

# PRODUCT CATALOGUE 2024 / 2025



RIETBERGCONTAINER

Collection • Storage • Transport





Rietbergcontainer  
Showroom

# READY FOR THE DIGITAL REVOLUTION?

Immerse yourselves with us  
in the virtual world of  
Seppeler Rietbergcontainer.  
Whenever, wherever...





Self exploration



24/7 availability



Detailed depiction



Comprehensive services



Location-independent



360° exploration



Informative captions

**Do you still have any questions? We have the answers!**

Even at a virtual level we are here for you in person and are happy to advise you about our products and services. Simply use our online form for this purpose or meet us directly in the virtual showroom for a consultation.

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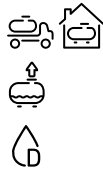


RIETBERG SMART  
FUEL (RSF)

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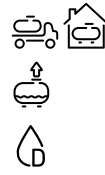
## 02 MOBILE REFUELLING STATIONS

### Diesel tank systems



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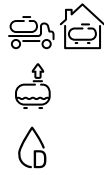
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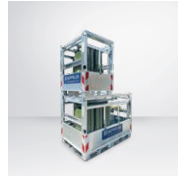
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CANISTRO

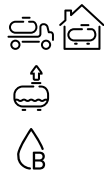
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EQUIPMENT DIESEL  
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Petrol tank systems



QUADRO-DV 330

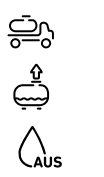
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CONTY-B 330

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AdBlue® tank systems



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QUADRO-PLUS-BLUE

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Oil storage tanks



QUADRO-OEL

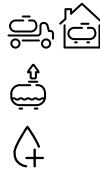
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Universal tanks



QUADRO-PLUS

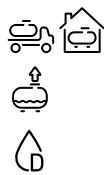
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**03** MOBILE SUPPLY TANKS



QUADRO-AG

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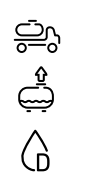
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QUADRO-TA 700

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KC-AG

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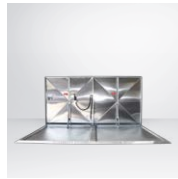


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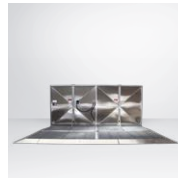
### Fuel filling stations



KAP-ECO



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KAP-GIRO



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### Petrol tank system



KA



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## 05 STATIONARY STORAGE TANKS

### Storage tanks for fire-resistant fluids



MT-SE



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LT-SE



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### Storage tank for flammable fluids



MT-ELH



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LT-ELH



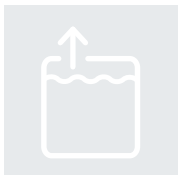
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LT-ELH



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OVERFILL SAFEGUARDS

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## 06 STATIONARY COLLECTION TANKS

### Collection tank for fire-resistant fluids



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AS-TP-SE

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MS-T-SE

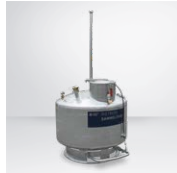
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### Collection tank for flammable fluids



MS-TP-ELH

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GS-TP-ELH

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GS-TP-ELH

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GD-TP-ELH

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GD-D-ELH

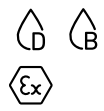
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OVERFILL SAFEGUARDS

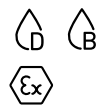
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MOBILUS

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MOBILUS-BLUE

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## 08 CUSTOMER-SPECIFIC SOLUTIONS



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# GROUP IBC EXPERTISE COURSE
















Do you have several employees who would like to train to be inspectors? Don't the times and dates suit you? Then let us know. We will organise it for you.



DATES, INFORMATION  
AND REGISTRATION

# LEGEND

## General symbols

- |   |  |   |  |
|---|--|---|--|
|    | Diesel   |    | Vacuum leakage indicator   |
|    | Petrol   | <b>NEU</b>  | New product  |
|    | Motor, gearbox and lubrication oils                      |    | Stationary containers  |
|    | Kerosene   |    | Mobile containers  |
|   | AdBlue®  |    | Supply   |
|  | Different media  |  | Disposal   |
|  | Fire-resistant fluid (fire-resistant, flash point > 55°) |  | Inspection by a notified inspection body, verification of the manufacturer's unit test and conformity with the design type |
|  | Flammable fluid (flammable, flash point < 55°)           |  | Table breakdown on following page  |

## Approval symbols

- |   |               |  |                                  |
|---|---------------|--|----------------------------------|
|  | BAM approval  |  | DIN standard                     |
|  | DIBt approval |  | Approved pursuant to AD rulebook |

## Safety and information symbols

- |   |                              |  |                      |
|---|------------------------------|--|----------------------|
|  | General useful information   |  | Reference to page    |
|  | Attention! Legal regulations |  | Available on request |



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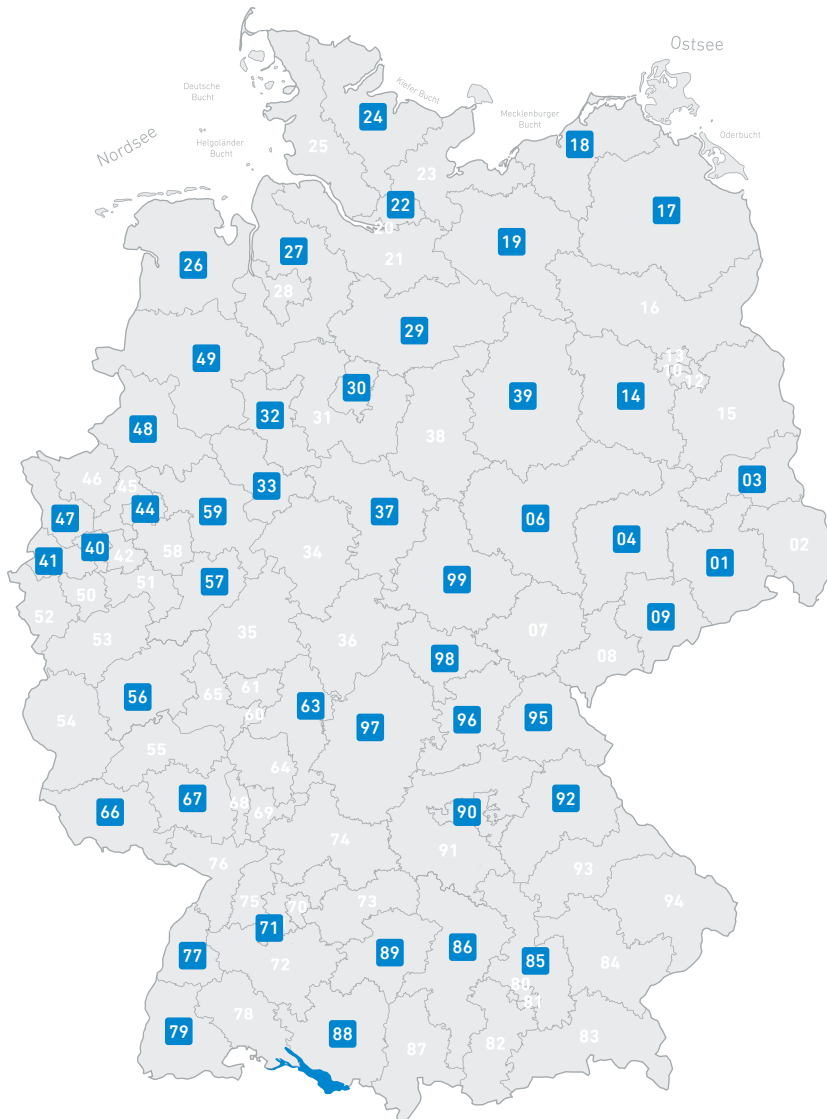


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# RIETBERGCONTAINER. THE ORIGINAL!

Nothing is as constant as progress itself. Processes, procedures and legal conditions – everything continuously evolves. Here at Seppeler Rietbergwerke, one of the market leaders for container manufacturing, we have been implementing innovative solutions for container and tank problems which have set trends for 100 years. Just a few examples of this are on-site filling stations for petrol or diesel, the used-oil storage containers and other collection tanks for liquid hazardous substances as well as the Rietberg tank systems for utilisation as mobile refuelling stations. The double-walled cubical containers and the fuel suction and refuelling devices are also integral components of the range, as is the Rietberg vacuum-leakage monitoring system, which does not require a power supply. All of this contributes to high quality and safety standards. Our products meet all the legal requirements, and in order to be prepared for the future, we carry out research and development. This enables you to also benefit as a customer.

## **“Seppeler – we make it work” – but why?**

Market and future orientation are equally expressed in the “Seppeler – we make it work” mission statement. “We make it work” is the commitment to always provide every customer with individual top performance. “We make it work” is a message to the outside world and to ourselves internally and thereby sets a standard on our own work. We provide you with a wide range of services based on this motto:

### **Product innovation**

Quick solutions for new requirements

### **Consulting competence.**

Our trained and creative staff are happy to advise and offer you solutions according to legal requirements and standards

### **Production and inspection of IBCs**

Certified and approved for production and inspection/testing of intermediate bulk containers (IBC) as well as tank containers.

We are a member of the RAL quality assurance association and are committed to maintaining high quality standards in the storage container sector.

## **Specialised company according to the German Federal Water Act**

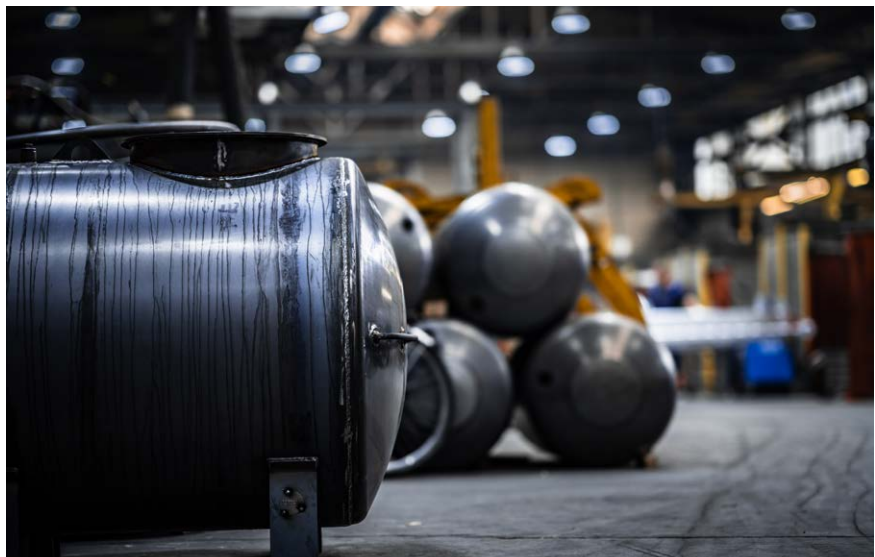
We are certified to carrying out work on systems to handle substances hazardous to water.

### **Competence and certification**

- › We develop and produce in Rietberg. You receive products “Made in Germany”
- › Certified manufacturer of structural steel components according to DIN EN 1090-2 to EXC3
- › Certified company for the production of pressure vessels and components according to AD 2000 datasheet HPO
- › Quality assurance of production and services using a certified management system according to DIN EN ISO 9001:2015.
- › Energy management system according to DIN EN ISO 50001:2011 and environmental management system according to DIN EN ISO 14001:2015.
- › The production of standardized containers is subject to neutral RAL quality supervision

### **Durability guarantee**

10-year guarantee on hot dip galvanized containers in appropriate applications according to intended use.

