitored	[l] [gal]	1x 10 1x 2.6
L - Reserve	[l] [gal]	1x 10 1x 2.6
V	[l] [gal]	18,7 4.94
Tare weight	[kg] [lbs]	130 286.6
Max. additional load	[kg] [lbs]	45 99.21

Technical details - DISPOSAL BENCH line

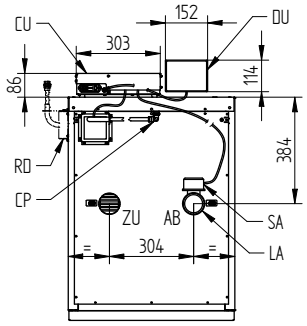
Front view



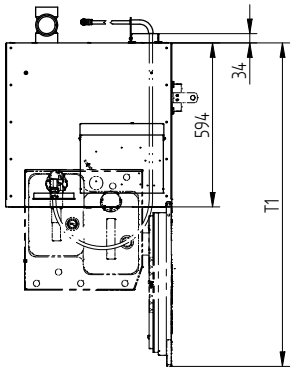
Side view



Rear view



Top view

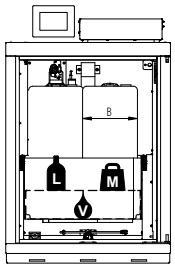


Model size		S
B1	[mm] [inch]	601 23.66
B2	[mm] [inch]	501 19.7
T1	[mm] [inch]	1170 46.1
CU		Touch display
Doors		1

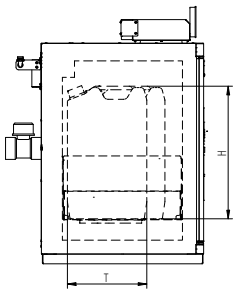
LA: Connection socket NW 75 (2.95)
AB: Exhaust air connection
ZU: Air supply (air supply and exhaust are mirror-inverted for model size S with left stop)
RD: Alternative mounting position
CU: Inspection unit (network connection 230V/AC, cable length approx. 2 m (6.56 ft))
DU: Display unit, cable length approx. 5 m (16.4 ft)
SA: Sensor exhaust air monitor, cable length ca. 5 m (16.4 ft)

Dimensions | heights - DISPOSAL BENCH line

Front view



Side view



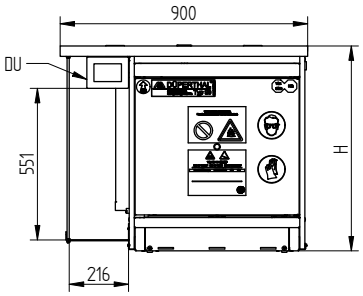
Model size		S 20 [l] 5.3 [gal]
B	[mm] [inch]	198 7.8
T	[mm] [inch]	298 11.73
H	[mm] [inch]	499 19.65
M	[kg] [lbs]	45 99.21
L - Monitored	[l] [gal]	1x 20 1x 5.28
L - Reserve	[l] [gal]	1x 20 1x 5.28
V	[l] [gal]	33,6 8.88
Tare weight	[kg] [lbs]	145 319.67
Max. additional load	[kg] [lbs]	45 99.21

B: Canister width
T: Canister depth
H: Canister height
M: Load bearing capacity (uniformly distributed)
L: Max. volume of the largest individual container
V: Max. collection volume

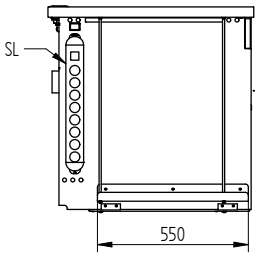
Tech specs HPLC service station – Type 90

Technical details - HPLC service station

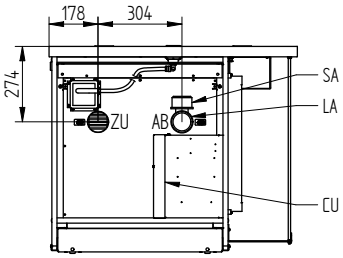
Front view



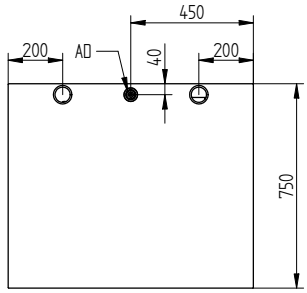
Side view



Rear view



Top view



Ausführung		**stationär**	**mobil**
H	[mm]	745	750
	[inch]	29.33	29.52

LA: Connection socket NW 75 (2.95)
AB: Exhaust air connection
ZU: Air supply
CU: Inspection unit
DU: Display unit
AD: Adapter, on request
SA: Sensor exhaust air monitor
SL: Multiple socket (network connection 230V/AC, cable length approx. 3 m (9.84 ft))

VisiCon® Waste Collection System 2.6

Collect flammable media **flexibly and centrally**

The VisiCon® Waste Collection System is the perfect addition to DÜPERTHAL safety storage cabinets for active storage. The system can be used to collect large quantities of solvent wastes in accordance with the regulations, centrally at one collection point, e.g. a DISPOSAL line safety storage cabinet. The VisiCon® collection system is also characterised by its high media resistance. All components are conductive and prevent the formation of ignition sparks.

Highest flexibility for streamlined workflow

The system can be extended virtually without limit and the modular concept can be individually adjusted to each process on site. The diverse connection options are suitable for funnel systems and HPLC connections, and can also be adapted to individual requirements. The easy startup due to ready to plug-in, preassembled connections enables flexible workflows and more efficient organisation of the work processes.

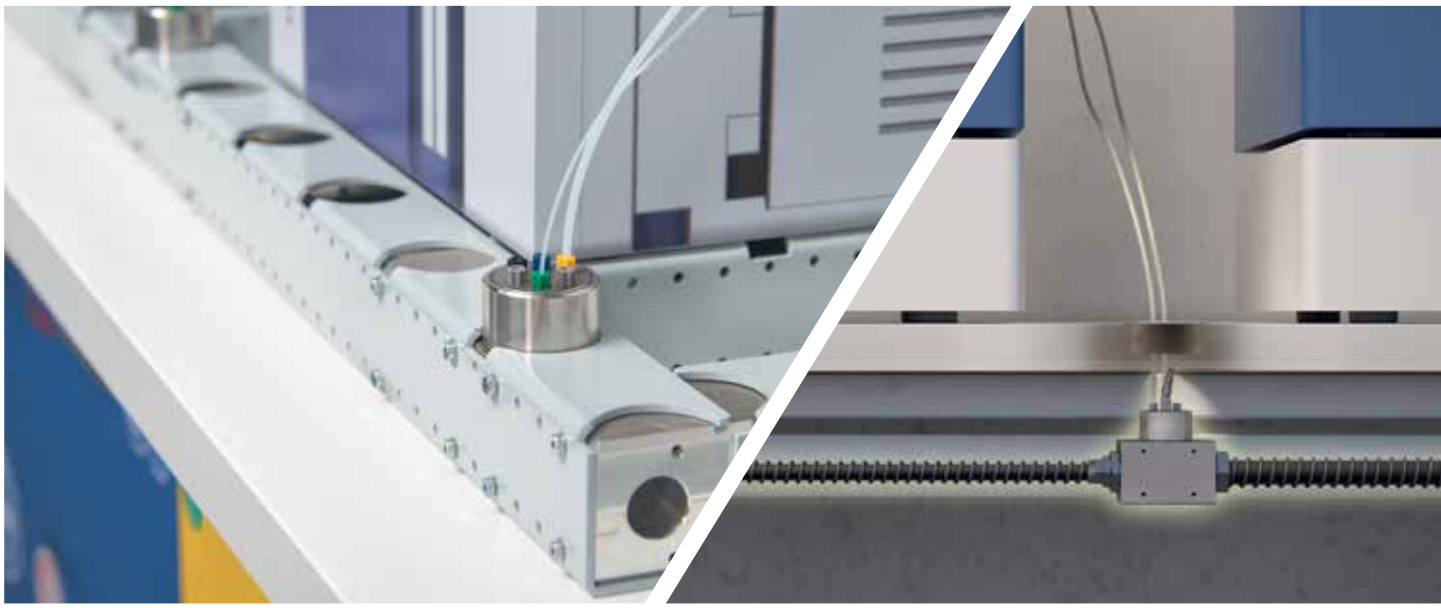
Systematic disposal

Your benefits

- Secure collection of hazardous substances in accordance with TRGS 509 and minimisation of harmful gases and vapours (emissions) in the workplace.
- Continuous earthing for the prevention of ignition hazards as a result of electrostatic discharges in accordance with TRGS 727.
- Higher efficiency by merging wastes from several workplaces to a central collection point.
- Process reliability through defined workflows, additional channels for the disposal of solvents are avoided.
- Approved explosion protection concept for simplified recording in your explosion protection document within the framework of the risk assessment according to TRGS 400.
- Flexible connection to DÜPERTHAL system solutions for active storage.
- The almost infinitely expandable modular system can also be integrated at a later stage.

Disposal system - safe, economic and flexible

We will be happy to analyse the current situation with you on site and provide you with an optimal disposal solution. We can provide installation and commissioning on site within the framework of our full service.

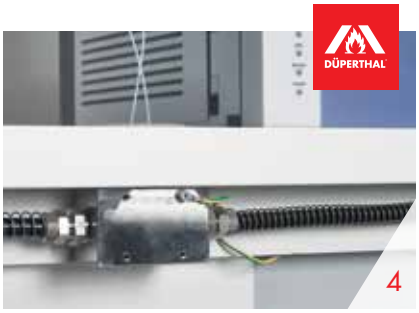


Your added advantage with VisiCon®!

- **Efficient workflow in accordance with the regulations**
  Disposal of solvent wastes takes place directly at the workplace; additional channels for the disposal of waste are avoided.
- **Sustainable and flexible disposal system**
  The modular system can be optimally integrated in any work or laboratory situation and can be expanded almost infinitely.
- **Economic and certified solution**
  The hazardous substances can be directed from several systems/ workplaces to a certified safety storage cabinet.

Modular system

For a high level of media resistance, all metallic components are manufactured from high-quality stainless steel 1.4571. The hose system is made of dissipative PTFE-el and has a smooth finish to guarantee a good media flow. The hoses are also wrapped in a spiral on the outside for protection against mechanical stress.



1 Funnel systems
Safe disposal of hazardous substances via a funnel with a direct connection to the disposal container.

2 Direct connection of HPLC systems
Simple connection of capillary and media hoses via a large selection of bench penetrations and adapters.

3 Distributors and smooth-walled hose systems
The distributors and hose systems are available in various diameters - the right solution for every viscosity.

4 Prevention of ignition hazards
All components are electrically conductive, the system for the connection to earthing is prepared according to TRGS 727.

5 Tested and certified disposal systems
The media are collected in system solutions with special explosion protection devices, e.g. DISPOSAL BENCH line, in accordance with TRGS 509 and TRGS 727.

6 Profile system - flexible and robust
The flexible profile system is the alternative to the bench penetration and can be used as, for example, a standing surface for HPLC systems.

Accessories - varied and flexible

The individual elements of the VisiCon waste collection systems are available in a modular system.
On this page we present to you an excerpt from the delivery programme.

Stainless steel funnel
optionally with fill hole
Ø 120 mm (4.72 inch) or
Ø 200 mm (7.87 inch).

Stainless steel adapter
with a combination of hose and capillary connections.

Stainless steel adapter
with capillary connections.

Stainless steel bench penetration
suitable for a large number of worktops.

Stainless steel T-distributor
for the connection of hoses, adapters and reducers.

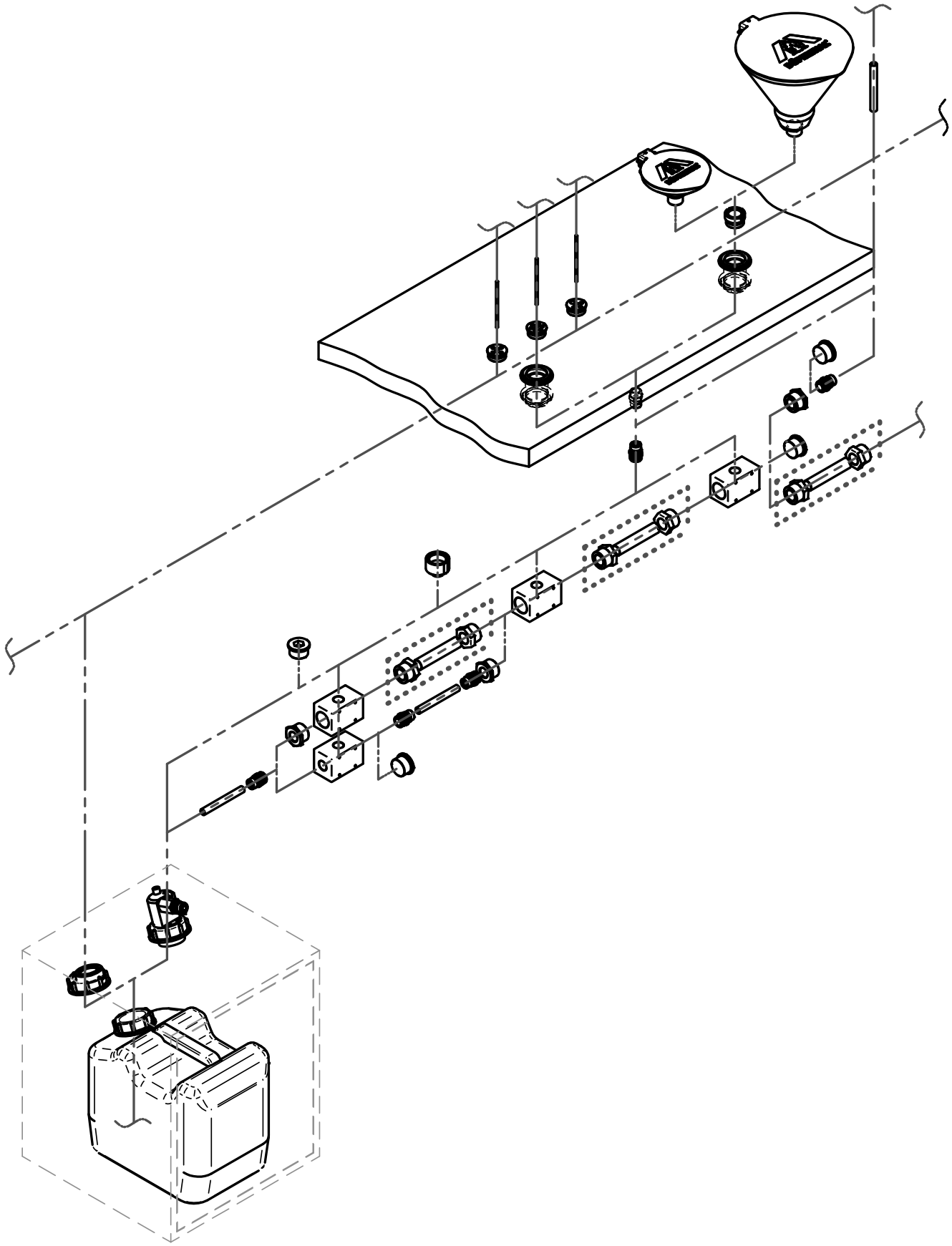
PTFE-el media hose
including mounting material.

Stainless steel reduction
of G ½"/G 1".

Stainless steel screw plug
for safe and tight closure of e.g. T-distributor.

Accessories	Ref. no.
Funnel G ¾", optionally with fill hole Ø 120 mm (4.72 inch) or Ø 200 mm (7.87 inch)	on request
Adapter with 3x capillary connections, 1x hose connection	on request
Adapter with 6x capillary connections	on request
Bench penetration	on request
T-distributor G ½	on request
Media hose PTFE-el incl. mounting material Ø 12 mm (0.47 inch)	on request
Reduction G ½"/G 1"	on request
Screw plug G ½"	on request

VisiCon® – module structure



Safe storage
of pressurised gas cylinders

3

Uniform fire protection concept

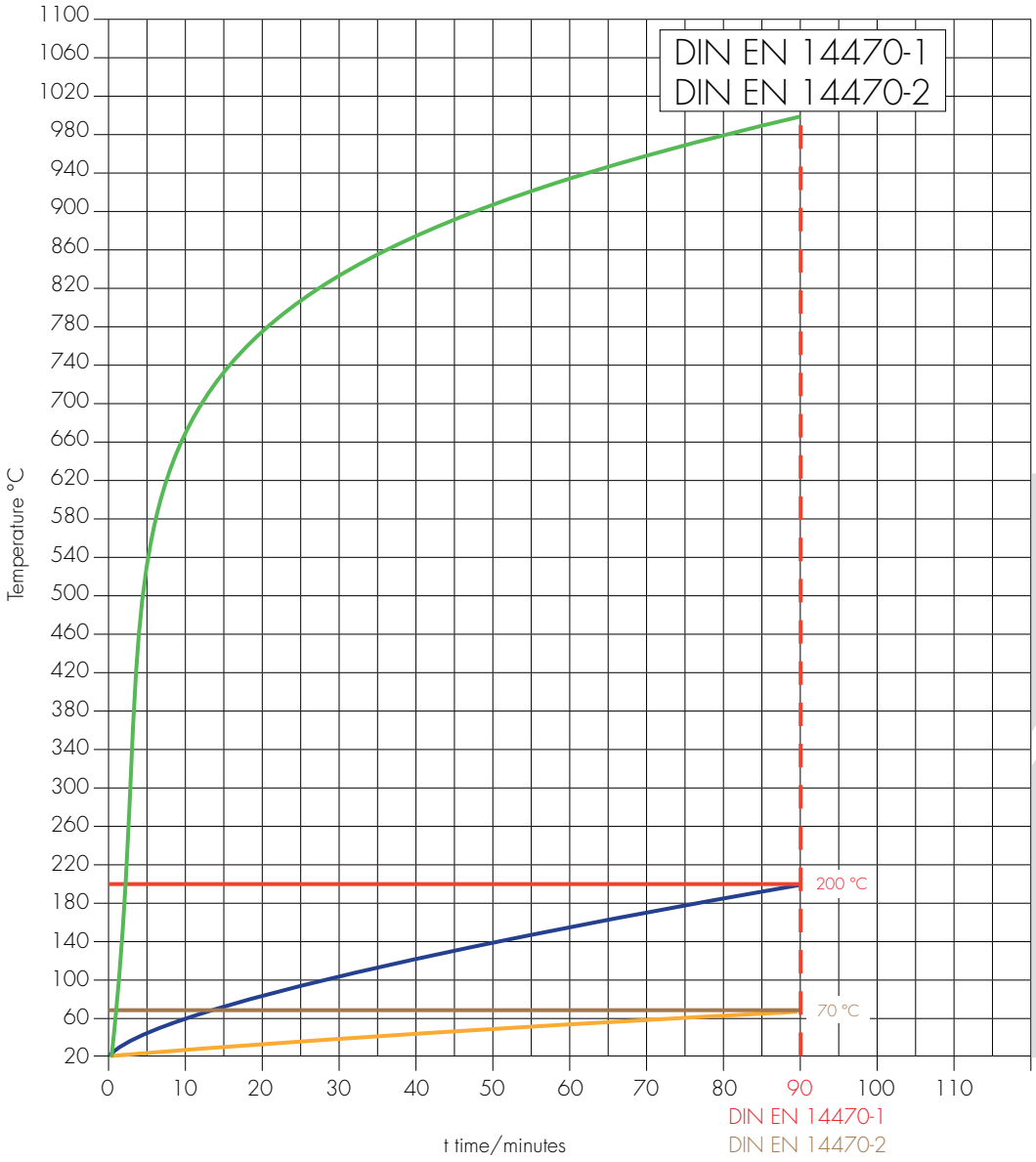
The fire resistance rating of safety storage cabinets in accordance with DIN EN 14470-1 is determined by the rise of temperature of the cabinet interior inside of a fire chamber according to the temperature-time curve in accordance with DIN EN 1363-1. On the basis of a starting temperature of 20 +/- 5 °C and after the temperature increase on the surface of the canister valve holder exceeds 50 Kelvin, the cabinet is then classified as Type G15, G30, G60 or G90 (same as the time in minutes).

Type G90

Fire resistance

Type G90 - 90 minutes of fire protection

The SUPREME line plus safety storage cabinets for pressurised gas cylinders help you to ensure 90-minute fire resistance continuously in your laboratory. In combination with DÜPERTHAL Type 90 safety storage cabinets compliant with DIN EN 14470-1, the SUPREME line plus models are the ideal solution for continuous fire protection concepts in line with the highest standards.



Comparison of DIN EN 14470-1 and DIN EN 14470-2

DIN EN 14470-1 for flammable liquids

- Max. permissible temperature in the cabinet according to DIN EN 14470-1 = 200 °C (392 °F).
- Temperature history according to EN 1363-1 in the fire chamber.
- Example of the rising temperature of the Type 90 cabinet.

DIN EN 14470-2 for pressurised gas cylinders

- Max. permissible temperature on the surface of the valve holder according to DIN EN 14470-2 = 70 °C (158 °F).
- Temperature history according to EN 1363-1 in the fire chamber.
- Example of the rising temperature in the Type G90 cabinet.

Protection objectives and **minimum requirements**

Safety storage cabinets for the storage of pressurised gas cylinders in accordance with DIN EN 14470-2 must be designed and constructed in such a way that in case of fire, no additional risks of the fire spreading result from the content. The fire resistance should enable employees to leave the working area and allow the fire brigade to reach the area and contain the fire before the pressurised gas cylinders become unstable. Minor amounts of escaping gas within the cabinet must be extracted to protect health and prevent explosions.

DIN EN 14470-2
DIN EN 14727

Extracts from DIN EN 14470-2

Ventilation

- The cabinets must have ventilation openings for air supply and exhaust air to enable connection to an exhaust air system.
- The air stream must ensure that minor amounts of escaping gas within the cabinet are extracted.
- For efficient purging, there must be at least a 10-fold air exchange, 120-fold for toxic gases, in the storage of flammable and oxidising gases.
- The ventilation must be in the upper and lower part of the cabinet.
- The pressure drop in the cabinet must not exceed 150 Pa (0.022 Psi) .

Gas and electrical cables

- The number of electrical cables and gas lines must be restricted to the absolute minimum.
- A maximum of three gas pipes with ∅ 10 mm (0.39 inch) and two electrical cables with ∅ 20 mm (0.79 inch) are permitted per pressurised gas cylinder.
- For the best possible fire resistance, tubes made of stainless steel or a material with similar thermal conductivity are recommended.
- Unused penetrations must be sealed in accordance with manufacturer's specifications.

Fire chamber test

- Each cabinet model is type-tested in a fire chamber according to DIN EN 14470-2 Type G90/Type G30.

Test criteria as per DIN EN 14470-2 | DIN EN14727

Tested safety at a very high level including:

DIN EN 14470-2
DIN EN 14727

Tested safety at a very high level including

- Type testing according to DIN EN 14470-2 by recognised test institutes (TÜV Süd, ift Rosenheim).
- TÜV-tested according to DIN EN 14727 (laboratory furniture standard).
- Type G90/Type G30 classification in accordance with DIN EN 14470-2.
- GS/CE mark.
- High Quality mark of approval for upper-level style.
- User-friendliness and increased lifetime.

Storage capacity

- The maximum storage capacity per safety storage cabinet including purging gas is 220 litres (58.12 gal), up to a maximum of four 50 litre (13.21 gal) gas cylinders or up to three 70 litre (18.5 gal) gas cylinders.
- The pressurised gas cylinders in the cabinet may be used.

Introduction, removal and fastening

- A ramp or mechanical lifting equipment may be used, but this may not be made of aluminium.
- In the cabinet, a suitable mounting system must be installed to prevent the pressurised gas cylinders from falling over.

Extracts from DIN EN 14727

Static endurance test

- Standing surfaces, e.g. intermediate shelves, are subjected to a static load test and shock test and may not be broken or damaged.

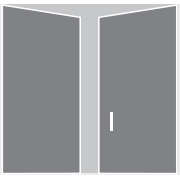
Dynamic load test

- All mechanical (moving) components such as doors are tested with 50,000 cycles. After the tests, the doors must close exactly and snap into place.

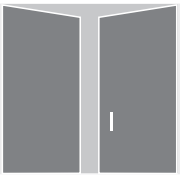
Safety storage cabinets for pressurised gas cylinders and handling

Door technologies

3.1 SUPREME line plus — Type G90



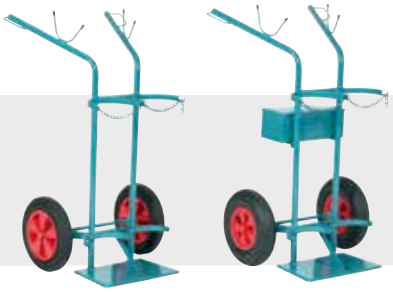
3.2 ECO line plus — Type G30



3.3 Gas cylinder depots

3.4 Gas cylinder containers/boxes

3.5 Gas cylinder handling



from page

270

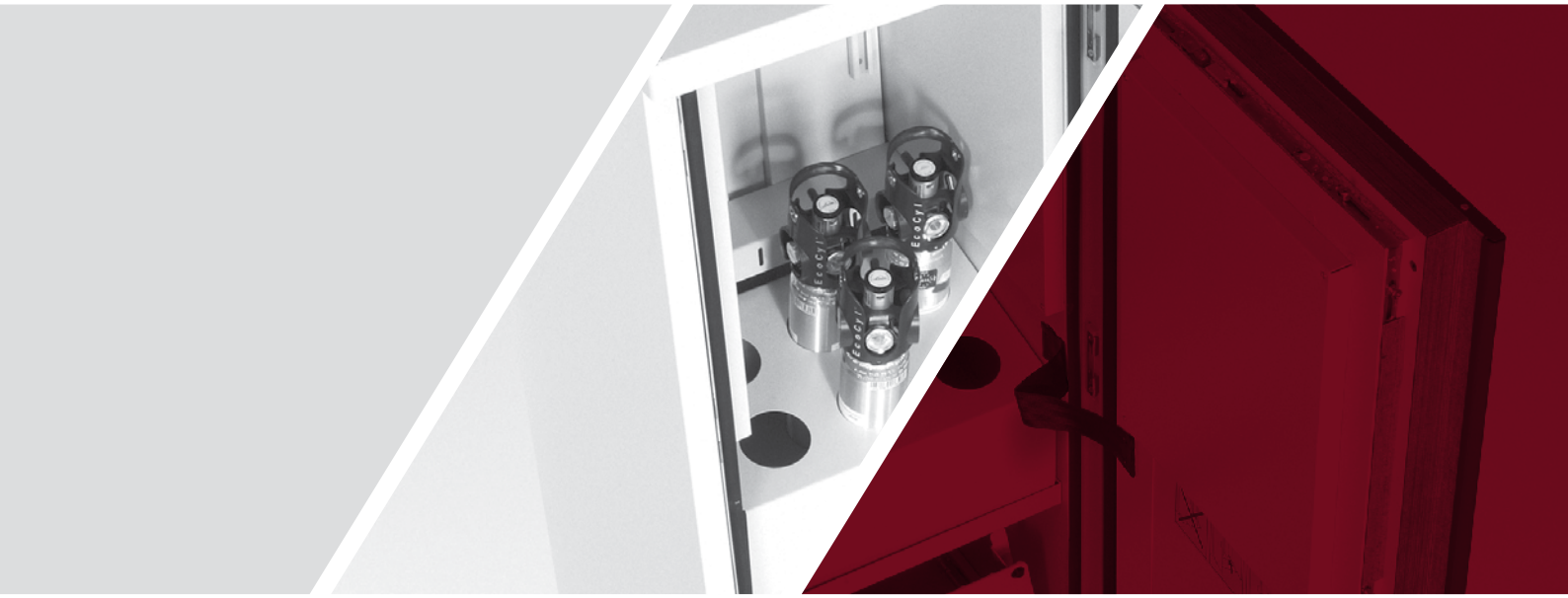
281

291

292

293

SUPREME line plus 3.1



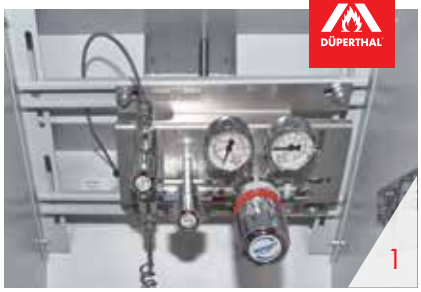
Safety storage cabinets Type G90 **for pressurised gas cylinders**

Your added advantage with the SUPREME line plus!

- **The highest fire protection for your safety**
  Maximum safety with Type G90 technology for a continuous fire protection concept that meets the highest standards.

- **Upper-level style for your health**
  Optimised ventilation ducts provide an efficient air flow system to extract any escaping gas within the cabinet.

- **Increased lifetime for your investment**
  Duration test according to DIN EN 14727, but 80,000 instead of 50,000 cycles in the dynamic load test.



1 Ventilation

Efficient ventilation in each cabinet level and the possibility of connecting the purging gas pipes directly to the exhaust air duct.

2 Penetration of gas pipes and cables

Drilling areas for the penetration of pipes or cables are marked on the cabinet roof and side panels.

3 Fittings

Maximum flexibility through adjustable installation rails as a standard - ideal to read the fittings ergonomically and without reflections. Alternatively, an upright installation is possible.

4 Door technology

The cabinet doors may be opened up to an angle of 170 degrees, thus offering the user maximum freedom of use. The opening angle can be adjusted continuously.

5 Use of space

The interior height is optimised for the installation and operation of gas cylinder fittings.

6 Transport

Gas cylinders can be easily put in place using the robust roll-in flap or the gas cylinder trolley for 10 litre (2.64 gal) gas cylinders.

SUPREME line plus – Type G90

Discover the optimum solution from DÜPERTHAL for the storage of pressurised gas cylinders of all sizes with 90-minute fire protection. Experience the comfort and flexibility of being able to equip your workplace to meet your precise needs.

SUPREME plus S

SUPREME plus M

SUPREME plus L

SUPREME plus XL

SUPREME plus XXL

Interior fittings:

- Two installation rails for mounting gas fittings.
- One cylinder holder with one retaining belt per standing space.
- A sturdy roll-in flap.
- Marked drilling areas for gas pipes and electrical cables.
- Connection for purging gas pipe as a standard.

Colour standard version:

- Wing doors in ruby red RAL 3003.
- Carcass completely in light grey RAL 7035.
- Individual colours possible.

Construction:

- Wing doors, powder-coated sheet steel.
- The doors are generally right-hinged for one-door cabinets. A left-hung door can be delivered at no extra charge.
- Outer carcass, powder-coated sheet steel.
- Inner carcass made of high-quality decor panels.

Golden yellow **RAL 1004** | Light grey **RAL 7035** | Ruby red **RAL 3003** | Pure white **RAL 9010**

Ordering information

		SUPREME plus S	SUPREME plus M
Ref. no.			
with classical wing door technology		79-130660-021	79-200660-021
Details		1 cylinder holder with 2 retaining belts, 2 horizontal installation rails and roll-in flap	1 cylinder holder with 2 retaining belts, 2 horizontal installation rails and roll-in flap
Dimensions			
Outer (width x depth x height)	[mm] [inch]	595 x 610 x 1415 23.43 x 24.02 x 55.71	595 x 610 x 2070 23.43 x 24.02 x 81.5
Inner (width x depth x height)	[mm] [inch]	430 x 388 x 1171 16.92 x 15.28 x 46.1	430 x 388 x 1826 16.92 x 15.28 x 71.89
Weight	[kg] [lbs]	256 564.38	348 767.21
Storage capacity/standing surface (approx. data)			
Volumes/Ø	[1 l/83 mm] [0.26 gal/3.27 inch]	6 pressurised gas cylinders	–
	[10 l/140 mm] [2.64 gal/5.51 inch]	2 pressurised gas cylinders	2 pressurised gas cylinders
	[50 l/229 mm] [13.21 gal/9.02 inch]	–	1 pressurised gas cylinder
Ref. no.			
Additional interior fittings	**Material**		
Intermediate shelf	Sheet steel	73-80660-122	73-80660-122
Shelf for screw caps for connection to cylinder holder	Sheet steel	79-80660-140	79-80660-140
Installation rails (2 pcs.)	Sheet steel	79-80660-152	79-80660-152
Shelf for side installation incl. cylinder holder	Sheet steel	–	79-70000-119
Cylinder rack for 6, 10, 14, 18 gas cylinders max. Ø 83 mm/3.27 inch	Sheet steel	on request	on request

Other accessories on page 278. Other technical details and dimensions from page 279 onwards.

Tested safety at a very high level including:

DIN EN 14470-2
DIN EN 14727

	SUPREME plus L	SUPREME plus XL	SUPREME plus XXL
	79-200960-021	79-201260-021	79-201460-021
	1 cylinder holder with 3 retaining belts, 2 horizontal installation rails and roll-in flap	1 cylinder holder with 4 retaining belts, 2 horizontal installation rails and roll-in flap	1 cylinder holder with 4 retaining belts, 2 horizontal installation rails and roll-in flap
	895 x 610 x 2070 35.24 x 24.02 x 81.5	1195 x 610 x 2070 47.04 x 24.02 x 81.5	1395 x 610 x 2070 54.92 x 24.02 x 81.5
	730 x 404 x 1826 28.74 x 15.9 x 71.89	1030 x 404 x 1826 40.56 x 15.9 x 71.89	1230 x 404 x 1826 48.43 x 15.9 x 71.89
	477 1051.6	595 1311.75	680 1499.14
	–	–	–
	4 pressurised gas cylinders	6 pressurised gas cylinders	8 pressurised gas cylinders
	2-3 pressurised gas cylinders	3-4 pressurised gas cylinders	4 pressurised gas cylinders
	79-80960-122	79-81260-122	79-81460-122
	79-80960-140	79-81260-140	79-81460-140
	79-80960-152	79-81260-152	79-81460-152
	79-70000-119	79-70000-119	79-70000-119
	on request	on request	on request

Accessories - varied and flexible

Apart from maximum safety, our safety storage cabinets for pressurised gas cylinders also offer maximum comfort with their ergonomic construction and perfection down to the smallest detail. Using the sophisticated accessories you may adjust your safety storage cabinet individually to your applications.

Intermediate shelves
Shelves for side installation allow for additional space to store further small pressurised gas cylinders, thus enabling the operator to use the cabinet volume optimally.

Cylinder racks
Cylinder racks provide a secure hold of stored items such as ECOCYL cylinders.

Screw caps
The gas cylinder screw caps may be safely positioned on a shelf.

Profile half-cylinders
for the lock protect against unauthorised access and can be integrated into locking systems.

