



HPLC service station

Safety storage cabinets in modern design by **DÜPERTHAL**



Type 90

For active collection of
flammable HPLC wastes



Welcome to DÜPERTHAL, Welcome to the Original!

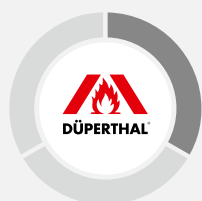
As a leading German quality and technology enterprise, we set the standards when it comes to designing system solutions for process-optimised storage of chemicals and hazardous materials. All of our products and solutions are tailored specifically to meet your requirements. Aside from maximum safety,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



Safeguarding your values –

Since 1973, and into the future

For more than forty years, we have been setting standards in our industry. As our customer, you benefit from our technological and commercial know-how: expertise that has been demonstrated in numerous reference projects for renowned international organisations. We constantly raise the bar, continuing to enhance our safety solutions so that we can help safeguard your values, also in the future.



Delivering the perfect system solution –

Customised designs, if needed, TÜV-certified prior to installation.

In addition to standard products of exceptional quality, we are the only company on the market to also offer customised, TÜV-certified system solutions that do not require acceptance on delivery. From consultation to components, installation and routine maintenance – we always strive to offer the best possible added value from the perspective of technical safety and operational management.



Helping you stay one step ahead –

With service and personal communication

By choosing a DÜPERTHAL solution, you are also gaining a strong, proactive partner. Our aim is to always stay one step ahead. All our products and solutions exceed the requirements laid down by certification programmes. The same applies to our work with you. We openly discuss challenges and propose improvements, helping you to always identify the ideal solution.



The HPLC service station from DÜPERTHAL is the professional solution for active storage. It permits the storage of flammable liquids in unsealed containers and allows filling and decanting of containers in or at the safety storage cabinet in compliance with all applicable regulations.

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Solved internally, confirmed externally and independently

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



Occupational safety and health

OSHA / EU-OSHA

Protecting employees and the environment is the highest priority when handling hazardous substances. Therefore, DÜPERTHAL HPLC service station guarantees compliance with the requirements of OSHA and EU-OSHA.

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 testing according to DIN EN 14727 (laboratory furniture standard).
- » Type 90 classification in accordance with DIN EN 14470-1.
- » High Quality mark of approval for upper-level style, user-friendliness and increased lifetime.
- » GS/CE mark.



DÜPERTHAL – constant reassurance

For the duration of our partnership, you will benefit from DÜPERTHAL's unique service: from project planning and technical product advice to delivery of the product itself, you can always depend on us.



Always at your service

Specialist carrier with checklist

Safety starts with the delivery of the product. Our specialist carrier works according to a detailed checklist and therefore ensures that our products are professionally installed in their final place of use.

Service agreement – the clever option

With a service agreement, we offer you the full service including maintenance and repair of your safety storage cabinets. Additionally, we will extend the manufacturer's guarantee to cover the contract period of the service agreement. The first inspection within the scope of a service agreement is free of charge.



„Through regular maintenance within the scope of a service agreement, we guarantee the safety of your DÜPERTHAL safety storage cabinets for many years.“

Tommy Fittkau, Manager Technical Service, Quality Management

System solutions, tailored to your requirements

DÜPERTHAL offers system solutions for process-optimised storage of chemicals and hazardous substances in scientific research, development and production. Our goal is to accommodate your individual requirements in customised solutions. This is why you can expect not only remarkable certified products, but also outstanding service. Our team will help you to improve your work processes and to integrate our products in the best possible way so as to considerably enhance your safety.



Varied product range

With all our solutions, you have a choice between the standard product on the market and highly customised packages with a variety of fitted features. Professional advice and comprehensive service are always guaranteed.

Active and passive storage

There are sometimes widely differing technical and administrative requirements for active and passive storage. It is best if you determine how substances will be stored at your workplace or laboratory during the planning of installations. The comparison below shows several indications for the type of storage that can or should be used in your particular case.



Passive storage

- » Liquids or solids are stored in sealed containers.
- » No filling or decanting takes place in or at the cabinet.
- » Your safety storage cabinet serves only as a storage facility and serves no other purpose in your working procedures.

Active storage

- » Flammable liquids are stored in open, unsealed containers.
- » Containers are filled or decanted in or at the safety storage cabinet.
- » Your safety storage cabinet is actively in your working procedures.
It is both a storage facility and a workplace



Safety planned in every detail – precisely matched to the needs of your processes

As soon as you begin with active storage, you must take the requirements of TRGS 509 (formerly TRbF 30), BGR 120, TRBS 2153 and DIN EN 60079-10 into account in addition to those of TRGS 526 and TRGS 510 Appendix 3. The HPLC service station guarantees you conformity and its construction offers a firm foundation for efficient workflows. Filling level monitoring is a standard feature and numerous other features and fittings make the HPLC service station particularly practical and versatile.