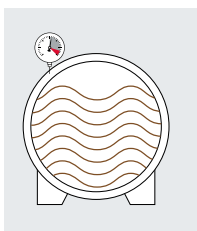






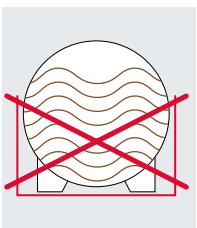
^  
Welding – one of the main competences in our container technology. MMA, SAW, TIG, MAG/MIG welding

**Rietberg containers – traditionally double-walled**



Double-walled systems within the meaning of AwSV § 2 (17) are systems that consist of two independent walls, the space in

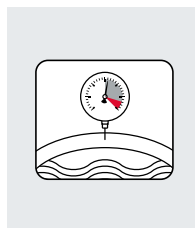
between of which is designed as a monitoring space with an approved leakage indication system that ensures that both container walls are monitored at the same time. This way, a possible leakage can be detected and displayed before any fluid can leak and cause environmental damage.



For double-walled containers, no collection tray and, additionally in the event of erection in an outdoor area, no roof are required.

Furthermore, the erection and operation in water protection areas do not cause any problems.

**Rietberg vacuum leakage indicator**



This system permanently monitors both container walls. It is self-contained and therefore also admissible for usage outdoors. It

is robust and environmentally friendly and works completely independently from energy sources..

**Rietberg containers – traditionally hot dip galvanized**

Therefore, they are perfectly protected against corrosion. The containers are individually hot dip galvanized in a dip coating procedure according to DIN EN ISO 1461 and are thus equipped with an internal and external zinc coating of at least 55 µm. Thanks to the hot dip

galvanization, the surface receives a cathodic self-protection and is extremely abrasion-resistant.

In Germany, pursuant to DIN EN ISO 14713-1, an annual zinc abrasion of 1 µm is expected. Therefore, the containers are equipped with a corrosion protection which lasts decades.

**Rietberg containers – traditionally fitted ready for use**

Whether as fuel supply containers or disposal containers for waste material. In Rietberg containers, all necessary fittings and (ordered) equipment, e.g. fuel dispensing pumps or an overflow safeguard, are pre-fitted. The system is immediately ready for operation.



# THE FUELS OF THE FUTURE

Oil, gas and other fossil raw materials are not very sustainable. They are also promoted in regions that are politically unstable or governed autocratically. Experts are therefore estimating that, by 2040, oil and gas will likely only play a minor role in energy supply. The future belongs to regenerative energy sources, fuels and other media such as hydrogen, HVO, methanol and e-fuels. Some sections of the economy, particularly industry, construction or agriculture, must therefore start thinking about tomorrow today. But how do we cover the growing demand for energy while becoming less dependent on fossil raw materials? Which solutions are economically efficient and at the same time can make a genuine contribution to climate protection? These are questions that your company is certainly also dealing with. There are questions to which we provide answers with our tank systems. Because these can be used for refuelling with many alternative fuels – for example with HVO or e-fuels.

## Seppeler Rietbergcontainer: Your partner for HVO and e-fuel-compatible tank systems

At a time when sustainability and environmental protection are becoming increasingly important in the construction industry, Seppeler Rietbergcontainer offers solutions for environmentally friendly building projects. Our mobile fuel systems are designed for the use of HVO (hydrotreated vegetable oil), an alternative fuel that represents a more environmentally-friendly and more efficient alternative to conventional diesel.

### Why should you choose HVO and e-fuel compatible tanks systems produced by Seppeler?



#### Reduced CO2 emissions

Our tanks systems enable CO2 emissions to be significantly reduced, which contributes to a more sustainable operation of construction sites.



#### Flexibility

Our mobile HVO and e-fuel-compatible tank systems can be used at various locations, e.g. at events, construction sites or temporary sites. This would increase the availability of fuel.



#### Legally compliant transportation and storage

All mobile refuelling stations are approved for transportation and to be stored and set up outdoors and in buildings, as well as for use in water protection and earthquake areas.



#### High performance and efficiency

Despite using HVO or e-fuels, you don't have to make any compromises in terms of the performance of your construction machinery. Our tank systems guarantee a reliable supply of fuel even under challenging conditions.



#### Simple integration and usage

Our tanks systems are designed so that they can be seamlessly integrated in existing infrastructures without having to make laborious adaptations.



#### Future-oriented technology

By using tank systems operated with HVO and e-fuels, you are opting for a future-oriented technology that contributes to the vision of a climate-neutral construction site.



WEB-BASED CLOUD SYSTEM



DIESEL TANK SYSTEM



# 01 TANK MANAGEMENT



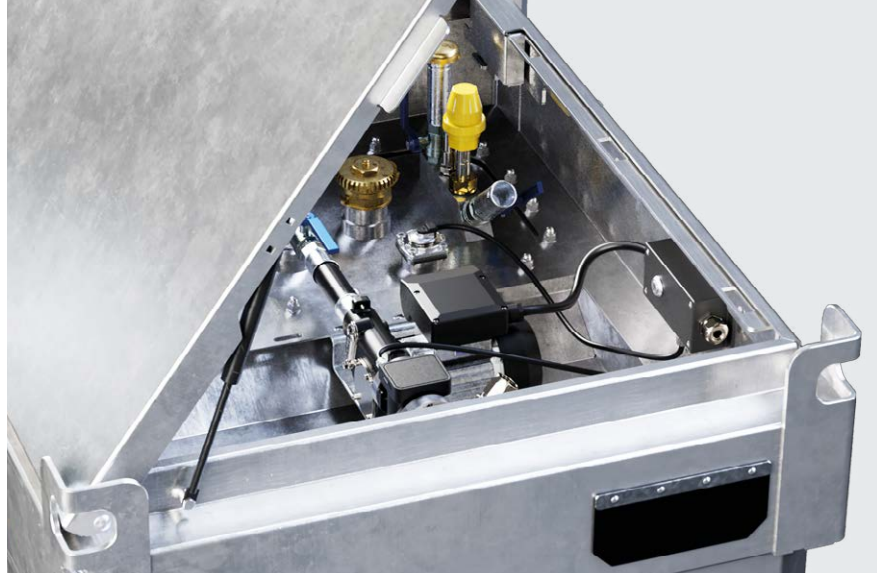
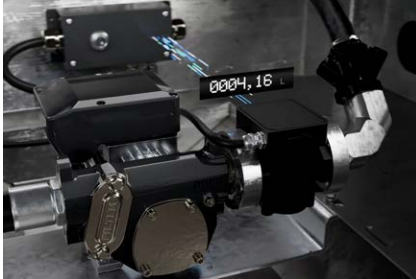
APP



# TANK DATA MANAGEMENT SYSTEM

## RIETBERG SMART FUEL (RSF)

[DIESEL]



### Flexibility

- › App-controlled tank data recording in real time
- › Access to data anytime, anywhere
- › Compatible with iOS (from iOS 14.1) and Android (from Android 7)
- › Bilingual menu navigation (DE and EN)

### Easy to use

- › Intuitive and concise user interface
- › Process-optimised method of working
  - › Quick machine selection via QR code scanner
  - › Pre-selection lists of users or machines

### Clear data recording and evaluation

- › Customised presentation on the dashboard
- › Allocation of machines, users, tank systems or projects
- › Freely designable evaluation tool
- › Possible to export evaluation reports via Excel tables or PDF files

### Authentication and warning system

- › Maximum fuel quota can be allocated to users
- › Role management for the assignment of rights, rates and quotas
- › Implausible changes to filling levels are detected and reported
- › Reminders of inspections and testing

### Safe and reliable

- › Secure data storage & hosting on German servers
- › Highest safety standards
- › Encrypted data transmission

### Compact design

- › Space-saving installation
- › Can be retrofitted to all mobile and stationary fuel systems with little effort



App Store

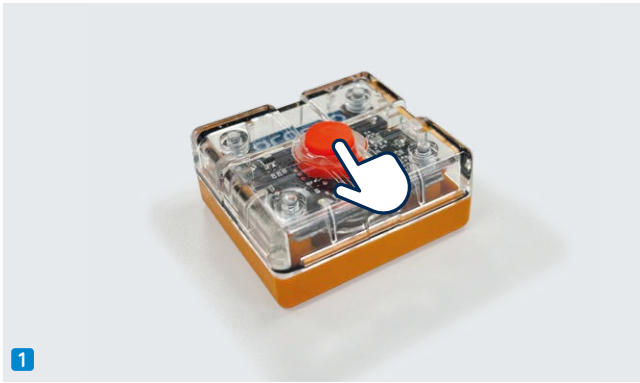


Google Play


**Technical data**

Type / Capacity	Description	Item no.
RSF 12/24	Blackbox as a control unit with all the necessary supply and signal lines; 6 m connection cable with 12/24 V terminal clamps; Mechanical level indicator with transducer; Rietberg Smart-Fuel app for Android and iOS; Web-based tank management software; User manual; Total weight 1.8 kg; ABS plastic housing material with dimensions 220 x 80 x 60 mm; Protection type IP 67; Accuracy [l/Min] ± 1 %	510708
RSF 230	Blackbox as a control unit with all the necessary supply and signal lines; 6 m connection cable with 230 V Schuko plug; Mechanical level indicator with transducer; Rietberg Smart-Fuel app for Android and iOS; Web-based tank management software; User manual; Total weight 1.8 kg; ABS plastic housing material with dimensions 220 x 80 x 60 mm; Protection type IP 67; Accuracy [l/Min] ± 1 %	510709

**Services**



Type	Description	Item no.
Licence	Monthly licence fee per RSF unit. This is charged on a subscription basis and calculated once per year/per RSF unit. The first year's licence is free of charge. Invoicing is done on a pro rata basis from the date of delivery in the respective calendar quarter.	301015
RSF introduction workshop	Personal instructions on site – Installation training Introduction workshop via online meeting	301014 48744
RSF retrofitting	Amount of work approx. 1.5 hrs /container Travel expenses at cost	86653 86654
RSF simulator	<b>1</b> The Rietberg Smart Fuel simulator realistically recreates the fuelling processes on a Rietberg container. The tank simulator is used to get a transparent, virtual impression of the actual work processes and allows users to experiment with these processes in the RSF app and in the web-based software as much as they want. Hired against a deposit, limited to 30 days	48740

The background is a solid green color. On the left side, there is a cluster of green leaves, some of which are falling or blowing away, creating a sense of movement. On the right side, there is a partial view of a dark green, metallic structure, likely a steel tank, with some mechanical details visible.

Mobile refuelling stations are essential for the fuelling of machinery and power units these days. Independent of the location: whether on construction sites, during forestry work, on fields or in stone quarries, fuelling of machinery and equipment should be possible quickly and safely on site. Rietberg steel tank systems offer the best possible levels of safety and flexibility for this purpose and thus contribute to minimising downtimes. This saves time and money.