Accessories	Ref. no.
Locking systems:	
Handle with aluminium profile half-cylinder	73-70000-089
Handle with stainless steel profile half-cylinder	73-70000-289
Optional extras	
Gas cylinder trolley	see programme section 3.5 or at www.dueperthal.com
Exhaust air system or ventilator	see programme section 7 or at www.dueperthal.com
Safety container	see programme section 8 or at www.dueperthal.com
Absorber	see programme section 10 or at www.dueperthal.com

Technical details - SUPREME line plus

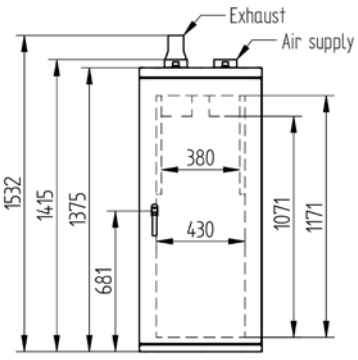
Model size		S	M	L	XL	XXL
Volumetric flow rate with 10-fold air exchange	approx. [m³/h] approx. [cubic ft/h]	1,8 63.56	3,0 105.93	5,3 168.24	7,5 264.83	8,9 314.26
Pressure drop in cabinet/pressure loss at exhaust air (connection) socket acc. to EK5/AK4 09-10 with 10-fold air exchange	[Pa] [Psi]	<1/<1 <1/<1	<1/<1 <1/<1	<1/<1 <1/<1	<1/<1 <1/<1	<1/<1 <1/<1
Volumetric flow rate with 120-fold air exchange	approx. [m³/h] approx. [cubic ft/h]	21,8 765.79	35,1 1239.38	63,0 2224.53	89,4 3156.71	107,0 3778.17
Pressure drop in cabinet/pressure loss at exhaust air (connection) socket acc. to EK5/AK4 09-10 with 120-fold air exchange	[Pa] [Psi]	<1/13 <1/<1	<1/41 <1/<1	<1/34 <1/<1	10/85 <1/<1	40/131 <1/<1
Load bearing capacity with uniformly distributed load/shelf for side installation	[kg] [lbs]	50/60 110/132	50/60 110/132	50/60 110/132	50/60 110/132	50/60 110/132

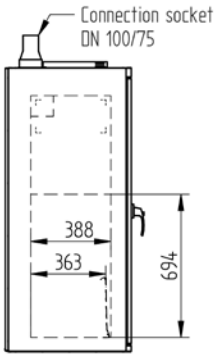
Dimensions - Interior fittings [mm] [inch] **- SUPREME line plus**

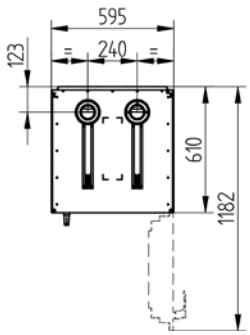
Model size	S			M			L			XL			XXL		
	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height
Intermediate shelf	424 16.7	350 13.78	35 1.38	424 16.7	350 13.78	35 1.38	724 28.5	350 13.78	35 1.38	1024 40.31	350 13.78	35 1.38	1224 48.19	350 13.78	35 1.38
Shelf for side installation incl. cylinder holder	–	–	–	220 8.66	347 13.66	220 8.66	220 8.66	347 13.66	220 8.66	220 8.66	347 13.66	220 8.66	220 8.66	347 13.66	220 8.66

Front view | Side view | Top view

SUPREME plus S



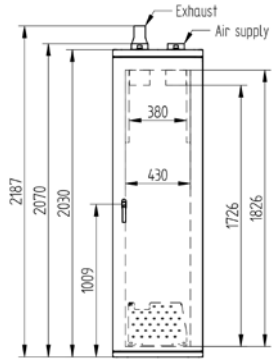


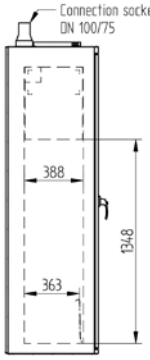


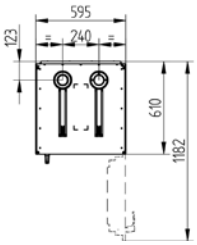
Tech specs SUPREME line plus – Type G90

Front view	Side view	Top view

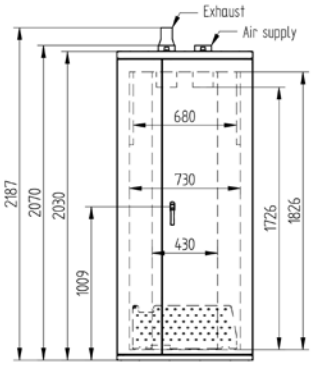
SUPREME plus M

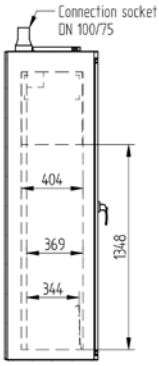


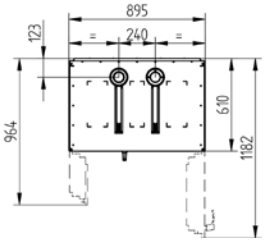




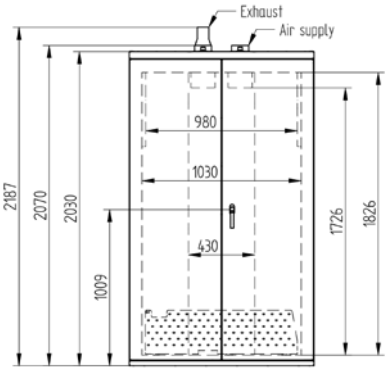
SUPREME plus L

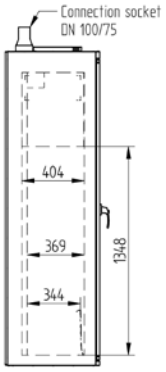


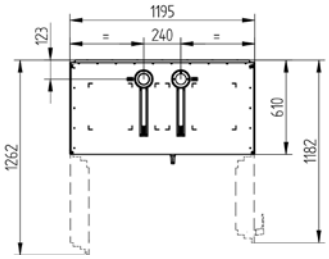




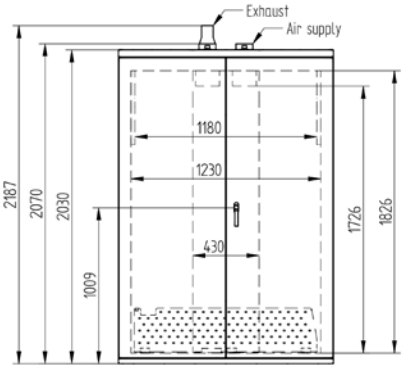
SUPREME plus XL

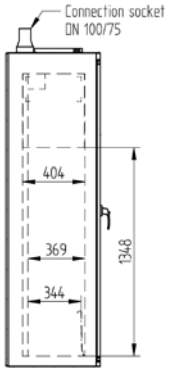


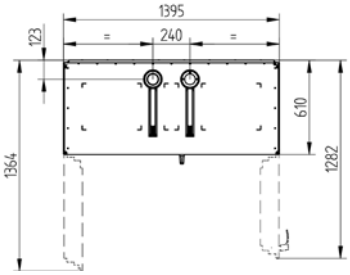




SUPREME plus XXL







ECO line plus 3.2

Safety storage cabinets Type G30 **for pressurised gas cylinders**

Your added advantage with the ECO line plus!

- **Economic fire protection for your safety**
  For the economical storage of pressurised gas cylinders with a 30-minute fire protection concept - the simple entry to a higher level of safety in your workplace.

- **Upper-level style for your health**
  Optimised ventilation ducts provide an efficient air flow system to extract any escaping gas within the cabinet.

- **Increased lifetime for your investment**
  Duration test according to DIN EN 14727, but 80,000 instead of 50,000 cycles in the dynamic load test.

1 Ventilation
Efficient ventilation in each cabinet level and the possibility of connecting the purging gas pipes directly to the exhaust air duct.

2 Penetration of gas pipes and cables
Drilling areas for the penetration of pipes or cables are marked on the cabinet roof and side panels.

3 Fittings
Maximum flexibility through adjustable installation rails as a standard - ideal to read the fittings ergonomically and without reflections. Alternatively, an upright installation is possible.

4 Door technology
The cabinet doors may be opened up to an angle of 170 degrees, thus offering the user maximum freedom of use. The opening angle can be adjusted continuously.

5 Use of space
The interior height is optimised for the installation and operation of gas cylinder fittings.

6 Transport
Gas cylinders can be easily put in place using the robust roll-in flap or the gas cylinder trolley for 10 litre (2.64 gal) gas cylinders.

ECO line plus – Type G30

The ECO line plus Type G30 models from DÜPERTHAL are the ideal solution for the cost-effective storage of pressurised gas cylinders with 30-minute fire protection. Discover the smart way to increase comfort and flexibility in your custom-designed workplace.

ECO plus M

ECO plus L

ECO plus XL

ECO plus XXL

Interior fittings:

- Two installation rails for mounting gas fittings.
- One cylinder holder with one retaining belt per standing space.
- A sturdy roll-in flap.
- Marked drilling areas for gas pipes and electrical cables.
- Connection for purging gas pipe as a standard.

Construction:

- Wing doors, powder-coated sheet steel.
- The doors are generally right-hinged for one-door cabinets. A left-hung door can be delivered at no extra charge.
- Outer carcass, powder-coated sheet steel.
- Inner carcass made of high-quality decor panels.

Colour standard version:

- Wing doors in ruby red RAL 3003.
- Carcass completely in light grey RAL 7035.
- Individual colours possible.

Golden yellow **RAL 1004** | Light grey **RAL 7035** | Ruby red **RAL 3003** | Pure white **RAL 9010**

Ordering information

		ECO plus M	ECO plus L
Ref. no.			
with classical wing door technology		73-200660-011	73-200960-011
Details		1 cylinder holder with 2 retaining belts, 2 horizontal installation rails and roll-in flap	1 cylinder holder with 3 retaining belts, 2 horizontal installation rails and roll-in flap
Dimensions			
Outer (width x depth x height)	[mm]	595 x 596 x 2070	895 x 596 x 2070
	[inch]	23.43 x 23.46 x 81.5	35.24 x 23.46 x 81.5
Inner (width x depth x height)	[mm]	500 x 386 x 1884	800 x 440 x 1884
	[inch]	19.69 x 15.2 x 74.17	31.5 x 17.32 x 74.17
Weight	[kg]	283	390
	[lbs]	623.9	859.8
Storage capacity/standing surface (approx. data)			
Volumes/∅	[10 l/140 mm] [2.64 gal/5.51 inch]	2 pressurised gas cylinders	4 pressurised gas cylinders
	[50 l/229 mm] [13.21 gal/9.02 inch]	1-2 pressurised gas cylinders	2-3 pressurised gas cylinders
Ref. no.			
Additional interior fittings	**Material**		
Intermediate shelf	Sheet steel	73-80660-122	73-80960-122
Shelf for screw caps for connection to cylinder holder	Sheet steel	79-80660-140	79-80960-140
Installation rails (2 pcs.)	Sheet steel	79-80660-150	73-80960-150
Shelf for side installation incl. cylinder holder	Sheet steel	73-70000-119	73-70000-119
Cylinder rack for 6, 10, 14, 18 gas cylinders max. ∅ 83 mm/3.27 inch	Sheet steel	on request	on request

Other accessories on page 288. Other technical details and dimensions from page 289 onwards.

Tested safety at a very high level including:

DIN EN 14470-2
DIN EN 14727

	ECO plus XL	ECO plus XXL
	73-201260-011	73-201460-021
	1 cylinder holder with 4 retaining belts, 2 horizontal installation rails and roll-in flap	1 cylinder holder with 4 retaining belts, 2 horizontal installation rails and roll-in flap
	1195 x 596 x 2070 47.05 x 23.46 x 81.5	1395 x 596 x 2070 54.92 x 23.46 x 81.5
	1100 x 440 x 1884 43.31 x 17.32 x 74.17	1294 x 435 x 1878 50.94 x 17.13 x 73.94
	462 1018.53	560 1234.59
	6 pressurised gas cylinders	8 pressurised gas cylinders
	3-4 pressurised gas cylinders	4 pressurised gas cylinders
	73-81260-122	73-81460-122
	79-81260-140	79-81460-140
	73-81260-150	73-81460-152
	73-70000-119	73-70000-119
	on request	on request

Accessories - varied and flexible

Apart from maximum safety, our safety storage cabinets for pressurised gas cylinders also offer maximum comfort with their ergonomic construction and perfection down to the smallest detail. Using the sophisticated accessories you may adjust your safety storage cabinet individually to your applications.

Intermediate shelves
Shelves for side installation allow for additional space to store further small pressurised gas cylinders, thus enabling the operator to use the cabinet volume optimally.

Cylinder racks
Cylinder racks provide a secure hold of stored items such as ECOCYL cylinders.

Screw caps
The gas cylinder screw caps may be safely positioned on a shelf.

Profile half-cylinders
for the lock protect against unauthorised access and can be integrated into locking systems.

Accessories	Ref. no.
Locking systems:	
Handle with aluminium profile half-cylinder	73-70000-089
Handle with stainless steel profile half-cylinder	73-70000-289
Optional extras	
Gas cylinder trolley	see programme section 3.5 or at www.dueperthal.com
Exhaust air system or ventilator	see programme section 7 or at www.dueperthal.com
Safety container	see programme section 8 or at www.dueperthal.com
Absorber	see programme section 10 or at www.dueperthal.com

Tech specs ECO line plus – Type G30

Technical details- ECO line plus

Model size		M	L	XL	XXL
Volumetric flow rate with 10-fold air exchange	approx. [m³/h] approx. [cubic ft/h]	4,1 144.77	6,6 233.04	8,9 314.26	10,5 370.76
Pressure drop in cabinet/pressure loss at exhaust air (connection) socket acc. to EK5/AK4 09-10 with 10-fold air exchange	[Pa] [Psi]	<1/<1 <1/<1	<1/<1 <1/<1	<1/<1 <1/<1	<1/<1 <1/<1
Volumetric flow rate with 120-fold air exchange	approx. [m³/h] approx. [cubic ft/h]	49,5 1747.85	79,4 2803.61	107 3778.17	126,5 4466,72
Pressure drop in cabinet/pressure loss at exhaust air (connection) socket acc. to EK5/AK4 09-10 with 120-fold air exchange	[Pa] [Psi]	<150/27 <0.02/<1	<150/69 <0.02/<1	<150/147 <0.02/<1	<150/220 <0.02/<0.03
Load bearing capacity with uniformly distributed load intermediate shelf/shelf for side installation	[kg] [lbs]	50/60 110/132	50/60 110/132	50/60 110/132	50/60 110/132

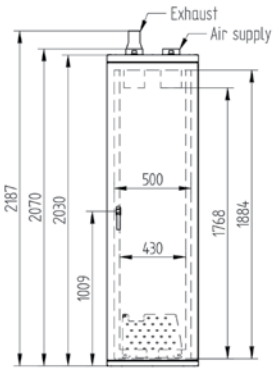
Dimensions - Interior fittings [mm] - **ECO line plus**
[inch]

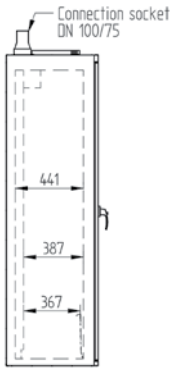
Model size	M			L			XL			XXL		
	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height
Intermediate shelf	424 16.7	350 13.78	35 1.38	724 28.5	350 13.78	35 1.38	1024 40.31	350 13.78	35 1.38	1224 48.19	350 13.78	35 1.38
Shelf for side installation incl. cylinder holder	220 8.66	347 13.66	220 8.66	347 13.66	220 8.66	347 13.66	220 8.66	347 13.66	220 8.66	347 13.66	220 8.66	347 13.66

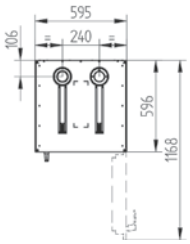
Tech specs ECO line plus – Type G30

Front view	Side view	Top view

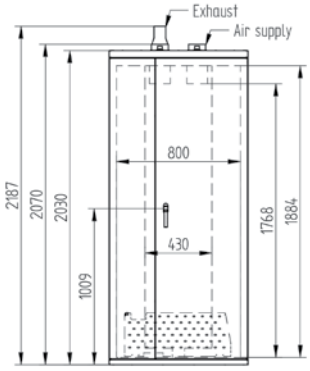
ECO plus M

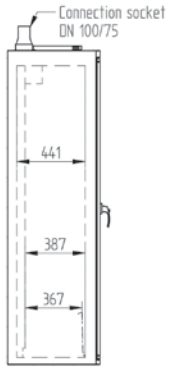


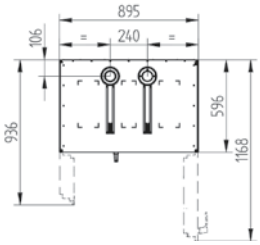




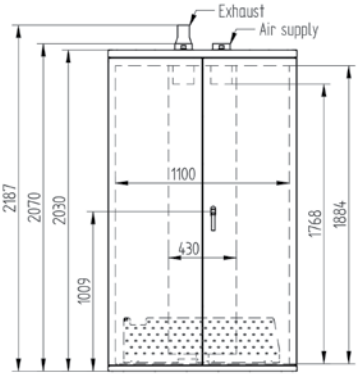
ECO plus L

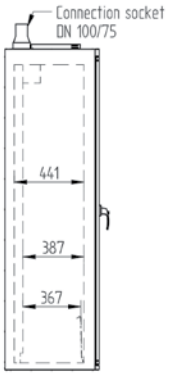


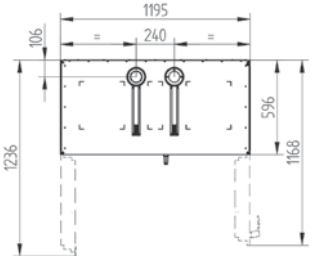




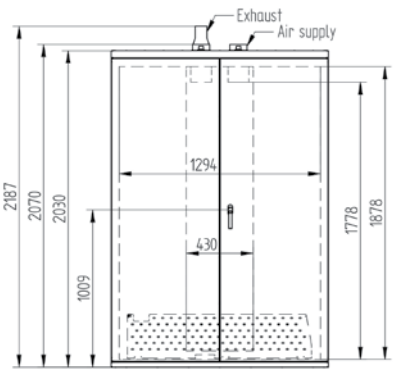
ECO plus XL

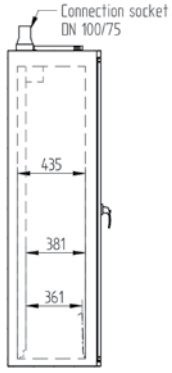


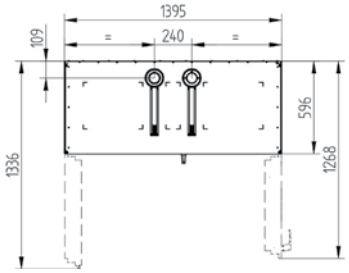




ECO plus XXL







3.3 Gas cylinder depots

For storing gas cylinders outdoors in accordance with the regulations.

- No safety distance around the gas cylinder depot necessary.
- Good corrosion resistance with polyester powder coating RAL 9002 grey white on galvanised base material.
- Robust construction made of sheet steel, material thickness 1.5 mm (0.6 inch).
- 3-point locking system with door handle with security cylinder lock at an ergonomically favourable height.
- Earthing possibility on the ceiling.
- Chequer plate floor 3 mm (0.12 inch), including corrugation 4.5 mm (1.77 inch).
- For each cylinder rack space, there are 2 penetrations in the ceiling, each Ø 22 mm (0.87 inch), for 13.5 (5,3 inch) PG fittings (closed with plastic plugs).
- 2 horizontal installation rails for mounting fittings.
- One cylinder holder with one retaining belt per standing space.
- Prepared for ground fixing.
- Natural ventilation in accordance with TRGS.
- Labelling with warning symbol W19.

Intermediate shelf

Side shelf – 70-90040-115

Red-Box – 2.233.04

		M 1	M 2	L 1	L 2	XL 1	XL 2
Ref. no.							
Gas cylinder depot		70-200740-001	70-200740-003	70-201040-001	70-201040-003	70-201340-001	70-201340-003
Details		1 door	1 door with inspection window**	2 doors	2 doors with inspection window**	2 doors	2 doors with inspection window**
Dimensions							
Width x height	[mm]	650 x 2050	650 x 2050	950 x 2050	950 x 2050	1250 x 2050	1250 x 2050
	[inch]	25.6 x 80.71	25.6 x 80.71	37.4 x 80.71	37.4 x 80.71	49.2 x 80.71	49.2 x 80.71
Depth | Depth incl. overhang	[mm]	400 | 500	400 | 500	400 | 500	400 | 500	400 | 500	400 | 500
	[inch]	15.7 | 19.7	15.7 | 19.7	15.7 | 19.7	15.7 | 19.7	15.7 | 19.7	15.7 | 19.7
Weight	[kg]	85	85	103	103	125	125
	[lbs]	187.39	187.39	227.08	227.08	275.58	275.58
Standing spaces/pressurised gas cylinders							
Volumes/Ø [50 l/229 mm] [13.21 gal/9.01 inch]		2	2	3	3	4	4
Ref. no.							
Additional interior fittings							
Intermediate shelf, load bearing capacity* 150 kg/330.69 lbs		70-90740-114	70-90740-114	70-91040-114	70-91040-114	70-91340-114	70-91340-114
Side shelf with U-profile for all models, load bearing capacity* 40 kg/188.18 lbs		70-90040-115					
Gas cylinder trolley		see programme section 3.5 or www.dueperthal.com					
Red-Box		2.233.04					

* Maximum load bearing capacity with evenly distributed load | ** one inspection window in each door wing

Gas cylinder containers and boxes

3.4.1 Gas cylinder containers with roof

Gas cylinder container - 7.80.128* with roof and double wing gate - 7.80.328*

For storing gas cylinders outdoors in accordance with the regulations. Stable frame construction - surface hot-dip galvanised according to EN ISO 1461.

- Lockable wing gate, optionally available with double-winged gate.
- Construction according to TRGS.
- Prepared for ground fixing.
- Modular system with assembly instructions for self-assembly.

Holding device – 2x 7.80.198* with chain

Gas cylinder rack – 2x 7.80.199* individually or two on top of each other

Ordering information/dimensions						
Max. number of gas cylinders, Ø 220 mm/8.66 inch		32	48	60	78	104
D x W	[mm] [inch]	2100 x 1085 82.68 x 42.72	2100 x 1500 82.68 x 59.06	2400 x 1500 94.49 x 59.06	3100 x 1500 122.05 x 59.06	3100 x 2100 122.05 x 82.68
Height with roof	[mm] [inch]	2180 85.83	2180 85.83	2180 85.83	2180 85.83	2180 85.83
Ref. no.		**7.80.118***	**7.80.124***	**7.80.128***	**7.80.136***	**7.80.154***

Accessories						
Double-winged gate						
Ref. no.		7.80.318*	7.80.324*	7.80.328*	7.80.336*	7.80.354*
Holding device gas cylinders Ø 220 mm/8.66 inch						
Ref. no.		7.80.198*	7.80.198*	7.80.198*	7.80.198*	7.80.198*
Gas cylinder rack for (W x D x H) 1300 x 1000 x 850 mm/51.18 x 39.37 x 33.46 inch						
Ref. no.		7.80.199*	7.80.199*	7.80.199*	7.80.199*	7.80.199*
Gas cylinder trolley						
Ref. no.		see programme section 3.5 or www.dueperthal.com				

3.4.2 Gas cylinder boxes

For storing gas cylinders outdoors in accordance with TRGS regulations.

- Colour light grey RAL 7035.
- With natural ventilation through perforated doors and side panels.
- Rear panel and roof closed.
- Including intermediate shelf.
- Cylinder lock as a standard.

Ordering information/dimensions			
Number of doors/design		1/perforated	2/perforated
D x W x H	[mm] [inch]	840 x 690 x 1500 33.07 x 27.17 x 59.06	1680 x 690 x 1500 66.14 x 27.17 x 59.06
Ref. no.		**7.90.300**	**7.90.350**

Accessories	Gas cylinder trolley
Ref. no.	see programme section 3.5 or www.dueperthal.com

3.5.1 Gas cylinder pallets

①

②

Gas cylinder pallets ① - 7.00.800* and ② - 7.00.810*

For the safe, economic and effortless transport of 1 to 8 gas cylinders – surface hot-dip galvanised according to EN ISO 1461.

- Sturdy base frame with forklift pockets.
- Inner carcass of forklift pockets: 170 x 70 mm/6.7 x 2.76 inch (W x H), inner distance between forklift pockets 510 mm/20.08 inch.
- Gas cylinders can be secured individually with chains.
- Lateral tilt limiter.
- With hook for hoses and screw caps.

Ordering information/dimensions			
Max. number of gas cylinders, Ø 250 mm/9.84 inch		4	8
D x W x H	[mm]	600 x 860 x 1000	1200 x 860 x 1000
	[inch]	23.6 x 33.9 x 39.4	47.2 x 33.9 x 39.4
Load bearing capacity	[kg]	350	700
	[lbs]	771.62	1543.24
Ref. no.		7.00.800*	7.00.810*

3.5.2 Gas cylinder trolley for 50 litre (13.2 gal) gas cylinders

For the safe transport of a gas cylinder. Blue painted steel tube construction with solid rubber tyres.

- Sturdy design.
- Easy handling.
- Including securing chain.
- Red PVC handle for safe grip.

Ordering information	
Gas cylinder trolley for 50 litre/13.2 gal gas cylinders	
Ref. no.	7.00.600

3.5.3 Gas cylinder trolley for 40/50 litre (10.56/13.2 gal) gas cylinders

Gas cylinder trolley 7.00.630

For the safe transport of gas cylinders. Blue painted steel tube construction.

- Sturdy design.
- Easy handling.
- Including securing chain.
- Finger guard for safe grip.
- Hose holder on the bars.
- Optionally with lockable toolbox.

Ordering information/dimensions		
Max. number of gas cylinders, Ø 229 mm/9.02 inch	2	2
Toolbox	•	–
Ref. no.	7.00.630	7.00.620

Gas cylinder handling

3.5.4 Gas cylinder trolley for 10 litre (2.64 gal) gas cylinders

Gas cylinder trolley ① - 7.00.616 and ② - 7.00.617

For the safe transport of small gas cylinders. Steel tube construction slate grey, with solid rubber tyres. Perfect for equipping gas cylinder cabinets such as SUPREME line plus, ECO line plus and depots.

- Sturdy design.
- Optimal radius of movement.
- Easy handling.
- Including securing belt.
- Optionally with toolbox including suitable wrench for gas cylinder caps.

Ordering information/dimensions				
Max. number of gas cylinders, 10 litres/2.64 gal	1	1	2	2
Toolbox	•	–	•	–
Tyres	Solid rubber	Solid rubber	Solid rubber	Solid rubber
Bestell-Nr.	7.00.618	7.00.616	7.00.617	7.00.615

3.5.5 Gas cylinder trolley for propane gas cylinders

Gas cylinder trolley - 7.01.000

For the safe transport of propane gas cylinders. Blue painted steel tube construction.

- Sturdy design and easy handling.
- Including securing chain.
- Secure grip with finger guard or red PVC handle.

Ordering information/dimensions		
Max. number of gas cylinders	1x 11 litres 1x 2.9 gal	2x 33 litres 2x 8.72 gal
Tyres	Solid rubber	Solid rubber
Ref. no.	7.01.000	7.01.010

3.5.6 Gas cylinder trolley for 20 litre (5.28 gal) gas cylinders

For the safe transport of gas cylinders. Blue painted steel tube construction.

- Sturdy design and easy handling.
- Including securing chain.
- Red PVC handle for safe grip.

Ordering information/dimensions	
Max. number of gas cylinders, 20 litres/5.28 gal	1
Tyres	Solid rubber
Ref. no.	7.01.020

3.5.7 Gas cylinder trolley with tail wheel for 40/50 litre (10.56/13.2 gal) gas cylinders

Gas cylinder trolley - 7.01.030

For the safe transport of gas cylinders. Blue painted steel tube construction. With fold-out tail wheel.

- Optionally with lockable toolbox including hose and torch holder and two welding rod holders.
- Finger guard for safe grip.

Ordering information/dimensions		
Max. number of gas cylinders, 50 litres/13.2 gal	2	2
Toolbox	•	–
Tyres	Solid rubber	Solid rubber
Ref. no.	7.01.035	7.01.030

Fire-proof refrigerators
for maximum fire protection

4

Fire-proof refrigerators
for maximum fire protection

Ordinary laboratory refrigerators are unpredictable sources of risk. Without any protection against thermal influences from the outside, they can pose a threat to people's lives or working materials in case of fire.

Store flammable substances safely, even cooled

In many laboratories, flammable media are used which must be stored cooled. Conventional laboratory refrigerators are, according to BG Chemie, not intended for this purpose, due to the lack of fire resistance. According to definition, these refrigerators are not intended for the storage of flammable liquids, but serve the purpose of accommodating reactants (flammable liquids) in the operation or the conduct of test procedures, e.g. crystallisation of products. Only the combination of Type 90 technology according to DIN EN 14470-1 with a cooling device with explosion-proof interior space, for example COOL line, offers the possibility to also store media cooled in accordance with the regulations in accordance with TRGS 510.

Type 90

Fire resistance

Fire resistance of 90 minutes

Fire-proof and explosion-proof Type 90 DÜPERTHAL safety storage cabinets offer reliable fire resistance of 90 minutes. In case of an emergency, this protection provides enough time to evacuate the building and a buffer for decisive firefighting.

Functional and safe

Despite all safety provisions, you will never have to do without functionality with DÜPERTHAL COOL line. With this range of cabinets, DÜPERTHAL combines laboratory cooling technology with maximum fire resistance, naturally type-tested in accordance with DIN EN 14470-1 and the laboratory furniture standard DIN EN 14727. Effective cooling from +2 °C (35.6 °F) to +16 °C (60.8 °F) and many additional functions create the surroundings for optimised and safe work processes adapted to your individual needs.

Fire-protected refrigerators Type 90

				from page
4.1	COOL standard XL	Type 90		301
4.2	COOL dual XL	Type 90		308
4.3	COOL UTS ergo LT	Type 90		316

COOL standard XL 4.1

Fire-proof refrigerator

Your added advantage with the COOL line!

- **Maximum fire protection**
  Maximum safety with Type 90 technology and cooled interior.
- **Safety**
  In case of fire, a thermocouple automatically initiates the uninterrupted closing of the doors.
- **Working safety**
  Equipotential bonding saddles as a standard on the cabinet help to prevent spark formation.

COOL standard XL in detail

The safety storage cabinet COOL standard XL is perfectly suited for the storage of large quantities of flammable liquids efficiently and safely. The temperature inside the refrigerator can be adjusted from +2 °C (35.6 °F) to +15 °C (59 °F) .

1 Efficient cooling
The cooling compartment has its own door for efficient and economical cooling.

2 Continuous temperature control
The temperature can be adjusted continuously from +2 °C (35.6 °F) to +15 °C (59 °F).

3 Constant temperatures
The integrated fan ensures stable temperatures in the entire, spacious cooling compartment.

4 Retention tank
The easily removable bottom tray can be cleaned and discharged without effort.

5 Self-closing in the event of fire
In case of fire, a thermocouple automatically initiates the uninterrupted closing of the doors. The closure control system ensures that the refrigerator is also self-closing.

6 Heat energy
Accumulated heat energy must be extracted via the ventilation openings and the exhaust air (connection) sockets. The air flow is monitored and if the ventilation fails, the refrigerator is automatically switched off. For this purpose, the COOL standard XL comes with an exhaust air monitoring unit for emitting warning signals. The unit is also optionally available with a ventilator.

COOL standard XL – Type 90

Discover the optimum solution for the storage of large quantities of flammable liquids: the COOL standard XL Type 90 by DÜPERTHAL with fire protection of 90 minutes. Experience the versatility and the comfort of the COOL standard XL.

COOL standard XL

Explosion-proof interior! | Ex II 3 G IIB+H2 T6 | ATEX

Interior fittings:

- 5 shelves made of shatter-proof glass.
- 1 bottom tray made of powder-coated sheet steel.
- 1 perforated sheet insert made of powder-coated sheet steel.

Construction:

- Wing door made of powder-coated sheet steel.
- Carcass made of powder-coated sheet steel.

Colour:

- Safety storage cabinet wing door in traffic white RAL 9016.
- Refrigerator wing door in white.
- Complete safety storage cabinet carcass in light grey RAL 7035.
- Individual colours possible.
- Base in slate grey RAL 7015.

Light grey **RAL 7035**

Traffic white **RAL 9016**

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

Ordering information

		COOL standard XL
		Width 900 mm/35.43 inch
Ref. no.		
With exhaust air monitoring unit and ventilator		89-200970-030
With exhaust air monitoring unit		89-200970-031
Details		Automatic switch-off in case of ventilation failure, 5 shelves made of shatter-proof glass, 1 bottom tray made of powder-coated sheet steel, 1 perforated sheet insert made of powder-coated sheet steel, and base
Dimensions		
Outer (width x depth x height)	[mm] [inch]	895 x 745 x 2080 35.23 x 29.33 x 81.89
Inner (width x depth x height)	[mm] [inch]	550 x 430 x 1400 21.65 x 16.92 x 55.12
Weight	[kg] [lbs]	499 1100.11
Storage capacity/standing surface (approx. data)		
Size	[0.5 l] [0.13 gal]	30 glass lab bottles
	[1.0 l] [0.26 gal]	20 glass lab bottles
	[2.5 l] [0.66 gal]	8 glass lab bottles
Ref. no.		
Additional interior fittings		
MPS-1 with automatic locking system		50-30000-920
Exhaust air monitoring unit		included

Other accessories on page 306. Other technical details and dimensions from page 307 onwards.

Accessories - varied and flexible

Choose the best suited items for your workplace from a variety of optional extras. Create your own individual work environment tailored to your requirements and work processes.

Unlocking system with RFID card
The COOL line is optimally suited for unlocking of the doors by RFID user card with MPS-1.

Absorber cloths
Absorber cloths are specially designed for use with chemicals and are thus ideal for picking up spilled hazardous substances.

Transport trolley
in conductive design with antistatic rollers to safely transport hazardous substances.

VisiCon safety container
with integrated sight glass and measuring scale.

Exhaust air systems
Monitoring exhaust air systems help prevent explosion risks in work areas, see programme section 7.

Red-Box
for safely storing documents exactly where they are needed.

Accessories	**Ref. no.**
Cylinder lock	included
Lock with profile half-cylinder	on request
Red-Box	2.233.04

Optional extras	
Transport trolley for flammable media	7.02.100
VisiCon - safety container, 1 litre (0.26 gal) | 2 litre (0.53 gal)	5.90.001 | 5.90.002
Exhaust air system or ventilator	see programme section 7 or at www.dueperthal.com
Safety container	see programme section 8 or at www.dueperthal.com
Absorber	see programme section 10 or at www.dueperthal.com

Tech specs COOL standard XL – Type 90

DÜPERTHAL

Technical details - COOL standard

Model size			XL
Load bearing capacity with uniformly distributed load (maximum load capacity/shelf)	[kg] [lbs]	Shelf	40 88.18
Maximum volume of the largest individual container which may be stored on any standing surface in the cabinet	[l] [gal]	–	10 2.64
Collection volume	[l] [gal]	Bottom tray	11 2.91
Voltage/frequency	V/Hz	Refrigerator	230/50
Temperature range*	[°C] [°F]		+2 to +15 +35.6 to +59
Refrigerant	–	–	R 600 a
Voltage/frequency	V/Hz	Exhaust air monitor with ventilator 2.00.320C Exhaust air monitor without ventilator 2.00.360C	230/50
Volumetric flow rate with 10-fold air exchange	approx. [m³/h] approx. [cubic ft/h]	The interior of the refrigerator is not ventilated to ensure efficient and environmentally friendly cooling	3 105.93
Pressure drop in the cabinet	[Pa] [Psi]	–	< 1 < 1

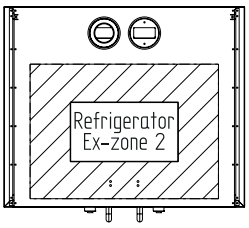
*** Note**

The installation loaction must ensure that the safety cabinet is not exposed to an operating temperature below -10 °C (14 °F) or above +32 °C (90 °F).