For active collection of flammabel HPLC waste

The HPLC service station – Type 90 from DÜPERTHAL is specially designed and constructed for the collection of wastes from high performance liquid chromatography. For a period of up to two weeks, the HPLC service station collects all volatile and flammable substances for safe storage at a flow rate of 1 ml/min. This enables flexible workflows and a more efficient design of the in-house value creation chain. This efficiently leads to the release of resources that may be used for active and target-oriented exploitation in research.



Technology for additional safety

Diverse technical devices ensure sustained functionality and safety in case of fire. In this way, all safety-relevant components are not exposed to daily dynamic use and are therefore free from attrition and mechanical wear. In an emergency, a thermocouple initiates the closing of the doors automatically. A well thought-out closure control system ensures blockage-free door closing, even if the pull-out tray is extended.

Fire resistance type 90

Fire-proof and explosion-proof safety storage cabinets Type 90 by DÜPERTHAL offer a reliable fire protection of 90 minutes. In case of an emergency, this protection provides enough time to evacuate the building and to extinguish the fire safely and thoroughly.



90-minute fire resistance

HPLC service station consisting of:

- » DISPOSAL UTS ergo line® S.
- » Service rack.

Construction:

- » Wing door and outer carcass in conductive powder-coated sheet steel.
- » Service rack and inner carcass made of high-quality decor panels.
- » PC shelf made of powder-coated sheet steel.
- » Base in "ToeKick" version.

Fittings

- » Pull-out tray in conductive powder-coated sheet steel.
- » 7 electrical sockets at the rear of the cabinet.

Colour

- » Wing door optionally in gentian blue RAL 5010 or light grey RAL 7035.
- » Complete carcass in light grey RAL 7035.
- » Base in slate grey RAL 7015.

Safety and functionality



The HPLC service station makes your work easier and safer with a range of versatile additional functions specially designed for the storage of flammable wastes from high performance liquid chromatography.

Focus on functionality

- 1 Particularly easy-moving push-to-open wing doors can be opened by light pressure on the front.
- 2 Automatically extending pull-out trays ensure maximum handling convenience. This allows the conductive 10-litre canisters to be removed quickly and safely with both hands. In case of fire, a thermocouple automatically closes the doors without blocking.
- 3 Integrated as a standard feature, the MPS 3 level monitor with exhaust air monitoring unit and air stream monitor warns of overfilling and plays a proactive role in ensuring occupational safety and environmental protection.
- 4 The HPLC service station extracts potentially occurring vapours at their precise point of origin. This promotes a healthy working environment. The stopcock is drip-free to prevent contamination.
- 5 The HPLC service station is also available with a roller set as a mobile version. This allows the HPLC service station to be at hand whenever and wherever its use is required.

You can choose the ideal solution for your laboratory from our wide range of additional options. Create a customised working environment precisely tailored to your specific needs and workflows.

Further features

- 6** The base in its ToeKick version is the solution to ergonomic work. Users can stand conveniently at the HPLC service station and use the worktop. This spares their backs and avoids them hitting their feet.
- 7** The bench penetrations are prepared for connecting a safety waste cap GL 45 (m) for media disposal and two penetrations Ø 56 mm for power cables.
- 8** Trolley in conductive construction, including collection tray, perforated sheet steel insert and a holder for protective goggles and gloves – for the safe transport of 10 and 20-litre PE canisters.
- 9** Freely-positionable monitor arm set, optionally available with a retractable holder set for a keyboard and mouse pad.
- 10** Canister switching with electro-pneumatic fixture for higher filling levels in the region of 20 litres.





HPLC service station – Type 90

The HPLC service station is your flexible solution for coping with waste disposal issues in high performance liquid chromatography.



HPLC service station

For process reliability


Using the HPLC service station allows you to fulfil 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.

Ordering information

Tested safety at a very high level including:



HPLC service station S – Width 900 mm



Details

1 DISPOSAL UTS ergo line S with 2 conductive PE canisters à 10 litres, 1 stopcock, 1 earthing cable with crocodile clip, ToeKick base 85 mm, 1 MPS 3 exhaust air monitor with level monitor, 1 PC shelf, 7 electrical sockets, 1 HPLC bench penetration and 2 cable penetrations

Colour	Ref. no.	
	stationary	mobile
Carcass light grey, door gentian blue	300-070979-03	300-070979-06

Dimensions [in mm]		
	Outer	Inner
Width	900	503
Depth	750	463
Height	745	480

Max. storage capacity/standing space		
Quantity	Type of container	Size
2	Canister, PE*	10 liter

Weight [in kg]	170
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*conductive

Accessories

Varied and flexible: Our wide variety of accessories can be used to adapt the HPLC service station cabinets perfectly to your laboratory space, creating an efficient and safe working environment.