02

# MOBILE REFUELLING STATIONS







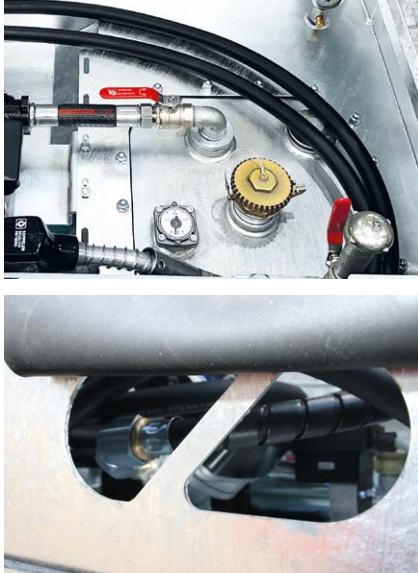
**DIESEL**  
TANK SYSTEMS

# DIESEL TANK SYSTEMS

## QUADRO-DV



[DIESEL]



### Legally compliant transportation and storage

- › Approved for an unlimited period as packaging for transport by road (ADR), by rail (RID), inland waterway vessels (ADN) and at sea (IMDG Code) as well as in the air (LuftVZO)
- › Valid general construction approval as a storage container throughout Germany
- › Double-walled diesel tank within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installation and in buildings
- › Utilisation in water protection areas and earthquake areas

### Simple handling, cost-saving and reduced time

- › No recurring inspections and testing
- › Transport under simplified conditions without hazardous goods certificate and without special vehicle identification
- › Storage without additional collection tray

### Space saving

- › Fuel container can also be stacked 3-fold when filled
- › EURO pallet dimensions<sup>1</sup>

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours are possible)
- › Structural protection for corners against damage caused by angled edges and protrusions
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

### Secure and safe transport

- › Ventilation pipe with shut-off ball valve
- › Suction pipe with shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Lockable, spring-supported lid
- › Two gas-pressure springs and three grips for simplified lid operation from three sides
- › Continuous, mechanical and easily readable fuel gauge
- › Nozzle holder and return-flow option for safe, secure and clean return flow for drip quantities into the containers
- › Lateral feed-through opening for hose pipes and/or power cables on closed containers
- › Easy and safe to lash down
- › Storage space can still be accessed even when the container is lashed down

### Increased anti-theft protection

- › Storage box with sturdy 3-point safety lock with internally positioned locking cylinder
- › The customer's own, already used locking cylinder can be installed on request
- › 5-point security lock with drill-proof locking cylinder and specially secured lid are optionally available
- › Lockable filling spout
- › Anti-tamper protection on the lateral feed-through opening

<sup>1</sup> 1200 x 800 mm



**Technical data**

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Item no.
	L	W	H			
QUADRO-DV 330	1200	800	807	219	D/BAM 15600/1A2W Z-38,12-230	503700
QUADRO-DV 450	1200	800	942	238	D/BAM 15600/1A2W Z-38,12-230	503703

**Available models**

**COMPLETE PACKAGE**

Type	Description	Flow-rate [l/min]		Item no.
		Nominal <sup>1</sup>	Effective <sup>2</sup>	
QUADRO-DV 330-12/24	Complete package is equipped with 12/24 V pump, 6 m connection cable and battery terminals, 6 m hose set with angular swivel joint, automatic discharge nozzle valve and flow meter PZ300	35/70	30/50	503701
QUADRO-DV 330-230	Complete package is equipped with 230 V pump, 6 m connection cable and Schuko plug, 6 m hose set with angular swivel joint, automatic discharge nozzle valve and flow meter PZ300	56	52	503702
QUADRO-DV 450-12/24	Complete package is equipped with 12/24 V pump, 6 m connection cable and battery terminals, 6 m hose set with angular swivel joint, automatic discharge nozzle valve and flow meter PZ300	35/70	30/50	503704
QUADRO-DV 450-230	Complete package is equipped with 230 V pump, 6 m connection cable and Schuko plug, 6 m hose set with angular swivel joint, automatic discharge nozzle valve and flow meter PZ300	56	52	503705



- > Tank systems with diesel-urea combination can be found on P. 38
- > Tank systems for petrol can be found on P. 66, 70

1 Indicated nominal power of the manufacturer with free outlet

2 Power detected during the test with a suction height of 1m and equipped with 6 m hose set with angular swivel joint and automatic discharge nozzle



### Accessories<sup>1</sup>

Type	Description	Item no.
Assembly kit	Comprising the following bracket for battery, 12 V / 85 Ah battery and battery charger:	97719
Battery 12 V / 85 Ah <sup>1</sup>	<b>Battery bracket:</b> Full steel, hot dip galvanized, for secure mounting of the battery in a QUADRO; maximum battery dimensions; L x W x H = 350 x 180 x 236 mm	98043
	<b>12 V / 85 Ah battery:</b> High power 12 V/85 Ah (20h) gel battery, 950 Wh, maintenance-free, cold start current (EN): 450 A, flashback and leakage-proof, internal gas return line, low self-discharge, long service life, temperature-resistant, high vibration resistance and safety against tilting; L x W x H: 330 x 171 x 236 mm, weight: 30 kg	45747
	<b>Charger:</b> Automatic battery charger including mounting material, micro processor-controlled reverse voltage protection, short-circuit-proof, LED display, insulation: IP 65; voltage: 12 V/5A	98042
Assembly kit	Comprising the following bracket for battery, two 12 V / 85 Ah batteries and battery charger:	300306
Battery 24 V / 85 Ah battery <sup>2</sup>	<b>Battery bracket:</b> Full steel, hot dip galvanized, for secure mounting of the battery in a QUADRO; maximum battery dimensions; L x W x H = 350 x 180 x 236 mm	300704
	<b>24 V / 85 Ah battery:</b> two 12 V / 85 Ah (20h) high-performance gel batteries connected in series via cable bridges, 950 Wh, maintenance free, cold start current (EN): 450 A, flashback protection and leakage-proof, internal gas return line, low self-discharge, long service life, temperature-resistant, high vibration resistance and safety against tilting; L x W x H (per unit): 330 x 171 x 236 mm, weight/unit: 30 kg	300703
	<b>Charger:</b> Automatic battery charger including mounting material, micro processor-controlled reverse voltage protection, short-circuit-proof, LED display, insulation: IP 65; voltage: 24 V/4A	47823
Battery box for 12 V / 85 Ah	Battery box made of hot-dipped galvanized steel, for suspending a battery on a QUADRO. Not for use during transportation on public roads.	516031
<b>NEW</b>		
Suction line & return line	Special dome lid with additional suction pipe with ½" male fitting shut-off stop cock and additional return pipe with ½" male fitting shut-off stop cock	508532
Integrated QUADRO DV/-D hose reel <sup>3</sup>	Steel hose reel with protective cover and outlet window; automatic spring return, horizontally mounted and ready for operation in the storage space	
	Diesel DN 20 x 8 m	504012
	Diesel DN 20 x 10 m	505167
	Diesel DN 20 x 14 m	505165
	Diesel NW 25 x 8 m	505164
	Diesel NW 25 x 10 m	504022
Forwarder bracket QUADRO-D	Folding steel bracket for attachment with forwarder; for QUADRO-D	502887
Fire extinguisher	2 kg ABC powder acc. to ADR 8,1,4,2	45529

<sup>1</sup> Cannot be combined with QUADRO complete packages

<sup>2</sup> Cannot be combined with the integrated hose reel

<sup>3</sup> Cannot be combined with the 24 V/85 Ah battery kit

Type	Description	Item no.
Lashing straps	2 lashing straps, 2-part, length 4 m, long pressure ratchet, belt width 35 mm; max, admissible tensile force 2000 daN	47993
Non-slip mats	x2; thickness 8 mm, dimensions 1000 x 250 mm	47994
Additional painting QUADRO	Additional painting of the outer body of a galvanized QUADRO, except the galvanized lid. RAL colour as per customer's request	98540
Security package	5-point security lock with drill-proof locking cylinder utilising hardened steel pins and lever-open protection with a reinforced secured lid for QUADRO DV/-D 330-770	505170
Bracket set	Simple bracket for the discharge hose and the dispensing pump's supply cable	513229



- > Tandem diesel pumps package can be found on P. 36
- > Additional pumps, flow meters and other equipment can be found from P. 59

### Special models

For optimum response to customer requests, QUADRO-DV offers various optional special models:

#### SURFACE MODELS



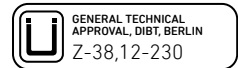
Surface designation	Internal wall	External wall
Hot dip galvanized	Hot dip galvanized	Hot dip galvanized
Coated	Untreated	Coated
Coated stainless steel	Stainless steel	Coated
Hot dip galvanized with additional coating	Hot dip galvanized	Hot dip galvanized and coated
Stainless steel	Stainless steel	Stainless steel

# DIESEL TANK SYSTEMS

## QUADRO-D



[DIESEL]



### Legally compliant transportation and storage

- › UN approval for an unlimited period as an IBC for transport by road (ADR), by rail (RID) as well as for inland waterway vessels (ADN) and at sea (IMDG Code)
- › Valid general construction approval as a storage container throughout Germany
- › Double-walled diesel tank within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installation and in buildings
- › Utilisation in water protection areas and earthquake areas

### Simple handling, cost-saving and reduced time

- › Transport under simplified conditions without hazardous goods certificate and without special vehicle identification
- › Storage without additional collection tray

### Space saving

- › Fuel containers can also be stacked 3-fold (up to 1,000 l) or 2-fold (2,000 – 3,000 l) when filled.
- › Pallet dimensions up to QUADRO-D 1000<sup>1</sup>

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours are possible)
- › Structural protection for corners against damage caused by angled edges and protrusions
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

### Secure and safe transport

- › Ventilation pipe with shut-off ball valve
- › Suction pipe with shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Lockable, spring-supported lid
- › Two gas-pressure springs and three grips for simplified lid operation from three sides
- › Continuous, mechanical and easily readable fuel gauge
- › Nozzle holder and return-flow option for safe, secure and clean return flow for drip quantities into the containers
- › Lateral feed-through opening for hose pipes and/or power cables on closed containers
- › Easy and safe to lash down
- › Storage space can still be accessed even when the container is lashed down

### Increased anti-theft protection

- › Storage box with sturdy 3-point safety lock with internally positioned locking cylinder
- › The customer's own, already used locking cylinder can be installed on request
- › 5-point security lock with drill-proof locking cylinder and specially secured lid are optionally available
- › Lockable filling spout
- › Anti-tamper protection on the lateral feed-through opening

<sup>1</sup> 1200 x 800 or 1200 x 1000





**Available models**

**STANDARD**

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Item no.
	L	W	H			
QUADRO-D 770	1200	800	1322	289	D/BAM/15450/31A Z-38,12-230	300184
QUADRO-D 1000	1200	1000	1322	328	D/BAM/15450/31A Z-38,12-230	300185
QUADRO-D 2000 <b>NEW</b>	2400	1200	1188	730	D/BAM/16125/31A Z-38,12-223	516060
QUADRO-D 3000 <b>NEW</b>	2400	1200	1548	840	D/BAM/16125/31A Z-38,12-223	510973

**COMPLETE PACKAGE**

Type / Capacity	Description	Flow-rate [l/min]		Item no.
		Nominal <sup>1</sup>	Effective <sup>2</sup>	
QUADRO-D 770-12/24	Complete package equipped with fill limit indicator, 12/24 V pump, 6 m connection cable and battery terminals, 6 m hose set with angular swivel joint, automatic discharge nozzle and flow meter PZ300	35/70	30/50	500248
QUADRO-D 770-230	Complete package equipped with fill limit indicator, 230 V pump, 6 m connection cable and Schuko plug, 6 m hose set with angular swivel joint, automatic discharge nozzle and flow meter PZ300	56	52	500249
QUADRO-D 1000-12/24	See description of QUADRO-D 770-12/24	35/70	30/50	500250
QUADRO-D 1000-230	See description of QUADRO-D 770-230	56	52	500251
QUADRO-D 2000-12/24 <b>NEW</b>	See description of QUADRO-D 770-12/24	35/70	30/50	514079
QUADRO-D 2000-230 <b>NEW</b>	See description of QUADRO-D 770-230	56	52	514080
QUADRO-D 3000-12/24 <b>NEW</b>	See description of QUADRO-D 770-12/24	35/70	30/50	513038
QUADRO-D 3000-230 <b>NEW</b>	See description of QUADRO-D 770-230	56	52	513380



- > Tank systems with diesel-urea combination can be found on P. 38
- > Tank systems for petrol can be found on P. 66, 70