Dimensions - Interior fittings [mm] [inch] - COOL standard

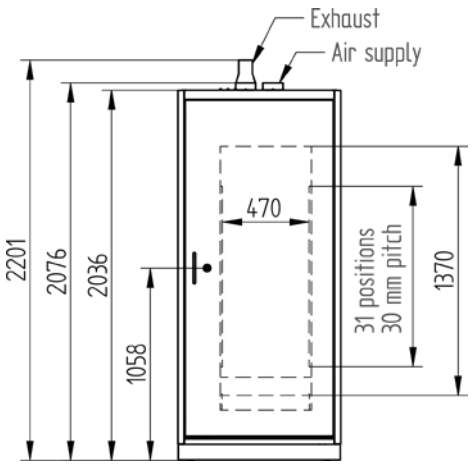
Model size	XL		
	Width	Depth	Height
Shelf	541 21.3	410 16.14	4 0.16
Bottom tray	480 18.09	300 11.82	90 3.55

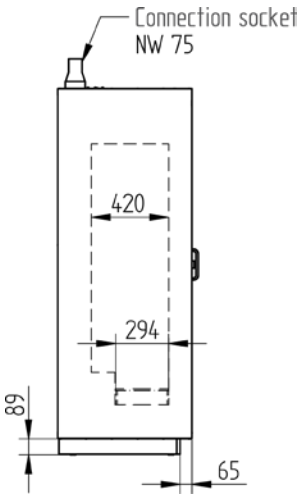
Zoning - COOL standard

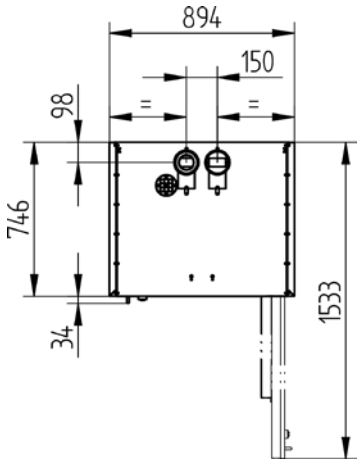


Front view	Side view	Top view

COOL standard XL







COOL dual XL 4.2

Fire-proof refrigerator

Your added advantage with the COOL line!

- **Maximum fire protection**
  Maximum safety with Type 90 technology and two separate cooled interiors.
- **Safety**
  In case of fire, a thermocouple automatically initiates the uninterrupted closing of the doors.
- **Working safety**
  Equipotential bonding saddles as a standard on the cabinet help to prevent spark formation.

COOL dual XL in detail

The safety storage cabinet COOL dual XL is ideal for efficient storage of flammable liquids with different temperature requirements. The temperature may be adjusted in any of the two cooling compartments between +3 °C (37.4 °F) and +16 °C (60.8 °F).

1 Dual and efficient cooling
Each of the two explosion-proof cooling compartments of the COOL dual XL has its own lockable door for efficient and economical cooling. The temperature can be adjusted continuously from +3 °C (37.4 °F) to +16 °C (60.8 °F).

2 Separate storage temperatures
For each of the two independent cooling compartments, different storage temperatures may be saved. In this way, substances with different storage temperatures can be stored together.

3 Self-closing in the event of fire
In case of fire, a thermocouple automatically initiates the uninterrupted closing of the doors. The closure control system ensures that the refrigerator is also self-closing.

4 Retention tank
The easily removable bottom tray can be cleaned and discharged without effort.

5 Independent safety
The two refrigerator units may be locked independently, while offering different locking system add-ons (see accessories).

6 Heat energy
Heat energy is extracted via the ventilation openings and the exhaust air (connection) sockets. The air flow is monitored and if the ventilation fails, the refrigerator is automatically switched off. This is done using an exhaust air monitoring unit for emitting warning signals, which is also available with a ventilator.

COOL dual XL – Type 90

The COOL dual XL Type 90 by DÜPERTHAL - the optimum solution for storing various flammable liquids with different temperature requirements at a fire protection rate of 90 minutes. Discover the versatility and the comfort of the COOL dual XL.

COOL dual XL

Explosion-proof interior! | Ex II 3 G EX nA II T6 | ATEX

Interior fittings per cooling compartment:

- 3 shelves made of shatter-proof glass.
- 1 bottom tray made of powder-coated sheet steel.
- 1 perforated sheet insert made of powder-coated sheet steel.

Construction:

- Wing door made of powder-coated sheet steel.
- Carcass made of powder-coated sheet steel.

Colour:

- Safety storage cabinet wing door in traffic white RAL 9016.
- Refrigerator wing door in white.
- Complete safety storage cabinet carcass in light grey RAL 7035.
- Individual colours possible.
- Base in slate grey RAL 7015.

Light grey **RAL 7035**

Traffic white **RAL 9016**

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

Ordering information

		COOL dual XL
		Width 900 mm/35.43 inch
Ref. no.		
With exhaust air monitoring unit and ventilator		89-200970-040
With exhaust air monitoring unit		89-200970-041
Details		Automatic switch-off in case of ventilation failure, for each cooling compartment, 3 shelves made of shatter-proof glass, 1 bottom tray made of powder-coated sheet steel, 1 perforated sheet insert made of powder-coated sheet steel, and base.
Dimensions		
Outer (width x depth x height)	[mm] [inch]	895 x 745 x 2080 35.23 x 29.33 x 81.89
Inner (width x depth x height)	[mm] [inch]	455 x 435 x 669 17.91 x 17.13 x 26.34
Weight	[kg] [lbs]	499 1100.11
Storage capacity/standing surface (approx. data)		
Size	[0.5 l] [0.13 gal]	30 glass lab bottles
	[1.0 l] [0.26 gal]	20 glass lab bottles
	[2.5 l] [0.66 gal]	8 glass lab bottles
Ref. no.		
Additional interior fittings		
MPS-1 with automatic locking system		50-30000-920
Additional locking system for the two cooling compartments		29-80970-072
Temperature probe for temperature measurement		29-80970-074
Analysing unit for recording		29-80970-073
Exhaust air monitoring unit		included

Other accessories on page 314. Other technical details and dimensions from page 315 onwards.

Accessories - varied and flexible

Choose the best suited items for your workplace from a variety of optional extras. Create your own individual work environment tailored to your requirements and work processes.

Unlocking system with RFID card
The COOL line is optimally suited for unlocking of the doors by RFID user card with MPS-1.

Temperature surveillance
The minimum and maximum values of the interior temperatures can be monitored for consistent process documentation.

Computer interface
A computer interface can be used to read and log all measurable temperatures and parameters, including the compressor statuts abd alarm states which have occurred.

Additional locking system
The two cooling compartments in the interior of the safety storage cabinet can have separate locking systems.

Transport trolley
in conductive design with antistatic rollers to safely transport hazardous substances.

Absorber cloths
Absorber cloths are specially designed for use with chemicals and are thus ideal for picking up spilled hazardous substances.

VisiCon safety container
with integrated sight glass and measuring scale.

Red-Box
for safely storing documents exactly where they are needed.

Accessories	**Ref. no.**
Cylinder lock	included
Lock with profile half-cylinder	on request
Red-Box	2.233.04

Optional extras	
Transport trolley for flammable media	7.02.100
VisiCon - safety container, 1 litre (0.26 gal) | 2 litre (0.53 gal)	5.90.001 | 5.90.002
Exhaust air system or ventilator	see programme section 7 or at www.dueperthal.com
Safety container	see programme section 8 or at www.dueperthal.com
Absorber	see programme section 10 or at www.dueperthal.com

Tech specs COOL dual XL – Type 90

Technical details - COOL dual

Model size			XL
Load bearing capacity with uniformly distributed load (maximum load capacity/shelf)	[kg] [lbs]	Shelf	40 88.18
Maximum volume of the largest individual container which may be stored on any standing surface in the cabinet	[l] [gal]	–	5 1.32
Collection volume	[l] [gal]	Bottom tray	5.5 1.45
Voltage/frequency	V/Hz	Refrigerator	230/50
Temperature range*	[°C] [°F]		+3 to +16 +37.4 to +60.8
Refrigerant	–	–	R 600 a
Voltage/frequency	V/Hz	Exhaust air monitor with ventilator 2.00.320C Exhaust air monitor without ventilator 2.00.360C	230/50
Volumetric flow rate with 10-fold air exchange	approx. [m³/h] approx. [cubic ft/h]	The interior of the refrigerator is not ventilated to ensure efficient and environmentally friendly cooling	3 105.93
Pressure drop in the cabinet	[Pa] [Psi]	–	< 1 < 1

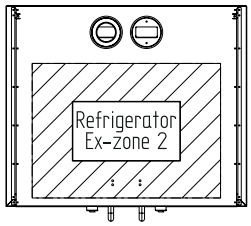
*** Note**

The installation loaction must ensure that the safety cabinet is not exposed to an operating temperature below -10 °C (14 °F) or above +32 °C (90 °F).

Dimensions - Interior fittings [mm] - COOL dual
[inch]

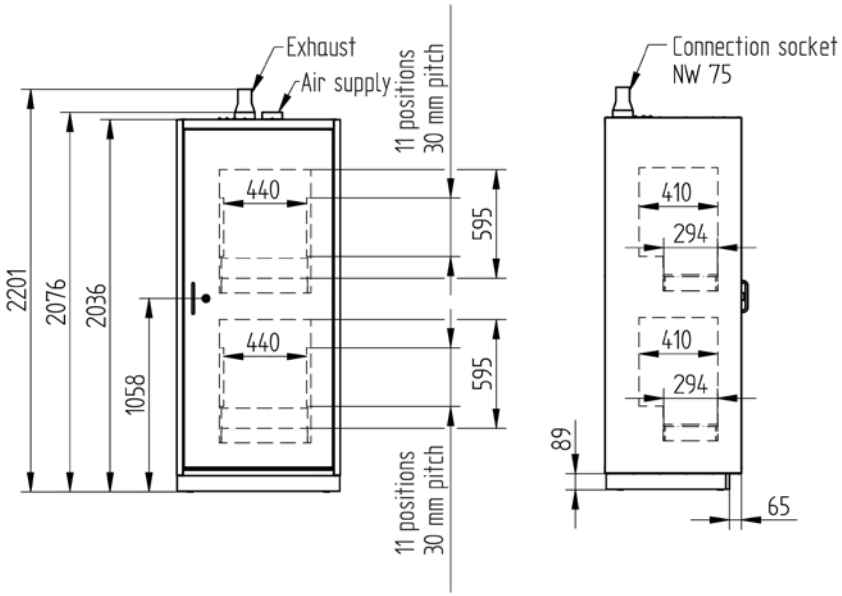
Model size	XL		
	Width	Depth	Height
Shelf	473 18.63	410 16.14	4 0.16
Bottom tray	466 18.35	300 11.82	50 1.97

Zoning - COOL dual

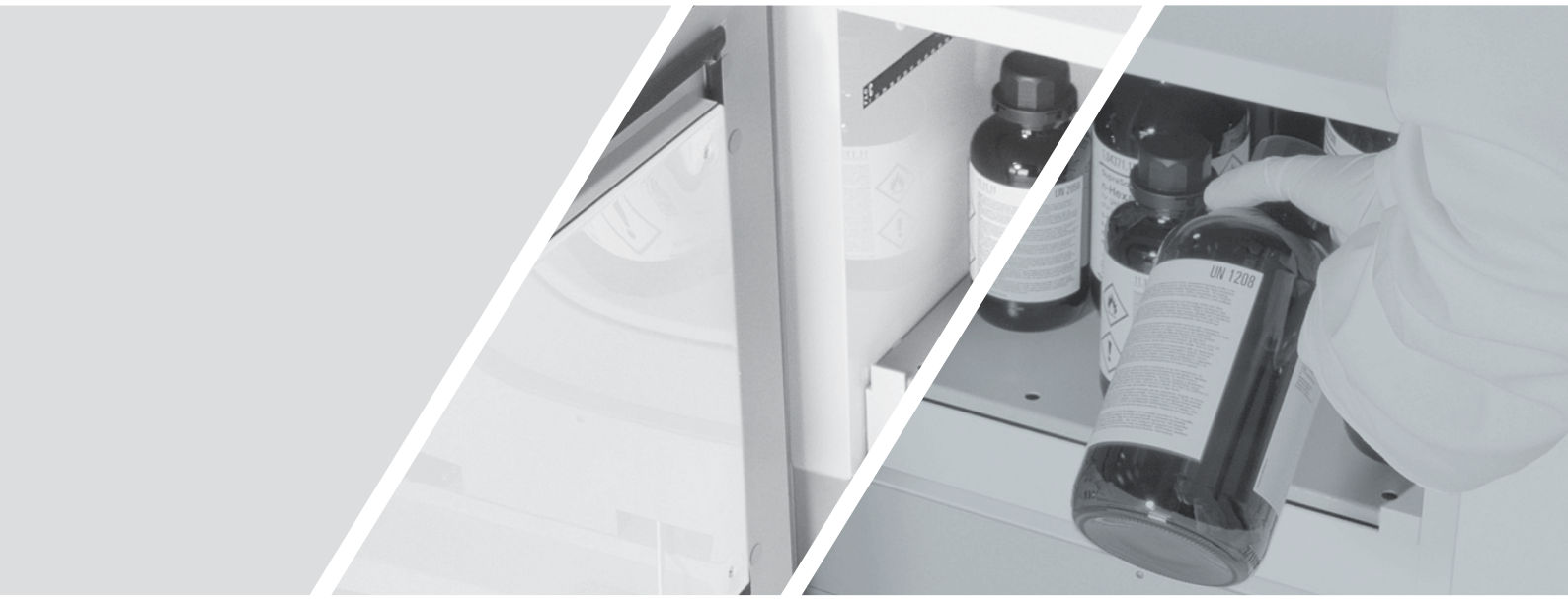


Front view | Side view | Top view

COOL dual XL



COOL UTS ergo LT 4.3



Fire-proof refrigerator

Your added advantage with the COOL line!

- **Maximum fire protection**
  Maximum safety with Type 90 technology and cooled interior.
- **Safety**
  In case of fire, a thermocouple automatically initiates the uninterrupted closing of the doors.
- **Working safety**
  Equipotential bonding saddles as a standard on the cabinet help to prevent spark formation.

COOL UTS ergo LT in detail

The COOL UTS ergo LT combines all benefits of the COOL line in one practical under-bench cabinet. It is ideal for the space-saving and safe storage of flammable liquids at temperatures between +2 °C (35.6 °F) and +10 °C (50 °F).

1 Efficient cooling
The temperature can be continuously changed from 2 °C (35.6 °F) to +10 °C (50 °F) for efficient and economic cooling. An indicator light allows visual monitoring of the cooling function.

2 Temperature monitoring
With a temperature strip directly inside the explosion-proof cooling compartment, the temperature can be easily checked.

3 Retention tank
The easily removable bottom tray can be cleaned and discharged without effort.

4 Heat energy
Accumulated heat energy must be extracted via the ventilation openings and the exhaust air (connection) sockets. Harmful substances or vapours, which collect at the bottom, are safely picked up through the slotted base and removed with the exhaust air.

5 Ergonomics
Containers can be placed in the cabinet or removed with both hands. In case of fire, a thermocouple automatically initiates the closing of the wing door.

6 Mobility
The under-bench cabinet is optionally available with a roller set. This facilitates integration into existing equipment.

COOL UTS ergo LT – Type 90

The COOL UTS ergo LT Type 90 by DÜPERTHAL – the compact under-bench solution for storage of flammable liquids with fire protection of 90 minutes. Discover the versatility and the comfort of the COOL UTS ergo LT.

COOL UTS ergo LT

Explosion-proof interior! | Ex II 3 G | ATEX

Interior fittings:

- Left side: cooling compartment with bottom tray made of polypropylene.
- Right side: technology unit.

Construction:

- Wing doors, powder-coated sheet steel.
- Carcass made of powder-coated sheet steel.
- Cooling compartment made of polypropylene.

Colour:

- Wing doors in traffic white RAL 9016.
- Complete safety storage cabinet carcass in light grey RAL 7035.
- Base in slate grey RAL 7015.
- Individual colours possible.

Light grey **RAL 7035**

Traffic white **RAL 9016**

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

Ordering information

		COOL UTS ergo LT
		Width 1100 mm/43.31 inch
Ref. no.		
Interior fittings sheet steel		29-061168-021
Details		1 bottom tray made of polypropylene 1 perforated sheet insert and base 35 mm (1.38 inch)
Dimensions		
Outer (width x depth x height)	[mm] [inch]	1100 x 595 x 635 43.31 x 23.43 x 25
Inner (width x depth x height)	[mm] [inch]	350 x 390 x 365 13.78 x 13.35 x 14.37
Weight	[kg] [lbs]	217 478.4
Storage capacity/standing surface (approx. data)		
Size	[0.5 l] [0.13 gal]	18 glass lab bottles
	[1.0 l] [0.26 gal]	12 glass lab bottles
	[2.5 l] [0.66 gal]	5 glass lab bottles
Ref. no.		
Additional interior fittings		
MPS-1 with automatic locking system		50-30000-920
Roller set		29-11400-011
Classical base 85 mm/3.42 inch (instead of 35 mm/1.38 inch)		29-11160-084
ToeKick base 85 mm/3.42 inch		29-11160-085
Exhaust air monitoring unit		on request

Other accessories on page 322. Other technical details and dimensions from page 323 onwards.

Accessories - varied and flexible

Choose the best suited items for your workplace from a variety of optional extras. Create your own individual work environment tailored to your requirements and work processes.

Unlocking system with RFID card
The COOL line is optimally suited for unlocking of the doors by RFID user card with MPS-1.

Exhaust air systems
Monitoring exhaust air systems help prevent explosion risks in work areas, see programme section 7.

Absorber cloths
Absorber cloths are specially designed for use with chemicals and are thus ideal for picking up spilled hazardous substances.

VisiCon safety container
with integrated sight glass and measuring scale.

ToeKick base
for ergonomic working. The user can easily use the worktop above the UTS ergo line and BENCH line, protecting their back (see additional interior fittings).

Roller set
The under-bench cabinet is optionally available with a roller set. This facilitates integration into existing equipment.

Transport trolley
in conductive design with antistatic rollers to safely transport hazardous substances.

Accessories	**Ref. no.**
Cylinder lock	included
Lock with profile half-cylinder	on request

Optional extras	
Transport trolley for flammable media	7.02.100
VisiCon - safety container, 1 litre (0.26 gal) | 2 litre (0.53 gal)	5.90.001 | 5.90.002
Exhaust air system or ventilator	see programme section 7 or at www.dueperthal.com
Safety container	see programme section 8 or at www.dueperthal.com
Absorber	see programme section 10 or at www.dueperthal.com

Technical details - COOL UTS ergo

Model size			LT
Load bearing capacity with uniformly distributed load (maximum load capacity/shelf)	[kg] [lbs]	Perforated sheet insert	40 88.18
Maximum volume of the largest individual container which may be stored on any standing surface in the cabinet	[l] [gal]	–	10 2.64
Collection volume	[l] [gal]	Bottom tray	11 2.91
Voltage/frequency	V/Hz	Refrigerator	230/50
Temperature range*	[°C] [°F]		+2 to +10 +35.6 to +50
Refrigerant	–	–	R 600 a
Pressure drop in the cabinet	[Pa] [Psi]	–	< 1 < 1

*** Note**

The installation loaction must ensure that the safety cabinet is not exposed to an operating temperature below -10 °C (14 °F) or above +32 °C (90 °F).

Dimensions

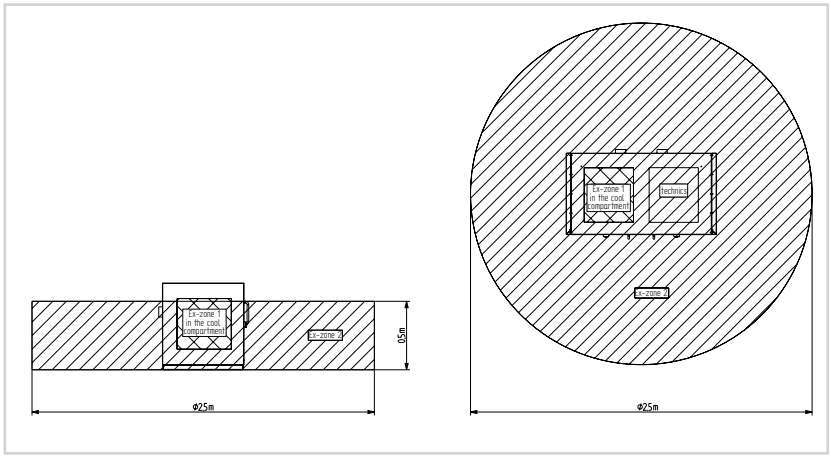
Interior fittings [mm] **- COOL UTS ergo**
[inch]

Model size	LT		
	Width	Depth	Height
Bottom tray	382 15.04	380 14.96	76.5 3.01

Note:

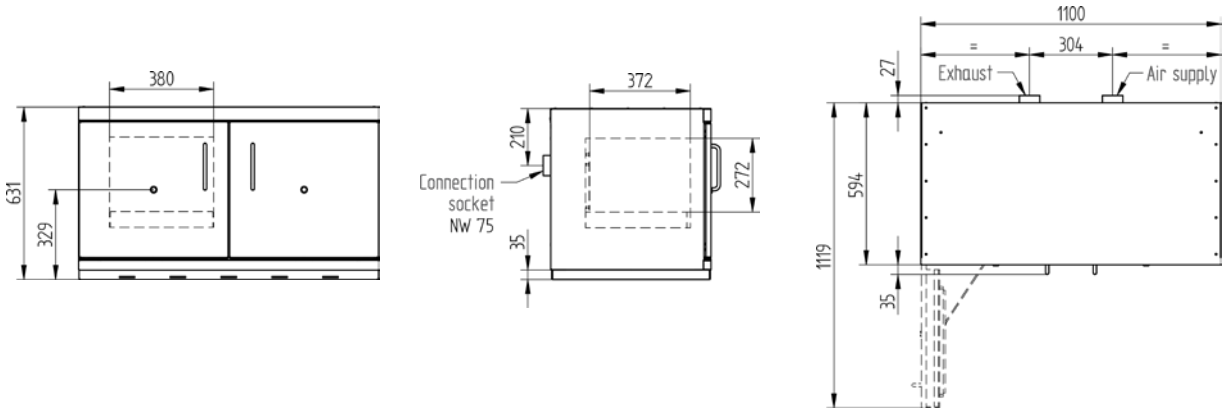
Accumulated heat energy must be extracted via the ventilation openings and the exhaust air (connection) sockets. An exhaust air monitoring unit with ventilator and alarm function is optionally available.

Zoning - COOL UTS ergo



Front view | Side view | Top view

COOL UTS ergo LT



Safety storage cabinets
for batteries and clean rooms

5

Safety storage cabinets for batteries and clean rooms

				from page
5.1	BATTERY XL	Type 90		327
5.2	COOL battery XL	Type 90		336
5.3	CLASSIC line pure	Type 90		346
5.4	ACID line pure			353

BATTERY XL 5.1

Storage of lithium-ion batteries

Standard storage cabinets do not protect the stored working materials from external thermal influences. In case of fire this can cause serious injury to employees and damage to property. DÜPERTHAL Type 90 safety storage cabinets offer reliable 90-minute fire protection in accordance with DIN EN 14470-1. The BATTERY XL safety storage cabinet is specially constructed for the high demands on a safe storage of lithium-ion batteries which could catch fire in the event of malfunctions.

Type 90

Fire resistance

Fire resistance of 90 minutes and protection against backdrafts

Type 90 DÜPERTHAL safety storage cabinets offer fire resistance of 90 minutes – enough time to evacuate the building and a safe buffer for firefighting to commence. In an emergency, thermocouples initiate the closing of the doors automatically. An absolutely new feature of the BATTERY XL is its reaction towards fires originating inside the cabinet. This automatically closes and locks the cabinet doors to prevent your employees from opening them and potentially causing a backdraft. Only authorised persons and experts of the fire brigade can unlock the doors.

Storage in accordance with insurance-related requirements

The BATTERY XL enables you to fulfil all legal provisions, especially the storage requirements of FM Global and those mentioned in the GDV's information leaflet on lithium-ion batteries, published by the VdS. Additional fittings for a reduced risk with self-igniting batteries ensure process reliability in a sustainable way and can thus be taken into account in your risk assessment.

Safety storage cabinet
for the storage of batteries

Your added advantage with the BATTERY XL!

» **Health**
Ventilation on each cabinet level provides optimised air exchange.

» **Safety**
In case of fire - inside or outside - a thermocouple automatically initiates the uninterrupted closing of the doors.

» **Backdraft protection**
Automatic door locking to prevent backdrafts in case of fire.

BATTERY XL in detail

The BATTERY XL safety storage cabinets have varied additional functionalities which help increase safety and work comfort. In this way, all safety-relevant components are not exposed to daily dynamic loading and are therefore free from attrition and mechanical wear.

1 Integrated door arrest system

As a standard, the doors of the safety storage cabinets are fitted with an integrated door arrest system, which allows comfortable handling of the batteries.

2 The innovation in preventive fire protection

Self-closing and self-locking doors to prevent backdrafts from the inside.

3 Self-closing in case of fire

In case of a fire inside or outside of the safety storage cabinet, separate thermocouples automatically initiate the closing of the doors.

4 Protection from backdrafts

After automatic closing of the doors and locking in the event of fire, e.g. through self-igniting of lithium-ion batteries, they can only be unlocked by authorised experts.

5 Extraction

Fumes that are hazardous to health are extracted from above the bottom tray and from every cabinet level.

6 Prevention with Cabi2Net and Smart Control

Cabi2Net and Smart Control can be used with a temperature probe as early warning systems to detect a temperature increase inside the cabinet.

BATTERY XL – Type 90

The safety storage cabinet BATTERY XL Type 90 is the perfect solution to safely store lithium-ion batteries with maximum fire protection from the inside and outside, including protection against backdrafts.

BATTERY XL

Battery storage with maximum safety

The BATTERY XL enables you to comply with all laws, directives and regulations, especially the storage requirements of FM Global and those mentioned in the GDV's information leaflet on lithium-ion batteries, published by the VdS. Additional fittings for a reduced risk with self-igniting batteries ensure process reliability in a sustainable way and can thus be taken into account in your risk assessment.

Interior fittings:

» Storage shelves, bottom trays and perforated sheet inserts made of sheet steel.

Construction:

» Wing doors, powder-coated sheet steel.
» Outer carcass, powder-coated sheet steel.
» Inner carcass made of high-quality decor panels.

Colour:

» Wing doors in bright green, PANTONE 389 C.
» Carcass completely in light grey RAL 7035.
» Individual colours possible.
» Base in slate grey RAL 7015.

Golden yellow **RAL 1004**
Light grey **RAL 7035**
Bright green **PANTONE 389 C**
Pure white **RAL 9010**

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

Ordering information

BATTERY XL standard

with storage shelves

Ref. no.		
with classical wing door technology		69-201267-030
Details		3 storage shelves, 1 bottom tray, 1 perforated sheet insert and base
Dimensions		
Outer (width x depth x height)	[mm] [inch]	1195 x 595 x 2080 47.05 x 23.43 x 81.89
Inner (width x depth x height)	[mm] [inch]	1099 x 446 x 1830 43.27 x 17.56 x 72.05
Weight	[kg] [lbs]	469 1033.97

Ref. no.	
Additional interior fittings	
Storage shelf	on request
Red-Box	2.233.04

Other accessories on page 334. Other technical details and dimensions from page 335 onwards.

Accessories - varied and flexible

Choose the best suited items for your workplace from a variety of optional extras. Create your own individual work environment tailored to your requirements and work processes.

Cabi2Net
for central control of work processes. Configuration according to individual requirements.

Smart Control with touch display
to optimize process reliability in combination with sensors. Automatic fault notification via SMS to a mobile device possible.

Status query door opening
This sensor can provide an easy way to monitor the status of the door (open/closed).

Temperature sensor
This is an early warning system for the detection of thermal events inside the cabinet.

Accessories	**Ref. no.**
Pipe penetration (reclosable)	on request
Pipe penetration	29-70000-048
Cylinder lock	included
Lock with profile half-cylinder	on request
Red-Box	2.233.04

Optional extras	
Cabi2Net – individual configuration	on request
Smart Control with touch display	on request
Sensors	see programme section 6 or at www.dueperthal.com
Exhaust air system or ventilator	see programme section 7 or at www.dueperthal.com
Safety container	see programme section 8 or at www.dueperthal.com
Absorber	see programme section 10 or at www.dueperthal.com

Tech specs BATTERY XL – Type 90

Technical details - BATTERY

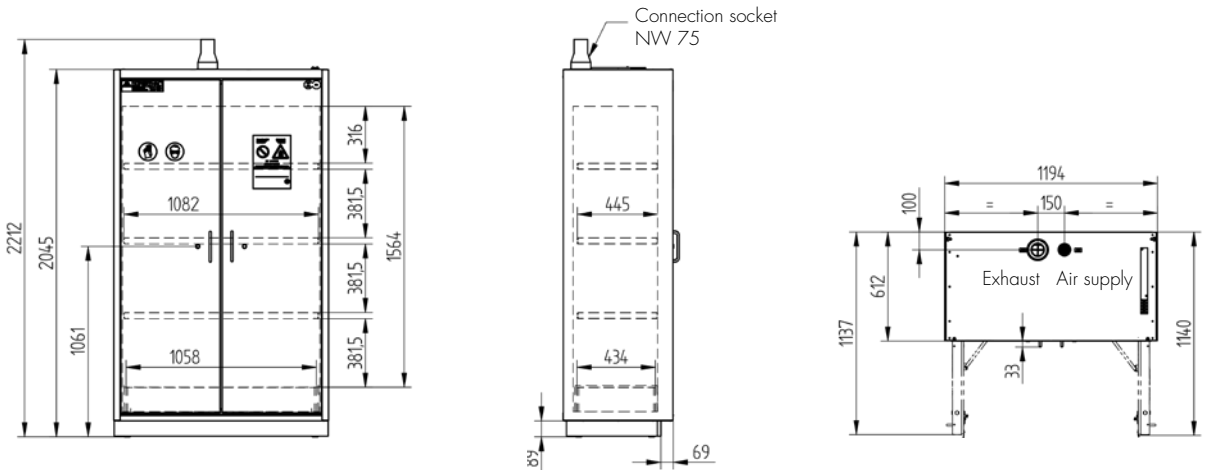
Model size		XL
Load bearing capacity with uniformly distributed load (maximum load capacity/shelf)	[kg] [lbs]	75 165.35
Maximum volume of the largest individual container that may be placed on the respective standing surface of the cabinet	[l] [gal]	44 11.62
Collection volume of bottom tray	[l] [gal]	49 12.94
Volumetric flow rate with 10-fold air exchange	approx. [m³/h] approx. [cubic ft/h]	10 353.1
Pressure drop in the cabinet	[Pa] [Psi]	<1 <1

Dimensions – Interior fittings [mm] - **BATTERY**
[inch]

Model size	XL		
	Width	Depth	Height
Storage shelf	1090 42.91	430 16.93	35 1.38
Bottom tray	1085 42.72	440 17.32	105 4.13
Perforated sheet insert	1067 42	422 16.61	105 4.13

Front view	Side view	Top view

BATTERY XL



COOL battery XL 5.2

Safe storage of on-board batteries

Utmost care is essential in the handling of hazardous substances. Conventional refrigerators are an unpredictable source of danger. Without any protection against thermal influences from the outside, they can pose a threat to people's lives or working materials in case of fire. The COOL battery XL guarantees a resistance of 90 minutes in case of fire, type-tested according to DIN EN 14470-1. In case of fire, all employees will have enough time to leave the danger zone and the fire brigade will have the opportunity to extinguish the source of the fire safely.

Type 90

Fire resistance

Safety and efficiency for nickel-cadmium batteries

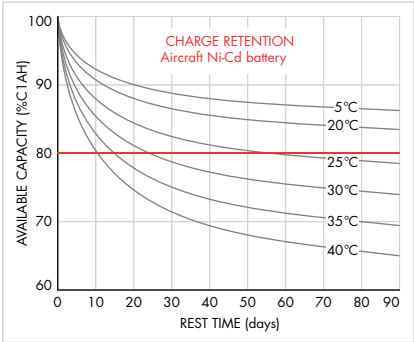
The COOL battery XL safety storage cabinet is designed to meet the stringent requirements of the aviation industry. Aircraft nickel-cadmium batteries are required to be stored in a safe and controlled environment to ensure that their life and serviceable condition are maintained. Manufacturer's specifications, instructions for use and storage procedures specify that batteries are to be stored in a cool and dry environment, within specific temperature ranges. The batteries are required to be constantly monitored in accordance with manufacturer's requirements to comply with their continued airworthiness status.

Cooled battery storage

5.2

Compliance with requirements

COOL battery XL safety storage cabinets meet the battery manufacturer's requirements and also European safety standards. With an uninterruptible power supply (UPS) and digital temperature recording system, data is provided to support the maintenance documentation, enabling controlled storage.



Additional days of serviceability

Leading battery manufactures' recommendations for inactive stand-by storage permits extended duration of up to 90 days, when the battery is stored in a controlled environment with a temperature of +5 °C (41 °F). Full discharge and recharging are therefore no longer required, and this gives batteries up to 66 additional days of serviceability.

Safety storage cabinet
for the chilled storage of batteries

Your added advantage with COOL battery XL!

» **Safety**
In case of fire, a thermocouple automatically initiates the uninterrupted closing of the doors.

» **Environmental protection**
Ideal storage temperature increases the service life of the batteries by up to 30 % and they can be stored for longer periods until until they reach 80 % of their capacity.

» **Efficiency**
With storage of batteries at an optimum temperature of +5 °C (41 °F), up to 30 % fewer batteries are needed.

COOL battery XL in detail

Apart from tested safety on a high level, our safety storage cabinet COOL battery XL Type 90 convinces through its ergonomic and durable construction. Using the sophisticated accessories, you may adjust your safety storage cabinet individually to your application.

1 Battery storage at optimum temperature
The temperature can be continuously varied from +1 °C (33.8 °F) to +15 °C (59 °F), ideal for battery storage at an optimum temperature of +5 °C (41 °F).

2 Self-closing in case of fire
In case of fire, a thermocouple automatically initiates the uninterrupted closing of the doors. The closure control system ensures that the refrigerator is also self-closing.

3 Inner lining and collecting device
All interior metal parts are powder-coated to prevent spark formation. The bottom tray collects any escaping liquid.

4 Exhaust air monitoring unit
The air flow is monitored and if the ventilation fails, the refrigerator is automatically switched off. For this purpose, the COOL battery XL comes with an exhaust air monitoring unit for emitting warning signals. For inactive long-term storage, the batteries must be stored in a temperature-monitored environment.

5 Storage shelves
Storage shelves with support rollers and arrest system for easy and safe loading and unloading, height adjustable within pitch.

6 Battery lifter
The cabinet is optionally available with an easy-loading battery lifter which integrates with the cabinet shelving rollers to manage the transitions to and from the cabinet by a single user.

COOL battery XL – Type 90

The COOL battery XL is specially designed for the storage of aircraft batteries with the goal to increase serviceability of the nickel-cadmium batteries. This gives you maximum safety and increased efficiency with DÜPERTHAL quality.

COOL battery XL

Explosion-proof interior! | Ex II 3 G IIB+H2 T6 | ATEX

Interior fittings:

- 3 storage shelves with rollers and arrest system.
- 1 bottom tray made of powder-coated sheet steel.
- 1 perforated sheet insert made of powder-coated sheet steel.
- Cabinet is optionally supplied with easy-loading battery lifter.

Construction:

- Wing doors, powder-coated sheet steel.
- Outer carcass, powder-coated sheet steel.
- Inner carcass made of high-quality decor panels.

Colour:

- Safety storage cabinet wing door in traffic white RAL 9016.
- Refrigerator wing doors in white.
- Complete safety storage cabinet carcass in light grey RAL 7035.
- Individual colours possible for the safety storage cabinet.
- Base in slate grey RAL 7015.