Shelf for small parts.



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



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



Canister changeover
via an electropneumatic device, for a higher fill capacity of 20 litres.



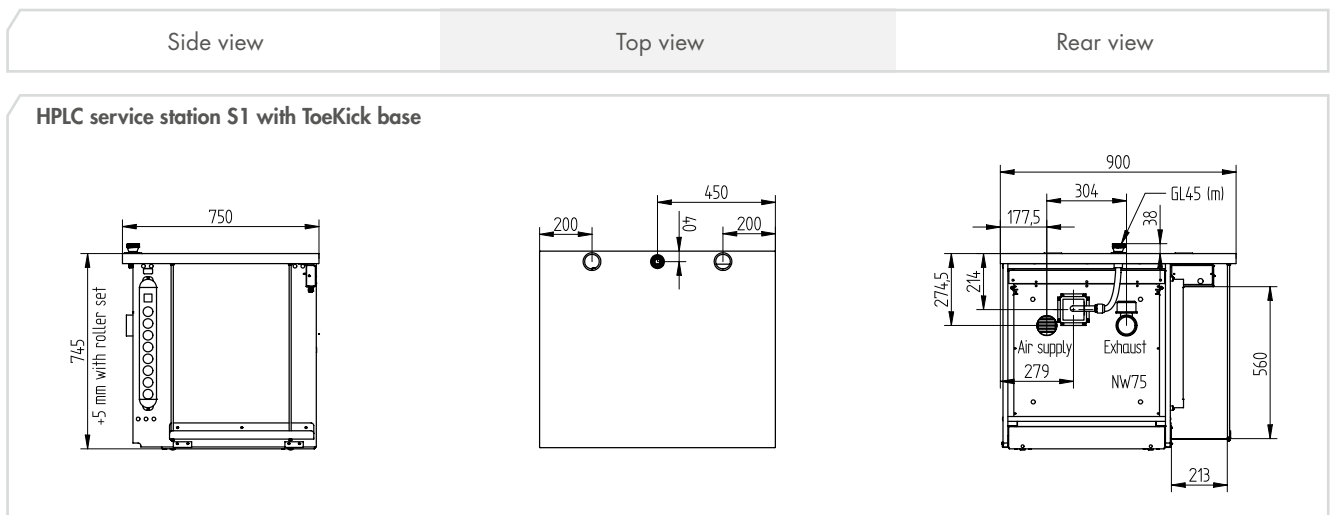
HPLC service station S	
Fitting options:	
Monitor arm set, full motion, including bracket	300-10971-71
Keyboard arm set, extendable, including mouse pad	300-10971-72
Additional shelf for small parts	300-10971-73
Electropneumatic device for canister changeover	on request
Master card for system configuration	50-70000-930
Additional interior fittings:	
Canister made of conductive PE, 10 litre	5.09.010
Special pliers for PE canister	5.09.003
Safety waste caps with capillary connections	see www.dueperthal.com
Absorber	
Exhaust air system or ventilator	

Technical data HPLC service station – Type 90

Technical details			Model size
			S
Load bearing capacity with uniformly distributed load (max. load/shelf)	in Kg	Pull-out tray	45
		Standing surface for HPLC	80
Maximum volume of the largest individual container which may be stored in the cabinet	in l	–	10
Collection volume	in l	Pull-out tray	11
Base height	in mm	with ToeKick base	85
Volumetric flow rate for 10-fold air exchange	in approx. m ³ / h	–	1,5
Required extraction flow rate for filling and [transferring active storage] ¹⁾	in approx. m ³ / h	–	>21
Pressure drop in the cabinet	in Pa.	–	<1

¹⁾ Note:

During filling and transferring of media (active storage), the system's exhaust air rate must be monitored to detect a possible failure in the transported air flow. In this case, at least an alarm must be triggered and a shift in the hazardous areas must be indicated. Should the exhaust air monitor fail, all filling and transfer processes must be stopped.



Zoning

When all measures for monitoring the exhaust air are observed (protection concept), the proportion between the volumetric flow rates of exhaust air and fresh air is ensured and the lower explosion protection threshold is exceeded only briefly. In this way, zone 1, which prevails inside the cabinet and at the filling point, can be expected to turn into zone 2. For risk assessment, the HPLC service station 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.

Dimensions - interior fittings: [in mm]	Model size		
	S		
	Width	Depth	Height
Pull-out tray	345	432	119

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: vkid@dueperthal.com

Your contact person – for all other countries

Phone: +49 6188 9139-150

E-mail: export@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

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For more information on other DÜPERTHAL products contact STEQ America, DÜPERTHAL's supplier in North America.
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