1 Indicated nominal power of the manufacturer with free outlet

2 Power detected during the test with a suction height of 1m and equipped with 6 m discharge hose and automatic discharge nozzle



### Accessories<sup>1</sup>

Type	Description	Item no.
Assembly kit	Comprising the following bracket for battery, 12 V / 85 Ah battery and battery charger:	97719
12 V / 85 Ah battery	<b>Battery bracket:</b> Full steel, hot dip galvanized, for secure mounting of the battery in a QUADRO; maximum battery dimensions; L x W x H = 350 x 180 x 236 mm	98043
	<b>12 V / 85 Ah battery:</b> High power 12 V/85 Ah (20h) gel battery, 950 Wh, maintenance-free, cold start current (EN): 450 A, flashback and leakage-proof, internal gas return line, low self-discharge, long service life, temperature-resistant, high vibration resistance and safety against tilting; L x W x H: 330 x 171 x 236 mm, weight: 30 kg	45747
	<b>Charger:</b> Automatic battery charger including mounting material, micro processor-controlled reverse voltage protection, short-circuit-proof, LED display, insulation: IP 65; voltage: 12 V/5A	98042
Assembly kit	Comprising the following bracket for battery, two 12 V / 85 Ah batteries and battery charger:	300306
24 V / 85 Ah battery <sup>2</sup>	<b>Battery bracket:</b> Full steel, hot dip galvanized, for secure mounting of the battery in a QUADRO; maximum battery dimensions; L x W x H = 350 x 180 x 236 mm	300704
	<b>24 V / 85 Ah battery<sup>1</sup>:</b> Two 12 V / 85 Ah (20h) high-performance gel batteries sequentially switched via cable bridges, 950 Wh, maintenance free, cold start current (EN): 450 A, flashback protection and leakage-proof, internal gas return line, low self-discharge, long service life, temperature-resistant, high vibration resistance and safety against tilting; L x W x H (per unit): 330 x 171 x 236 mm, weight/unit: 30 kg	300703
	<b>Charger:</b> Automatic battery charger including mounting material, micro processor-controlled reverse voltage protection, short-circuit-proof, LED display, insulation: IP 65; voltage: 24 V/4A	47823
12 V / 85 Ah battery box <b>NEW</b>	Battery box made of hot dip galvanized steel, for suspending a battery on a QUADRO-D. Not for use during transportation on public roads	516031
Suction line & return line	Special dome lid with additional suction pipe with ½" male fitting shut-off stop cock and additional return pipe with ½" male fitting shut-off stop cock	508532
External hose reel	Hose reel with NW25 x 15 m hose, spring return and outlet window; incl. mounting material and pump connection hose	98044
	Hot dip galvanized steel bracket for secure mounting of a hose reel on a KA diesel fuel storage tank	300728

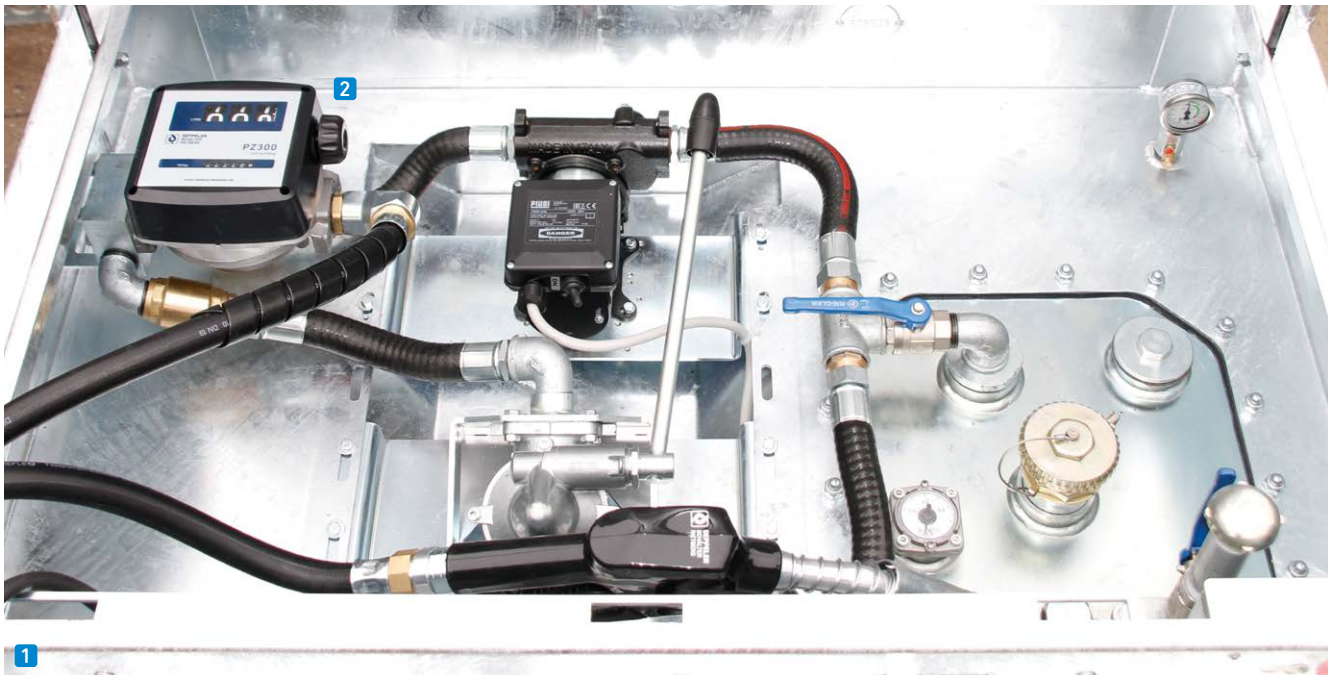
<sup>1</sup> Cannot be combined with QUADRO complete packages

<sup>2</sup> In combination with the integrated hose reel only on QUADRO-D 1000



Type	Description	Item no.
Integrated Hose drum <sup>3</sup>	Steel hose drum with protective cover and outlet window; automatic spring return, horizontally mounted and ready for operation in the storage space of the QUADRO-DV/-D Diesel DN20 x 8 m	504012
	Diesel DN20 x 10 m	505167
	Diesel DN20 x 14 m	505165
	Diesel NW25 x 8 m	505164
	Diesel NW25 x 10 m	504022
Forwarder bracket QUADRO-D	Folding steel bracket for attachment with forwarder	502887
Fire extinguisher	2 kg ABC powder acc, to ADR 8,1,4,2	45529
Lashing straps	2 lashing straps, 2-part, length 4 m, long pressure ratchet, belt width 35 mm; max, admissible tensile force 1000 daN	47993
Non-slip mats	x2; thickness 8 mm, dimensions 1000 x 250 mm	47994
Additional painting QUADRO	Additional painting of the outer body of a galvanized QUADRO, except the galvanized lid. RAL colour as per customer's request	98540
Security package	5-point security lock with drill-proof locking cylinder utilising hardened steel pins and lever-open protection with a reinforced secured lid	
	For QUADRO DV/-D 330-770	505170
	For QUADRO DV/-D 1000	505173
Extraction pipe	4-m long extraction pipe for extracting diesel with the mobile refuelling station's dispensing pump from an external tank. Incl. quick couplings and all assembly parts	98814
Hose and cable holder set	Simple bracket for the discharge hose and the dispensing pump's supply cable	513229

<sup>3</sup> Cannot be combined with the 24 V/85 Ah battery kit

TANDEM DIESEL PUMPS PACKAGE<sup>1</sup>

Type	Description	1,- Pump delivery rate [l/min]		2,- Pump Delivery rate [l/min    l/stroke]		Item no.
		Nominal <sup>2</sup>	Effective <sup>3</sup>	Nominal	Effective	
Tandem DC, QUADRO-DV/-D diesel pump package	Manual pump installed in parallel with a diesel pump with 12/24 V DC motor, 6 m connection cable with battery terminals, 4 m hose set with angular swivel joint, automatic discharge nozzle	35/70	30/50	0.35	–	506180
Tandem AC QUADRO-DV/-D diesel pump package	<b>1</b> Manual pump installed in parallel with a diesel pump with 230 V alternative current motor, 6 m connection cable with Schuko plug, 4 m hose set with angular swivel joint, automatic discharge nozzle	56	52	0.35	–	506181
Tandem diesel pumps- AC/DC QUADRO-DV/-D Package	Diesel pumps installed in parallel with alternative current motor 230 V and direct current motor 12/24 V, 6 m connection cable with Schuko plug and/or battery terminals, 4 m hose set with angular swivel joint, automatic discharge nozzle valve and mechanical flow meter	56	52	35/70	30/70	506179
PZ300	<b>2</b> Mechanical, not calibratable roller flow meter for assembly on a pump, flow rate: Min. 20 l/min, Max. 120 l/min, max. viscosity 500 cSt.					96359

1 Cannot be combined with the integrated hose drum and battery

2 Indicated nominal power of the manufacturer with free outlet

3 Power detected during the test with a suction height of 1m and equipped with 6 m discharge hose and automatic discharge nozzle



Additional pumps, flow meters and other equipment can be found from P. 59.

**Special models**

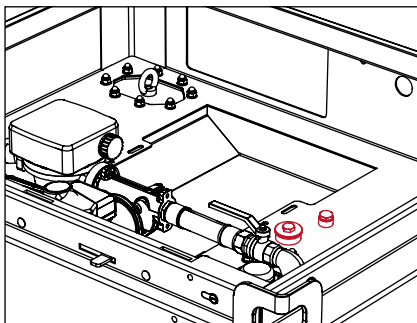
For optimum response to customer requests, QUADRO-D offers a variety of optional special models:

**SURFACE MODELS**



Surface designation	Internal wall	External wall
Hot dip galvanized	Hot dip galvanized	Hot dip galvanized
Coated	Untreated	Coated
Coated stainless steel	Stainless steel	Coated
Hot dip galvanized with additional coating	Hot dip galvanized	Hot dip galvanized and coated
Stainless steel	Stainless steel	Stainless steel

**BUSHINGS**



Type	Description	Item no.
Additional bushing	Max. 6 per container, up to 3"; for installation of additional fittings	98036



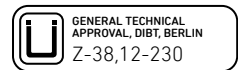
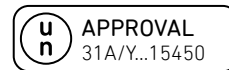
Variable height storage boxes, interior floor with slope and double-walled sump cups are available on request.

# DIESEL TANK SYSTEMS

## QUADRO-BLUE



[DIESEL & ADBLUE®]



### Legally compliant transportation and storage

- › UN approved for an unlimited period as an IBC and/or packaging (QUADRO-BLUE 450) for transport by road (ADR), by rail (RID), on inland waterway vessels (AND) and at sea (IMDG Code) as well as in the air (QUADRO-BLUE 450)
- › Valid general construction approval as a storage container throughout Germany
- › Double-walled diesel tank within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum leakage monitoring for both walls
- › Approved for outdoor installation and in buildings
- › Utilisation in water protection areas and earthquake areas

### Simple handling, cost-saving and reduced time

- › No recurring inspections for QUADRO-BLUE 450
- › Transport under simplified conditions without hazardous goods certificate and without special vehicle markings (up to 1000 l of diesel)
- › Storage without additional collection tray

### Space saving

- › Fuel containers can also be stacked 3-fold (up to 1,000 l) or 2-fold (1,800 – 2,700 l) when filled.