Light grey **RAL 7035**

Traffic white **RAL 9016**

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

Ordering information

		COOL battery XL
		with storage shelves
Ref. no.		
With exhaust air monitoring unit and ventilator		89-200970-035
With exhaust air monitoring unit		89-200970-036
Details		3 storage shelves with rollers and arrest system, 1 bottom tray, 1 perforated sheet insert and base
Dimensions		
Outer (width x depth x height)	[mm] [inch]	895 x 745 x 2080 35.24 x 29.33 x 81.89
Inner (width x depth x height)	[mm] [inch]	550 x 430 x 1400 21.65 x 16.92 x 55.12
Weight	[kg] [lbs]	499 1100.1
Storage capacity/standing surface (approx. data)		4 x Ni-Cd batteries (aviation)
Ref. no.		
Additional interior fittings		
Storage shelf		on request

Other accessories on page 344. Other technical details and dimensions from page 345 onwards.

Accessories - varied and flexible

Choose the best suited items for your workplace from a variety of optional extras. Create your own individual work environment tailored to your requirements and work processes.

Unlocking system with RFID card
The COOL battery XL is optimally suited for unlocking of the doors by RFID user card with MPS-1.

Cabi2Net
for central control of work processes. Configuration according to individual requirements.

Battery lifter
for easy loading; integrates with the cabinet shelving rollers.

Red-Box
for safely storing documents exactly where they are needed.

Accessories	**Ref. no.**
Cylinder lock	included
Lock with profile half-cylinder	on request
MPS-1 with automatic locking system	50-30000-920
Red-Box	2.233.04

Optional extras	
Cabi2Net – individual configuration	on request
Battery lifter	1.28.200
Exhaust air system or ventilator	see programme section 7 or at www.dueperthal.com
Safety container	see programme section 8 or at www.dueperthal.com
Absorber	see programme section 10 or at www.dueperthal.com

Tech specs COOL battery XL – Type 90

Technical details - COOL battery

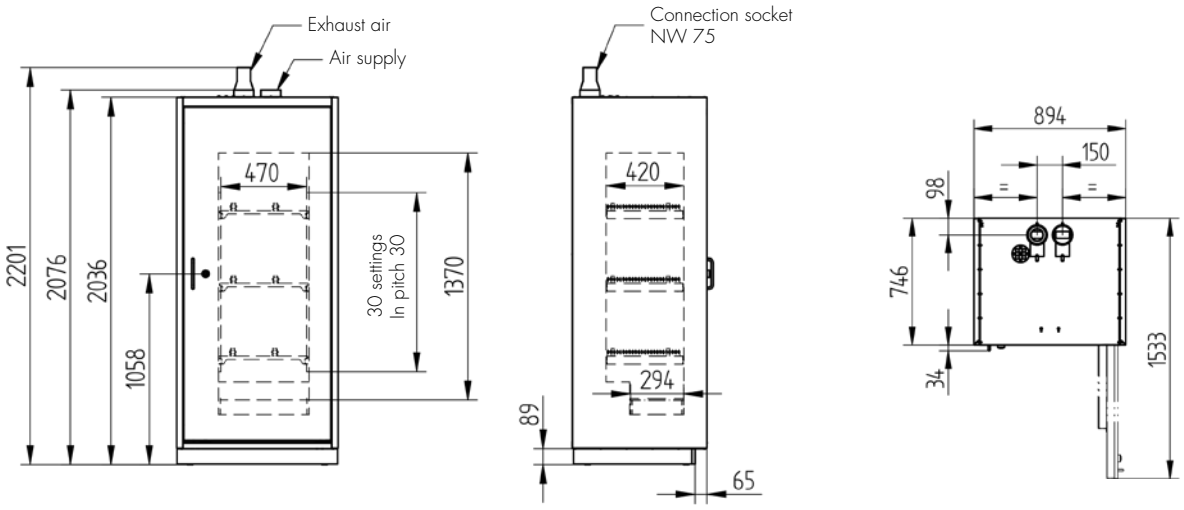
Model size			XL
Load bearing capacity with uniformly distributed load (maximum load capacity/shelf)	[kg] [lbs]	Storage shelf	80 176.37
Collection volume	[l] [gal]	Bottom tray	11 2.91
Voltage/frequency	[V/Hz]	Refrigerator	230/50
Temperature range*	[°C] [°F]	–	+1 to +15 +33.8 to +59
Refrigerant	–	–	R 600 a
Voltage/frequency	[V/Hz]	Exhaust air monitor with ventilator 2.00.320C Exhaust air monitor without ventilator 2.00.360C	230/50
Volumetric flow rate with 10-fold air exchange	approx. [m³/h] approx. [cubic ft/h]	The interior of the refrigerator is not ventilated to ensure efficient and environmentally friendly cooling.	3 105.93
Pressure drop in the cabinet	[Pa] [Psi]	–	< 1 < 1

*** Note**

The installation loaction must ensure that the safety cabinet is not exposed to an operating temperature below -10 °C (14 °F) or above +32 °C (90 °F).

Front view	Side view	Top view

COOL BATTERY XL



CLASSIC line pure 5.3

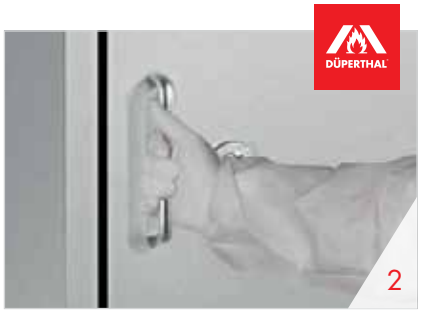
Safety storage cabinets
for the storage of flammable hazardous substances in clean rooms

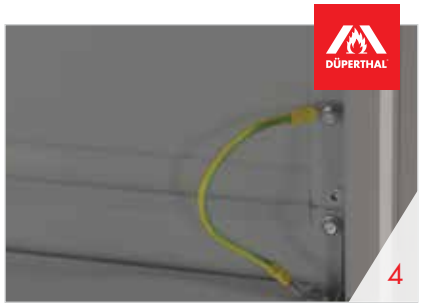
Your added advantage with the CLASSIC line pure!

- **Health**
  Ventilation on each cabinet level provides optimised air exchange.
- **Safety**
  In case of fire, a thermocouple automatically initiates the uninterrupted closing of the doors.
- **Working safety**
  Equipotential bonding saddles as a standard on the cabinet help to prevent spark formation.

CLASSIC line pure in detail

Safety storage cabinet with wing door for the storage of hazardous substances in clean rooms and working areas in accordance with TRGS 510. Suitable for installation in Class 5 clean rooms according to DIN EN ISO 14644-1 (M 3.5 = 100 according to US Fed. Std. 209e).





1 Self-closing in case of fire
Doors have an integrated arrest system as a standard, allowing containers to be placed in and removed from the cabinet with both hands. In case of fire, a thermo-couple automatically initiates the uninterrupted closing of the doors.

2 Lock arrangement
Ergonomic lock arrangement at handle level and integrated locking system-compatible locking cylinder in the door.

3 Ventilation
Ventilation at every cabinet level, visual inspection of the venting cut-off flaps.

4 Earthing (system)
Equipotential bonding saddles as a standard on the cabinet unit for flammable liquids help to prevent spark formation.

5 Shelves
By the variable height adjustment, the shelves offer maximum storage capacity and the optimal use of space.

6 VisiCon® safety containers
Safety containers for clean room use with integral inspection glass and measuring scale are optionally available.

CLASSIC line pure – Type 90

Safety storage cabinet with wing door for the storage of hazardous substances in clean rooms and working areas in accordance with TRGS 510. Suitable for installation in Class 5 clean rooms according to DIN EN ISO 14644-1 (M 3.5 = 100 according to US Fed. Std. 209e).

CLASSIC pure M

Interior fittings:

» Interior trim and furnishings made of stainless steel.

Construction:

» Insulation and fire retardant coating encapsulated and sealed.
» Outer carcass, powder-coated sheet steel.
» Special GSB-quality polyester powder for a particularly closed surface in the highest quality.
» Door handle and base trim made of stainless steel.

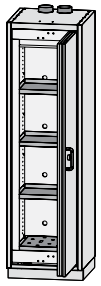
Colour:

» Silver.

Tested safety at a very high level including:

DIN EN 14470-1
DIN EN 14727

Ordering information



		CLASSIC pure M
Ref. no.		
Interior fittings – stainless steel		29-200660-006
Details		3 shelves, 1 bottom tray, 1 perforated sheet insert and base
Dimensions		
Outer (width x depth x height)	[mm] [inch]	595 x 595 x 2080 23.43 x 23.43 x 81.89
Inner (width x depth x height)	[mm] [inch]	499 x 446 x 1830 19.65 x 17.56 x 72.05
Weight	[kg] [lbs]	268 590.83
Storage capacity/standing surface (approx. data)		
Size	[0,5 l/0.26 gal] [1,0 l/0.26 gal] [2.5 l/0.66 gal]	34 glass lab bottles 20 glass lab bottles 8 glass lab bottles

Ref. no.		
Additional interior fittings	**Material**	
Shelf	Stainless steel	29-80660-220

Other technical details and dimensions from page 352 onwards.

Tech specs CLASSIC line pure M - Type 90

Technical details - CLASSIC line pure

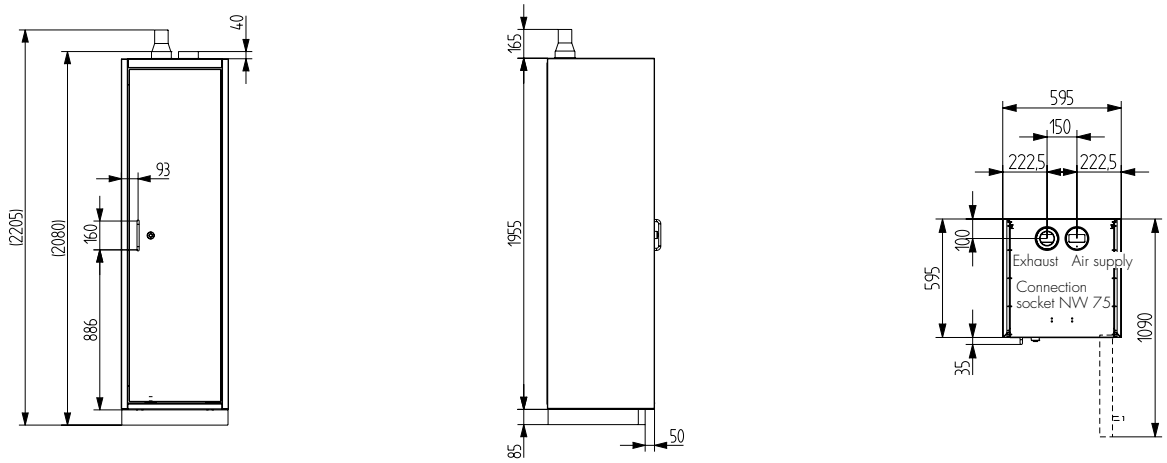
Model size		**M**
Load bearing capacity with uniformly distributed load (maximum load capacity/shelf)	[kg] [lbs]	75 165.35
Maximum volume of the largest individual container that may be placed on the respective standing surface of the cabinet	[l] [gal]	19 5.02
Collection volume of bottom tray	[l] [gal]	21 5.55
Volumetric flow rate with 10-fold air exchange	approx. [m³/h] approx. [cubic ft/h]	4,5 158.9
Pressure drop in the cabinet	[Pa] [Psi]	<1 <1

Dimensions – Interior fittings [mm] **- CLASSIC line pure**
[inch]

Model size	**M**		
	Width	Depth	Height
Shelf	490 19.3	430 16.93	35 1.38
Bottom tray	485 19.1	440 17.32	105 4.13
Perforated sheet insert	432 17	422 16.61	105 4.13

Front view	Side view	Top view

CLASSIC pure M



ACID line pure 5.4

Safety storage cabinet
for the storage of acids and lye in clean rooms

» Not suitable for the storage of flammable liquids.

Your added advantage with the ACID line pure!

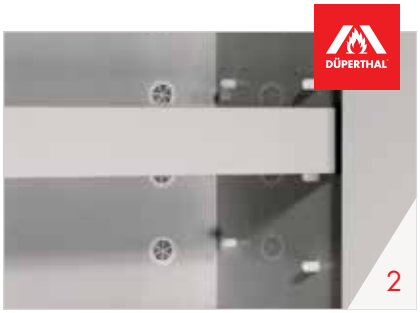
» **Health**
Ventilation on each cabinet level provides optimised air exchange.

» **Safety**
Maximum media resistance from polypropylene interior fittings and collection trays.

» **Working safety**
Height-adjustable collection trays secured against accidental pulling out.

ACID line pure in detail

ACID line pure safety storage cabinets are optimised specifically for the storage of acids and lye in clean rooms. The varied additional functionalities of the cabinets of the ACID line pure increase workplace safety and comfort.



1 Ergonomics
Plastic bow-type door handles at an ergonomic height.

2 Ventilation
Ventilation at every cabinet level ensures an optimized air exchange.

3 Collection trays
Height-adjustable collection trays secured against accidental pulling out.

4 Door arrest system
Door arrested in the closed position and with an opening angle of 115°.

5 Safety lock
Safety lock with profile half-cylinder integrated in the door.

6 VisiCon® safety containers
Safety containers for clean room use with integral inspection glass and measuring scale are optionally available.

ACID line pure

Safety storage cabinets with wing doors for the storage of acids and lye in clean rooms.

ACID pure M

ACID pure XL

Interior fittings:

» Inner carcass made of polypropylene.
» 4 collection trays made of polypropylene.

Construction:

» Polycarbonate handle protection.
» Plastic bow-type door handles.
» Outer carcass, powder-coated sheet steel.
» High-quality polyester powder.
for a particularly closed surface.

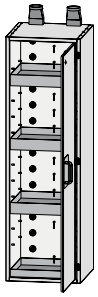
Colour:

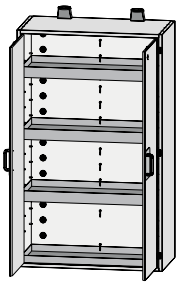
» Silver.

Tested safety at a very high level including:

DIN EN 14727

Ordering information





		ACID pure M	ACID pure XL
Ref. no.			
Polypropylene interior fittings		20-200667-466	20-201267-466
Details		4 collection trays	4 collection trays
Dimensions			
Outer (width x depth x height)	[mm]	595 x 595 x 1955	1195 x 595 x 1955
	[inch]	23.43 x 23.43 x 76.97	47.01 x 23.43 x 76.97
Inner (width x depth x height)	[mm]	536 x 507 x 1895	1136 x 507 x 1895
	[inch]	21.1 x 19.96 x 74.61	44.72 x 19.96 x 74.61
Weight	[kg]	155	268
	[lbs]	341.72	590.84
Storage capacity/standing surface (approx. data)			
Size	[0,5 l/0.26 gal]	33 glass lab bottles	89 glass lab bottles
	[1,0 l/0.26 gal]	21 glass lab bottles	52 glass lab bottles
	[2.5 l/0.66 gal]	9 glass lab bottles	21 glass lab bottles
Ref. no.			
Additional interior fittings	**Material**		
Collection tray	PP	20-80667-314	20-81267-314

Other technical details and dimensions from page 358 onwards.

Tech specs ACID line pure

Technical details - ACID line pure

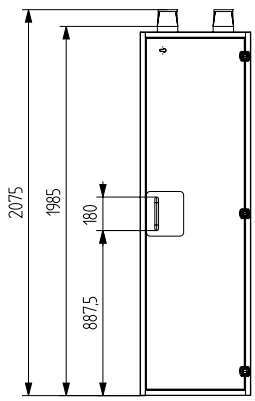
Model size		M	XL
Load bearing capacity of collection tray with uniformly distributed load (maximum load capacity/collection tray)	[kg] [lbs]	60 132.28	60 132.28
Maximum volume of the largest individual container that may be placed on the respective standing surface of the cabinet	[l] [gal]	14 3.7	30 7.93
Collection volume collection tray	[l] [gal]	14 3.7	30 7.93
Volumetric flow rate with 10-fold air exchange	approx. [m³/h] approx. [cubic ft/h]	6 211.86	9 317.79
Pressure drop in the cabinet	[Pa] [Psi]	<1 <1	<1 <1

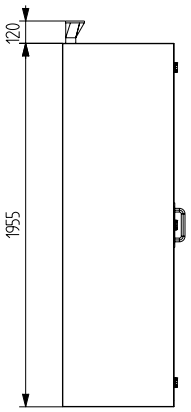
Dimensions – Interior fittings [mm] **- ACID line pure**
[inch]

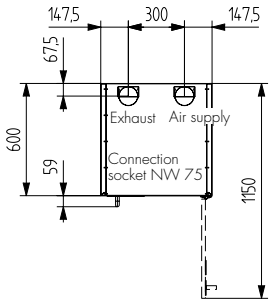
Model size	M			XL		
	Width	Depth	Height	Width	Depth	Height
Collection tray	535 21.06	480 18.9	89 3.5	1135 44.69	480 18.9	89 3.5

Front view	Side view	Top view

ACID pure M

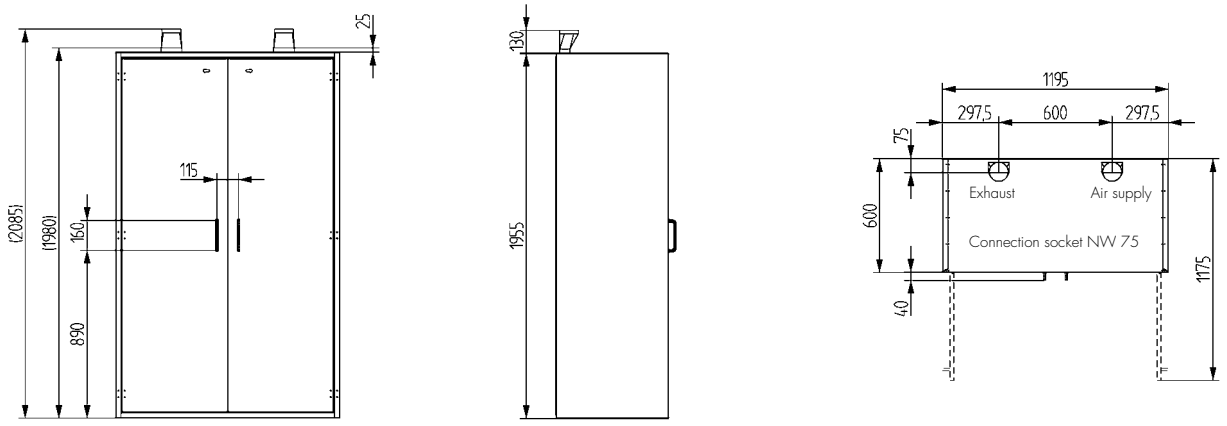






Front view	Side view	Top view

ACID pure XL



Cabi2Net – networking
for maximum safety

6

The future of the working world starts today!

The requirements for laboratory and industrial buildings continue to grow and pose great challenges to executives, facility managers and building operators and users. Sustainability and future viability are major factors in planning and operating a building according to the so-called Green Building Concept.

Green building and software

Comprehensive software systems are installed in the building technology for optimisation of performance, safety, comfort and cost reduction. A wide range of building components are controlled and optimised, including e.g. ventilation, air-conditioning, lighting, room automation, fire protection. Ideally, these systems are already taken into account in the planning in order to profit from the extensive benefits from the commissioning of the building and to amortise the investment quickly.

What contribution does DÜPERTHAL make to optimisation?

DÜPERTHAL's Cabi2Net system revolutionises central control of work processes. With up-to-date data and intelligent networking, it helps to organise the value chain efficiently. Information e.g. on fill levels or faults can be called up on the internet via a web interface, independent of terminal devices. The system is easily scalable and can be integrated into the general building automation.

Your technical advantage

With the use of Cabi2Net and the variety of possibilities to combine a wide range of sensors, all operating parameters relevant to you can be monitored constantly. Also, various systems for further processing of data and information can be controlled to guarantee stable and secure processes in your workplaces.

Your economic advantage

All relevant parameters can be recorded, collected and evaluated on Cabi2Net. This allows more flexible work processes and a more and more efficient organisation of the internal value chain. Your employees can use the released resources more effectively and actively for their scientific research.

Precise and forward-looking with Cabi2Net

Logical steps - consistent, continuous safety: With Cabi2Net as a module, the value chain can be optimised and planned strategically. Efficient workflows – your technical and economic advantage.

Your technical advantage with Cabi2Net

- Safety cabinet as **workplace** and storage location.
- **System-like monitoring** of the ventilation ensures a high level of safety.
- All parameters **at a glance** with Cabi2Net.
- Cabinets **networked** in the system - optionally also as a "stand-alone" version with UMTS card.
- Digital inputs and outputs for **numerous additional functions.**
- **Remote access** to information at any time.
- Digital and analogue **level evaluation** possible
- Continuous monitoring of **temperature data.**
- Media and quantity selection **traceable** at any time.

Safety in organisation

- Programmable access control and clear **user profiles** – only instructed employees have access to the cabinet contents, which means increased legal certainty
- System controlled working with identification and unlocking of the doors means defined working safety – and **increased legal certainty** in case of damage or injuries.
- Digital storage of the **safety data sheets** and instructions, accessible at any time.
- **Continuous documentation** of the hazardous substances used, storage plans and hazardous substance lists.

Your economic advantage with Cabi2Net

- Authorised self-service for media issue **releases resources** which can be used for active operations elsewhere.
- Quantity limits can be used to define the maximum daily requirement and achieve **quantity reduction**
- Key data can be allocated, booked and settled directly with one **cost centre**.
- Direct use of the key data in the purchasing organisation helps to achieve security of supply and effective risk management.
- **Central ordering system** with direct data transmission to media suppliers for automated purchasing of the necessary chemicals.
- Transparency and inspection of media consumption **reduces purchasing and procurement costs as well as disposal costs.**
- High degree of compatibility with existing data management systems and integrated interfaces reduce operating costs and **upport paperless organisation.**

Smart technology - **the added advantage in safety and comfort**

Enter a new world with Cabi2Net and Smart Control from DÜPERTHAL (for more information see the following pages)! With these new features. you can connect your safety storage cabinets to each other in the network for the first time. This allows you to easily route all relevant information on the operational status of your DÜPERTHAL safety storage cabinets e.g. with your smart phone, tablet or PC - worldwide.

	Display TouchScreen	Network capability	Web capability	Exhaust air flow monitoring	Level monitor (supply/disposal) Capacitive sensor	Level monitor (disposal) Float sensor	Temperature monitoring	Status Door opening	Your individual requirement
Cabi2Net	●	●	●	●	●	●	●	●	?
Smart Control	●	●	–	●	●	●	●	●	?

Intelligent hardware and software

- Network interfaces.
- Digital and analogue inputs for evaluation of sensors for level monitoring, temperature control, flow rate, etc.
- Digital outputs for switching signal lamps, acoustic warning devices, release or locking mechanisms.
- Industrial displays with touch function, visualisation via web browser or display on PC monitor.
- Individual adjustment of the system configuration, thanks to different user levels.
- Easy operation with keyboard, mouse or touch screen.
- Individual control of all cabinets in the system.
- Real-time electronic documentation.
- Remote access to process-relevant information

Occupational safety - the digital transformation

In scientific research and production operations and the requirements of each individual have continually increased with respect to performance and efficiency. Also, when it comes to occupational safety, operators have more and more responsibility today. Factors such as demographic change and the resulting gaps in knowledge management require stable, safe processes for sustainable occupational safety.

Process reliability through sensors

Process reliability is now the central keyword. The operator is not only responsible for the safety of the user and the activities throughout the internal process chain; he must also document this and prepare it for further processing by digital devices such as a PC or tablet. Reliable sensors for monitoring the respective parameters are a basic requirement for this. We present to you a large selection of sensors on the following pages.

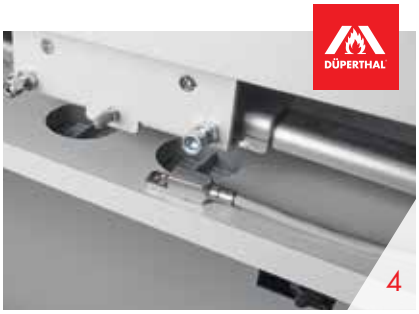
Process reliability - sensors for your application

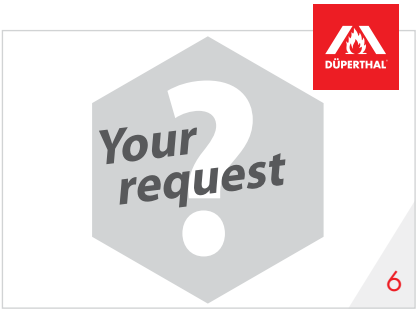
In combination with the large selection of sensors in particular, you can further optimise your processes and tailor them to your requirements. For example, fill levels can be recorded for every extraction and/or collection of flammable liquids and appropriate independent measures can be initiated. The technology also allows you to evaluate temperatures or to monitor the closing of the doors. The powerful interface has no limits - just tell us your requirements and we will work with you to achieve the best technical and economical solution!

1 Level monitoring capacitive (unaffected by media)
To minimise risk of overfilling in accordance with TRGS 509, the use of sensors for level monitoring is recommended. Capacitive sensors are unaffected by media and are optionally available in analogue mode for continuous measurement, or in digital mode for level measurement.

2 Level monitor with float probe
Sensors with a float probe are an alternative to filling level monitoring. In digital and analogue versions, 1 to 3 measuring points for level measurement are possible.

Our large selection of sensors in combination with DÜPERTHAL safety storage cabinets relieves you of daily work and helps you meet requirements with confidence: Process reliability is guaranteed and all parameters are automatically documented in conjunction with Cabi2Net for the risk assessment.





3 Monitoring of exhaust function

To minimise an explosive atmosphere when storing hazardous substances, the exhaust function and the required exhaust air flow rate must be constantly monitored (24/7), especially when filling and transfer take place.

4 Temperature sensor

For the storage of substances for which self-ignition cannot entirely be ruled out, e.g. lithium-ion batteries, a temperature probe is recommended. This is an early warning system for the detection of thermal events inside the cabinet.

5 Status query door opening

The doors of safety storage cabinets for the storage of hazardous substances must be kept closed after use. This applies especially if the stored media pose risks to safety due to their exposure. This sensor can provide an easy way to monitor the status of the door (open/closed).

6 Your requirement

Do you have a special reqiorement for which you need to find a solution? Then, together, we will find a way!

Ingenious - actively combined

The safety storage cabinets for active storage have a monitored ventilation to prevent the formation of an explosive atmosphere. Additionally, the timely exchange of collection containers is automatically triggered by the integrated fill level monitor and the risk of collection containers overflowing is minimised.

Smart Control - the clever add-on

The new Smart Control with touch screen includes the ability to monitor the status of door opening, temperatures and the exhaust air and the fill level. With monitoring of the ventilation function by Smart Control it is possible to monitor the defined explosion protection concept according to TRGS 400 and to document this. In addition, the Smart Control can be used as a level monitor for containers in safety storage cabinets for active storage and warns of overfilling. The display includes an error indicator and logging and makes a proactive contribution to health & safety and environmental protection.

Your technical advantage

- Safety storage cabinet as workplace and storage location.
- Systemised ventilation monitoring ensures high level of safety.
- Safety digital inputs and outputs for numerous additional functions such as monitoring door status, temperatures and much more.
- Digital and analogue level evaluation possible.
- Media and quantity selection traceable at any time.

Your economic advantage

- Quantity limits can be used to define the maximum daily requirement and achieve quantity reduction.
- Transparency and inspection of media consumption reduce purchasing and procurement costs as well as disposal costs.
- Direct use of the key data in the purchasing organisation supported.
- Security of supply and risk management.

System solutions | Process example

In industry, there are more and more digital interfaces between companies and their partners, e.g. the automatic delivery of components and screws. In the chemical sector, tracking systems for hazardous substances are the first step in the networked world of work. However, there is a virtually unlimited number of applications which require safe processes for safe handling of hazardous substances.

Your added advantage from your system solution!

- **Process reliability with approved system solutions**
  With the tested system solutions from DÜPERTHAL your processes are stable for the long term, securely and digitally documented.
- **Evaluation and safety in the network**
  All system-relevant parameters can be accessed via the network and stored using Cabi2Net.
- **The highest fire protection for your safety**
  With the Type 90 technology of the safety storage cabinets, you can rely on maximum safety in case of fire.

Process example in detail

Based on extensive analyses - at your location - we develop secure process solutions. We provide you with an example on this page. Let us inspire you - we would be happy to arrange a date and time to discuss what your individual solution could look like.

1 ACTCOM XL
For the supply of the HPLC system with solvents in commercial containers.

2 DISPOSAL UTS ergo line
To collect HPLC solvent wastes - equipped with an analogue, capacitive sensor for continuous level monitoring.

3 DISPOSAL BENCH line
To collect large quantities of solvent wastes, for example from PREP systems, equipped with digital, capacitive fill level sensor.

4 VisiCon - waste collection system
For direct feeding of the solvent wastes in accordance with the regulations via the bench penetrations to the DISPOSAL line cabinets.

5 CLASSIC PRO XL
For the classic storage of sealed containers including sensors to monitor the door status - whether open or closed - as well as for temperature monitoring.

6 Cabi2Net
For process reliability, the Cabi2Net is networked with all cabinets to collect data about the status of the exhaust air, fill level, door opening or temperature and evaluate it via an independent web interface.

Exhaust air systems, **filter systems and ventilators**

7

Exhaust air systems, filter systems and ventilators

7.1 **Exhaust air systems**

7.2 **Filter systems**

7.3 **Ventilators**

from page

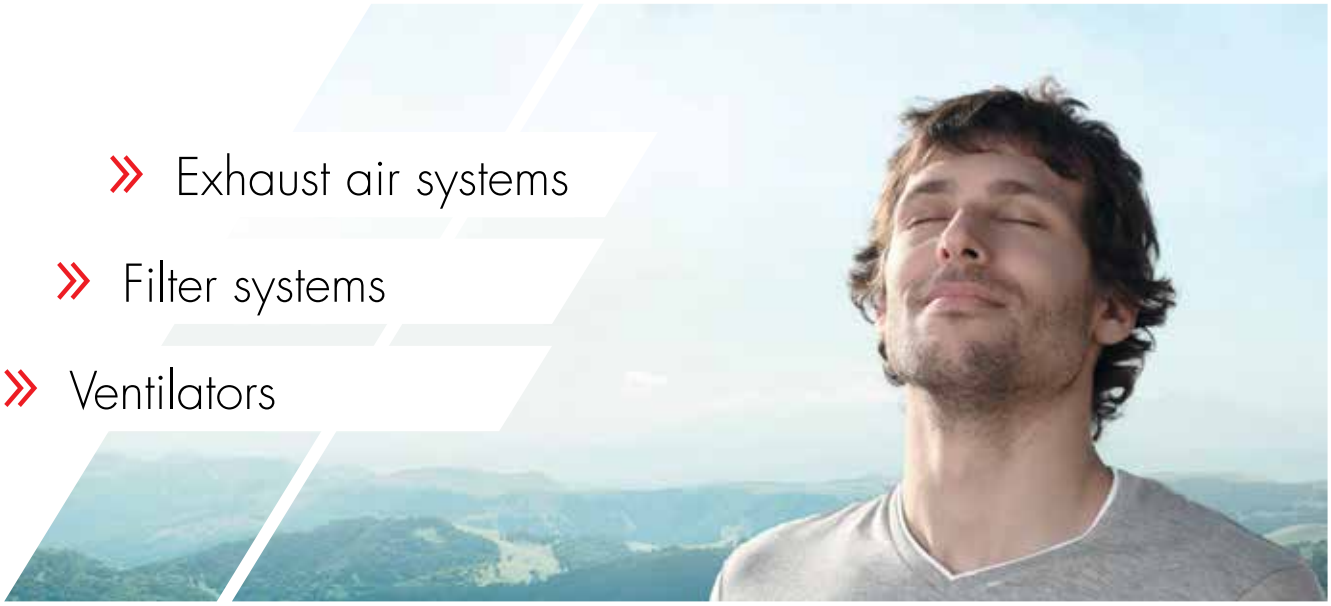
380

382

384

Exhaust air and filter systems

To guarantee maximum safety for your employees, connection to technical exhaust air systems is essential in the case of many chemicals. DÜPERTHAL offers a variety of solutions to stop harmful vapours escaping into the working area. All ventilators and components comply with Directive 2014/34/EU (ATEX) and thus meet the highest safety standards.

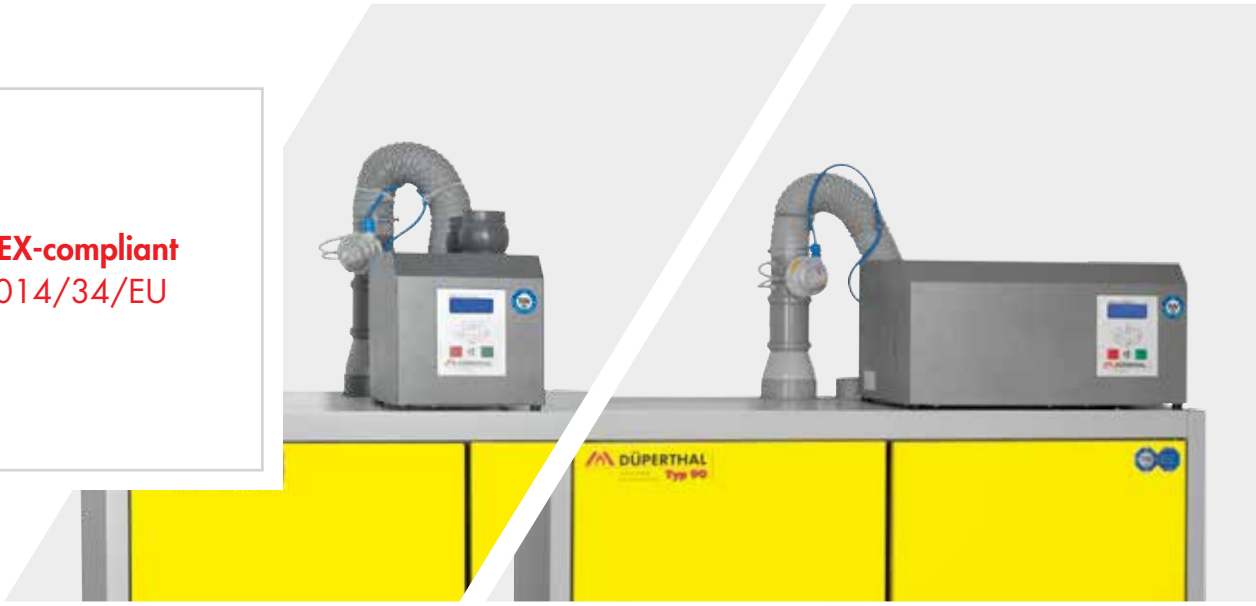


Room ventilation systems in accordance with DIN EN 1946-7.

Safety storage cabinets are exhaust air treatment facilities when they are operated with outgoing air or recirculating air. Exhaust systems should be planned, set up and operated in such a way that no hazard can arise due to a dangerous explosive atmosphere. Released gases, vapours and aerosols must be led away and diluted so that there are no health risks due to inhalation. Only continuous monitoring of the ventilation allows the operator to take appropriate technical and organisational measures to prevent hazards in the event of a failure of the ventilation.

In the design of the systems, it must be ensured that the sound pressure level in the room does not exceed 52 dB(A).

ATEX-compliant
2014/34/EU



Exhaust air monitor with ventilator

Filter unit with ventilator

ATEX Directive 2014/34/EU

Attaching a ventilator to a safety storage cabinet for flammable liquids or flammable gases represents an equipment combination. In accordance with the German Industrial Safety Regulation (BetrSichV), ventilators must meet the requirements of Directive 2014/34/EU (valid since 20.04.2016, previously 94/9/EC) as equipment in hazardous areas of Zone 2.

Flammable and aggressive vapours

Due to the large number of flammable and aggressive vapours, it is not possible to give a blanket statement on the resistance of the exhaust air systems and ventilators. We recommend the following: Make sure the ventilator material will not be attacked by the vapours of the stored media - the manufacturer or the EC material safety data sheet of the liquid can help in determining this.

7.1.1 Exhaust air monitor with ventilator

ATEX DIN EN CE

For easy ventilation and monitoring of safety storage cabinets. A sensor monitors the air stream and gives a visual and audible signal if the value drops below the required value. The complete exhaust air monitoring unit including the integrated ventilator is supplied pre-assembled and is placed directly on the cabinet. The required value for the air stream flow rate is preset ex works and can be individually adjusted using the pressure difference socket. The cage is made of sheet steel, powder-coated in silver pearl glimmer.

- **Exhaust air rate suitable for every size of cabinet electronically adjustable.**
- **ATEX conformity as per Directive 2014/34/EU and type certificate from TÜV Süd.**
- Air flow sensor monitors the actual exhaust air flow rate – the complete ventilation system of the cabinet is monitored.
- Monitoring of the volumetric flow rate and power supply.
- Optical and acoustic warning if the exhaust air flow rate falls short of the preset value.
- Including two floating contacts (24 V/2 A) for signal transmission to an external control centre.
- Internal storage accumulator supplies the monitoring systems for 4 hours in the event of a power failure, display with simple fault indication.
- Easy installation as ready to plug in on delivery.
- Storage of the last 50 error messages including date, time, type of error and change of menu.
- Modern "blue mode" LED display with choice of languages: German, English or French.
- The exhaust air monitor function can be switched off.
- Ventilator according to DIN EN 14986 – low noise level.
- Permanent monitoring in accordance with DIN EN 1946-7.

Ref. no.	2.00.320-1

Dimensions [mm] [inch]	
Width	250 9.84
Depth	318 12.52
Height	352 13.86

Technical specifications		
Collar ∅	[mm] [inch]	75 2.95
Volumetric flow rate*	[m³/h] [cubic ft/h]	0 – 72 0 – 2648.25
RPM*	[1/min]	0 – 2820
Voltage/frequency	[V/Hz]	230/50
Nominal current	[A]	0.1
Noise level	[dB(A)]	34 – 56

*Gradual, without resistance

7.1.2 Exhaust air monitor without ventilator

ATEX DIN EN CE

For easy monitoring of the ventilation of safety storage cabinets. A sensor monitors the air stream and gives a visual and audible signal if the value drops below the required value. The complete exhaust air monitoring unit is supplied pre-assembled and is placed directly on the cabinet. The required value for the air stream flow rate is preset ex works and can be individually adjusted using the pressure difference socket. The cage is made of sheet steel, powder-coated in silver pearl glimmer.

- **ATEX conformity as per Directive 2014/34/EU and type certificate from TÜV Süd.**
- Air flow sensor monitors the actual exhaust air flow rate – the complete ventilation system of the cabinet is monitored.
- Monitoring of the volumetric flow rate and power supply.
- Optical and acoustic warning if the exhaust air flow rate falls short of the preset value.
- Including two floating contacts (24 V/2 A) for signal transmission to an external control centre.
- Internal storage accumulator supplies the monitoring systems for 4 hours in the event of a power failure, display with simple fault indication.
- Easy installation as ready to plug in on delivery.
- Storage of the last 50 error messages including date, time, type of error and change of menu.
- Modern "blue mode" LED display with choice of languages: German, English or French.
- The exhaust air monitor function can be switched off.

Ref. no.	2.00.360

Dimensions [mm] [inch]	
Width	210 8.27
Depth	210 8.27
Height	215 8.46

Technical specifications		
Collar ∅	[mm] [inch]	75 2.95
Voltage/frequency	[V/Hz]	230/50
Nominal current	[A]	0.1

7.1.3 Ventilation unit with ventilator

ATEX DIN EN CE

For easy ventilation of safety storage cabinets. The ventilation unit including the integrated ventilator is supplied pre-assembled and is placed directly on the cabinet. The cage is made of sheet steel, powder-coated in silver pearl glimmer.

- ATEX conformity as per Directive 2014/34/EU and type certificate from TÜV Süd.
- Easy installation as ready to plug in on delivery.
- Ventilator according to DIN EN 14986 – low noise level.

Ref. no.	2.00.339-1	2.00.340-1

Dimensions [mm] [inch]	
Width	250 9.84
Depth	318 12.52
Height	352 13.86

Technical specifications			
Collar ∅	[mm] [inch]	75 2.95	75 2.95
Volumetric flow rate*	[m³/h] [cubic ft/h]	72 2648.25	60 2118.6
RPM*	[1/min]	2600	1200
Voltage/frequency	[V/Hz]	230/50	230/50
Nominal current	[A]	0.1	0.1
Noise level	[dB(A)]	56	37

*Without resistance

7.2.1 Filter unit with ventilator

ATEX DIN EN CE

For ventilation and monitoring of safety storage cabinets through almost 100 % filtering of harmful vapours of solvents (hydrocarbons) by molecular adsorption. The filtering provides optimal protection of the user. An additional exhaust air connection socket is not required, therefore the filter unit can be positioned directly on top of or beside the cabinet and can be put into operation. The cleaned air is released into the room without consuming heated or conditioned air. A sensor monitors the air stream and gives a visual and audible signal if the value drops below the programmed required value. The cage is made of sheet steel, powder-coated in silver pearl glimmer.

- Exhaust air rate suitable for every size of cabinet electronically adjustable.
- ATEX conformity as per Directive 2014/34/EU and type certificate from TÜV Süd.
- Compliance with the requirements of modern ratories "green labs" with highest flexibility of installation.
- Multi-stage, earthed filter system with safety of factor 2 – consisting of:
  - Activated carbon filter with doubled quantity of activated carbon up to 100 % filtering.
  - Additional particle filter in accordance with DIN EN 779.
- Multi-stage filter warning system:
  - Pressure difference monitoring adjustable.
  - Filter elements and cover of filter monitored by microswitches.
  - Time function, up to the next maintenance – in acc. with DIN 12927 and EN 13463 filter change is necessary annually.
  - 3-month check of the activated carbon filters by the user - monitored through input protocol and time function.
- List of filterable substances.
- Warning system with fault indication in the event of ventilator failure.
- Electronic logging of the error messages.
- Two floating contacts (24 V/2 A) for signal transmission.
- Modern "blue mode" LED display with choice of languages: German, English or French.
- Easy installation as ready to plug in on delivery.
- Compliance with the requirements of TRGS 510, DGUV regulation 1 and TRGS 727.
- Ventilator in accordance with DIN EN 14986.
- Permanent monitoring in accordance with DIN EN 1946-7.

Ref. no.	2.00.390-1*

Dimensions [mm] [inch]	
Width	530 20.87
Depth	440 17.32
Height	270 10.63

Technical specifications		
Collar Ø	[mm] [inch]	75 2.95
Volumetric flow rate*	[m^3/h] [cubic ft/h]	0 – 37 0 – 1306.47
RPM*	[1/min]	0 – 2820
Voltage/frequency	[V/Hz]	230/50
Nominal current	[A]	0.1
Noise level	[dB(A)]	38 – 56

Accessories	**Ref. no.**
Activated carbon filter	2.00.391*
Particle filter	2.00.392*
Filter set (activated carbon and particle filter)	2.00.393*

* Gradual, without resistance

7.2.2 Filter unit with ventilator

ATEX DIN EN CE

For ventilation and monitoring of safety storage cabinets through almost 100 % filtering of harmful vapours of solvents (hydrocarbons) by molecular adsorption. The filtering provides optimal protection of the user. An additional exhaust air connection socket is not required, therefore the filter unit can be positioned directly on top of or beside the cabinet and can be put into operation. The cleaned air is released into the room without consuming heated or conditioned air. A sensor monitors the air stream and gives a visual and audible signal if the value drops below the programmed required value. The cage is made of sheet steel, powder-coated in silver pearl glimmer.

- Whisper-quiet ventilator for especially low noise emission.
- ATEX conformity according to 2014/34/EU
- Compliance with the requirements of modern laboratories "green labs" with highest flexibility of installation.
- Multi-stage, earthed filter system with safety of factor 2 – consisting of:
  - Activated carbon filter with doubled quantity of activated carbon up to 100 % filtering.
  - Additional particle filter in accordance with DIN EN 779.
- Multi-stage filter warning system:
  - Filter cover of micro-switch monitored.
  - Time function, up to the next maintenance - in acc. with DIN 12927 and EN 13463 annual filter change is necessary, inspection with coding and automatic switch-off.
  - 3-months check of the activated carbon filters by the user - monitored through input protocol and time function.
- List of filterable substances.
- Warning system with fault indication in the event of ventilator failure.
- Floating contact (24 V/2 A) for signal transmission.
- LED display for function control.
- Easy installation as ready to plug in on delivery.
- Compliance with the requirements of TRGS 510, DGUV regulation 1 and TRGS 727.
- Ventilator in accordance with DIN EN 14986.
- Permanent monitoring in accordance with DIN EN 1946-7.

Ref. no.	2.00.397*

Dimensions [mm] [inch]	
Width	550 21.65
Depth	445 17.52
Height	275 10.83

Technical specifications		
Collar Ø	[mm] [inch]	75 2.95
Volumetric flow rate*	[m³/h] [cubic ft/h]	24 847.44
Voltage/frequency	[V/Hz]	230/50
Performance	[W]	26
Noise level	[dB(A)]	43

Accessories	**Ref. no.**
Activated carbon filter	2.00.391*
Particle filter	2.00.392*
Filter set (activated carbon and particle filter)	2.00.393*

7.3.1 Radial fan ATEX compliant

ATEX DIN EN CE

For extracting explosive atmospheres that are a health risk.

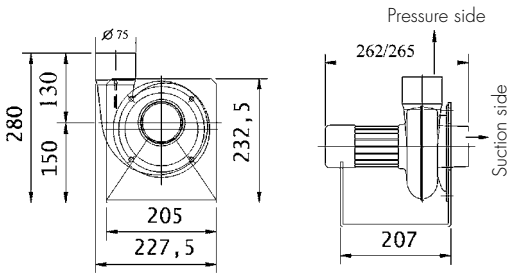
Housing with shaft seal made of polypropylene (PP-FR) - fire retardant - manufactured using injection moulding process. Polypropylene, anti-clockwise impeller with scooped blades, including PVC assembly pedestal.

- Universal use.
- Low noise level.
- Maintenance free.
- Ventilator in accordance with DIN EN 14986.
- Easy installation due to pedestal.
- Self-cooling AC motor.
- Integrated thermostatic switch.*
- **ATEX-compliant.**

Note: The exhaust stream does not come into contact with the motor. An explosion-proof version is therefore only necessary within areas endangered by explosion. Generally all new ventilators must be ATEX-compliant.

Ref. no.		2.00.176-1	2.00.177-1
Technical specifications			
Engine power	[kW]	0.1	0.08
Voltage	[V]	230	230
Frequency	[Hz]	50/60	50/60
Nominal current	[A]	0.6	0.7
Noise level Lp5A	[dB(A)]	54	45
RPM	[1/min]	2810	1300
Weight	[kg] [lbs]	5 11.02	5 11.02
Protection type		IP 54	IP 54

Dimensions [mm]



Accessories	**Ref. no.**
PVC collar, soft, with retainer straps (1 set=2 items)	2.00.078
PVC spiral hose NW 75 mm/2.95 inch (max. 10 m/32.8 ft length)	2.00.079
Hose clamps for spiral hose made of stainless steel Ø 70-90 mm (Ø 2.75-3.54 inch)	2.00.081
Thermistor machine protection device (230 V)*	2.00.080
Reducer connection made of aluminium Ø 75/125 mm (Ø 2.95/4.92 inch)	2.00.050

* Thermal protection acts as overload protection, which automatically interrupts the power supply.

7.3.2 Radial fan Explosion-proof

ATEX DIN EN CE

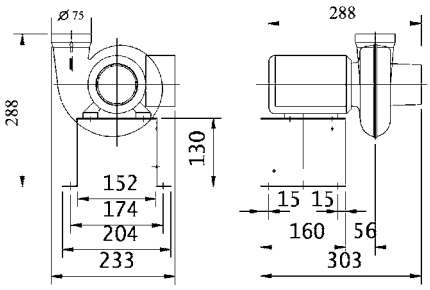
Housing with shaft seal made of polypropylene (PP-FR) - fire resistant - manufactured using injection melding process. Polypropylene, anti-clockwise ventilator with scooped blades, including grey (RAL 7011) coated sheet steel assembly pedestal.

- **Explosion-proof.**
- Universal use.
- Low noise level.
- Maintenance free.
- Ventilator in accordance with DIN EN 14986.
- Easy installation due to pedestal.
- Self-cooling three-phase motor, EExIIT4.
- Model 2.00.179EX
- Self-cooling three phase AC motor with capacitor for AC operation.
- **ATEX-compliant.**

Ref. no.	2.00.175EX	–	2.00.179EX
Ref. no., with PTC resistor*	2.00.176EX	2.00.178EX	–

Technical specifications				
Engine power	[kW]	0.18	0.12	0.12
Voltage	[V]	400	400	230
Frequency	[Hz]	50	50	50
Nominal current	[A]	0.92	0.37	1.1
Noise level Lp5A	[dB(A)]	54	45	54
RPM	[1/min]	2750	1355	2780
Weight	[kg] [lbs]	11 24.25	11 24.25	11 24.25
Protection type		IP 55	IP 55	IP 54

Dimensions [mm]



Accessories	**Ref. no.**
PVC collar, soft, with retainer straps (1 set=2 items)	2.00.078
PVC spiral hose NW 75 mm/2.95 inch (max. 10 m/32.8 ft length)	2.00.079
Hose clamps for spiral hose made of stainless steel Ø 70-90 mm/Ø 2.75-3.54 inch	2.00.081
Thermistor machine protection device (230 V)*	2.00.080
Reducer connection made of aluminium Ø 75125 mm/Ø 2.954.92 inch	2.00.050

* For units with PTC resistor (explosion-proof versions) a thermistor machine protection device - see accessories - must be connected for the purpose of switching off the unit.

Safety containers
and cleaning vessels

Entsprechendes Warnsymbol aufkleben
stick on the suitable warningsymbol
DÜPERTHAL

8

Safety containers and cleaning vessels

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8.1.1 VisiCon - Safety containers made of stainless steel optionally with integrated sight glass and measuring scale

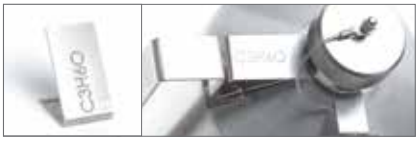
Collection container ① - 5.90.002, ② - 5.90.001, ③ - 5.90.002-1 and ④ - 5.90.001-1

For safe dispensing and precise metering of flammable liquids - made of stainless steel 1.4751, when high media purity or resistance is required.

- Closes tightly, even in extreme situations.
- Captive lid on flexible shaft, including cap locking mechanism.
- Flame arrester in container neck.
- Level monitor via integrated sight glass with measuring scale.
- Markings prepared according to GefStoffV and Workplace Directive A1.3 (ASR).
- Optionally available with exchangeable medium labels incl. individual engraving of chemical codes, QR codes, etc.

Self-closing precision metering tap

VisiCon funnel and adapter



Medium label, optionally with individual engraving

Ordering information/dimensions			
Content	[l]	1	2
	[gal]	0.26	0.53
Height	[mm]	205	265
	[inch]	8.07	10.43
∅	[mm]	105	120
	[inch]	4.13	4.72
Ref. no., with sight glass		**5.90.001**	**5.90.002**
Ref. no.		**5.90.001-1**	**5.90.002-1**

Accessories		
Medium label		
Ref. no., engraved	5.90.001-11	5.90.002-11
Ref. no., not engraved	5.90.001-12	5.90.002-12
Self-closing precision metering tap made of stainless steel - for both models		
Ref. no.	5.88.100	
Stainless steel filling funnel - for both models		
Ref. no.	5.08.012	
Adapter for funnel - for both models		
Ref. no.	5.08.030	

8.1.2 VisiCon - Safety containers made of stainless steel without screw cap

Safety containers ① - 5.90.002-2 with soaking plate 4.10.020-21 and ② - 5.90.001-2 with precision metering tap 5.88.100

For safe dispensing of flammable liquids - made of stainless steel 1.4751, when high media purity or resistance is required.

- Flame arrester in container neck.
- Markings prepared according to GefStoffV and Workplace Directive A1.3 (ASR).

Ordering information/dimensions			
Content	[l]	1	2
	[gal]	0.26	0.53
Height	[mm]	205	265
	[inch]	8.07	10.43
∅	[mm]	100	115
	[inch]	3.94	4.53
Ref. no.		**5.90.001-2**	**5.90.002-2**

Accessories		
Self-closing precision metering tap made of stainless steel - for both models		
Ref. no.	5.88.100	
Stainless steel soaking plate 1.4301		
Ref. no.	4.10.010-11	4.10.020-21

Safety containers for liquid hazardous substances

8.1.3 Metering and dispensing canisters made of stainless steel

Container - 3.86.005 with metering tap - 3.88.200

For safe dispensing and precise metering of flammable liquids, optimum use of space when storage capacities are limited thanks to the space saving canister design. Polished, 1.4571 stainless steel. Seal - Teflon.

- **Including self-closing metering tap 3.88.200.**
- **Automatic pressure/vacuum compensation (from 0.3 bar/4.35 psi).**
- Venting in metering tap.
- Flame arrester in container neck.
- High resistance and purity.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- Tested safety product.
- G 1 ½" pipe thread.

Ordering information/dimensions			
Content	[l]	5	10
	[gal]	1.3	2.64
Height	[mm]	310	380
	[inch]	12.2	14.96
Width	[mm]	130	130
	[inch]	5.12	5.12
Depth	[mm]	210	280
	[inch]	8.27	11.02
Ref. no.		3.86.005	3.86.010

Accessories	Metering tap
Ref. no.	3.88.200

8.1.4 Filling canisters made of stainless steel

Filling canister - 3.85.005 with dispensing tap - 3.85.200

For safe and convenient removal of flammable liquids. Optimum use when storage capacities are limited thanks to the space saving canister design. Polished, 1.4571 stainless steel. Seal - Teflon.

- **Including self-closing dispensing tap 3.85.200.**
- **Manual pressure/vacuum compensation.**
- Suitable for horizontal use.
- High resistance and purity.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- Tested safety product.
- G 1 ½" pipe thread.
- Flame arrester in container neck.

Ordering information/dimensions			
Content	[l]	5	10
	[gal]	1.3	2.64
Height	[mm]	210	370
	[inch]	8.27	14.57
Width	[mm]	130	130
	[inch]	5.12	5.128.27
Depth	[mm]	280	280
	[inch]	11.02	11.02
Ref. no.		3.85.005	3.85.010

Accessories	Dispensing tap
Ref. no.	3.85.200

8.1.5 Multi-purpose safety containers made of stainless steel

Safety container ① - 3.84.020, ② - 3.84.010 and ③ - 3.84.105

For safe in-house transportation and storage of flammable liquids. Exterior - electrolytically polished, 1.4301 stainless steel, interior pickled. Seal - Teflon.

- ¾" connection for optional tap.
- Flame arrester in screw cap.
- **Manual pressure/vacuum compensation in the cover.**
- Flexible use due to extensive accessories.
- Space saving design.
- High resistance and purity.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- Tested safety product.

Tap - 1.80.000

Pourer, rigid - 3.84.002

Bracket for pourer - 3.84.003

Flame arrester - 3.84.020-1

Ordering information/dimensions				
Content	[l]	5	10	20
	[gal]	1.3	2.64	5.28
Height	[mm]	300	300	490
	[inch]	11.81	11.81	19.3
Width	[mm]	105	175	175
	[inch]	4.13	6.89	6.89
Depth	[mm]	350	350	350
	[inch]	13.78	13.78	13.78
Ref. no.		3.84.105	3.84.010	3.84.020

Accessories	Tap	Pourer, rigid	Bracket for pourer	Flame arrester for container neck
Ref. no.	1.80.000	3.84.002	3.84.003	3.84.020-1

8.1.6 Distribution containers made of stainless steel

Dispensing container ① - 3.88.010 incl. metering tap - 3.88.200 and dispensing container ② - 3.88.110 incl. tap - 1.80.000

For safe dispensing and exact metering of flammable liquids. Unpolished 1.4571 stainless steel. Plastic protection ring. Seal - Teflon.

- **Including self-closing metering tap or normal tap.**
- **Manual pressure/vacuum compensation.**
- Flame arrester in container neck.
- High stability.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- High resistance and purity.
- Tested safety product.
- G 1 ½" pipe thread.
- Exterior level indicator made of highly resistant PFA (items 3.88.110, 3.88.210 only).

Ordering information/dimensions				
Content	[l]	10	10	10
	[gal]	2.64	2.64	2.64
Height	[mm]	340	330	340
	[inch]	13.39	13	13.39
Dia	[mm]	260	260	260
	[inch]	10.24	10.24	10.24
Level indicator		—	•	•
Incl. tap 1.80.000		—	•	—
Incl. metering tap 3.88.200		•	—	•
Ref. no.		3.88.010	3.88.110	3.88.210

Accessories	Tap	Metering tap
Ref. no.	1.80.000	3.88.200

Safety containers for liquid hazardous substances

8.1.7 Distribution containers made of stainless steel

Dispensing container ① 3.88.025 and ② - 3.88.125 and level indicator

For safe, convenient metering of flammable liquids when larger quantities are required. Unpolished, 1.4301 stainless steel. Plastic protection ring. Seal - Teflon.

- **Including self-closing tap 1.80.000.**
- **Manual pressure/vacuum compensation in the screw cap.**
- Exterior level indicator made of highly resistant PFA (item 3.88.125 only).
- Flame arrester in container neck.
- Stackable.
- High stability.
- High resistance and purity.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- Tested safety product.

Suitable safety funnels, see programme section 8.2.

Ordering information/dimensions			
Content	[l]	25	25
	[gal]	6.6	6.6
∅	[mm]	300	300
	[inch]	11.81	11.81
Height	[mm]	530	530
	[inch]	20.87	20.87
Level indicator		—	•
Ref. no.		3.88.025	3.88.125

8.1.8 Transport canisters made of stainless steel

BAM

Transport cans - 3.89.002 and soaking plate ① - 4.10.020-1

For safe transport of hazardous substances by road, rail and sea. Unpolished 1.4571 stainless steel. Plastic protection ring. Seal - Teflon.

- **Type approval tested can according to ADR, RID and IMDG code.**
- Closes tightly, even in extreme situations.
- Captive lid on flexible shaft.
- Flame arrester in container neck.
- High resistance and purity.
- Can be used in-house with precision metering tap.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- Additional labelling according to ADR/RID.
- Tested safety product.
- G 1 ¼" pipe thread.

Precision metering tap - 3.88.100

Soaking plate - 4.10.010-1

Stainless steel soaking plate 1.4301 with flame arrester and pumping station.

- Compatible with 1 or 2 l can.
- Easy replacement: Remove the flame arrester and screw the soaking plate onto the can.

Ordering information/dimensions				
Content	[l]	1	2	5
	[gal]	0.26	0.53	1.3
∅	[mm]	110	130	165
	[inch]	4.33	5.12	6.5
Height	[mm]	238	295	400
	[inch]	9.37	11.61	15.75
Ref. no.		3.89.001	3.89.002	3.89.005
Accessories				
Soaking plate				
Length x ∅	[mm]	265 x 120	320 x 120	—
	[inch]	10.43 x 4.72	10.43 x 12.6	
Ref. no.		4.10.010-1	4.10.020-1	—
Precision metering tap suitable for all models				
Ref. no.			3.88.100	

8.1.9 Transport canister made of stainless steel

Transport container - 3.90.005

For safe transport of hazardous substances by road, rail and sea. Polished 1.4571 stainless steel. Seal - Teflon.

- **Type approval tested can according to ADR, RID and IMDG code.**
- Closes tightly, even in extreme situations.
- Captive lid on flexible shaft.
- Flame arrester in container neck.
- Space saving design.
- Can be used in-house with metering tap.
- High resistance and purity.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- Additional labelling according to ADR/RID.
- Tested safety product.
- G 1 ½" pipe thread.

Ordering information/dimensions			
Content	[l]	5	10
	[gal]	1.3	2.64
Height	[mm]	290	370
	[inch]	11.41	14.57
Width	[mm]	130	130
	[inch]	5.12	5.12
Depth	[mm]	210	280
	[inch]	8.27	11.02
Ref. no.		3.90.005	3.90.010

Accessories	Metering tap
Ref. no.	3.88.200

8.1.10 Multi-purpose transport containers made of stainless steel

① Rd 56 x 1/6"

② ¾"

Transport container - 3.89.105

For safe transport of hazardous substances by road, rail, sea and air. 1.4301 stainless steel. Exterior - electrolytically polished, interior pickled. Seal - Teflon.

- **Type approval tested vessel according to ADR, RID, IMDG code and ICAO-TI.**
- Closes tightly, even in extreme situations.
- ¾" connection (for tap 1.80.000 optional for in-house use).
- Adjustable feet for stable positioning.
- Rear handle.
- Captive lid on flexible shaft.
- Flame arrester in container neck.
- Space saving design.
- High resistance and purity.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- Additional labelling according to ADR/RID.
- Tested safety product.

Pourer - 3.84.002

Bracket - 3.84.003

Ordering information/dimensions				
Content	[l]	5	10	20
	[gal]	1.3	2.64	5.12
Height	[mm]	276	275	470
	[inch]	10.87	10.83	18.50
Width	[mm]	102	169	169
	[inch]	4.02	6.65	6.65
Depth	[mm]	348	345	345
	[inch]	13.70	13.58	13.58
Ref. no.		3.89.105	3.89.010	3.89.020

Accessories	Tap	Pourer, rigid	Bracket for pourer
Ref. no.	1.80.000	3.84.002	3.84.003

Safety containers for liquid hazardous substances

8.1.11 Transport containers made of stainless steel

Transport container - 3.89.025 with metering tap
①- 3.88.200

For safe transport of hazardous substances by road, rail, sea and air. Unpolished 1.4301 stainless steel, plastic protection ring. Seal - Teflon.

- **Type approval tested can according to ADR, RID, IMDG code and ICAO-TI.**
- Closes tightly, even in extreme situations.
- Manual ventilation.
- Flame arrester in container neck.
- Captive lid on flexible shaft.
- Can be used in-house with metering tap.
- Stackable.
- High stability.
- High resistance and purity.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- Additional labelling according to ADR/RID.
- Tested safety product.
- G 1 ½" pipe thread.

Ordering information/dimensions		
Content	[l]	25
	[gal]	6.6
∅	[mm]	300
	[inch]	11.81
Height	[mm]	530
	[inch]	20.87
Ref. no.		**3.89.025**

Accessories	Metering tap
Ref. no.	3.88.200

8.1.12 Collection containers made of stainless steel

Collection container ①- 5.88.010 and collection container ② - 5.88.110 with funnel ③ - 5.88.001 and flame arrester short 5E10.004

For collecting **flammable liquids**. The combination of a container and a safety funnel with flame arrester fulfils the requirement of a collection container according to TRGS.
Unpolished 1.4571 stainless steel. G 2" sleeve with 2" Tri-Sure stoppers incl. Viton®seal, safety ring made of plastic.

- Easy handling.
- High media resistance and purity.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- High stability.
- G 2" pipe thread, suitable for conventional 50 l (13.21 gal)/60 l (15.85 gal) and 200 l (52.83) drums.

Flame arrester adapter - 5.88.003

Pourer, rigid - 5.88.002

Information
③ Short flame arrester for filling (funnel).
④ Flame arrester with adapter for filling (funnel) and discharge (pourer).

Ordering information/dimensions			
Content	[l]	10	10
	[gal]	2.64	2.64
∅	[mm]	280	280
	[inch]	11.02	11.02
Height	[mm]	290	290
	[inch]	11.42	11.42
Level indicator (highly resistant PFA)		—	•
Ref. no.		**5.88.010**	**5.88.110**

Accessories	Safety funnel*	Flame arrester, short	Flame arrester with adapter	Pourer, rigid
Ref. no.	5.88.001	5E10.004	5.88.003	5.88.002

* (for use only with a flame arrester)

8.1.13 Dispensing containers Type I made of sheet steel

Dispensing container ① - 3.101.01
and ② - 3.104.01

For safe provision and transfer of flammable liquids. Made of sheet steel, interior tin plated, exterior powder-coated – red. Seal - Accopac.

- Self-closing opening.
- Automatic pressure compensation.
- Flame arrester in container neck made of stainless steel.
- Safe carrying and use.
- Easy operation thanks to combination handle.
- High stability.
- Good media resistance.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- Tested safety product.

Ordering information/dimensions

Content	[l]	0.5	1	4	4	7.5	9.5	19
	[gal]	0.13	0.26	1.06	1.06	1.98	2.51	5.02
Height	[mm]	180	220	305	279	349	292	429
	[inch]	7.09	8.66	12	11	13.74	11.5	16.89
∅	[mm]	120	120	185	241	241	298	298
	[inch]	4.72	4.72	7.28	9.49	9.49	11.73	11.73
Ref. no.		3.100.01	3.101.01	3.103.01	3.104.01	3.107.50	3.109.50	3.119.00

8.1.14 Dispensing containers Type II made of sheet steel

Dispensing container ① - 3.109.58
and ② - 3.119.67

For easy dispensing of flammable liquids into containers with small openings. Made of sheet steel, interior tin plated, exterior powder-coated – red. Seal - Accopac.

- Integrated filling and discharge pipe.
- Self-closing openings.
- Automatic pressure/vacuum compensation between 0.2 (2.9 psi) and 0.35 bar (5.07 psi).
- Flame arrester in container opening made of stainless steel.
- High stability.
- The ergonomic handle and extractor enable precise control of the liquid discharge.
- Easy operation thanks to combination handle as it enables the weight to be transferred to your palm and makes it easier to lift the container.
- The opening closes immediately when the handle is released.
- Good media resistance.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- Tested safety product.

Ordering information/dimensions

Content	[l]	4	7.5	9.5	9.5	19	19
	[gal]	1.06	1.98	2.51	2.51	5.02	5.02
Height	[mm]	305	349	305	305	445	445
	[inch]	12	13.74	12	12	17.52	17.52
∅	[mm]	241	241	298	298	298	298
	[inch]	9.49	9.49	11.73	11.73	11.73	11.73
Hose L x ∅	[mm]	229 x 16	229 x 16	229 x 16	229 x 25	229 x 16	229 x 25
	[inch]	9 x 0.63	9 x 0.63	9 x 0.63	9 x 0.98	9 x 0.63	9 x 0.98
Ref. no.		3.104.67	3.107.57	3.109.57	3.109.58	3.119.67	3.119.68

8.1.15 Tilting station made of sheet steel

For convenient removal of flammable liquids. Container made of sheet steel, interior tin plated, exterior powder-coated – red. Filling opening seal - Accopac, tap seal - Teflon. Frame made of sheet steel, powder-coated – red.

- Single hand operation thanks to balanced pivot.
- Self-closing openings.
- Automatic pressure/vacuum compensation.
- Flame arrester in filling opening and tap.
- High stability.
- Good media resistance.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- Tested safety product.

Information
The flexible metal hose enables safe transfer.

Ordering information/dimensions

Tilt container	[l]	19
	[gal]	5.02
Tilting frame	[mm]	365 x 370
	[inch]	14.37 x 14.57
Total height	[mm]	600
	[inch]	23.62
Ref. no.		3.108.88

Accessories

Flexible metal hose		
L x ∅	[mm]	210 x 15
	[inch]	8.27 x 0.6
Ref. no.		1.809.30

Safety containers for liquid hazardous substances

8.1.16 Containers with tap outlet at bottom made of sheet steel

Container with tap - 3.107.09

For convenient removal of flammable liquids. Made of sheet steel, interior tin plated, exterior powder-coated – red. Filling opening seal - Accopac, tap seal - Teflon.

- Self-closing openings.
- Automatic pressure/vacuum compensation.
- Flame arrester in filling opening and tap.
- Including tap 1.809.02
- High stability.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- Good media resistance.
- Tested safety product.

Information
Flexible metal hoses enable safe transfer.

Flexible metal hose - 1.809.30

Ordering information/dimensions			
Content	[l]	9.5	19
	[gal]	2.51	5.02
Height	[mm]	292	429
	[inch]	11.5	16.89
∅	[mm]	298	298
	[inch]	11.73	11.73
Ref. no.		3.107.09	3.108.09

Accessories		
Flexible metal hose		
Length x ∅	[mm]	210 x 15
	[inch]	8.27 x 0.6
Ref. no.		1.809.30

8.1.17 Oval dispensing container made of HDPE

Dispensing container ① - 3.141.60
and ② - 3.140.65

For dispensing and metering corrosive, flammable liquids. 4 mm (0.16 inch) HDPE, red. Stainless steel operating lever and stopper. Teflon disc seal.

- Self-closing opening.
- Automatic pressure compensation.
- Earthing connection on stopper with flame arrester.
- Separate carrying handle and operating lever.
- Easy handling.
- Space saving design.
- Robust construction.
- High media resistance.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- Tested safety product.

Ordering information/dimensions			
Content	[l]	2	4
	[gal]	0.53	1.06
Height	[mm]	240	330
	[inch]	9.45	13
Width	[mm]	140	140
	[inch]	5.51	5.51
Depth	[mm]	200	200
	[inch]	7.87	7.87
Ref. no.		3.140.65	3.141.60

8.1.8 Collection container made of HDPE

Collection container - 5.147.62

For collecting hazardous liquids that have a flash point above 55 °C and which attack metal containers due to their chemical composition. Red coloured HDPE, stainless steel control panels, i.e. good media resistance.

- Self-closing lid, can be kept open during filling.
- Earthing connection in handle connected to flame arrester (in neck).
- High impact and scratch resistance.
- High stability, robust construction.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- Large filling opening ∅ 90 mm (3.54 inch).

Ordering information/dimensions			
Content	[l]	7.5	20
	[gal]	1.98	5.12
Fittings		Stainless steel	Stainless steel
∅	[mm]	310	310
	[inch]	12.2	12.2
Height	[mm]	350	450
	[inch]	13.78	17.72
Ref. no.		5.147.62	5.147.65

8.1.19 Dispensing and collection containers made of HDPE

Collection container - 3.127.65

For dispensing and metering corrosive, non-flammable liquids. 4 mm HDPE, colour - white.

- Safe carrying and use of e.g. acids and lye.
- Automatic pressure compensation.
- Easy operation thanks to combination handle.
- Robust construction.
- Control panels made of stainless steel.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).

Ordering information/dimensions				
Content	[l]	10	7.5	20
	[gal]	2.64	1.98	5.13
Ø	[mm]	260	310	310
	[inch]	10.24	12.2	12.2
Height	[mm]	370	350	450
	[inch]	14.57	13.78	17.71
Pourer Ø	[mm]	35	90	90
	[inch]	1.38	3.54	3.54
Ref. no.		3.122.60	3.127.62	3.127.65

8.1

8.1.20 Polyethylene canister

BAM

Polyethylene container ① - 5.09.020, ② - 5.09 .010 and ③ - 5.09.105

For collecting and transporting **flammable liquids.** Black, **made of electrostatically conductive polyethylene.** Container 5.09.105, PE natural, according to TRGS 727 non-conductive.

- **Type approval tested container according to ADR, RID, IMDG code and ICAO-TI.**
- Recyclable.
- Space saving design.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- High media resistance.
- Tested safety product.
- Tight closure, even in extreme situations by means of special pliers 5.09.003 or 5.09.006, see note.