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing for diesel tanks (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours are possible)
- › Structural protection for corners against damage caused by angled edges and protrusions
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

### Secure and safe transport

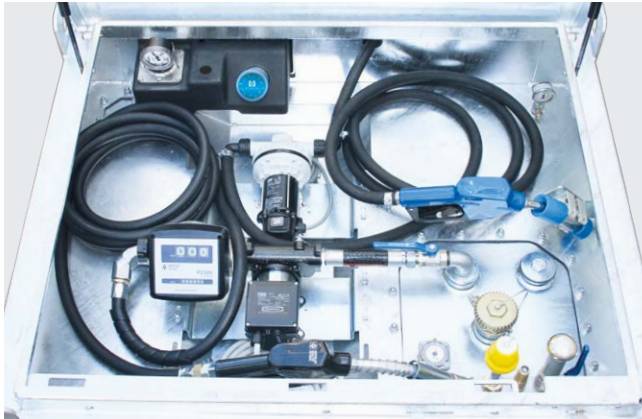
- › Ventilation pipe with shut-off ball valve
- › Suction pipe with shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Lockable, spring-supported lid
- › Two gas-pressure springs and 3 handles for simplified lid operation from three sides
- › Continuous, mechanical and easily readable fuel gauge
- › Nozzle holder and return-flow option for safe, secure and clean return flow for drip quantities into the containers
- › Lateral feed-through opening for hose pipes and/or power cables on closed containers
- › Easy and safe to lash down
- › Storage space can still be accessed even when the container is lashed down
- › Auxiliary tank for urea solutions completely integrated into the mobile refuelling station, with fittings and equipment parts securely assembled in the storage box of the QUADRO

### Increased anti-theft protection

- › Storage box with sturdy 3-point safety lock with internally positioned locking cylinder
- › Lockable filling spout
- › Anti-tamper protection on the lateral feed-through opening



Available models

STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Volume Urea solution tank [l]	Approval
	L	W	H			
QUADRO-BLUE 450	1200	1035	942	322	105	D/BAM 15600/1A2W Z-38,12-230
QUADRO-BLUE 770	1200	1035	1322	392	170	D/BAM/15450/31A Z-38,12-230
QUADRO-BLUE 1000 <b>1</b>	1200	1235	1322	431	170	D/BAM/15450/31A Z-38,12-230
QUADRO-BLUE 1800	2400	1200	1188	805	125	D/BAM/16125/31A Z-38,12-223
<b>NEW</b> QUADRO-BLUE 2700 <b>2</b>	2400	1200	1548	915	190	D/BAM/16125/31A Z-38,12-223
<b>NEW</b>						

COMPLETE PACKAGE

Type / Capacity	Description	Flow-rate [l/min]		Item no.
		Nominal <sup>1</sup>	Effective <sup>2</sup>	
QUADRO-BLUE 450-12/24	Complete package equipped with <b>diesel fittings</b> : 12/24 V pump, 6 m connection cable with battery terminals, 6 m hose set with angular swivel joint, automatic discharge nozzle and flow meter PZ300 <b>AdBlue® fittings</b> : Pump 24 V <sup>3</sup> , 6 m connection cable with battery terminals, 6 m hose set with manual nozzle	35/70	30/50	503945
		35	30	
QUADRO-BLUE 450-230	Complete package equipped with <b>diesel fittings</b> : 230 V pump, 6 m connection cable with Schuko plug, 6 m hose set with angular swivel joint, automatic discharge nozzle and flow meter PZ300 <b>AdBlue® fittings</b> : 230 V pump, 2 m connection cable with Schuko plug, 6 m hose set with manual nozzle	56	52	503946
		32	29	
QUADRO-BLUE 770-12/24	Complete package equipped with <b>diesel fittings</b> : Fill limit indicator, 12/24 V pump, 6 m connection cable with battery terminals, 6 m hose set with angular swivel joint, automatic discharge nozzle and flow meter PZ300 <b>AdBlue® fittings (AUS 32)</b> : Pump 24 V <sup>3</sup> , 6 m connection cable with battery terminals, 6 m hose set with manual discharge nozzle	35/70	30/50	503947
		35	30	

Type / Capacity	Description	Flow-rate [l/min]		Item no.
		Nominal <sup>1</sup>	Effective <sup>2</sup>	
QUADRO-BLUE 770-230	Complete package equipped with <b>diesel fittings</b> : Fill limit indicator, 230 V pump, 6 m connection cable with Schuko plug, 6 m hose set with angular swivel joint, automatic discharge nozzle and flow meter PZ300	56	52	503948
	<b>AdBlue® fittings</b> : 230 V pump, 2 m connection cable with Schuko plug, 6 m hose set with manual nozzle	32	29	
QUADRO-BLUE 1000-12/24	like QUADRO-BLUE 770-12/24			503949
QUADRO-BLUE 1000-230	like QUADRO-BLUE 770-230			503950
QUADRO-BLUE 1800-12/24	like QUADRO-BLUE 770-12/24			513569
<b>NEW</b> QUADRO-BLUE 1800-230	like QUADRO-BLUE 770-230			513570
<b>NEW</b> QUADRO-BLUE 2700-12/24	like QUADRO-BLUE 770-12/24			513571
<b>NEW</b> QUADRO-BLUE 2700-230	like QUADRO-BLUE 770-230			513572

1 Indicated nominal power of the manufacturer with free outlet

2 Power detected during the test with a suction height of 1m and equipped with 4 m discharge hose and automatic nozzle

3 The 24 V motor pump can be operated with 12 V.





**Accessories**

Type	Description	Item no.	
AdBlue® tank insulation	105 l: 19 mm thick insulation blanks with all the required cut outs for openings and fittings. For the QUADRO-BLUE 450 AdBlue® tank	48437	
	170 l: 19 mm thick insulation blanks with all the required cut outs for openings and fittings. For the QUADRO-BLUE 770/1000 AdBlue® tank	48436	
Heavy duty AdBlue® tank	Extra sturdy hot dip galvanized cladding on the 170-l AdBlue® tank made of twice as thick 3 mm sheet metal	511892	
Power supply set	The respective power connection cables of the two dispensing pumps are brought together in a junction box, from which a single connection cable is routed for the power supply of both pumps	504998	
230 V heating mat	Self-adhesive heating mat for AdBlue® tanks of the QUADRO-BLUE series in order to protect the AdBlue® from prolonged, extreme minus temperatures	505000	
AdBlue® Premium automatic discharge nozzle	Housing and outlet pipe NW 16 completely made of stainless steel with automatic shut-off of the tank-filling procedure when the tank is full, Connection with ¾" female coupling with swivel joint and connecting nozzle for DN 19 hose. Flow rate up to 40 l/minute	43968	
AdBlue® Basic automatic discharge nozzle	Plastic housing and NW 16 outlet pipe made of stainless steel with automatic shut-off of the tank-filling procedure when the tank is full. With swivel joint and connecting nozzle for DN 19 hose	509707	
EZ24blue	Digital turbine flow meter, not calibratable, for AdBlue®; flow rate: Min. 6 l/min, Max: 100 l/min	98137	
AdBlue® filter	Specially designed, three-stage filter with high efficiency to prevent contamination when dispensing AdBlue® The filter cartridge can be exchanged	505208	
AdBlue® replacement cartridge	Three-stage filter as replacement cartridge for AdBlue® filter	48467	
Security package	5-point security lock with drill-proof locking cylinder utilising hardened steel pins and lever-open protection with a reinforced secured lid		
		For QUADRO DV/-D 330-770	505170
		For QUADRO DV/-D 1000	505173

# DIESEL TANK SYSTEMS

## KC-K



[DIESEL]



### Legally compliant transportation and storage

- › UN approval for an unlimited period as an IBC for transport by road (ADR), by rail (RID) as well as for inland waterway vessels (ADN) and at sea (IMDG Code)
- › Valid general construction approval as a storage container throughout Germany (only KC-K 1000)
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installation and in buildings
- › Utilisation in water protection areas and earthquake areas

### Simple handling, cost-saving and reduced time

- › Transport under simplified conditions without hazardous goods certificate and without special vehicle identification
- › Storage without additional collection tray

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours are possible)
- › Explosion-pressure resistant<sup>1</sup>
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

### Secure and safe transport

- › Ventilation pipe with shut-off ball valve
- › Suction pipe with shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 2 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Lid with retaining device
- › Easy and safe to lash down
- › Storage space can still be accessed even when the container is lashed down
- › Continuous, mechanical and easily readable fuel gauge

### Increased anti-theft protection

- › Liquid-tight storage box welded onto the container with padlock to protect the fittings and high-value dispensing pumps
- › Lockable filling spout

<sup>1</sup> The containers are designed to withstand an explosion on the inside.



Available models

STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Hot dip galvanized
	L	W	H			Item no.
KC-K 500	1300	770	1400	210	D/BAM/0489/31A	81780
KC-K 1000	1440	1020	1700	310	D/BAM/5639/31A \ \ Z-38,12-298	84710

COMPLETE PACKAGE

Type / Capacity	Description	Flow-rate [l/min]		Item no.
		Nominal <sup>1</sup>	Effective <sup>2</sup>	
KC-K 500-12/24	Complete package is equipped with 12/24 V pump, 6 m connection cable and battery terminals, 6 m hose set with angular swivel joint, automatic discharge nozzle valve and flow meter PZ300	35/70	30/50	503716
KC-K 500-230	Complete package is equipped with 230 V pump, 6 m connection cable and Schuko plug, 6 m hose set with angular swivel joint, automatic discharge nozzle valve and flow meter PZ300	56	52	503717
KC-K 1000-12/24	Complete package equipped with fill limit indicator, 12/24 V pump, 6 m connection cable and battery terminals, 6 m hose set with angular swivel joint, automatic discharge nozzle and flow meter PZ300	35/70	30/50	300658
KC-K 1000-230	Complete package equipped with limit indicator, 230 V pump, 6 m connection cable and Schuko plug, 6 m hose set with angular swivel joint, automatic nozzle and flow meter PZ300	56	52	300659

Accessories

Type	Description	Item no.	Price [€]
Return line KC-K	Foldable steel bracket for secure mounting with forwarder	84636	403,-



Pumps, flow meters and additional equipment can be found from P. 59.

1 Indicated nominal power of the manufacturer with free outlet

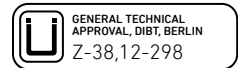
2 Power detected during the test with a suction height of 1m and equipped with 4 m discharge hose and automatic nozzle

# DIESEL TANK SYSTEMS

## KC-S



[DIESEL]



### Legally compliant transportation and storage

- › UN approval for an unlimited period as an IBC for transport by road (ADR), by rail (RID) as well as for inland waterway vessels (ADN) and at sea (IMDG Code)
- › Valid general construction approval as a storage container throughout Germany (only KC-S 1000)
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installation and in buildings
- › Utilisation in water protection areas and earthquake areas

### Simple handling, cost-saving and reduced time

- › Transport under simplified conditions without hazardous goods certificate and without special vehicle identification
- › Storage without additional collection tray

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours are possible)
- › Explosion-pressure resistant<sup>1</sup>
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

### Secure and safe transport

- › Ventilation pipe with shut-off ball valve
- › Suction pipe with shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › One central crane lug for safe crane transporting according to DGUV Information 209-013

### Convenient and safe operation

- › Easy and safe to lash down
- › The swing door cabinet can still be accessed even when the container is lashed down
- › Continuous, mechanical and easily readable fuel gauge
- › Nozzle holder located in swing door cabinet

### Increased anti-theft protection

- › Lockable swing door cabinet for protecting the fittings and high-value dispensing pumps
- › Lockable filling spout

<sup>1</sup> The containers are designed to withstand an explosion on the inside.