Special pliers - 5.09.003

Information

To ensure tight closure of the screw fitting, special pliers must be used to close the fitting with a torque of 20 Nm.

Transport approval for packaging groups II & III. Density of contents:
Acetic acid (98 – 100 %) – 1.2 kg/l (2.65 lbs/gal), n-butyl acetate with n-butyl acetate saturated wetting agent solution 1.2 kg/l (2.65 lbs/gal), hydrocarbon mixture 1.2 kg/l (2.65 lbs/gal) each at a total pressure of max 200 kPa/55 °C (3.19 psi/131 °F).

Ordering information/dimensions						
Length	[mm]	191	298	300	364	395
	[inch]	7.52	11.73	11.81	14.33	15.55
Width	[mm]	149	198	204	240	330
	[inch]	5.87	7.8	8.03	9.45	13
Height	[mm]	256	264	495	455	635
	[inch]	10.08	10.39	19.49	17.91	25
Content	[l]	5	10	20	30	60
	[gal]	1.32	2.64	5.3	7.93	15.85
Filling opening Ø	[mm]	56	56	56	56	58
	[inch]	2.2	2.2	2.2	2.2	2.3
Thread		S61	S61	S61	S61	S71
Ref. no.		5.09.105	5.09.010	5.09.020	5.09.030	5.09.060

Accessories					
Special pliers					
Ref. no.	5.09.003	5.09.003	5.09.003	5.09.003	5.09.006
Funnel with cover fitting suitable for all models					
Ref. no.	5.08.004-1	5.08.004-1	5.08.004-1	5.08.004-1	—

Safety containers for liquid hazardous substances

8.1.21 Polyethylene canister with level monitor

Polyethylene container ① - 5.11.020 a.
② - 5.11.010 with level monitor

For collecting and in-house transporting of flammable liquids. Black container, **made of electrostatically conductive polyethylene**.

- Level indicator warns of overfilling.
- Closes tightly, even in extreme situations.
- Recyclable.
- High media resistance.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).

Ordering information/dimensions			
Content	[l]	10	20
	[gal]	2.64	5.13
Length	[mm]	298	298
	[inch]	11.73	11.73
Width	[mm]	198	198
	[inch]	7.8	7.8
Height	[mm]	264	510
	[inch]	10.39	20.08
Filling opening ∅	[mm]	56	56
	[inch]	2.2	2.2
Ref. no.		5.11.010	5.11.020

Accessories	Special pliers	Funnel with cover fitting
Ref. no.	5.09.003	5.08.004-1

8.1.22 Combination containers

BAM

Combination container - model 5.10.010

For collecting and transporting **flammable liquids.** The combination of a container and a safety funnel fulfils the requirement according to TRGS. Sheet steel outer carcass, blue stove enamelled. **Polyethylene liner.**

- Closes tightly, even in extreme situations.
- **Type approval tested packaging material according to ADR, RID and IMDG code.**
- Stackable 3-high.
- Transport acc. to TRGS 510 (without funnel).
- Easy handling.
- High media resistance.
- A variety of accessories available.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).

Suitable safety funnel - see programme section 8.2

Wrench - 5.10.003

Information
Transport approval for all packaging groups. Density of contents:
Packaging group I – 1.20 kg/l (2.65 lbs/gal),
Packaging group II – 1.80 kg/l (3.97 lbs/gal),
Packaging group III – 2.70 kg/l (5.95 lbs/gal),
each at a total pressure of max. 200 kPa at 55 °C (3.19 psi/131 °F). For liquids with a conductivity of > 10-8 s/m, please observe TRGS 727.

Ordering information/dimensions			
Content	[l]	6	12
	[gal]	1.59	3.17
∅	[mm]	250	250
	[inch]	9.84	9.84
Height	[mm]	200	350
	[inch]	7.87	13.78
Ref. no.		5.10.006	5.10.010

Accessories	Pouring connector	Wrench
Ref. no.	5.10.002	5.10.003

8.1.23 Metering cans made of polyethylene and brass

Metering can ① - 4.140.04, ② - 4.140.10 and ③ - 4.14.050

For precise metering of small quantities of liquid. Made of impact and scratch resistant polyethylene - coloured red. Brass screw cap or completely made of brass (ref. no. 4.14.050).

- Sprung, self-closing action.
- Leakproof.
- Good resistance even with contaminated substances.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- Tested safety product.

Ordering information/dimensions				
Content	[l]	0.3	1.0	0.5
	[gal]	0.08	0.26	0.13
∅	[mm]	80	105	90
	[inch]	3.15	4.13	3.54
Height	[mm]	145	260	160
	[inch]	5.71	10.24	6.3
Tests		FM	FM	FTÜ
Ref. no.		**4.140.04**	**4.140.10**	**4.14.050**

8.1.24 Spray bottles made of polyethylene (LDPE)

For fine metering even in inaccessible places. Container and outlet made of polyethylene.

- **Pressure compensation.**
- Hose end can be fixed using metal core.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).

Ordering information/dimensions		
Content	[l]	0.5
	[gal]	0.13
∅	[mm]	75
	[inch]	2.95
Height	[mm]	200
	[inch]	7.87
Ref. no.		**4.140.09**

Accessories	Acetone resistant seal[1)]
Ref. no.	4.40.009

[1)] (necessary for use of acetone)

Information
Not suitable for hydrocarbon mixtures (e.g. Böttcherin)
When using acetone please also order seal ref. no. 4.40.009.

8.1.25 Safety bottles

For safe pouring, metering and use of flammable and aggressive liquids. Pure aluminium bottle with automatic pouring and venting valve. Interior seal of Viton® (e.g. for benzene, petroleum, turpentine oil and acid free oils) or EPDM (e.g. thinners, alcohol, acetone).

- Self-closing pouring valve.
- Valve opens only by finger pressure. No leaking if the bottle falls over.
- Bottle of break-proof material.
- Automatic closing when not in use - even without screw cap.
- Screw cap colour coded for different applications.

Ordering information/dimensions					
Content	[l]	0.4	0.4	1	1
	[gal]	0.11	0.11	0.26	0.26
Container ∅	[mm]	60	60	78	78
	[inch]	2.36	2.36	3.07	3.07
Total height	[mm]	220	220	280	280
	[inch]	8.66	8.66	11.02	11.02
Colour screw cap		Red	Yellow	Red	Yellow
Sealing material		Viton®	EPDM	Viton®	EPDM
Ref. no.		**4.13.040**	**4.13.041**	**4.13.100**	**4.13.101**

Safety funnels

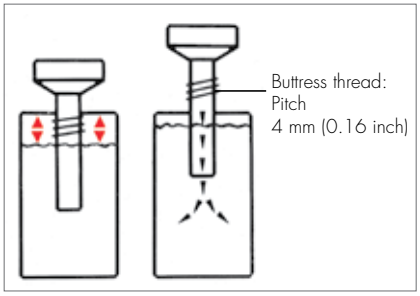
8.2.1 VisiCon - Safety funnel for flammable liquids

Safety funnel - 5.08.004-1

Safety funnel - 5.10.007

Allows easy filling of safety containers and prevents overfilling, including flame arrester. Stainless steel complete.

- Impossible to overfill.
- Hinged lid reduces escaping vapours to a minimum.
- Flame arrester (simple to interchange) prevents entry of free sparks.



Principle of prevention against overfilling

Ordering information/dimensions				
Filling opening Ø	[mm]	130	120	180
	[inch]	5.12	4.72	7.09
for container		5.09.010	5.10.006 5.10.010	5.10.006 5.10.010
Construction		with coupling nut	with saw thread (S 56 x 4)	with saw thread (S 56 x 4)
Ref. no.		**5.08.004-1**	**5.10.001**	**5.10.007**

Accessories			
Replacement flame arrester for funnel (stainless steel with seal)			
Ref. no.	on request	5E10.004	5E10.004

8.2.2 Drum funnel made of sheet steel

For safe filling of drums with flammable liquids. Made of sheet steel, exterior powder-coated red, interior tin plated. Brass immersion tube.

- Self-closing lid in case of fire.
- Large filling opening.
- Immersion tube acts as flame arrester.
- Tested safety product.

Ordering information/dimensions		
Filling opening Ø	[mm]	280
	[inch]	11.02
Thread		2"
Length of flame arrester	[mm]	150
	[inch]	5.9
Ref. no.		**5.082.07**

8.2.3 Funnel made of stainless steel

Funnel ① - 3.80.001, ② - 3.80.002 and ③ - 3.80.003.
VisiCon funnel ④ - 5.08.012 and adapter ⑤ - 5.08.030

For easy and safe filling of containers, canisters and standing cans. Made completely of stainless steel 1.4571 - unpolished.

Funnel - 3.80.001 for stainless steel standing cans 10 (2.64) and 25 (6.6) litre (gal).

Funnel - 3.80.002 for stainless steel canisters 5 (1.32) and 10 (2.64) litre (gal).

Funnel - 3.80.003 for stainless steel cans 1 (0.26), 2 (0.53) and 5 (1.32) litre (gal).

VisiCon funnel - 5.08.012 with adapter 5.08.030 for VisiCon cans 1 (0.26) and 2 (0.53) litre (gal).

Ordering information/dimensions					
Filling Ø	[mm]	120	120	120	120
	[inch]	4.72	4.72	4.72	4.72
Filling pipe Ø	[mm]	34	34	23	34
	[inch]	1.34	1.34	0.91	1.34
Filling pipe length	[mm]	100	100	100	20
	[inch]	3.94	3.94	3.94	0.79
Ref. no.		3.80.001	3.80.002	3.80.003	5.08.012

Accessories				
Adapter for funnel				
Ref. no.	—	—	—	5.08.030

8.2.4 Drum funnel made of polyethylene

Drum stand - 1.282.11

For easy and safe filling of drums. Suitable for use as surface for letting filters and cans drip off.

- Lightweight construction, PE material.
- Model 1.282.11 with flame arrester and vacuum/pressure compensation valve for flammable liquids.
- Model 1.282.10 with (add-on) lid for protection against contamination.

Ordering information/dimensions			
Content	[l]	9.5	9.5
	[gal]	2.51	2.51
Ø	[mm]	530	530
	[inch]	20.87	20.87
Height	[mm]	83	83
	[inch]	3.27	3.27
Filling opening Ø	[mm]	42	52
	[inch]	1.65	2.05
Weight	[kg]	2.3	3.2
	[lbs]	5.07	7.05
Flame arrester		—	•
Valve		—	•
Ref. no.		1.282.10	1.282.11

Accessories		
Lid		
Ref. no.	1.282.15	—

Safety containers for solid hazardous substances

8.3.1 Workbench collection containers powder-coated

Collection container with foot pedal ① - 5.901.00 and ② - 5.901.10

For safe collection of used cleaning material. Made of sheet steel, interior tin plated, exterior powder-coated – red.

- Convenient opening using foot pedal or optionally by hand.
- Table-top version with side handles, without perforated bottom edge.
- Self-closing lid.
- Perforated floor edge prevents heating up/self ignition.
- High stability.
- No leakage of collected liquids.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- Tested safety product.

Table version of the collection container - 5.902.00

Ordering information/dimensions									Table-top version
Opening		Foot pedal	Foot pedal	Foot pedal	Foot pedal	Manual	Manual	Manual	Manual
Content	[l]	20	40	50	80	20	40	80	8
	[gal]	5.28	10.57	13.21	21.13	5.28	10.57	21.13	2.11
Ø	[mm]	290	348	393	458	290	348	458	245
	[inch]	11.42	13.7	15.47	18.03	11.41	13.7	18.03	9.65
Height	[mm]	397	458	505	597	397	458	597	230
	[inch]	15.63	18.03	19.89	23.5	15.63	18.03	23.5	9.06
Ref. no.		**5.901.00**	**5.903.00**	**5.905.00**	**5.907.00**	**5.901.10**	**5.903.10**	**5.907.10**	**5.902.00**

Accessories	Poly flat bag (except for Ref. no. 5.902.00)
Ref. no.	5.98.099

8.3.2 Self-closing drum lids

For an easy conversion of standard drums into safe collection drums for flammable solids. Made of sheet steel, powder-coated - red.

- Self-closing lid in case of fire thanks to fusible link.
- Clamping ring equalizes different drum diameters.
- Easy installation.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- Tested safety product.

Ordering information/dimensions	
to fit	200 l (52.83) drum
Ref. no.	**5.267.50**

Accessories	
Spare fusible link	
Ref. no.	4.275.20

8.4.1 Washing and dipping tanks made of sheet steel

Washing and dipping tank ① - 4.276.02 with small components basket - 4.279.01, dipping tank ② - 4.094.00

For safe cleaning and degreasing of components and equipment using flammable solvents. Made of sheet steel, interior tin plated, exterior powder-coated – red. Container 4.276.15 with additional polyethylene insert in the tank and the lid.

- Suitable for use with small components basket or brush insert.
- Self-closing lid in case of fire, container 4.094.00 self-closing (spring-actuated).
- Good resistance even with contaminated substances.
- High stability.
- Robust construction.
- Tested safety product.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).

Small components basket - 4.279.03

Stand washing station - 4.01.411

Ordering information/dimensions								
Ø	[mm]	267	240	240	300	360	410	360
	[inch]	10.51	9.45	9.45	11.81	14.17	16.14	14.17
Height	[mm]	178	160	260	310	360	390	360
	[inch]	7.01	6.3	10.24	12.2	14.17	15.35	14.17
Contents	[l]	1.7	4	8	13	19	30	19
	[gal]	0.45	1.06	2.11	3.43	5.02	7.93	5.02
Fill capacity[1]		–	–	4	8	13	22	13
Ref. no.		**4.094.00**	**4.276.01**	**4.276.02**	**4.276.03**	**4.276.05**	**4.276.08**	**4.276.15**[2]

Accessories							
Small components basket							
Ref. no.	–	–	4.279.01	4.279.02	4.279.03	4.279.06	4.279.23
Brush insert							
Ref. no.	–	–	4.27.023	4.27.023	4.27.058	4.27.058	–
Spare fusible link for all models							
Ref. no.				4.275.20			
Stand for washing station 450 x 450 x 550 mm/17.72 x 17.72 x 21.65 inch (W x D x H) - for all models							
Ref. no.				4.01.411			

[1] in litres when using small components basket [2] with polyethylene insert

8.4.2 Filling container for mixing liquids

For safe mixing of liquids such as paints, varnishes and staining products. Also suitable for flammable liquids. Made of sheet steel, interior tin plated, exterior powder-coated – red.

- Lockable lid.
- Self-closing filling opening.
- Automatic pressure compensation.
- Flame arrester in filling opening.
- With earthing jumper.
- Carrying handle for in-house transport.
- Simple application.
- High stability.

Information
The correct earthing cables can be found in programme section 9.

Ordering information/dimensions		
Content	[l]	19
	[gal]	5.02
Ø	[mm]	380
	[inch]	14.96
Height	[mm]	405
	[inch]	15.94
Ref. no.		**4.277.05**

Cleaning vessels

8.4.3 Moisteners made of sheet steel and polyethylene

Moisteners - ① - 4.140.18 and ② - 4.103.08

For economic moistening of a cleaning cloth when only small quantities of solvent are required. Made of sheet steel, interior tin plated, exterior powder-coated - red, or alternatively: container 4.140.18 made of polyethylene.

- Pump tube made of brass and PPS.
- Spring mounted soaking plate with flame arrester.
- Economical removal of cleaning liquids. Liquid that is not needed goes back into the container.
- Emitted vapours are reduced to a minimum.
- Good resistance even with contaminated substances.
- High stability.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).

Ordering information/dimensions						
Content	[l]	0.5	1	2	4	1
	[gal]	0.13	0.26	0.53	1.06	0.26
∅	[mm]	120	180	180	180	135/135
	[inch]	4.72	7.09	7.09	7.09	5.31/5.31
Height	[mm]	135	145	190	270	210
	[inch]	5.31	5.71	7.48	10.63	8.27
Soaking plate		75	135	135	135	135
Material		Sheet steel	Sheet steel	Sheet steel	Sheet steel	Polyethylene
Ref. no.		**4.100.08**	**4.101.08**	**4.102.08**	**4.103.08**	**4.140.18**

8.4.4 VisiCon moisteners made of stainless steel

Moistener including soaking plate ① - 4.10.021 and ② - 4.10.011

For economic moistening of a cleaning cloth when only small quantities of solvent are required. Stainless steel container 1.4571 - unpolished; stainless steel soaking plate set 1.4301.

- **The soaking plate is compatible with the 1 or 2 l jug 5.90.001-1, 5.90.001 or 5.90.002-1, 5.90.002 (Section 8.1.1).**
- **Spring mounted soaking plate with flame arrester and pump tube.**
- High resistance and purity.
- Emitted vapours are reduced to a minimum.
- Economical removal of cleaning liquids. Liquid that is not needed goes back into the container.
- High stability.
- **Can handle ensures safe handling.**
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).
- G 1 ¼" pipe thread.

Soaking plate - 4.10.010-11

Ordering information/dimensions			
Content	[l]	1	2
	[gal]	0.26	0.53
∅	[mm]	105	120
	[inch]	4.13	4.72
Height	[mm]	273	333
	[inch]	10.74	13.11
Ref. no.		**4.10.011**	**4.10.021**
Accessories			
Soaking plate			
Length x ∅	[mm]	265 x 120	320 x120
	[inch]	10.43 x 4.72	10.43 x 12.6
Ref. no.		4.10.010-11	4.10.020-21

8.4.5 Soaking containers made of sheet steel

Soaking container ① - 4.102.95 and ② - 4.105.75

For metered soaking of cloths for cleaning, e.g. printing press rollers, with solvents. Made of sheet steel, interior tin plated, exterior powder-coated – red.

- Spring mounted flame arrester as soaking plate.
- Metered removal of cleaning liquid.
- Rounded edges prevent injuries.
- Soaking container 4.104.71 including carrying handle.
- High stability.
- Good resistance even with contaminated substances.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).

Ordering information/dimensions

Content	[l]	1	2	4	8	12	6
	[gal]	0.26	0.53	1.06	2.11	3.17	1.59
∅	[mm]	120	240	240	290	350	240
	[inch]	4.72	9.45	9.45	11.41	13.78	9.45
Height	[mm]	130	100	120	270	180	190
	[inch]	5.12	3.94	4.72	2.76	7.09	7.48
Ref. no.		**4.101.75**	**4.102.95**	**4.103.75**	**4.105.75**	**4.107.75**	**4.104.71**

Accessories

Components basket, ∅ 170 mm (6.7 inch), height 15 mm (0.6 inch) to match						
Ref. no.	—	4.101.11	4.101.11	4.101.11	—	4.101.11

8.4.6 Soaking containers made of stainless steel

For metered soaking of cloths for cleaning, e.g. printing press rollers, with solvents. Made completely of stainless steel.

- Spring mounted flame arrester as soaking plate.
- Metered removal of cleaning liquid.
- High stability.
- High resistance.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).

Ordering information/dimensions

Content	[l]	4
	[gal]	1.06
∅	[mm]	260
	[inch]	10.24
Height	[mm]	135
	[inch]	5.31
Material		Stainless steel 1.4571
Ref. no.		**4.10.404**

8.4.7 Cleaning cans galvanised and made of stainless steel

Cleaning can incl. components basket ① - 4.30.001-1 and ② - 4.30.004 with components basket ③ - 4.30.004-T

For safe cleaning and degreasing of components and equipment using flammable solvents. Completely galvanised or completely made of stainless steel.

- Self-closing lid in case of fire.
- Good resistance even with contaminated substances.
- Cleaning cans 4.30.001-1 and 4.30.002 including components basket.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).

Ordering information/dimensions

Content	[l]	0.75	2	4
	[gal]	0.19	0.53	1.06
∅	[mm]	150	230	260
	[inch]	5.9	9.06	10.24
Height	[mm]	80	100	135
	[inch]	3.15	3.94	5.31
Material		Galvanised sheet steel	Galvanised sheet steel	Stainless steel 1.4571
Ref. no.		**4.30.001-1**	**4.30.002**	**4.30.004**

Accessories

Components basket, stainless steel 1.4571, to fit			
Ref. no.	—	—	4.30.004-T

Cleaning vessels

8.4.8 Container for use with cold cleaners

For safe cleaning with water pollutant, **non-flammable** solvents (e.g. cold cleaners).
Fully hot-dip galvanised.

- Captive lid with carrying handle connected to the container.
- Easy operation.
- Good media resistance.
- Robust construction.
- High stability.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).

Ordering information/dimensions		
Content	[l]	15
	[gal]	3.96
∅	[mm]	310
	[inch]	12.2
Height	[mm]	260
	[inch]	10.24
Ref. no.		4.99.015

8.4.9 Brush holders made of polyethylene

FM

Brush holder ① - 4.14.045 and ② - 4.14.090

For working with adhesives, paints and solvents. Made of impact resistant polyethylene.

- No drying out of the brush - brush remains in the liquid.
- Precise metering with wiping bar.
- Secure holding of brush.
- High chemical resistance.
- Container markings according to GefStoffV and Workplace Directive A1.3 (ASR).

Ordering information/dimensions				
Content	[l]	0.45	0.9	1.5
	[gal]	0.12	0.24	0.4
Height	[mm]	150	180	190
	[inch]	5.9	7.09	7.5
Width	[mm]	125	180	210
	[inch]	4.92	7.09	8.27
Depth	[mm]	85	100	110
	[inch]	3.35	3.94	4.33
Ref. no.		4.14.045	4.14.090	4.14.150

8.5.1 Dipping tanks made of sheet steel

FM

①

For safe and convenient cleaning of larger components at working height. Made of galvanised sheet steel - painted red.

- ¾" drain plug in the bottom of the basin for discharge.
- Independent, slow-closing of the lid via pneumatic spring of pedal-operated dip tanks.
- Models 4.271.40 and 4.272.60 with 2 chambers, ideal for 2-stage cleaning.
- Models 4.273.11 and 4.273.22 for installation on the workbench. Self-closing lid in case of fire.
- Tested safety product.
- Optionally available:
  - Floor strainer allows coarse dirt to pass through.
  - Components basket for cleaning smaller parts.

Floor strainer - 4.270.04

Components basket - 4.270.05

Pedal-operated dip tank ① - 4.272.60 with 2 chambers 4.272.20 and with components basket ② - 4.270.05

Ordering information/dimensions

Opening		Foot pedal	Foot pedal	Foot pedal	Foot pedal	Manual	Manual
Fill capacity	[l]	48	97	2x 15	2x 34	48	97
	[gal]	12.68	25.62	2x 3.96	2x 8.98	12.68	25.62
Outer:							
Width	[mm]	610	895	610	895	610	895
	[inch]	24.02	35.24	24.02	35.24	24.02	35.24
Depth	[mm]	496	496	496	496	496	496
	[inch]	19.53	19.53	19.53	19.53	19.53	19.53
Height	[mm]	845	845	845	845	273	336
	[inch]	33.27	33.27	33.27	33.27	10.75	13.23
Interior:							
Width	[mm]	603	889	2x 298	2x 438	603	889
	[inch]	23.74	35	2x 11.73	2x17.24	23.74	35
Depth[1)]	[mm]	406	406	406	406	406	406
	[inch]	15.98	15.98	15.98	15.98	15.98	15.98
Height	[mm]	222	305	140	222	273	336
	[inch]	8.74	12	5.51	8.74	10.74	13.23
Ref. no.		**4.271.10**	**4.272.20**	**4.271.40**	**4.272.60**	**4.273.11**	**4.273.22**

[1)] Due to the shape of the basin, the depth reduces to approx. 260 mm (10.24 inch) in the bottom half of the tank.

Accessories

Floor strainer						
Ref. no.	4.270.04	4.270.06	—	—	4.270.04	4.270.06
Components basket						
Ref. no.	4.270.03	4.270.05	—	—	4.270.03	4.270.05

Storage equipment
and accessories

9

Storage equipments and accessories

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9.1.1 Drum wrench

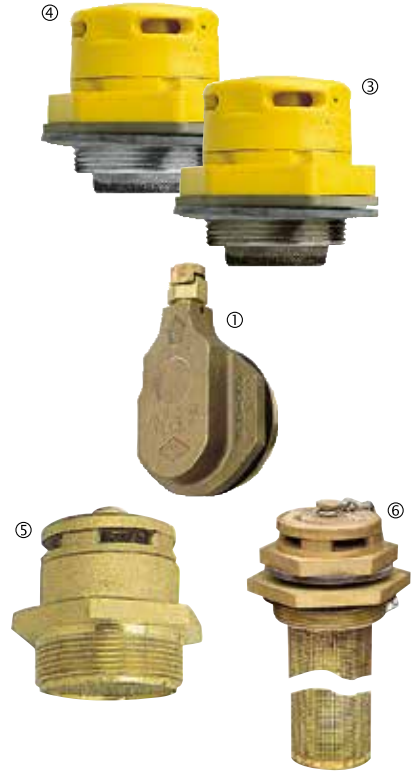
Enables the easy opening/closing of all standard drum fixings. Brass alloy.

» Prevents spark formation when opening/ closing the drum.

Ordering information/dimensions		
Length approx.	[mm]	275
	[inch]	10.83
Ref. no.		1.808.05

9.1.2 Vacuum and pressure compensation valves

FM



For all vacuum and pressure compensation valves from ① to ⑥ - see table.

For vacuum and pressure compensation in drums. Model 1.802.04 consists of a flame arrester and valve. When filling a drum the valve can be unscrewed, the flame arrester remains in the drum. Ideal for combining with funnel 3.80.003, see programme section 8.2.

» Prevents overpressure and negative pressure in containers and therefore prevents drum bursts.
» Enables uniform filling.
» Automatic pressure compensation.
» Flame arrester protects against explosion.
» Various materials.
» Tested safety product.

Ordering information/dimensions

	①	②	③	④	⑤	⑥
Housing	Brass	Stainless steel	Plastic	Plastic	Brass	Brass
Flame arrester	Brass	Stainless steel	Galvanised steel	Stainless steel	Brass	Brass
	within the 2" connection		within the 2" connection			140 mm 5.51 inch long
Pressure compensation	automatic from 0.4 bar 5.8 psi		automatic from 0.4 bar 5.8 psi			
	addit. fusible link					
Vacuum compensation	manual		automatic at 0.2-0.6 bar 2.9-8.7 psi			
Drum position	horizontal		vertical			
Seals	Buna N		membranes made of Buna N			
Ref. no.	1.803.00	1.803.06	1.800.05	1.800.06	1.801.01	1.802.04

9.1.3 Level indicator

For indicating the level in the drum. Suitable for numerous media including non-viscous oils. Glass tube with chromium-plated protection sheets. T-piece made of galvanised cast iron.

» Suitable for drums and taps with ¾" connection.
» Can also be used together with drum siphon adapter.

Ordering information/dimensions	
Level indicator (without tap)	
Drum position	vertical
Ref. no.	1.805.32

Drum safety accessories

9.1.4 Self-closing taps

For all self-closing taps, from ① to ⑥ - see table.

Safe, controlled removal from containers.

- Open by pushing or pulling.
- Setting ring for adjustment.
- Self-closing prevents uncontrolled leakage of liquids.
- Flame arrester (except ①+⑥) protects against explosion.
- Tested safety product.

Ordering information/dimensions

	①	②	③	④	⑤	⑥
Material	Stainless steel	Stainless steel	Brass	Brass	Brass	Brass
Actuator	Plastic, easy-moving	Galvanised sheet steel	Plastic, easy-moving	Galvanised sheet steel	Galvanised sheet steel	Galvanised sheet steel
Setting ring for adjustment	•	•	–	–	•	–
Flame arrester	–	•	•	•	•	–
Flow rate [l/min]	3	6	6	6	6	8
[gal/min]	0.79	1.59	1.59	1.59	1.59	2.11
Threaded connection	¾"	¾"	¾"	¾"	¾"	¾"
Sealing material	Teflon	Teflon	Teflon	Teflon	Teflon	Teflon
Ref. no.	1.80.000	1.809.16	1.805.40	1.809.02	1.809.10	1.809.55

Accessories

Flexible metal hoses make filling through small openings easier. For internal thread ¾"

∅	[mm]	16	15
	[inch]	0.63	0.59
Length	[mm]	160	210
	[inch]	6.3	8.27
Ref. no.		1.805.87	1.809.30

9.1.5 Self-closing cut-off tap

For safe removal of viscous liquids. Cast brass parts. Lever, screws and springs made of galvanised sheet steel. Teflon cutting disc.

- Long-lasting, highly resistant Teflon cutting disc.
- Economical extraction.
- Self-closing prevents uncontrolled leakage of liquids.
- Tested safety product.

Ordering information/dimensions	
2" threaded connection	
Ref. no.	1.805.52

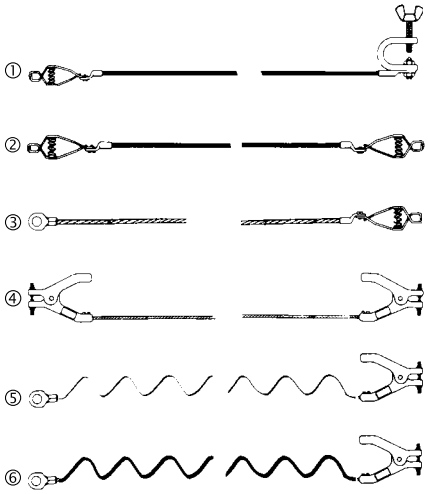
9.1.6 Antistatic set

For discharging and preventing electrostatic charge in accordance with TRGS 727. Including high-quality transport case made of plastic.

- Easy handling.
- Protection of people/property.

Ordering information	
Ref. no.	1.96.108

9.1.7 Earthing cables

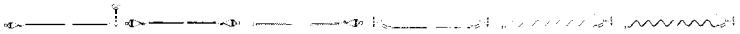


For all earthing cables from ① to ⑥ - see table.

For discharging and preventing static charges in accordance with TRGS 727.

» Easy handling.
» Protection of people/property.

Ordering information/dimensions



	①	②	③	④	⑤	⑥
Length approx. [mm] approx. [inch]	1000 39.37	1000 39.37	1000 39.37	1000 39.37	3000 118.11	3000 118.11
Material	Galvanised steel, PE sheathed	Galvanised steel, copper cable sheathed	Galvanised steel, copper cable sheathed	Galvanised steel	Galvanised steel	Galvanised steel, PE sheathed
Ref. no.	1.806.61	1.806.62	1.806.63	1.806.60	1.806.64	1.804.97

9.2.1 Electric drum and container pumps for flammable liquids

ATEX

Drum pump set Ⓐ - 1.97.820✶ and Ⓑ - 1.97.870✶ both with drum pump ①, solvent hose ②, extraction nozzle ③ and drum adapter ④

For flammable hydrocarbons.
From the pump to the system. For safe Ⓐ emptying and Ⓑ residual discharge of larger quantities from drums and IBCs.

» For the safe transfer of ethanol, benzene, butanol, isopropanol, kerosene, methanol, etc.
» Degree of protection IP 54.
» 230 V motor with 5 m (3.28 ft) cable, earthing pin plug.
» Pump sets are pre-assembled and quickly ready for use.
» Explosion-proof in accordance with the ATEX 100a guidelines (equipment category 1/2).

Drum pump set:
Ⓐ for **discharge** - consisting of drum pump, 2 m (6.56 ft) solvent hose DN 19, extraction nozzle made of brass and drum adapter made of PP.

Ⓑ for **residual draining** - consisting of drum pump, 2 m (6.56 ft) solvent hose DN 19, extraction nozzle made of brass and drum adapter made of PP.
The remaining residual quantity for optimum use is approx. 0.1 litres (0.03 gal).

Ordering information/dimensions

Pumping station for		Ⓐ Discharge	Ⓑ Residual discharge
Actuator		Electric	Electric
Pumping station material		Stainless steel	Stainless steel
Immersion depth	[mm] [inch]	1000 39.37	1000 39.37
Immersion tube ∅	[mm] [inch]	41 1.61	41 1.61
Max. delivery head	mWS	14	14
Max. delivery rate	[l/min] [gal/min]	95 25.1	77 20.34
Engine power	Watt	460	460
Max. viscosity	mPas	350	500
Ref. no.		1.97.820✶	1.97.870✶

9.2.2 Drum pump made of stainless steel for flammable liquids

Drum pump with drainage elbow ① - 1.96.100
and with drainage hose ② - 1.96.105

The drum pump is the ideal solution for filling combustible and easily flammable liquids.

- Parts in contact with medium are made of stainless steel 1.4301and PTFE.
- Electrostatically conductive.
- Used in conjunction with the anti-static set, the drum pump fulfils the requirements for handling flammable liquids.

Ordering information/dimensions		①	②
Drainage elbow/hose (unscrewable)		Elbow	Hose (PTFE, 1.2 m, 1")
Immersion depth	[mm] [inch]		910 35.83
Delivery rate per stroke	[ml] [gal]	560 174.94	560 174.94
Total length	[mm] [inch]		1030 40.55
Immersion tube ∅	[mm] [inch]		32 1.26
Stopcock		–	•
Outlet spout		–	•
Ref. no.		1.96.100	1.96.105

Accessories		
Drum threaded fitting made of nickel plated brass, R2", fine steel thread		
Ref. no.	1.96.106	1.96.106
Drum threaded fitting is gas-proof, R 2", steel thread for drums, backflow valve with ⅛" connection, nickel plated brass, sealing made of Viton®		
Ref. no.	1.96.107	1.96.107
Anti-static set - see programme section 9.1		
Ref. no.	1.96.108	1.96.108

9.2.3 Hand pump, ultra clean for organic solvents

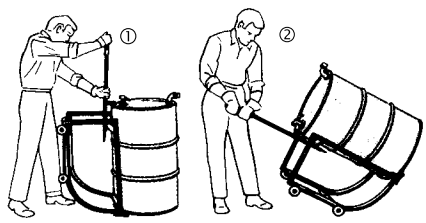
Suitable for contamination free removal of organic solvents and flavourings. Materials in contact with media made of stainless steel, gaskets made of EPDM.

- Pump is gas-tight and can be completely blocked with two ball valves.
- Immersion tube 600 mm (23.62 inch)
- Suitable for stainless steel drums usually used in laboratories, 10 l (2.64 gal) and 25 l (6.6 gal) with R 2"-fine thread.

Ordering information/dimensions		
Immersion depth	[mm]	600
	[inch]	23.62
Ref. no.		1.96.130

Accessories	
Anti-static set - see programme section 9.1	
Ref. no.	1.96.108

9.3.1 Drum wagon



For safe handling of drums. Stable tubular frame, blue stove enamelled sheet steel incl. push-in lifting rod.

- Easy handling of 200 litre (52.83 gal) drums.
- 4 wheels, of which 2 steerable.

Ordering information/dimensions		
Max. load bearing capacity	[kg]	500
	[lbs]	1102.31
Ref. no.		1.79.550

9.3.2 Lifter for drums and containers

Drum lifter ① - 1.31.045 and ② 1.31.0450 - Transport unit ③ - 1.31.051

For safe picking-up and transport of drums and containers in an upright position.

- Safe lifting with easy-to-use pump with foot lever for model 1.31.045* and hand crank for model 1.31.050*.
- Suitable for the feeding of drum cabinets, drum stations, etc.
- Manually operated dead man's control for safe and precise lowering.
- 2 fixed castors and two swivelling castors.

Model 1.31.045*

- Gripping arrangement suitable for nearly all 200 litre (52.83 gal) metal drums - releases automatically when the drum is set down.
- Design optimally adapted to Euro pallets, for holding drums.

Model 1.31.050 with transport unit 1.31.051/1.31.052

- Device is adjustable to container size and geometry.
- Containers can be accepted easily with heavy-duty rollers.