Available models

STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Item no.
	L	W	H <sup>1</sup>			
KC-S 500	1300	770	1610	185	D/BAM/0489/31A	81778 + 85971
KC-S 1000	<b>1</b> 1440	1020	1920	265	D/BAM/5639/31A \\ Z-38,12-298	84700 + 85971

COMPLETE PACKAGE

Type / Capacity	Description	Flow-rate [l/min]		Item no.
		Nominal <sup>2</sup>	Effective <sup>3</sup>	
KC-S 500-12/24	Complete package is equipped with swing door cabinet, 12/24 V pump, 6 m connection cable and battery terminals, 6 m hose set with angular swivel joint, automatic discharge nozzle and flow meter PZ300	35/70	30/50	503714
KC-S 500-230	Complete package is equipped with swing door cabinet, 230 V pump, 6 m connection cable and Schuko plug, 6 m hose set with angular swivel joint, automatic discharge nozzle and flow meter PZ300	56	52	503715
KC-S 1000-12/24	<b>1</b> Complete package is equipped with swing door cabinet, fill limit indicator, 12/24 V pump, 6 m connection cable and battery terminals, 6 m hose set with angular swivel joint, automatic discharge nozzle valve and flow meter PZ300	35/70	30/50	300660
KC-S 1000-230	Complete package is equipped with swing door cabinet, fill limit indicator, 230 V pump, 6 m connection cable and battery terminals, 6 m hose set with angular swivel joint, automatic discharge nozzle valve and flow meter PZ300	56	52	300661



Pumps, flow meters and additional equipment can be found from P. 59.

1 Height including swing door cabinet

2 Indicated nominal power of the manufacturer with free outlet

3 Power detected during the test with a suction height of 1m and equipped with 6 m discharge hose and automatic discharge nozzle

# DIESEL TANK SYSTEMS

## KC 995

[DIESEL]



### Legally compliant transportation and storage

- › UN approval for an unlimited period as an IBC for transport by road (ADR), by rail (RID) as well as for inland waterway vessels (ADN) and at sea (IMDG Code)
- › Approved throughout Germany as a storage container according to DIN 6623-2
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installation and in buildings
- › Utilisation in water protection areas and earthquake areas

### Simple handling, cost-saving and reduced time

- › Transport under simplified conditions without hazardous goods certificate and without special vehicle identification
- › Storage without additional collection tray

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours are possible)
- › Explosion-pressure resistant<sup>1</sup>
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

### Secure and safe transport

- › Ventilation pipe with shut-off ball valve
- › Suction pipe with shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › One central crane lug for safe crane transporting according to DGUV Information 209-013
- › Roll bar for protecting the fittings against damage

### Convenient and safe operation

- › Easy and safe to lash down
- › The swing door cabinet can still be accessed even when the container is lashed down
- › Easy to read dipstick for filling level control
- › Nozzle holder located in swing door cabinet

### Increased anti-theft protection

- › Lockable swing door cabinet for protecting the fittings and high-value dispensing pumps
- › Lockable filling spout

<sup>1</sup> The containers are designed to withstand an explosion on the inside.



Available models

STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Item no.	Price [€]
	L	W	H <sup>1</sup>				
KC 995	1270	1270	2122	315	D/BAM/0249/31A DIN 6623-2 with PÜZ	73350 + 85971	3,916,-

COMPLETE PACKAGE

Type / Capacity	Description	Flow-rate [l/min]		Item no.
		Nominal <sup>2</sup>	Effective <sup>3</sup>	
KC 995-12/24	<b>1</b> Complete package is equipped with swing door cabinet, fill limit indicator, 12/24 V pump, 6 m connection cable and battery terminals, 6 m hose set with angular swivel joint, automatic discharge nozzle valve and flow meter PZ300	35/70	30/50	300662
KC 995-230	Complete package is equipped with swing door cabinet, limit indicator, 230V pump, 6 m connection cable and battery terminals, 6 m hose set with angular swivel joint, automatic discharge nozzle and flow meter PZ300	56	52	300663



Pumps, flow meters and additional equipment can be found from P. 59.

1 Height including swing door cabinet

2 Indicated nominal power of the manufacturer with free outlet

3 Power detected during the test with a suction height of 1m and equipped with 6 m discharge hose and automatic discharge nozzle

# DIESEL TANK SYSTEMS

## QUADRO-C-E

[DIESEL]



### Legally compliant transportation

- › UN approval for an unlimited period as an IBC for transport by road (ADR), by rail (RID) as well as for inland waterway vessels (ADN) and at sea (IMDG Code)

### Simple handling, cost-saving and reduced time

- › Transport under simplified conditions without hazardous goods certificate and without special vehicle identification
- › Comparably light tare weight due to single-wall design

### Space saving

- › Fuel container can also be stacked 2-fold when filled

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › Structural protection for corners against damage caused by angled edges and protrusions
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

### Secure and safe transport

- › Ventilation pipe with shut-off ball valve
- › Suction pipe with shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Lockable, spring-supported lid
- › Continuous, mechanical and easily readable fuel gauge
- › Nozzle holder and return-flow option for safe, secure and clean return flow for drip quantities into the containers
- › Lateral opening for hose pipes and/or power cable in case of closed container
- › Easy and safe to lash down
- › Storage space can still be accessed even when the container is lashed down

### Increased anti-theft protection

- › Storage box with 3-point locking system and internally positioned safety locking cylinder
- › Lockable filling spout
- › Anti-tamper protection on the lateral feed-through opening





Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Item no.
	L	W	H			
QUADRO-C-E 700	1215	1000	1025	240	D/BAM/15051/31A	99324
QUADRO-C-E 1000	1215	1000	1280	270	D/BAM/15051/31A	99323



Pumps, flow meters and additional equipment can be found from P. 59.

1 Equipment: R50 230 pump, fill limit indicator

# DIESEL STORAGE TANKS

## CONTY-B

[DIESEL]



### Legally compliant transportation

- › Approved for an unlimited period as packaging for transport by road (ADR), by rail (RID), inland waterway vessels (ADN) and at sea (IMDG Code) as well as in the air (LuftVZO)

### Simple handling, cost-saving and reduced time

- › No recurring inspections and testing
- › Transport under simplified conditions without hazardous goods certificate and without special vehicle identification
- › Low tare weight due to single-wall design

### Space saving

- › Fuel container can also be stacked 2-fold when filled

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours are possible) or made of stainless steel
- › Structural protection of the corners against damage caused by angled edges and protrusions.
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

### Secure and safe transport

- › Ventilation pipe with shut-off ball valve
- › Suction pipe with shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Lockable, spring-supported lid
- › Easy and safe to lash down
- › Storage space can still be accessed even when the container is lashed down
- › Continuous, mechanical and easily readable fuel gauge
- › Nozzle holder to safely hold the automatic discharge nozzle

### Increased anti-theft protection

- › Fittings and pump safely and securely assembled in a storage space with lockable lid
- › Lockable filling spout



**Technical data**

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval
	L	W	H		
CONTY-B 330	800	800	950	110	D/BAM/14374/1A2W
CONTY-B 450	800	800	1150	120	D/BAM/14374/1A2W

**Available models**

**COMPLETE PACKAGE**

Type / Capacity	Pump	Delivery rate [l/min]		Item no.
		Nominal <sup>1</sup>	Effective <sup>2</sup>	
CONTY-B 330-12/24	Complete package is equipped with 12/24 V pump, 6 m connection cable and battery terminals, 6 m hose set with angular swivel joint and automatic discharge nozzle	35/70	30/50	99209
CONTY-B 330-230	Complete package is equipped with 230 V pump, 6 m connection cable and Schuko plug, 6 m hose set with angular swivel joint and automatic discharge nozzle	56	52	99254
CONTY-B 450-12/24	<b>1</b> Complete package is equipped with 12/24 V pump, 6 m connection cable and battery terminals, 6 m hose set with angular swivel joint and automatic discharge valve	35/70	30/50	99192
CONTY-B 450-230	Complete package is equipped with 230 V pump, 6 m connection cable and Schuko plug, 6 m hose set with angular swivel joint and automatic discharge valve	56	52	99193

**Accessories**

**FLOW METERS**

Type	Description	Flow rate [l/min]		Item no.
		Min.	Max.	
PZ300	Mechanical roller flow meter, not calibratable, for fitting to a pump, max. viscosity 500 cSt.	20	120	96359
EZ24	Digital turbine flow meter, not calibratable, for fitting to a nozzle	7	120	96479

**2** Available as an option

**1** Indicated nominal power of the manufacturer with free outlet

**2** Power detected during the test with a suction height of 1 m and equipped with 6 m discharge hose and automatic discharge nozzle

# DIESEL TANK SYSTEMS

## CONTY-ECO

[DIESEL]



### Legally compliant transportation

- › Approved for an unlimited period as packaging for transport by road (ADR), by rail (RID), inland waterway vessels (ADN) and at sea (IMDG Code) as well as in the air (LuftVZO)

### Simple handling, cost-saving and reduced time

- › No recurring inspections and testing
- › Transport under simplified conditions without hazardous goods certificate and without special vehicle identification
- › Low tare weight due to single-wall design
- › Dimensionally adapted for transporting on pick-ups

### Space saving

- › Fuel container can also be stacked 2-fold when filled

### Durable and sustainable

- › Manufactured entirely of steel
- › Untreated inside and powder-coated outside Light grey RAL 7035, Lid: Sapphire blue RAL 5003)

### Secure and safe transport

- › Ventilation pipe with shut-off ball valve
- › Suction pipe with shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Lid with retaining device
- › Easy and safe to lash down
- › Storage space can still be accessed even when the container is lashed down
- › Continuous, mechanical and easily readable fuel gauge
- › Discharge nozzle holder to safely hold the automatic discharge nozzle

### Increased anti-theft protection

- › Fittings and pump safely and securely assembled in a storage space with lockable lid
- › Lockable filling spout



**Technical data**

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval
	L	W	H		
CONTY-ECO 200	1080	800	530	80	D/BAM14969/1A1W
CONTY-ECO 440	1080	800	840	110	D/BAM14969/1A1W

**Available models**

**COMPLETE PACKAGE**

Type / Capacity	Pump	Delivery rate [l/min]		Item no.
		Nominal <sup>1</sup>	Effective <sup>2</sup>	
CONTY-ECO 200-12/24 <span style="color: blue;">2</span>	Complete package is equipped with 12/24 V pump, 6 m connection cable with battery terminals, 4 m hose set with angular swivel joint and automatic discharge nozzle	35/70	30/50	99202
CONTY-ECO 200-230	Complete package is equipped with 230 V pump, 6 m connection cable and Schuko plug, 4 m hose set with angular swivel joint and automatic discharge nozzle	56	52	99203
CONTY-ECO 440-12/24	Complete package is equipped with 12/24 V pump, 6 m connection cable with battery terminals, 4 m hose set with angular swivel joint and automatic discharge nozzle	35/70	30/50	99074
CONTY-ECO 440-230	Complete package is equipped with 230 V pump, 6 m connection cable and Schuko plug, 4 m hose set with angular swivel joint and automatic nozzle	56	52	99207

**Accessories**

Type	Description	Flow rate [l/min]		Item no.
		Min.	Max.	
EZ24 <span style="color: blue;">3</span>	Digital turbine flow meter, not calibratable, for fitting to a nozzle	7	120	96479
PZ300	Mechanical roller flow meter, not calibratable, for fitting to a pump, max. viscosity 500 cSt.	20	120	96359
Fuel gauge "Side Reading"	Fuel gauge with side reading, surcharge			48395
	For CONTY-ECO 200			48396
	For CONTY-ECO 440			300448
Forwarder bracket for CONTY-ECO	Foldable bracket for secure mounting with forwarder			

1 Indicated nominal power of the manufacturer with free outlet

2 Power detected during the test with a suction height of 1 m and equipped with 4 m discharge hose and automatic discharge nozzle

# TANK TRAILER TRAILER



## Simple handling, cost-saving and reduced time

- › Maintenance-free rubber spring axles

## Space saving

- › Wheels on the outside

## Durable and sustainable

- › High-quality hot dip galvanizing on the profiled tube frame
- › Stable floor made of aluminium corrugated plate to accommodate a tank system
- › Walk-on wheel housings made of aluminium sheet metal

## Safety

- › Supporting legs to protect against tipping over when loading the rear end
- › Overrun brake
- › Light system 12 V, according to StVZO (Road Traffic Act)
- › Secure fastening system for tank systems in the QUADRO-DV/-D series from 330 to 1,000 l
- › Approval for travelling up to 100 km/h

## Convenient and safe operation

- › 185 R14C tyres
- › Support wheel, automatically folding
- › Coupling height approx. 450 mm from upper edge of ball



QUADRO-DV/-D/-BLUE fuel containers suitable for the TRAILER can be found on P. 28 – 38.