Ordering information/dimensions			
Max. load bearing capacity	[kg] [lbs]	300 661.39	100 220.46
Lift height	[mm] [inch]	700 27.56	1500 59.06
Length	[mm] [inch]	850 33.46	810 31.89
Width (outside/inside)	[mm] [inch]	960/870 37.8/34.25	710 27.95
Height (min./max.)	[mm] [inch]	1410/1915 55.51/75.39	1840 72.44
Legs (L x H)	[mm] [inch]	570 x 65 22.44 x 2.56	—
Weight	[kg] [lbs]	67 147.71	40 88.18
Ref. no.		1.31.045*	1.31.050

Accessories	
Transport unit for Model 1.31.050	
Ref. no., left	1.31.051
Ref. no., right	1.31.052

9.3.3 Transport trolley for hazardous substances

Transport trolley for flammable hazardous substances ① - 7.02.00 and for acids/lye ② - 7.02.200

For safe in-house transport of flammable hazardous substances or acids and lye. Transport trolley made of metal, powder-coated in RAL 7015 with anti-static rollers and waterproof sealed collection tray.

- Collection volume of max. 22 litres (5.81 gal).
- Stainless steel bracket for storing a pack of disposable gloves.
- 4 castors, braking and anti-static.
- Holding box for protective goggles.

Ordering information/dimensions			
Material		PP - conductive	PP
Earthing cable		•	—
Max. capacity	[kg] [lbs]	4x 20 l container 4x 5.28 gal	4x 20 l container 4x 5.28 gal
Length x width x height	[mm] [inch]	810 x 445 x 900 31.89 x 17.52 x 35.43	810 x 445 x 900 31.89 x 17.52 x 35.43
Ref. no.		7.02.100	7.02.200

Safety storage containers

9.4.1 Safety store containers

Storage container - 1.52.311✶
with shelf system - 1.52.477✶

Insulated storage container - 1.52.221✶

For safe and compliant storage of water polluting liquids in water pollutant class WGK 1 – 3, and flammable liquids, F+, F and ignitable, outdoors or in buildings in accordance with specific fire protection regulations.
The general national technical approval Z-38.5-94 of the Deutsches Institut für Bautechnik (DIBt - German Institute for Civil Engineering) is included in the scope of supply.

Standard containers

- Containers are delivered ready assembled.
- Galvanised or coated versions available (2 K-PUR prime coat as per RAL chart, e.g. RAL 6010 - grass green)
- Wall and ceiling elements made of galvanised trapezoidal sections, floor sections made of sheet steel.
- **1 wing steel door with locking system:**
  - Width x height 1294 x 1996 mm (49.17 x 78.58 inch).
  - The door is mounted on the longitudinal side, optionally on the longitudinal or narrow side, except model 1.52.311*, 1.52.411*,1.52.211*, 1.52.511*.
  - Door hung on the right, a left-hung door is possible at no extra charge.
- Counterbore-protected cylinder, push plate fittings and security lock with 3 keys.
- The accessible roof is designed for
- 125 kg/m² (257.58 lbs/35.31 cubic ft) snow load.
- Drainage through internal gutters.
- **Bottom tray with grating unit:**
  – Bottom tray made of 3 mm (0.12 inch) thick, galvanised sheet steel, in accordance with WHG (Water Management Act) by a specialist firm in accordance with the steel collection tray guidelines (StawaR), welded liquid-tight and documented with factory test certificate.
  - Resistance verified according to DIN 18800 Part 7.
  - Standing level made of galvanised, removable gratings; load 1000 kg/m² (2204.62 lbs/10.76 sq.ft).

Insulated container for frost-free storage - optional

- Galvanised container in fully assembled version.
- Walls, roof and door thermally insulated with insulation panels (40 mm/1.57 inch).
- Explosion-proof ventilation available. Please ask.
- Other equipment is the same as that of the standard container.

Information

Delivery excludes unloading and transfer. A forklift truck or lifting gear suitable for the product's size and weight must be provided for unloading on site.
Optional in Germany: Unloading by truck loading crane on foundations created on site (ref. no. 1.52.HUB✶).

Ordering information/dimensions

Storagecapacity	[l] [gal]	2500 660.43	2400 634.01	3000 792.52	6300 1664.28	10000 2641.72	10000 2641.72	10000 2641.72
Collection volume	[l] [gal]	254 67.1	243 64.19	300 79.25	630 166.42	1000 264.17	1000 264.17	1000 264.17
Tare weight standard/insulated	[kg] [lbs]	285 628.32	332 731.93	370/545 815/1201	460/710 1014/1565	650/975 1433/2149	810 1785.74	960 2116.44
Length	[mm] [inch]	1250 49.21	1550 61.02	915 36.02	1950 76.77	2350 92.52	2350 92.52	2350 92.52
Width	[mm] [inch]	1525 60.04	1525 52.83	2350 92.52	2350 92.52	2985 117.52	4020 158.27	5055 199.02
Height	[mm] [inch]	1699 66.89	1659 65.31	2340 92.13	2340 92.52	2340 92.52	2340 92.52	2340 92.52
Ref. no., painted		1.52.302✶	1.52.304✶	1.52.311✶	1.52.321✶	1.52.331✶	1.52.313✶	1.52.317✶
Ref. no., galvanised		1.52.402✶	1.52.404✶	1.52.411✶	1.52.421✶	1.52.431✶	1.52.413✶	1.52.417✶
Ref. no., galvanised, insulated		on request		1.52.211✶	1.52.221✶	1.52.231✶	1.52.213✶	1.52.217✶
Ref. no., galvanised[1)]		on request		1.52.511✶	1.52.521✶	1.52.531✶	1.52.513✶	1.52.517✶

[1)] with natural ventilation

Accessories/equipment

Two-wing steel door - 1.52.495✶

Steel door - 2 wing

» Hot-dip galvanised.

Ordering information/dimensions			
Steel door		Standard	Insulated
Width (door/side leaf)	[mm]	1250/650	1250/650
	[inch]	49.21/25.59	49.21/25.59
Height	[mm]	1996	1996
	[inch]	78.58	78.58
Ref. no.		1.52.495✶	1.52.496✶

Hanging platform - 1.52.490✶

Hanging platform

» Galvanised, ideal for moving with the hand pallet truck.

Ordering information/dimensions		
Width	[mm]	1160
	[inch]	45.67
Depth	[mm]	900
	[inch]	35.43
Ref. no.		1.52.490✶

Uprights for inserting (optional)

Shelving systems

» Grating shelf adjustable every 140 mm (5.51 inch)

Ordering information/dimensions					
Width/grating shelf	[mm]	2000	2000	1000	1000
	[inch]	78.74	78.74	78.74	78.74
Depth/grating shelf	[mm]	500	500	500	500
	[inch]	19.69	19.69	19.69	19.69
Storage levels		2	3	2	3
Load bearing capacity[1]/ grating shelf	[kg]	120	120	120	120
	[lbs]	264.55	264.55	264.55	264.55
Ref. no.		1.52.476✶	1.52.477✶	1.52.478✶	1.52.479✶

[1] with uniformly distributed load

Electrical installation

Ordering information	Ref. no.
Fuse box ① - IP 54 with miniature circuit breakers, cables and switches (installed on the outside).	1.52.480✶
Fan ② - explosion-proof incl. motor protection switch	1.52.481EX✶
Ribbed tubular radiator ③ - explosion-proof with 850 Watt/T3 and thermostat	1.52.482EX✶
FI switches, 30 mA	1.52.467✶
CEE external connection 380 V/16 A (supply cable and connection on site)	1.52.483✶
Switch IP 54 (installed on the outside), additional.	1.52.469✶
Wall-mounted light, 100 W with IP 54.	1.52.468✶
Neon strip lamp, 2 x 58 W with IP 54.	1.52.463✶
Explosion-proof oval-lamp, 60 W with IP 65.	1.52.465EX✶
Explosion-proof neon strip lamp, 2 x 58 W with IP 65.	1.52.466EX✶
Earthing with spike	1.52.492✶

Hazardous substance shelf systems

9.5.1 Hazardous substance shelves

Hazardous substance shelf - 1.46.530✶

For storage of flammable liquids F+, F and water polluting liquids in water pollutant class WGK 1 – 3 in accordance with the regulations. Universal application in trade and industry, workshops and small businesses. Modular construction enables the systems to be easily extended, modified and retrofitted.

- Easy installation.
- Galvanised shelving uprights.
- Galvanised shelves or hot-dip galvanised grating shelves, height adjustable in 25 mm (0.98 inch) pitch.
- Can be fixed to the floor.
- Load bearing capacity per shelf 150 kg/330.7 lbs (with uniformly distributed load).
- Due to standardised sizes, can be combined with other systems.
- Collection trays with declaration of conformity (ÜHP) according to StawaR (steel collection tray regulations).

Information
With regard to the collection volume, the largest individual container or 10 % of the total quantity must be taken into consideration. Shelves are delivered unassembled, in their component parts. Installation on site is easy and is the customer's responsibility.

Ordering information/dimensions			
Width	[mm]/[inch]	1000/39.37	
Depth	[mm]/[inch]	600/23.62	
Height	[mm]/[inch]	2000/78.74	
Shelf		4	
Collection volume	[l]/[gal]	4x 30/4x 7.93	
		Basic unit	Extension
Ref. no.		1.46.530✶	1.47.530✶

Accessories - for all models		
PE tray	[l]/[gal]	30 / 7.93
Ref. no.		1.72.030✶

9.5.2 Hazardous substances shelving with spillage tray

Hazardous substances shelf with spillage tray ① - 1.46.015✶ and ② - 1.46.020✶

For storage of flammable liquids F+, F and water polluting liquids in water pollutant class WGK 1 – 3 in accordance with the regulations.

- Easy installation.
- Galvanised shelving uprights.
- Hot-dip galvanised grating shelves, height adjustable in 25 mm (0.98 inch) pitch.
- Load bearing capacity per shelf 150 kg/330.7 lbs (with uniformly distributed load).
- Fork stirrups, 100 mm (3.93 inch) under-clearance
- Hot-dip galvanised collection trays with declaration of conformity (ÜHP) according to StawaR (steel collection tray regulations).

Note
Shelves are delivered unassembled, in their component parts. Installation on site is easy and is the customer's responsibility.

Ordering information/dimensions			
Width	[mm]/[inch]	2000/78.74	1000/39.37
Depth	[mm]/[inch]	600/23.62	600/23.62
Height	[mm]/[inch]	2100/82.68	2100/82.68
Tray dimensions:			
Width	[mm]/[inch]	2400/94.49	1200/47.24
Depth	[mm]/[inch]	800/31.5	800/31.5
Height	[mm]/[inch]	250/9.84	360/14.17
Grating shelf		2 x 4	4
Collection volume	[l]/[gal]	200/52.83	200/52.83
Ref. no.		1.46.020✶	1.46.015✶

Accessories - for all models		
PE tray	[l]/[gal]	30/7.93
Bestell-Nr.		1.72.030✶

9.6.1 Hazardous substance depot made of sheet steel

Hazardous substances depot -✶ with fold down front door as ramp.

For storage of drums and containers in accordance with the regulations. For flammable liquids F+, F and water polluting liquids in water pollution class WGK 1 – 3.

- Two versions available. With two wing doors and forklift pockets for forklift arms, 100 mm (3.93 inch) underclearance or with fold-down front door made of aluminium as access ramp.
- With natural ventilation.
- Galvanised sheet steel construction.
- Collection tray with galvanised grating.
- Roof with pneumatic springs.
- Lockable.
- Optional painted external surface possible, blue RAL 5012.
- With general national technical approval Z-38.5-101 (DIBt).

Ordering information/dimensions

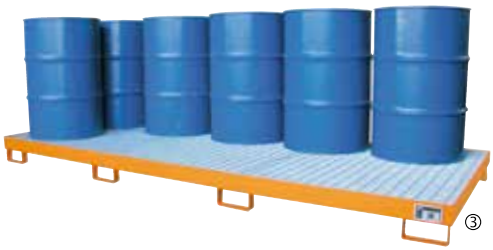
Construction		Wing doors	Wing doors	Ramp	Ramp
Max. number of drums		2x 200 l 2x 52.83 gal	4x 200 l 4x 52.83 gal	2x 200 l 2x 52.83 gal	4 x 200 l 4 x 52.83 gal
Width	[mm] [inch]	1437 56.57	1437 56.57	1437 56.57	1437 56.57
Depth	[mm] [inch]	1015 39.96	1500 59.06	1015 39.96	1500 59.06
Height	[mm] [inch]	1614 63.54	1557 61.3	1514 59.61	1457 57.36
Collection volume	[l] [gal]	210 55.48	220 58.12	210 55.48	220 58.12
Ref. no., painted		1.48.212✶	1.48.214✶	1.48.412✶	1.48.414✶
Ref. no., galvanised		1.49.212✶	1.49.214✶	1.49.412✶	1.49.414✶

9.6.2 Collection trays made of sheet steel

Collection tray ① - 1.41.202✶

For storage of drums containing flammable liquids F+, F and water polluting liquids in water pollutant class WGK 1 – 3 in accordance with the regulations, max. density 1.9 kg/l (4.19 lbs/0.26 gal).

- Sturdy construction made of 3 mm (0.12 inch) thick sheet steel.
- Incl. galvanised grating, removable, therefore easy to clean.
- Easy to handle due to skids with 100 mm (3.93 inch) underclearance for in-house transport.
- Surface painted blue, RAL 5012, or hot-dip galvanised to EN ISO 1461.
- Other RAL colours available on request.
- With declaration of conformity (ÜHP) according to StawaR.



Collection tray ② - 1.41.204✶ and ③ 1.40.501 -✶

Ordering information/dimensions

Max. number of 200 l (52.83 gal) drums		1	2	4	4	8	10	12
Width	[mm] [inch]	800 31.5	1200 42.24	1200 42.24	2400 94.49	2650 104.33	3250 127.95	3880 152.76
Depth	[mm] [inch]	800 31.5	800 31.5	1200 42.24	800 31.5	1300 51.18	1300 51.18	1300 51.18
Height	[mm] [inch]	465 18.31	360 14.17	285 11.22	250 9.84	210 8.27	190 7.48	200 7.87
Collection volume	[l] [gal]	203 53.63	215 56.8	216 57.06	222 58.65	246 69.74	280 74	335 88.5
Load	[kg] [lbs]	250 551.16	500 1102.31	1000 2204.62	1000 2204.62	1600 3527.4	2000 4409.25	2400 5291.1
Tare weight	[kg] [lbs]	59 130.07	70 154.32	87 191.8	113 249.12	194 427.7	240 529.11	277 610.68
Ref. no., painted		1.41.201✶	1.41.202✶	1.41.203✶	1.41.204✶	1.41.208✶	1.40.501✶	1.40.502✶
Ref. no., galvanised		1.41.301✶	1.41.302✶	1.41.303✶	1.41.304✶	1.41.308✶	1.40.601✶	1.40.602✶

Depots and collection trays

9.6.3 Collection trays made of sheet steel

Collection tray - 1.39.204✶

For storage of drums containing flammable liquids F+, F and water polluting liquids in water pollutant class WGK 1 – 3 in accordance with the regulations, max. density 1,9 kg/l (4.19 lbs/0.26 gal).

- Sturdy construction made of 3 mm (0.12 inch) thick sheet steel.
- Incl. galvanised grating, removable, therefore easy to clean.
- With supporting feet, easy to handle due to 100 mm (3.93 inch) underclearance for in-house transport.
- Surface hot-dip galvanised according to EN ISO 1461.
- With declaration of conformity (ÜHP) according to StawaR.

Ordering information/dimensions			
Max. number of 200 l (52.83 gal) drums		2	4
Collection volume	[l] [gal]	215 56.8	216 57.06
Width	[mm] [inch]	1200 47.24	1200 47.24
Depth	[mm] [inch]	800 31.5	1200 47.24
Height	[mm] [inch]	360 14.17	285 11.22
Ref. no.		1.39.202✶	1.39.204✶

9.6.4 Collection trays made of polyethylene

① Collection tray - 1.73.030✶, ② - 1.72.040✶ and ③ - 1.73.040✶

For storage of small containers in accordance with the regulations. For water polluting liquids in the water pollutant classes WGK 1 – 3.

- High chemical resistance.
- Corrosion-resistant.
- Simple handling due to low height.
- Low tare weight.
- With general national technical approval Z-40.12-227 of the DIBt Berlin.

Information
Appropriate collection trays/30 l (7.93 gal) can be combined with the hazardous substance shelves in programme section 9.5.

Collection tray - 1.72.030✶

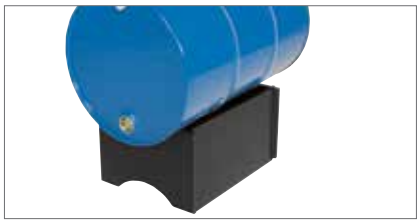
Ordering information/dimensions					
Collection volume	[l] [gal]	30 7.93	30 7.93	40 10.57	40 10.57
Steel grating, galvanised		–	•	–	•
Width	[mm] [inch]	980 38.58	980 38.58	1300 51.18	1300 51.18
Depth	[mm] [inch]	600 23.62	600 23.62	620 24.41	620 24.41
Height	[mm] [inch]	85 3.35	85 3.35	80 3.15	80 3.15
Load bearing capacity	[kg] [lbs]	–	50 110.23	–	50 110.23
Tare weight	[kg] [lbs]	4 8.82	10 22.05	5 11.02	13 28.66
Ref. no.		1.72.030✶	1.73.030✶	1.72.040✶	1.73.040✶

9.6.5 Collection trays made of polyethylene

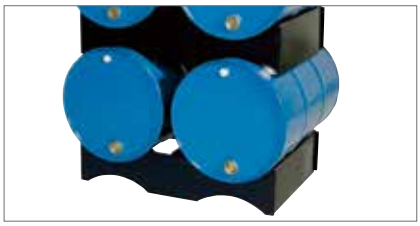
Collection tray ① - 1.61.014✶, ② - 1.61.003✶ and ③ - 1.61.004✶

For **storage** of water polluting, **non-flammable** liquids in accordance with the regulations and according to WHG. High resistance against acids, lye and other aggressive chemicals, due to welded plastic construction of an extruded plate material (PE-HD). General national technical approval of the German Institute for Civil Engineering (DIBt).

- Storage of containers and drums up to 200 litre (52.83 gal).
- Convenient and easy loading due to low height.
- Incl. sturdy PE perforated plate as standing level.
- Easy to clean.
- High media resistance.
- High stability.
- Accessible on all sides due to 100 mm (3.93 inch) base design.



Drum stand - 1.60.241✶



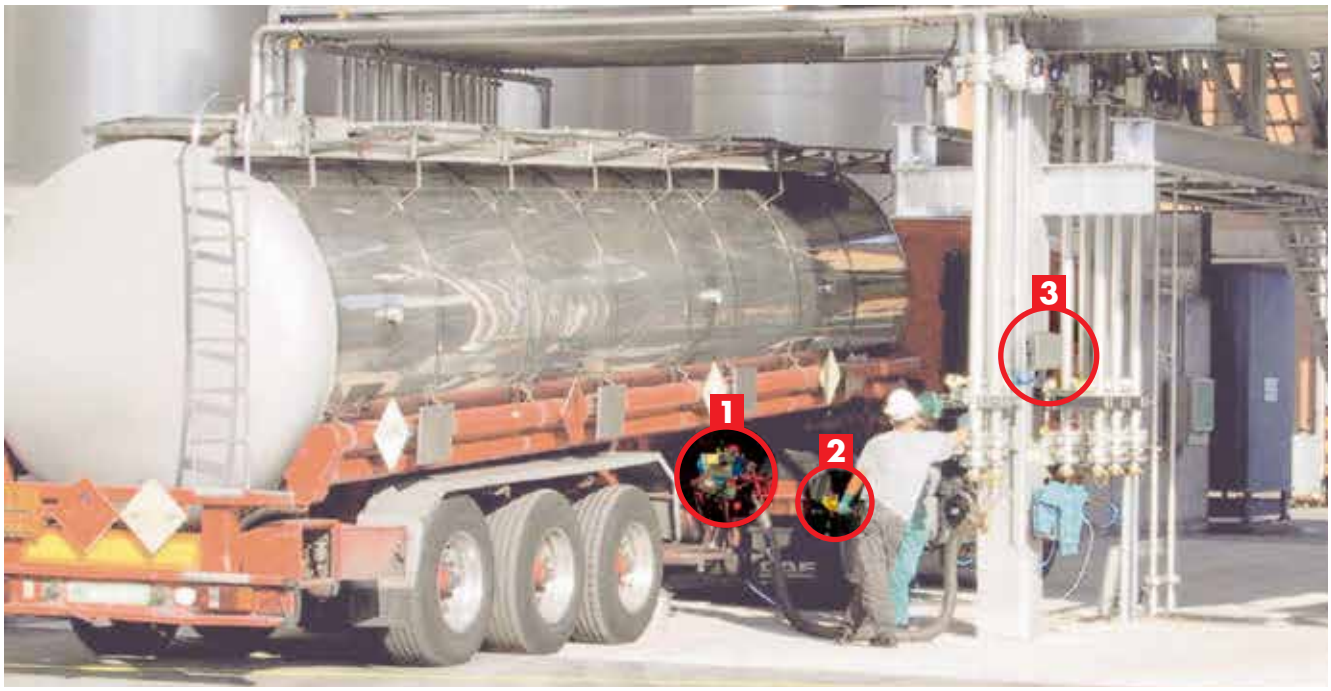
Drum pallet - 1.60.242✶ (2x)

Ordering information/dimensions					
Max. number of 200 l (52.83 gal) drums		2	3	4	4
Width	[mm]	1270	1870	2470	1270
	[inch]	50	73.62	97.24	50
Depth	[mm]	870	870	870	1270
	[inch]	34.25	34.25	34.25	50
Height	[mm]	400	310	270	310
	[inch]	15.75	12.2	10.63	12.2
Collection volume	[l]	225	225	225	225
	[gal]	59.44	59.44	59.44	59.44
Tare weight	[kg]	62	77	89	71
	[lbs]	136.69	169.76	196.21	156.53
Load bearing capacity	[kg]	900	1350	1800	1800
	[lbs]	1984.21	2976.31	3968.42	3968.42
Ref. no.		1.61.002✶	1.61.003✶	1.61.004✶	1.61.014✶

Accessories		**Drum stand**	**Drum pallet**
Capacity		1 drum (60/200 litre) (15.85/ 52.83 gal)	2 drums (200 litre) (52.83 gal)
Width	[mm]	630	1110
	[inch]	24.8	43.7
Depth	[mm]	485	700
	[inch]	19.1	27.56
Height	[mm]	350	240
	[inch]	13.78	9.45
Material		HDPE	HDPE
Ref. no.		1.60.241✶	1.60.242✶

DÜANA tank filling system

9.7 ANA systems for reducing the retention volume



1 Cut-off flap

2 Hand-held terminal

3 Control unit

For safe removal of flammable and water polluting liquids from transport tanks.
For installing on or connecting to road tankers, tank containers or railway tank wagons in order to monitor the filling process when filling water polluting liquids into storage tanks via hoses.

ANA systems

Type A: Stationary system with integrated solenoid valve and hand-held terminal.

Type B: Stationary system with external solenoid valve and hand-held terminal.

Function

- Couple the cut-off flap unit between tanker and filling hose and connect the pneumatic hose with the control unit/solenoid valve.
- Switch on compressed air and power supply, release the filling process.
- Acknowledge the signal recurring every 30 seconds on the hand-held terminal until filling is completed.
- Failure to acknowledge the signal, continuous pressing and pressing the emergency stop actuator automatically shut the cut-off flap and end the filling process.

Advantages

- Cost-saving, as the necessary retention volume of several thousand litres can be reduced to a few hundred litres.
- Constant monitoring of the filling process so that any leakage is noticed immediately.
- Several floating contacts installed as a standard, e.g. to connect devices for prevention against overfilling, pumps, emergency signals, etc.
- Flexibly deployable system.
- Power supply 24V or with 230V power pack.
- Compressed air supply 6 bar (87 psi).
- Standard sizes of the cut-off flap/tanker couplings: DN 50 or DN 80.

Ideal for haulage firms

- One ANA system can be flexibly deployed for several tankers.
- With bypass button as standard, e.g. for private customer deliveries.
- Power can be supplied via cigarette lighter and compressed air via tyre inflation coupling or via on site unloading station.

9.7.1 Control units with hand-held terminal

DÜANA Type A - 8.300.01-1✶

Equipment with awareness button and emergency stop actuator fulfil the filling monitoring requirements. Hand-held terminal approved for potentially explosive atmospheres in Zone 1. Housing made of highly resistant, impact-resistant polycarbonate.

Type		Ref. no.
A	with integrated solenoid valve	8.300.01-1✶
B	with external solenoid valve	8.100.01-1✶

9.7.2 Cut-off flaps set

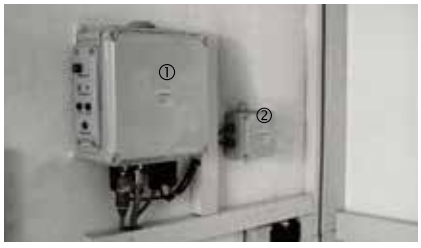
Cut-off flaps set

Easy to use thanks to quick-release couplings on the vehicle's floor valve. Controlled by and connected to the control unit via a pneumatic hose. Flaps are supplied complete with pneumatic part-turn actuator, tanker couplings with dummy caps for threaded tapered union and connecting mother part and flanged threaded nipples.

Information
Other sizes and versions available on request. The customer is responsible for clarifying the required resistances with respect to the media to be filled.

Set no.		Ref. no.
1	Size DN 80, stainless steel, PTFE seal	8.552.80-1✶
2	Size DN 80, stainless steel with PFA coating	8.551.80-1✶
3	Size DN 50, stainless steel, PTFE seal	8.552.50-1✶
4	Size DN 50, stainless steel with PFA coating	8.551.50-1✶

9.7.3 Accessories



① Control unit - 8.300.01-1✶ with ② power pack - 8.907.01-1✶

Power supply:	Ref. no.
Power pack 230/24 V	8.907.01-1✶
4 m/13.12 ft power cable for tanker's cigarette lighter, 24 V	8.904.05-1✶
Heater for control units with power cable and plug for 230 V	8.960.00-1✶

Compressed air supply:	Ref. no.
Pneumatic hose 7.5 m/24.6 ft length with couplings	8.901.04-1✶
Pneumatic hose 15 m/49.2 ft length with couplings	8.901.15-1✶
Pneumatic hose 22.5 m/73.81 ft length with couplings	8.901.22-1✶
Tyre inflation coupling for connection to tanker coupling	8.901.05-1✶
Hose winder with 12 m/39.37 ft of pneumatic hose.	8.920.12-1✶

Additional add-ons:	Ref. no.
Visual/acoustic warning device incl. 4 m/13.12 ft connection cable	8.501.04-1✶
PC read-out set for calling up the stored filling data	8,906.00-1✶
Aluminium case for safe storage	8.501.02-1✶
Trolley for easier transport	8.501.01-1✶

Pneumatic hose - 8.901.04-1✶

Warning device - 8.501.04-1✶

Absorbers
and binding materials

10

Absorbers and binding materials

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10.1.1 Universal absorber – lint-free

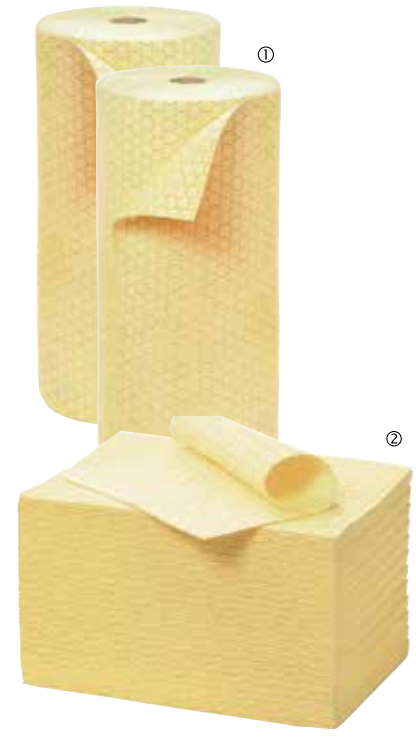
Absorbers ① - 1.50.200 and ② - 1.50.100

The binding materials made of polypropylene microfibres are excellent to quickly absorb a wide array of industrial liquids, e.g. hydrocarbons, cutting oils, coolants, hydraulic oils, solvents and water.

- They absorb up to **9.5 times their own** weight.
- High-quality, nearly **lint-free** quality with spunbond on the surface.
- High absorption capacity and a long life span.
- Extreme resistance with its exclusive honeycomb structure.
- The perforated constructions allow a variety of applications.

Ordering information/dimensions			
Construction		Cloths	Cloth roll
Perforation		longitudinally	longitudinally and transversally every 500 mm (19.69 inch)
L x W/pce.	[mm] [inch]	400 x 500 15.75 x 19.69	40 (m) x 800 131.23 (ft) x 31.5
Packaging unit	PU	Carton (100 cloths)	Carton (1 roll)
Net weight/PU	[kg] [lbs]	6.8 15	10.8 23.81
Max. absorption capacity/PU	[l] [gal]	101 26.68	162 42.8
Ref. no.		11.50.100	11.50.200

10.1.2 Chemical absorber – lint-free



Absorbers ① - 1.51.200 and ② - 1.51.100

The binding materials made of polypropylene microfibres are excellent to quickly absorb a wide array of chemicals, such as acids, lye, alcohol, ketones, solvents and aromatic substances.

- They absorb up to **9.5 times their own** weight.
- High-quality, nearly lint-free quality with spunbond on the surface.
- High absorption capacity.
- Long life span.
- Extreme resistance with its exclusive honeycomb structure.
- The perforated constructions allow a variety of applications.

Ordering information/dimensions			
Construction		Cloths	Cloth roll
Perforation		longitudinally	longitudinally and transversally every 500 mm (19.69 inch)
L x W/pce.	[mm] [inch]	400 x 500 15.75 x 19.69	40 (m) x 800 131 (ft) x 31.5
Packaging unit	PU	Carton (100 cloths)	Carton (1 roll)
Net weight/PU	[kg] [lbs]	6.8 15	10.8 23.81
Max. absorption capacity/PU	[l] [gal]	101 26.68	162 42.8
Ref. no.		11.51.100	11.51.200

Non-woven fabrics made of microfibres/absorber emergency sets

10.1.3 Absorbers – extra suction power

Universal absorber/cloth roll - 11.50.300

Universal absorber/tube - 11.50.400

Chemical absorber - 11.51.300

Oil absorber - 11.52.300

The non-woven binding materials are made of polypropylene microfibres.

Universal absorbers are excellent to quickly absorb a wide array of industrial liquids, e.g. hydrocarbons, cutting oils, coolants, hydraulic oils, solvents and water.

Chemical absorbers are excellent to quickly absorb a wide array of chemicals, such as acids, lye, alcohol, ketones, solvents and aromatic substances.

Oil absorbers are excellent to quickly absorb hydrocarbons, oils and solvents that are leaking.

- Very high absorption capacity and speed with capillary effect, comparable with blotting paper.
- Oil absorber capable of floating even when saturated.

Ordering information/dimensions					
Area of application		Universal	Universal	Chemicals	Oil
Construction		Cloth roll	Tube	Cloth roll	Cloth roll
Perforation		transverse, every 500 mm 19.69 inch	—	transverse, every 500 mm 19.69 inch	transverse, every 500 mm 19.69 inch
Dimensions/ pce.	[mm x m] [inch x ft]	800 x 40 31.5 x 131	Ø 70 x 1.2 2.76 x 3.94	800 x 60 31.5 x 196	800 x 40 31.5 x 131
Packaging unit	PU	Plastic pocket: 1 roll	Plastic pocket: 20 tubes	Plastic pocket: 1 roll	Plastic pocket: 1 roll
Net weight/ PU	[kg] [lbs]	9.6 21.16	8.0 17.64	8.6 18.96	9.6 21.16
Absorption of own weight up to		14.5 times	14.5 times	17 times	14.5 times
Max. absorption capacity per PU	[l] [gal]	180 47.55	80 21.13	173 45.7	180 47.55
Ref. no.		**11.50.300**	**11.50.400**	**11.51.300**	**11.52.300**

10.2.1 Absorber emergency set in transport box with rolls

The mobile transport box can be used with great flexibility and is ideal for maintenance work. It is equipped with the grey universal absorbers - with extra suction power - appropriate to absorb the most diverse liquids in the industrial area, such as hydrocarbons, cutting oils, coolants, hydraulic oils, solvents and water.

- Can be quickly and safety used on site.
- Transport box with rollers for easy transport.
- Lockable trolley made of highly stable PVC.

Emergency set consisting of:

- Absorber cloths:	35 items
- Absorber tubes:	3 items
- Absorber cushions:	2 items
- Wiping cloths:	10 items
- Gloves:	1 pair
- Sacks:	3 items

Ordering information/dimensions		
W x D x H	[mm] [inch]	80 x 43 x 38 3.15 x 1.69 x 1.5
Weight	[kg] [lbs]	9.7 21.38
Capacity	[l] [gal]	75 19.81
Ref. no.		**11.55.000**

10.2.2 Absorber emergency set in transport box

The emergency set is especially appropriate for fast and flexible use. It is equipped with the grey universal absorbers - with extra suction power - appropriate to absorb the most diverse liquids in the industrial area, such as hydrocarbons, cutting oils, coolants, hydraulic oils, solvents and water.

- Small and practical transport box.
- Ideal emergency package to carry along in vehicles.

Emergency set consisting of:

- Absorber cloths:	35 items
- Absorber tubes:	3 items
- Wiping cloths:	10 items
- Gloves:	1 pair
- Sacks:	2 items

Ordering information/dimensions		
W x D x H	[mm]	58 x 39 x 33
	[inch]	2.28 x 1.53 x 1.3
Weight	[kg]	4.4
	[lbs]	97
Capacity	[l]	50
	[gal]	13.21
Ref. no.		11.55.100

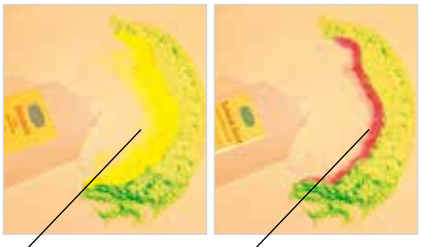
10.3.1 Universal oil and chemicals binders UNI-SAFE PLUS®

Granulate binding materials in lab can ① - 11.90.910, in handle can ② - 11.90.920 and in bucket ③ - 11.90.930

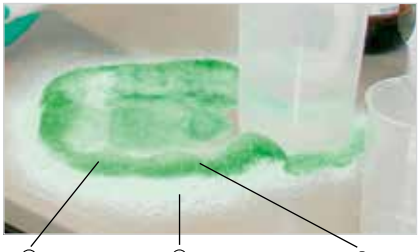
The oil and chemicals binding material made of networked polymers can be used **for all liquids**. It is especially suitable to quickly and safely absorb a wide array of chemicals, such as nitric acid, peroxides, sodium lye or other heavily reacting substances.

- Absorbs up to **75 times its own** weight.
- Economic and simple dosage thanks to graining and huge capacity.
- Disposal costs can be reduced by up to 60 %..
- Does not trigger any dangerous reactions.
- Can also be used in heavy rain, pH neutral.
- Absorbs and granulates hydrocarbons.
- Indicates the binder's saturation by dry deposit on the surface.
- Reduces emissions.
- Tested and approved by MPA NRW no. 22000413605 to use on road surfaces according to oil binder guideline type III R – SRT test.
- Tested and approved by MPA NRW no. 22000470205 – technical work and environmental safety test.
- Tested by Hygiene Institute of Gelsenkirchen (A 0933 D/02/hs).
- Has an indicator function - colour envelope acids (yellow)/ lye (red).