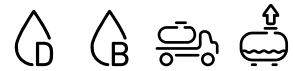
Available models

Type / Capacity	Dimensions [mm]		Loading area [mm]		Permissible total weight [kg]	Axles [quantity]	Support load [kg]	Item no.	
	L	W	L	W					
TRAILER-1	2	3000	1800	1500	1300	1500	1-axle	75	99365
TRAILER-2	1	4000	1800	2500	1300	2000	2-axle	100	99366

Accessories

Type	Description	Item no.
Storage box small	Lockable aluminium box screwed onto V-shaped drawbar	47324
Storage box large	Lockable, rectangular aluminium box (L x W x H: 1000 x 520 x 520 mm)	47325
Towing device	Height-adjustable towing device up to 2000 kg total weight permissible	48575
Anti-swerving coupling WS3000	Dampens the swerving and nodding movement of the trailer to prevent emergency situations, single-lever system for quick coupling with all functions	48576
Hose reel	Hose reel with NW25 x 15 m hose, spring return and outlet window; incl. mounting material and pump connection hose	98044
Charging current set	For charging the supply battery in the QUADRO using the towing vehicle's alternator/ power supply.	516269
Fire extinguisher 6 kg	6 kg fire extinguisher with box and bracket	99371

# TRANSPORT PALLET CANISTRO



[DIESEL & PETROL]



## Legally compliant storage

- › Transport pallet with collection tray according to StawaR (steel tub directive)

## Simple handling, cost-saving and reduced time

- › Transport under simplified conditions without hazardous goods certificate and without special vehicle identification
- › Low tare weight due to single-wall design

## Space saving

- › Transport pallet can also be stacked 2-fold when fully loaded
- › Euro pallet dimensions or half Euro pallet dimensions
- › Two small pallets can be stacked on a large pallet

## Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)

## Secure and safe transport

- › Closed base construction for safe transportation using a forklift or pallet truck
- › 4 lashing lugs
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

## Convenient and safe operation

- › The canisters can be secured against theft with a padlock on the bar system
- › Canisters secured quickly and easily using clamp fasteners on the safety bar
- › Easy and safe to lash down
- › It is possible to remove canisters even when stacked or lashed down
- › Reflecting warning marks on all corners
- › Integrated collection tray according to StawaR with a volume of 68 or 140 l





**Technical data**

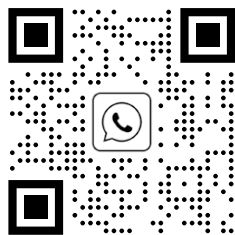
Type / Capacity	Dimensions [mm]			Weight [kg]	Description	Art. Art.
	L	W	H			
CANISTRO 100 <b>NEW</b>	800	600	915	140	5 jerry cans of 20 l each	516028
CANISTRO 220 <b>NEW</b>	1200	800	915	230	11 jerry cans and 1 wide-neck canister of 20 l each	512973

**Accessories**

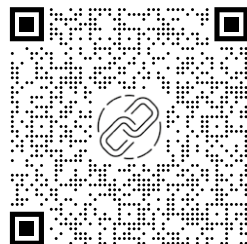
Type	Description	Item no.
Fuel canister 20 l	Jerry can, coated, olive green RAL 6003 Welded design. Secure seal. With split pin securing device. TÜV-/UN-approved. Suitable for liquid fuels. Capacity 20 l; L x W x H 345 x 165 x 468 mm; Weight 4.3 kg	48826
Pouring device for jerry can	For getting fuel and fuel mixtures out of the 20 l steel fuel canister	48827
Tarpaulin	To cover the entire CANISTRO. With zips to make it still possible to use.	48828



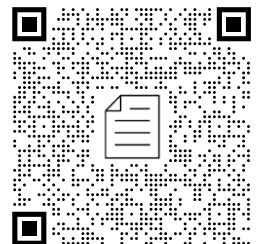
# RIETBERG CONTAINERS SERVICE:



AFTER SALES SERVICE  
USING WHATSAPP



APPLY ONLINE



MAINTENANCE CONTRACT  
CONCLUDE

# EQUIPMENT DIESEL TANK SYSTEMS

Type	Description	Item no.
Fill limit sensor	To prevent container overfilling when filling from a fuel tanker with permanently coupled pipe	
	KC 995, KC-S/-K	97157
	QUADRO-D/-DV, CONTY-B	74146
	QUADRO-AG	97068
Fuel tanker coupling	Filling hole G2" as FT coupling VK/MB 50 with brass chain for safe and quick filling by a tanker vehicle	50609

## Pumps

### ELECTRIC PUMPS FOR DIESEL



Design:

Dry operating self-priming vane pump with integrated bypass valve for protection against pump damage.

Scope of delivery:

Diesel pump with motor, connection cable with battery terminals and/or Schuko plug, 6 m hose set with angular swivel joint and automatic discharge nozzle; including assembly adapter and assembly on Rietberg container ordered with it

Type	Delivery rate [l/min]		Voltage [V]	Special features	Hose	Item no.
	Nominal <sup>1</sup>	Effective <sup>2</sup>				
R50 12	50	30	DC 12	–	NW19	96347
R50 12/24	35/70	30/50	DC 12/24	Can be operated with 12 V as well as with 24 V direct current	NW19	96352
R50 24	50	30	DC 12	–	NW19	96348
R50 230	<b>1</b> 56	52	AC 230	–	NW19	96349
R75 12	<b>2</b> 85	66	DC 12	–	NW25	96354
R75 24	85	66	DC 24	–	NW25	96355
R80 230	70	66	AC 230	–	NW25	96353
R120 230	100	90	AC 230	–	NW25	96478
R200 230	200	180	AC 230	For QUADRO-D 1000	NW32	97441

1 Indicated nominal power of the manufacturer with free outlet

2 Power detected during the test with a suction height of 1m and equipped with 4 m discharge hose and automatic discharge nozzle

TANDEM DIESEL PUMPS PACKAGE<sup>1</sup>

Type	Description	1,- Pump delivery rate [l/min]		2,- Pump Delivery rate [l/min    l/stroke]		Item no.
		Nominal <sup>2</sup>	Effective <sup>3</sup>	Nominal	Effective	
Tandem diesel pump package DC KC-S/995	Manual pump installed in series with a diesel pump with 12/24 V DC motor, 6 m connection cable with battery terminals, 4 m hose set with angular swivel joint, automatic discharge nozzle and mechanical flow meter	35/70	30/50	0.35	–	96729
Tandem diesel pump package AC KC-S/995	Manual pump installed in series with a diesel pump with 230 V alternating current motor, 6 m connection cable with Schuko plug, 4 m hose set with angular swivel joint, automatic discharge nozzle and mechanical flow meter	56	52	0.35	–	96351



Additional pumps, flow meters and other equipment can be found from P. 59.

## MANUAL PUMPS FOR DIESEL



## Design:

Double-acting, reciprocating pump for energy-independent, manual dispensing of small quantities of fuel.

## Scope of delivery:

Manual diesel pump with 4 m hose set (NW 19), angular swivel joint and automatic discharge nozzle (NW 19); including assembly adapter and assembly on Rietberg container ordered with it

Type	Delivery rate [l/stroke]	Hose	Item no.
TP 3	0.35	NW19	505205

## FLOW METERS

## Pump accessories

Type	Description	Flow rate [l/min]		Item no.
		Min.	Max.	
PZ300	Mechanical roller flow meter, not calibratable, for fitting to a pump, max. viscosity 500 cSt.	20	120	96359
EZ24	Digital turbine flow meter, not calibratable, for fitting to a nozzle	7	120	96479
K700	Mechanical, not calibratable oval wheel flow meter for pump R200 230	20	220	97799

1 Indicated nominal power of the manufacturer with free outlet

2 Power detected during the test with a suction height of 1m and equipped with 4 m discharge hose and automatic discharge nozzle

3 The 24 V pump can also be operated with 12 V

FUEL DATA RECORDING FOR DIESEL



Scope of delivery:  
 Blackbox as a control unit with all the necessary supply and signal lines; 6 m connection cable with terminal clamps (12/24 V) or with Schuko plug (230 V); Mechanical level indicator with transducer; Rietberg Smart-Fuel app for Android and iOS; Web-based tank management software; User manual;  
 Total weight 1.8 kg; ABS plastic housing material with dimensions 220 x 80 x 60 mm; Protection type IP 67; Accuracy [l/Min] ± 1 %; including assembly adapter and assembly in Rietberg container ordered with it

Type	Description	Item no.
RSF 12/24	The tank data management system can be operated with both 12/24 V and combined with corresponding dispensing pumps up to a maximum of 30 A. More information and accessories on P. 22	510708
RSF 230	The tank data management system can be operated with 230 V direct current and combined with corresponding dispensing pumps up to a maximum of 30 A. More information and accessories on P. 22	510709

DISCHARGE HOSES

Type / Capacity	Description	Length [m]	Item no.	
			NW19	NW25
Discharge hose	Integration 1" IT / 1" OT	4	39731	97143
		6	39732	97144
		8	45232	97145
		10	45375	97146
Hose set	Electrically conductive hose set for diesel, petrol and urea integrated using 1" internal thread (the first metre includes the screw fittings); hose length according to customer's requirements		31829	83679
		Each additional metre	31829-1	83679-1

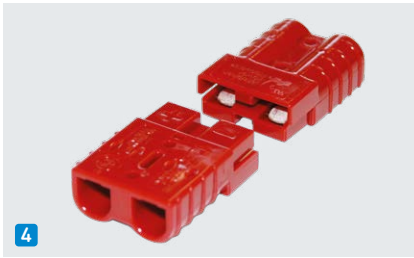
AUTOMATIC DISCHARGE NOZZLES



Type	Flow rate [l/min]	Special features	Outlet	Item no.
ZVA 19	1 60	With axial swivel joint	NW19	44535
ZVA 19 Slimline	2 75	With axial swivel joint	NW19	34435
ZVA 25	120	With axial swivel joint	NW25	39642
ZVA 25 Slimline	140	With axial swivel joint	NW25	37347
ZVA 32 Slimline	200	With axial swivel joint	NW32	45244



DIRECT CURRENT CONNECTIONS (ONLY IN CONNECTION WITH DIESEL PUMPS)



Type	Description	Item no.
GSV I Plug-in connector	4 2 high-current plugs (plug=socket) for fitting on the pump's connection cable and on the vehicle; rated for up to 50 A/24 V, assembly on site or upon request	300188
2P socket	5 2-pin coupling socket made of break-proof metal according to DIN 14690; voltage from 6 – 42 V, max. 30 A, PG screw fitting for cable diameter 6 – 10 mm, with screw cap	48785
2P plug	6 2-pin plug made of break-proof metal according to DIN 14690; voltage from 6 – 42 V, max. 30 A, PG screw fitting for cable diameter 6 – 10 mm	48784
NATO	7 2-pin NATO special plug according to VDA 72593A, voltage 12 – 24 V, rated output 300 A, briefly 1,000 A, metal housing with hard rubber cable protection, junction box and cabling with 5 m cable H07RN-F 2x6 mm <sup>2</sup>	506015
	with 10 m cable H07RN-F 2x6 mm <sup>2</sup>	509213
Jump lead	Adapter NATO special plug on battery terminals, with 1.5 m cable H07RN-F 2x35 mm <sup>2</sup>	44339