Indicator function



Acids (yellow) Lye (red)



① **Binder saturation:**
dark – saturated, bright – still absorbing
② **Fine granulate:**
economical, easy to measure out, even reaches critical cavities and spaces
③ **Dam formation:**
possible, macerates

Information

Non-toxic, non-allergenic, non-flammable (BZ 3), non-dust explosive ST O (VDI 3673), not statically chargeable, not harmful to health, non-impact sensitive.

Example - use of granulate binding material

Ordering information/dimensions				
Absorber		Lab can	Handle can	Bucket
Filling contents	[kg]	0.75	1.5	5.0
	[lbs]	1.65	3.31	11.02
Ref. no.		11.90.910	11.90.920	11.90.930

Emergency showers

11

Emergency showers

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11.1	Eye washes	433
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11.1.1 Eye washes and body hose showers according to DIN EN 15154-2

Eye wash ① - 9.71.202, ② - 9.71.302 and ③ - 9.71.402

For quickly rinsing the eyes, the face or other parts of the body with water to wash off harmful liquids. Hand-held eye washes according to DIN EN 15154-2 for wall/table mounting incl. impact protection and dust protection cover.

- Simple, user-friendly handling in case of an emergency.
- Casing made of glass fibre reinforced plastic.
- Media-bearing parts made of brass.
- Shower heads of models 9.71.302 and 9.71.402 inclined at an angle of 45°.
- Wall/table mounting bracket included in delivery.
- Hose with stainless steel sheath.
- Including emergency sign (pictogram).
- DIN EN 15154-2 according to BGI/GUV-I 850-0.
- In accordance with drinking-water standards DIN EN 1717 and DIN 1988.
- ANSI Z358.1-2004 compliant.
- DIN-DVGW tested and approved.

One emergency sign (pictogram) per eye wash included.

Technical details:
Required water connection:
½" external thread.
Water flow rates at 1.5 - 5 bar (21.75 - 72.5 psi) flow pressure incl. automatic flow regulation and backflow preventer.

Ordering information/dimensions

		①	②	③
No. of shower heads		1	1	2
Water flow rate	approx. [l/min] [gal/min]	 7 1.85	 7 1.85	 14 3.7
Hose length	[mm] [inch]	1500 59.1	1500 59.1	1500 59.1
Bench penetration ∅	[mm] [inch]	20 0.79	20 0.79	20 0.79
Weight	[kg] [lbs]	1.5 3.3	1.5 3.3	2.0 4.41
Ref. no.		9.71.202	9.71.302	9.71.402

Eye washes

11.1.2 Eye washes for wall/table mounting according to DIN EN 15154-2

①

②

③

④

Eye wash ① - 9.20.085, ② - 9.21.085, ③ - 9.25.085 and ④ - 9.30.085

For quickly rinsing the eyes or the face with water to wash off harmful liquids. Eye washes according to DIN EN 15154-2 for either wall or table mounting, incl. impact protection and dust protection cover.

- Simple, user-friendly handling in case of an emergency.
- Stainless steel ball valve, not self-closing, push plate made of steel, powder-coated in green.
- Media-bearing parts made of brass.
- Model 9.30.085 with collecting basin made of stainless steel, powder-coated in green.
- Shower heads inclined at an angle of 45°.
- Including emergency sign (pictogram).
- DIN EN 15154-2 according to BGI/GUV-I 850-0.
- In accordance with drinking-water standards DIN EN 1717 and DIN 1988.
- ANSI Z358.1-2004 compliant.
- DIN-DVGW tested and approved.

One emergency sign (pictogram) per eye wash included.

Technical details:
Required water connection for models 9.20.085 and 9.21.085:
½" internal thread.
Required water connection for models 9.25.085 und 9.30.085:
¾" external thread.
Water flow rates at 1.5 - 5 bar (21.75 - 72.5 psi) flow pressure incl. automatic flow regulation.

Ordering information/dimensions

		①	②	③	④
No. of shower heads		2	2	2	2
Water flow rate	approx. [l/min] [gal/min]	14 3.7	14 3.7	14 3.7	16 4.23
Mounting		Table mounting	In-wall mounting	Surface wall mounting	Wall mounting
Weight	[kg] [lbs]	1.5 3.31	1.5 3.31	1.5 3.31	1.5 3.31
Ref. no.		9.20.085	9.21.085	9.25.085	9.30.085

11.1.3 Eye emergency stations according to DIN EN 15154-4

①

②

③

④

Eye emergency station ① - 9.31.805, ② - 9.31.845, ③ - 9.32.005 and ④ - 9.32.045

For quickly rinsing the face, especially the eyes, with sodium chloride solution (0.9 %) at small workplaces or in rooms without water supply. Sterile, pH-neutral phosphate buffer solution (4.9 %) to neutralize acids and a large number of alkaline substances.

- Simple, user-friendly handling in case of an emergency.
- All rinsing bottles with ergonomic eye cup and dust lid.
- Models 9.31.845 and 9.32.045 especially suited for workplaces where acids, lye and foreign bodies can get into the eye, with eye emergency plan.
- Including pictogram, mirror and mounting material.
- Dust-proof wall box, especially suited for workplaces where dust and dirt accumulate.
- Wall station with wall mounting bracket.
- Shelf life: 3 years.
- DIN EN 15154-4.

Eye emergency station for wall mounting - 9.32.005

Eye rinsing bottle - sodium chloride solution, 500 ml (0.13 gal) - 9.31.405

Eye rinsing bottle - sodium chloride solution, 200 ml (0.05 gal) - 9.31.510

Ordering information/dimensions

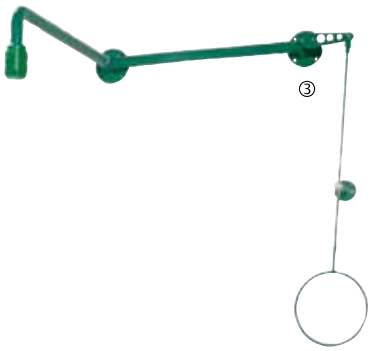
		①	②	③	④
Construction		Wall station	Wall station	Wall box	Wall box
Rinsing bottles:					
- Sodium chloride solution	[500 ml] [0.13 gal]	2	1	2	1
- Phosphate buffer solution	[200 ml] [0.05 gal]	–	1	–	1
Rinsing period:					
- Sodium chloride solution	[approx. min.]	2x 5	5	2x 5	5
- Phosphate buffer solution	[approx. min.]	–	2	–	2
Dimensions:					
- Width	[mm] [inch]	230 9.06	230 9.06	227 8.94	227 8.94
- Depth	[mm] [inch]	80 3.15	80 3.15	110 4.33	110 4.33
- Height	[mm] [inch]	290 11.42	290 11.42	265 10.43	265 10.43
Weight	[kg] [lbs]	1.6 3.53	1.3 2.87	1.6 3.53	1.3 2.87
Ref. no.		**9.31.805**	**9.31.845**	**9.32.005**	**9.32.045**

Accessories - for all models

Rinsing bottles	Sodium chloride solution, 500 ml/0.13 gal	Phosphate buffer solution, 200 ml/0.05 gal
Ref. no.	9.31.405	9.31.510

Body showers

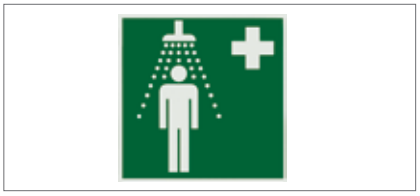
11.2.1 Body showers for wall mounting according to DIN EN 15154-1



Body shower ① - 9.82.085, ② - 9.82.095
③ - 9.84.085 and ④ - 9.84.095

For quickly flooding burning or externally contaminated persons with water to wash off harmful liquids. Body showers according to DIN EN 15154-1 for either wall mounting or wall mounting above a door.

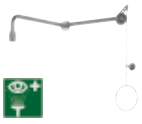
- Simple, user-friendly handling in case of an emergency.
- Stainless steel ball valve, not self-closing.
- Models 9.82.085 and 9.84.085: Piping and shower arm made of brass, powder-coated in green. Pull rod made of steel, powder-coated. High-performance shower head made of chemical-resistant plastic, self-draining.
- Models 9.82.095 and 9.84.095: Piping, shower arm and pull rod made of stainless steel. High-performance shower head made of stainless steel - self-draining.
- Including emergency sign (pictogram).
- DIN EN 15154-1 according to BGI/GUV-I 850-0.
- In accordance with drinking-water standards DIN EN 1717 and DIN 1988.
- ANSI Z358.1-2004 compliant.
- DIN-DVGW tested and approved.



One emergency sign (pictogram) per body shower included.

Technical details:
Required water connection:
¾" external thread.
Water flow rates at
1.5 – 3 bar (21.75 - 43.5 psi)
flow pressure incl. automatic flow regulation.

Ordering information/dimensions

		①	②	③	 ④
Water flow rate	approx. [l/min.] [gal/min.]	50 13.21	50 13.21	50 13.21	50 13.21
Mounting		Surface wall mounting	Surface wall mounting	Surface wall mounting above door	Surface wall mounting above door
Weight	[kg] [lbs]	2.5 5.51	2.5 5.51	5.0 11.02	5.0 11.02
Ref. no.		9.82.085	9.82.095	9.84.085	9.84.095

11.3.1 Combination showers according to DIN EN 15154-1 and 15154-2

Combination shower ④ - 9.83.795 and ① - 9.83.208

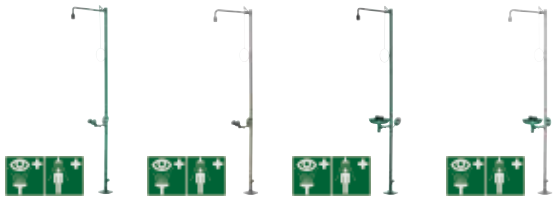
Whole-body shower stand with eye wash/face rinse for quickly flooding burning or externally contaminated persons or for rinsing the face, especially the eyes, with water to wash off harmful liquids. Combination showers according to DIN EN 15154-1 and DIN EN 15154-2 optionally with collecting basin for the eye wash, incl. impact protection and dust protection cover.

- Simple, user-friendly handling in case of an emergency.
- Models 9.83.208 and 9.83.785:
  Body shower: Stand pipe made of stainless steel, powder-coated in green, shower arm made of brass, powder-coated in green. High-performance shower head made of chemical-resistant plastic, self-draining.
  Eye wash: Push plate made of steel, powder-coated in green. Media-bearing parts made of brass.
- Models 9.83.209 and 9.83.795:
  Body shower: Piping, shower arm and pull rod made of stainless steel. High-performance shower head made of stainless steel - self-draining.
  Eye wash: Push plate made of steel, powder-coated in green. Media-bearing parts made of brass.
- Stainless steel ball valve, not self-closing.
- Collecting basin made of stainless steel, powder-coated in green.
- Including emergency sign (pictogram).
- DIN EN 15154-1 and DIN EN 15154-2 according to BGI/GUV-I 850-0.
- In accordance with drinking-water standards DIN EN 1717 and DIN 1988.
- ANSI Z358.1-2004 compliant.
- DIN-DVGW tested and approved.

One emergency sign (pictogram) per combination shower included.

Technical details:
Required water connection:
1 ¼" external thread.
Water flow rates
- Body shower at 1,5 - 3 bar (21.75 - 43.5 psi) flow pressure,
- Eye wash at 1.5 - 5 bar (21.75 - 72.5 psi) flow pressure incl. automatic flow regulation.

Ordering information/dimensions



		①	②	③	④
Water flow rate:					
- Eye wash	approx. [l/min.] [gal/min.]	14 3.7	14 3.7	16 4.23	16 4.23
- Body shower	approx. [l/min.] [gal/min.]	50 13.21	50 13.21	50 13.21	50 13.21
Mounting		Floor mounting	Floor mounting	Floor mounting	Floor mounting
Collecting basin	incl.	–	–	•	•
Weight	[kg] [lbs]	11.5 25.35	11.5 25.35	13.0 28.67	13.0 28.67
Ref. no.		9.83.208	9.83.209	9.83.785	9.83.795

Safety ashtrays and paper baskets

12

Safety ashtrays and paper baskets

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12.1.1 Collection containers made of HDPE for cigarette butts

FM

Collection container for cigarette butts in several colours.

For safe collection and disposal of cigarette butts. Smouldering cigarette butts are automatically extinguished. Containers made of HDPE with flame-retardant addition and UV protection. Insert made of galvanised steel.

- Suitable for outdoor use, ideal for keeping properties and open spaces clean.
- Covered opening protects against rain and prevents other waste materials from being thrown in.
- Opening is large enough for the easy throwing-in of cigarette butts.
- The patented double inner edge guides the tar condensate directly into the inner container.
- Innovative design reduces the oxygen supply, which quickly and safely extinguishes still-smouldering cigarette butts and prevents fires.
- Extremely sturdy polyethylene with additional fire protection that does not rust, dent, tear or chip off.
- High stability thanks to large standing surface.
- Easy-to-open and close latch lock prevents the wastes from spilling during disposal.
- Container consists of 3 easy-to-assemble components.
- No spillage of the waste materials and undesired oozing of the contents with the easy-to-open and close bolted lid.
- Inner container made of galvanised steel, capacity approx. 15 litres (3.96 gal), can be easily removed for cleaning.

Perforated stainless steel sheet in the opening simplifies the extinguishing of cigarettes.

Convenient emptying, with easy removal of the insert.

Padlock device for protection against vandalism.

Additional safety against theft with fastening eyelets on both sides.

Optional fire-proof waste pocket with practical sealing band, made of specially coated aluminium/plastic film - 5.268.27

Ordering information/dimensions

Colour		Grey	Beige	Black	Terracotta	Green	Grey	Light beige	Black
Content	[l]	15	15	15	15	15	15	15	15
	[gal]	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96
Height	[mm]	1000	1000	1000	1000	1000	965	965	965
	[inch]	39.37	39.37	39.37	39.37	39.37	38	38	38
Container Ø	[mm]	420	420	420	420	420	305	305	305
	[inch]	16.53	16.53	16.53	16.53	16.53	12	12	12
Opening Ø	[mm]	3,8	3,8	3,8	3,8	3,8			
	[inch]	0.15	0.15	0.15	0.15	0.15	–	–	–
Ref. no.		5.268.00	5.268.01	5.268.02	5.268.03	5.268.04	5.268.50	5.268.52	5.268.53

Accessories

Waste pocket / PU 10 pcs	
Ref. no.	5.268.27

Safety ashtrays and cigarette butt collectors

12.1.2 Collection containers for cigarette butts

Collection container ① - 5.54.115, ② - 5.54.100 with base and ③ - 5.54.120 with wall bracket

For safe collection and disposal of cigarette butts. Smouldering cigarette butts are automatically extinguished. Available as a powder-coated aluminium and steel construction or stainless steel construction.

- Suitable for outdoor use, ideal for keeping properties and open spaces clean.
- Stable construction with attractive modern design.
- Covered opening protects against rain and prevents other waste materials from being thrown in.
- Integrated safety sieve prevents embers and ashes from falling out.
- Embedded cylinder lock for protection against vandalism and theft.
- **Model 5.54.120 and 5.54.125** – with wall bracket made of steel for an easy wall assembly.

Collection container easy to empty

Ordering information/dimensions

Colour		Black	Silver	–	Silver	–
Material		Aluminium/ steel	Aluminium/ steel	Stainless steel	Aluminium/ steel	Stainless steel
Placement		Adjustable foot	Adjustable foot	Adjustable foot	Wall bracket	Wall bracket
Content	[l]	3	3	3	1.5	1.5
	[gal]	0.79	0.79	0.79	0.4	0.4
Height	[mm]	1041	1041	1041	590	590
	[inch]	41	41	41	23.23	23.23
∅	[mm]	356	356	356	356	356
	[inch]	14.02	14.02	14.02	14.02	14.02
Ref. no.		**5.54.100**	**5.54.101**	**5.54.115**	**5.54.120**	**5.54.125**

12.1.3 Safety ashtrays

Safety ashtray ① - 5.92.026 with rain protection roof Ⓐ and floor stand Ⓑ, ② - 5.92.025 with wall bracket

For safe collection and disposal of cigarette butts. Smouldering cigarette butts are quickly and automatically extinguished. Ashtrays made of powder-coated sheet steel or stainless steel are available.

- Funnel-shaped lid opening prevents oxygen supply in case of fire.
- All ashtrays feature a wall bracket.
- Easy to empty.
- Optional standing foot, painted black and rain protection roof made of stainless steel available.

Safety ashtray with wall bracket - 5.92.026

Version - sheet steel:
Container made of sheet steel, powder-coated. Chute and wall bracket of galvanised sheet steel, black.

Version - stainless steel:
Container, chute and wall bracket made of stainless steel.

Ordering information/dimensions				**Ref. no.**		
Colour						
				New silver	Red	–
Material				Sheet steel	Sheet steel	Stainless steel
Dimensions	Content [l]/[gal]	∅ [mm]/[inch]	Height [mm]/[inch]			
	1/0.26	110/4.33	120/4.72	–	–	**5.92.016**
	2,4/0.63	150/5.9	145/5.71	**5.92.024**	**5.92.025**	**5.92.026**
Accessories						
Ⓐ Rain protection roof		190/7.5	255/10	–	–	5.94.020
Ⓑ Floor stand		245/9.6	825/33	5.94.010	5.94.010	5.94.010

12.1.4 Waste bin / ashtray combination

Wastes / ashtray combination 5.43.200

For safe collection and disposal of cigarette butts. Collection container for waste materials, paper and similar materials in combination with ashtray function.
Container made of coated sheet steel. Wall-mounted or free-standing models are available.

- Suitable for outdoor use, ideal for keeping properties and open spaces clean.
- Stable construction with attractive modern design.
- Covered opening protects against rain and prevents other waste materials from being thrown in.
- Integrated safety sieve prevents embers and ashes from falling out.
- **Model 5.43.100** – with wall bracket for easy wall assembly.

Safety ashtray - 5.43.100 with wall bracket

Ordering information/dimensions

Material		Sheet steel	Sheet steel
Placement		Stand model	Wall bracket
Colour		Dark grey	Dark grey
Contents (ashtray/container)	[l] [gal]	2 | 8 0.53 | 2.11	1,5 | – 0.4 | –
Height	[mm] [inch]	1041 41	255 10.04
Width	[mm] [inch]	403 15.9	152 6
Depth	[mm] [inch]	262 10.31	64 2.52
Ref. no.		5.43.200	5.43.100

12.1.5 Safety table ashtrays made of stainless steel

Safety table ashtray ① - 5.93.010 and ② - 5.93.020

Safety table ashtray for automatically self-extinguishing smouldering cigarette butts. Ashtrays made of stainless steel.

- Extra wide side edge to prevent leftover cigarettes from falling out.
- **Dishwasher-safe.**
- Simple to empty and clean with a removable head piece.
- Suitable for table leftovers, ideal for gastronomy.

Safety ashtray - 5.93.020

Ordering information/dimensions

Content	[l] [gal]	0.2 0.05	1.0 0.26
Height	[mm] [inch]	40 1.57	70 2.76
∅	[mm] [inch]	90 3.54	150 5.9
Material		Stainless steel	Stainless steel
Ref. no.		5.93.010	5.93.020

Self-extinguishing paper baskets

12.2.1 Self-extinguishing paper baskets made of sheet steel, powder-coated

Containers and extinguishing head made of powder-coated sheet steel to collect paper, etc.

- Extinguishing head construction prevents oxygen supply and the spread of fires in case of fire.
- No risk of injuries thanks to rounded corners.
- Comfortable to empty with poly bag (optional).
- Safety product, GS mark for model with 20 litre contents.

Function

Fire arises - rising combustion gases are redirected by the extinguishing head and form a firmly pressed gas cushion. The oxygen supply is interrupted, fire is starved of oxygen.

Colour table

Grey white (RAL 9002)	Light grey (RAL 7035)	Fire red (RAL 3000)
Cobalt blue (RAL 5013)	Graphite black (RAL 9011)	Silver (special colour)
Celestial blue (special colour)	Apple green (special colour)	Orange (special colour)

Paper baskets ① - 5.31.591 in cobalt blue, ② - 5.31.350 in fire red, ③ - 5.32.400 in orange, ④ - 5.32.200 in apple green, ⑤ - 5.32.100 in celestial blue, ⑤ - 5.31.020 in light grey, ⑦ - 5.32.300 in silver

Ordering information/dimensions					**Ref. no.**					
Colour:										
- Container					Grey white	Light grey	Fire red	Cobalt blue	Graphite black	Silver
- Extinguishing head					White	Grey	Black	Black	Black	Silver
Material					Sheet steel					
Dimensions	Contents Ø [l] [gal]	[mm] [inch]	Height [mm] [inch]	Filling opening Ø [mm] [inch]						
	20 5.28	260 10.24	426 16.77	110 4.33	–	5.31.020	5.31.320	5.31.520	5.31.120	–
	50 13.2	335 13.19	625 24.6	110 4.33	5.31.250	5.31.050	5.31.350	5.31.550	5.31.150	5.31.450
	110 20.1	450 17.71	710 27.95	175 6.89	5.31.291	5.31.091	5.31.391	5.31.591	5.31.191	5.31.491
Colour:										
- Container					Celestial blue	Apple green	Orange	Silver		
- Extinguishing head					Celestial blue	Apple green	Orange	Silver		
Dimensions	50 13.2	310 12.2	590 23.23	110 4.33	5.32.100	5.32.200	5.32.400	5.32.300		
Accessories										
Poly bag	20 5.28	–	–	–	5.98.023					
Poly bag	50 13.2	–	–	–	5.98.050					
Poly bag	110 20.1	–	–	–	5.98.105					

12.2.2 Self-extinguishing paper baskets made of sheet steel, powder-coated

Paper basket - 5.55.100 black/silver

Containers and extinguishing head made of powder-coated sheet steel to collect paper, etc.

- Extinguishing head construction prevents oxygen supply and the spread of fires in case of fire.
- No risk of injuries thanks to rounded corners.
- Comfortable to empty with poly bag (optional).

Ordering information/dimensions	Contents [l] [gal]	Ø [mm] [inch]	Height [mm] [inch]	Ref. no.
Placement	–	–	–	Safety waste container
Colour	–	–	–	Black/silver
Dimensions	50 13.2	310 12.2	530 20.9	5.55.100

Accessories				
Poly bag	50 13.2	–	–	5.98.050

12.2.3 Self-extinguishing paper baskets made of sheet steel, powder-coated

Paper basket - 5.37.216 including triangular key

Containers and extinguishing head made of powder-coated sheet steel to collect paper, etc.

- Extinguishing head construction prevents oxygen supply and the spread of fires in case of fire.
- Construction with wall bracket and tilting wall bracket locked with triangular key prevents unauthorised discharge.
- Container in new silver and extinguishing head in black.
- Container also available for ground set-up, no locking.

Ordering information/dimensions	Contents [l] [gal]	Ø [mm] [inch]	Height [mm] [inch]	Ref. no.		
Placement	–	–	–	Wall bracket	Tilting wall bracket	Ground set-up
Triangular locking	–	–	–	•	•	–
Dimensions	16 4.23	245 9.65	340 13.39	5.37.116	5.37.216	5.37.316

Accessories				
Poly bag	–	–	–	5.98.023

Comfort Service Agreement

We thank you for the trust you have shown in purchasing DÜPERTHAL safety storage cabinets.
Please note that according to BetrSichV, TRGS 526, TRGS 510, ArbStättV and the maintenance interval indicated by the manufacturer, all safety-relevant features have to be checked by a qualified person once a in accordance with TRBS 1203. In order to meet these requirements and to guarantee the safe function of your safety storage cabinets, we recommend that the cabinets should be checked once a year by our service technicians.

Your benefits: DÜPERTHAL Comfort* Service Agreement

- 5-year manufacturer's guarantee.**
- First inspection is free of charge.

Your economic advantage

- 5-year manufacturer's guarantee.**
- First inspection is free of charge.
- Cost saving with regard to repairs, time expenditure is not billed separately (included in lump sum).
- Travel expenses are included in the lump sum.
- Guarantee systematic monitoring of your safety equipment for audits. We remind you about upcoming deadlines.

Your technical advantage

- Your cabinet's protective function is constantly maintained.
- Support from trained and certified service technicians.
- Inspection of safety storage cabinets and exhaust air filter systems.

Preventive maintenance.
Sustainable maintenance.
Our service sets new standards.

Your contact person - Service
Phone: +49 6188 9139-166
E-mail: service@dueperthal.com

DÜPERTHAL is certified acc. to DIN EN ISO 9001

DÜPERTHAL Comfort* service agreement

Customer:	Service agreement no.:
(please specify exact address and phone no.)	

between the recipient as the
customer and the
DÜPERTHAL SICHERHEITSTECHNIK GmbH & Co. KG
Frankenstrasse 3
63791 Karlstein, Germany

In Germany, the annual inspection of safety storage cabinets including proof of the test is legally required by the BetrSichV, TRGS 526, TRGS 510, and the ArbStättV legislation. Employers are responsible for implementation.

The DÜPERTHAL Comfort* Service Agreement includes the following services:

- Annual safety inspection and maintenance
- Test certificate and test label
- Time expenditure for repairs (spare parts are billed separately)
- Travel expenses
- 5-year manufacturer's guarantee**

Number of safety storage cabinets: (please enter quantity)		Lump sum per safety storage cabinet/year:
1		
2-3		
4 or more		

Number of exhaust air filter systems: (please enter quantity)		Lump sum per exhaust air filter system/year:
1		
2-3		
4 or more		

The inspection and maintenance covers all safety-relevant parts, such as fire protection and air seals, fusible links, ventilation openings, door closers and locking systems as well as insulation. Furthermore, all mechanical components are checked to ensure that they are working properly and an exhaust air measurement is taken.
Deviations from this agreement are only valid if they have been agreed on in writing by both parties to the contract. Otherwise the service terms and conditions (supplement) must be complied with.

Karlstein,

Date

Place / Date

DÜPERTHAL SICHERHEITSTECHNIK GmbH & Co. KG

CLIENT

Date / Signature / Company stamp

Date / Signature / Company stamp

* Only valid for cabinets not older than 2 years (from delivery date). ** Manufacturer's guarantee does not apply to cabinets of other manufacturers.

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Delivery checklist for safety storage cabinets

Simply complete and send back by e-mail to info@dueperthal.com

Dear Customer,
This checklist is part of the order. We would like to deliver and align your safety storage cabinets at the place of use. To ensure a timely and smooth delivery at the preferred installation location / place of use without complications, we need you to fill in the information below. If information is incomplete or received too late, substantial additional costs may arise, which we have to pass on to you. Please take notice of the delivery date mentioned in the order confirmation.

1. Order data

Customer
Customer no.:
Company:
Post code/city:
Name:
Phone:
Department:
PO no:
Order no:

Delivery address

Company:
Contact person on site:
Phone:
Street:
Post code/city:
Cabinet model:
Dimensions: (W x D x H in mm)
Weight: (in kg)

2. Installation location and delivery date

2.1	When will the rooms/ transport routes be ready for use? (This includes all lifts, staircases, corridors on the way)	
2.2	Delivery possible from	to
2.3	Installation location (building, room):	
2.4	Person to be notified by phone:	
2.5	Phone:	

3. Access route/transport route outside the building

3.1	Is access possible with a 26 t truck, min. dimensions 3x12x4 m (W x L x H)?	
	☐ Yes, road width approx. W _____ x H _____ m	☐ no
	☐ Roofing – max. clearance height only _____ m	
	☐ Bridge – max. clearance height _____ m	
	☐ Blocked, because _____	
	☐ Route not suitable, because _____	
3.2	Distance to the building?	m
3.3	Road surface?	
3.4	Pedestrian zone ☐ yes ☐ no. Delivery time from	to
3.5	At ground level	☐ yes ☐ no
3.5	Steps into the building ☐ yes, steps	☐ no
3.6	Loading ramp available	☐ yes ☐ no
3.7	Can the truck bridge the steps by means of its rear lifting platform?	☐ yes ☐ no
3.8	Parking facilities	☐ yes ☐ no
3.9	Forklift truck & driver available	☐ yes ☐ no
3.10	Best access route by road?	

4. Transport route inside the building

4.1	Is the load bearing capacity of the transport route sufficient for the weight listed above?	☐ yes ☐ no
4.2	Installation location on ground floor	☐ yes ☐ no
4.3	Installation location in basement/on upper floor	☐ yes, ___ floor

5. Lift

5.1	Lift available?	☐ yes ☐ no
5.2	Lift usable?	☐ yes ☐ no
5.3	Load bearing capacity in kg	
5.4	Usable inner carcass (W x D x H)	
5.5	Door clearance dimensions (W x H)	

6. Stairs

6.1 Transport by stairs?

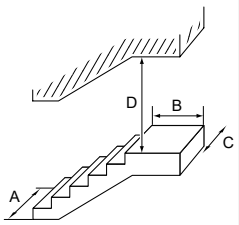
☐ yes, _____ floor ☐ no

Note: In case of transport to buildings without a service lift and delivery above ground floor, any additional costs arising for additional personnel, equipment, load crane, etc. will be borne by the customer and will be billed separately at cost.

6.2 What kind of stairs are there on site? Please mark with a cross!

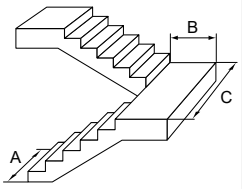
☐ **Version 1**

A = Stair width = _____ cm
B = Landing depth = _____ cm
C = Landing width = _____ cm
D = Lintel height = _____ cm
No. of steps = _____
Step depth = _____ cm
Step height = _____ cm



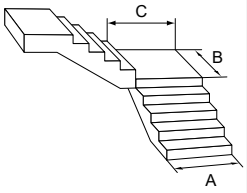
☐ **Version 2**

A = Stair width = _____ cm
B = Landing depth = _____ cm
C = Landing width = _____ cm
No. of steps = _____
Step depth = _____ cm
Step height = _____ cm



☐ **Version 3**

A = Stair width = _____ cm
B = Landing depth = _____ cm
C = Landing width = _____ cm
No. of steps = _____
Step depth = _____ cm
Step height = _____ cm



When giving the dimensions, please consider all obstructions like banisters, radiators or similar objects!

6.3 Do all stairs along the transport route correspond to the version marked above?

☐ yes ☐ no. Differences:

6.4 Other stairs:

Description:

Sketch

Note: Delivery via a spiral staircase is only conditionally possible; please arrange with us a transport route inspection by our carrier in good time!

6.6 Number of stairs in total?

6.7 Type of stairs (e.g. concrete, wood, steel, etc.)?

To the building _____

Inside the building _____

Note: Rubber edges on steps may be damaged; we cannot accept liability for this.

6.8 Protruding edges ☐ yes cm overhang ☐ no

6.9 Can each individual step be loaded with the cabinet's weight? ☐ yes ☐ no

7. Doors

7.1 How many doors are there along the transport route?

7.2

Door dimensions	Clear height [cm]	Clear width [cm]	Space available behind [m]
Door 1			
Door 2			
Door 3			
Door 4			
Door 5			

8. Requirements for the installation location/ceiling load

Please take into account the allowable ceiling/floor load at the installation location for all safety storage cabinets. In particular, the SUPREME plus XL and XXL safety cabinets for pressurised gas cylinders may not be installed without consulting a structural engineer first if the ceiling load is less than 600 kg/m².

8.1 The surface must be level and flat and be able to bear the weight of the safety cabinet when fully loaded. Is the load bearing capacity of the installation location sufficient for the weight listed above?
☐ yes ☐ no

8.2 Is the floor at the installation location free of cables and underfloor heating?
☐ yes ☐ no

Note: Furthermore, the installation location must ensure that the safety storage cabinet

- cannot be damaged by vehicles.
- is not exposed to any direct or indirect heat source.
- is protected against moisture.
- is not exposed to an operating temperature below - 5 °C or above + 45 °C.

The lump sum price quoted for transport is subject to the condition that the installation location (place of use) is freely accessible and it is possible to complete the transport on site. The customer assures that they are aware of the dimensions of the safety storage cabinets to be delivered and that their information regarding the conditions on site at the place of delivery is completely accurate. Any additional costs will be borne by the customer. These may arise from differences between the information given above and the actual situation on site and consequent further action necessary to be taken, such as exceeding the delivery time and/or interventions in the building fabric (widening of door openings, dismantling and reassembly of banisters, etc.) or the installation of a crane to bring the safety storage cabinet to the place requested by the customer. If the transport company refuses transport for reasons of risk and the customer nevertheless insists on installation, all of the customer's rights of recourse are cancelled should the mentioned risks materialise, unless a case of deliberate intent or gross negligence exists.

Date / Signature / Company stamp

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Intelligent technology – Great service

There is more to safety than simply buying a safety storage cabinet. This is why we offer you our certified knowledge, comprehensive service and expertise – supporting you before, during and especially after your decision to buy a DÜPERTHAL safety storage cabinet. For a reassuring feeling of having done everything within your power.

Individual advice.
Intelligent solutions.
Safety requires experts.

Your contact person – for Germany
Phone: +49 6188 9139-0
E-mail: info@dueperthal.com

Your contact person – for all other countries
Phone: +49 6188 9139-150
E-mail: info@dueperthal.com

Preventive inspections.
Sustainable maintenance.
Our service sets new standards.

Your contact person – Technical Service
Phone: +49 6188 9139-166
E-mail: service@dueperthal.com

Safety means responsibility.

DÜPERTHAL is one of the leading manufacturers of safety storage cabinets. There are good reasons for choosing DÜPERTHAL safety technology. Find out more about us and our entire product range on **www.dueperthal.com**.

We look forward to your call!

Mondays to Thursdays from 8.00 am to 5.00 pm
Fridays from 8.00 am to 4.00 pm

DÜPERTHAL Sicherheitstechnik GmbH & Co. KG
Frankenstrasse 3 | 63791 Karlstein | Germany

Commonly used measurements

[rounded]

Volume / Liquid measure equivalents

Containers & Drum Sizes

[ounce]	4	8	16	32
[litre]	**0.12**	**0.24**	**0.5**	**1**

[pint]	1
	0.5

[quart]	1	2
	1	**2**

[gallon]	1	1.32	1 ½	2
	4	**5**	**6**	**7.5**

[gallon]	2 ½	2.64	3	3 ½	4	5	6	6.6	8	10	12	15.9	30	55
[litre]	**9.5**	**10**	**11**	**13**	**15**	**19**	**23**	**25**	**30**	**38**	**45**	**60**	**110**	**200**

[inch]	¼	⅜	½	¾	1 ½	2
[mm]	**6**	**10**	**13**	**19**	**38**	**51**

Sheet Steel Sizes

[gauge steel]	24	18	16	14
[mm]	**0.5**	**1**	**1.5**	**1.9**

Weight Equivalents

[pounds]	60	132	165	350	600	1000	1500
[kg]	**27**	**60**	**75**	**159**	**272**	**454**	**680**

Pressure and Temperature

[psig]	3	5
[bar]	**0.2**	**0.35**

[Fahrenheit]	34°	50°	59°	68°	122°	158°	165°	325°	392°
[Celcius]	**1°**	**10°**	**15°**	**20°**	**50°**	**70°**	**74°**	**163°**	**200°**

Conversion Chart

Fahrenheit to Celcius:
(°F - 32) x 0.5555 = °C

Inches to Millimeters:
Multiply by 25.4

Inches to Centimeters:
Multiply by 2.54

Feet to Meters:
Multiply by 0.3048

Feet to Centimeters:
Multiply by 30.48

Feet to Millimeters:
Multiply by 304.8

Ounces to Grams:
Multiply by 28.35

Pounds to Kilograms:
Multiply by 0.4536

Gallons to Litres:
Multiply by 3.785

DÜPERTHAL

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