FILTER



Type	Description	Item no.
Fuel filter	8 Mounted on the pressure side of a pump for protection against contamination and water, filter mesh (30 µm, max. 65 l/min flow) The flow is blocked if the filter cartridge is fully saturated	73165
Replacement cartridge	Replacement filter cartridge for the fuel filter	39759







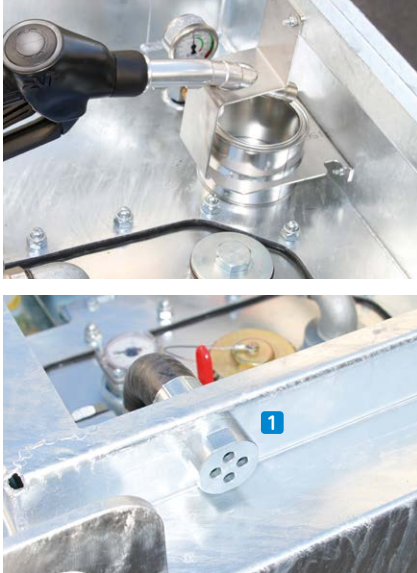
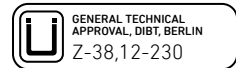
**B PETROL**  
TANK SYSTEMS

# PETROL TANK SYSTEMS

## QUADRO-DV 330



[PETROL]



### Legally compliant transportation and storage

- › Approved for an unlimited period as packaging for transport by road (ADR), by rail (RID), inland waterway vessels (ADN) and at sea (IMDG Code) as well as in the air (LuftVZO)
- › Valid general construction approval as a storage container throughout Germany
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installation and in buildings
- › Utilisation in water protection areas and earthquake areas

### Simple handling, cost-saving and reduced time

- › No recurring inspections and testing
- › Transport under simplified conditions without hazardous goods certificate and without special vehicle identification
- › Storage without additional collection tray

### Space saving

- › Fuel container can also be stacked 3-fold when filled
- › EURO pallet dimensions

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours are possible)
- › Structural protection for corners against damage caused by angled edges and protrusions
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

### Secure and safe transport

- › Ventilation pipe with shut-off ball valve
- › Suction pipe with shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Deflagration arrester in the ventilation pipe and flame arrester in the filling spout prevent a flame from entering
- › Lockable, spring-supported lid
- › Two gas-pressure springs and three grips for simplified lid operation from three sides
- › Continuous, mechanical and easily readable fuel gauge
- › Nozzle holder and return-flow option for safe, secure and clean return flow for drip quantities into the collection container
- › Lateral opening for hose pipes and/or power cable in case of closed container
- › Easy and safe to lash down
- › Storage space can still be accessed even when the container is lashed down

### Increased anti-theft protection

- › Storage box with 3-point locking system and internally positioned safety locking cylinder
- › Also available on request with special 5-point locking system for even more security and anti-theft protection
- › Lockable filling spout
- › Anti-tamper protection on the lateral feed-through opening



QUADRO-DV 330 for petrol are equipped with flame-proof fittings as standard for your safety<sup>1</sup>. This prevents flames, which could trigger an explosion, from entering the containers (German Technical Regulations on Industrial Safety BetrSichV, TRGS and TRBS).

**Technical data**

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval
	L	W	H		
QUADRO-DV 330	1200	800	807	227	D/BAM 15600/1A2W Z-38,12-230



Tank systems for petrol with larger volumes or other additional equipment requirements are available on request.

**Available models**

**COMPLETE PACKAGE**

Type	Description	Delivery rate [l/min    l/stroke]		Item no.
		Nominal <sup>1</sup>	Effective <sup>2</sup>	
QUADRO-DV 330-TPex	Complete package is equipped with a manual pump, 4 m electrically conductive hose set with angular swivel joint, automatic discharge nozzle (NW 16) and flame-proof fittings	0.35	0.35	503706
QUADRO-DV 330-12ex	Complete package is equipped with explosion-protected 12 V pump, 10 m connection cable and battery terminals (for utilisation outside the Ex-area), 4 m electrically conductive hose set with angular swivel joint, automatic discharge nozzle (NW 16) and flame-proof fittings	50	40	503707
QUADRO-DV 330-230ex	Complete package is equipped with explosion-protected 230 V <sup>2</sup> pump, 10 m connection cable and Schuko plug (for utilisation outside the Ex-area), 4 m electrically conductive hose set with angular swivel joint, automatic discharge nozzle (NW 16) and flame-proof fittings	50	45	503708

<sup>3</sup> Fuel filter and counter not included in the scope of delivery

<sup>1</sup> Indicated nominal power of the manufacturer with free outlet

<sup>2</sup> Power detected during the test with a suction height of 1m and equipped with 4 m discharge hose and automatic discharge nozzle



The pumps in the complete packages are suitable for petrol and feature a corresponding explosion protection device. The plugs and battery terminals installed as standard may only be used outside of explosion areas. The Ex-zones must be stipulated by the operator when preparing the risk assessment and explosion protection document. If, in the area of the power supply point, Ex-zones can occur, explosion-protected plugs and sockets must be used, which are approved for the relevant Ex-zone.

## Accessories



Type	Description	Item no.
Power connection (DC) EX	DC plug for utilisation within Ex-zone 1 and 2	<b>1</b> 99400
	DC coupling for utilisation within Ex-zone 1 and 2	<b>2</b> 99401
Power connection (AC) EX	AC plug for utilisation within Ex-zone 1 and 2	<b>3</b> 99397
	AC plug for utilisation within Ex-zone 1 and 2	<b>4</b> 99398

FLOW METERS



Type / Capacity	Description	Flow rate [l/min]		Item no.
		Min.	Max.	
PZ300-ex	<b>5</b> Mechanical, not calibratable, Ex-protected roller flow meter for assembly on a pump	20	120	97149
EZ24-ex	<b>6</b> Digital, not calibratable, Ex-protected turbine flow meter for assembly on a nozzle	7	120	46026



Tank systems for petrol and tandem pumps available on request.

DISCHARGE HOSES & HOSE REELS

Type	Description	NW19
		Item no.
Hose reel	Hose reel, explosion-protected, with 10 m electrically conductive hose NW 19, spring return and outlet window; including fixing material and connection hose to pump	512449
Bracket for petrol hose reel	Hot dip galvanized steel bracket for secure mounting of a hose reel on a QUADRO-DV petrol tank system	300728

FILTER

Type	Description	Item no.
Fuel filter	<b>7</b> Mounted on the pressure side of a pump for protection against contamination and water, filter mesh (30 µm, max, 65 l/min flow) The flow is blocked if the filter cartridge is fully saturated	73165
Replacement cartridge	Replacement filter cartridge for the fuel filter	39759
Grounding package	Earthing clamps for controlled grounding and discharging static charge from containers, for application in areas at risk of explosion, incl. 2.50 m grounding cable, fitted on the container ready for use	500260

# PETROL TANK SYSTEMS

## CONTY-B 330

[PETROL]



### Legally compliant transportation

- › Approved for an unlimited period as packaging for transport by road (ADR), by rail (RID), inland waterway vessels (ADN) and at sea (IMDG Code) as well as in the air (LuftVZO)

### Simple handling, cost-saving and reduced time

- › No recurring inspections and testing
- › Transport under simplified conditions without hazardous goods certificate and without special vehicle identification
- › Low tare weight due to single-wall design

### Space saving

- › Fuel container can also be stacked 2-fold when filled

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside or made of stainless steel (all RAL colours possible)
- › Structural protection of the corners against damage caused by angled edges and protrusions
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

### Secure and safe transport

- › Ventilation pipe with shut-off ball valve
- › Suction pipe with shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Deflagration pipe safety in the ventilation pipe and flame arrester in the filling spout prevent a flame from entering
- › Lockable, spring-supported lid
- › Continuous, mechanical and easily readable fuel gauge
- › Discharge nozzle holder and return-flow option for safe, secure and clean return flow for drip quantities into the collection container
- › Easy and safe to lash down
- › Storage space can still be accessed even when the container is lashed down

### Increased anti-theft protection

- › Fittings and pump safely and securely assembled in a storage space with lockable lid
- › Lockable filling spout
- › Anti-tamper protection on the lateral feed-through opening



CONTY-B 330 for petrol are equipped with flame-proof fittings as standard for your safety. This prevents flames, which could trigger an explosion, from entering the containers (German Technical Regulations on Industrial Safety BetrSichV and TRBS).

Technical data

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval
	L	W	H		
CONTY-B 330	800	800	950	110	D/BAM14374/1A2W

Available models

COMPLETE PACKAGE

Type	Pump	Delivery rate [l/min]		Item no.
		Nominal <sup>1</sup>	Effective <sup>2</sup>	
CONTY-B 330-TPex	Complete package is equipped with a manual pump, 4 m electrically conductive hose set with angular swivel joint, automatic discharge nozzle (NW 16) and flame-proof fittings	0.35 l/stroke	0.35 l/stroke	99073
CONTY-B 330-12ex	Complete package is equipped with explosion-protected 12 V pump, 10 m connection cable and battery terminals (for utilisation outside the Ex-area), 4 m electrically conductive hose set with angular swivel joint, automatic discharge nozzle (NW 16) and flame-proof fittings	50	40	99255
CONTY-B 330-230ex	Complete package is equipped with explosion-protected 230 V pump, 10 m connection cable and Schuko plug (for utilisation outside the Ex-area), 4 m electrically conductive hose set with angular swivel joint, automatic discharge nozzle (NW 16) and flame-proof fittings	50	45	99256



The pumps in the complete packages are suitable for petrol and feature a corresponding explosion protection device. The plugs and battery terminals installed as standard may only be used outside of explosion areas. The Ex-zones must be stipulated by the operator when preparing the risk assessment and explosion protection document. If, in the area of the power supply point, Ex-zones can occur, explosion-protected plugs and sockets must be used, which are approved for the relevant Ex-zone.

Accessories

POWER CONNECTION

Type	Description	Item no.
Power connection (DC)	DC plug for utilisation within Ex-zone 1 and 2	99400
EX	DC coupling for utilisation within Ex-zone 1 and 2	99401
Power connection (AC)	AC plug for utilisation within Ex-zone 1 and 2	99397
EX	AC plug for utilisation within Ex-zone 1 and 2	99398

FLOW METERS


Type / Capacity	Description	Flow rate [l/min]		Item no.
		Min.	Max.	
PZ300-ex	Mechanical, not calibratable, Ex-protected roller flow meter for assembly on a pump	20	120	97149
EZ24-ex	Digital, not calibratable, Ex-protected turbine flow meter for assembly on a nozzle	7	120	46026

1 Indicated nominal power of the manufacturer with free outlet

2 Power detected during the test with a suction height of 1m and equipped with 4 m discharge hose and automatic discharge nozzle







AUS AdBlue®  
TANK SYSTEMS

# ADBLUE® TANK SYSTEMS

## CONTY-BLUE



[ADBLUE®]



### Simple handling, cost-saving and reduced time

- › Low tare weight due to single-wall design
- › Dimensionally adapted for transporting on pick-ups

### Space saving

- › AdBlue® tank system can also be stacked 2-fold when filled

### Durable and sustainable

- › Manufactured entirely of stainless steel
- › Internally and externally pickled stainless steel (lid: coated steel, Sapphire Blue RAL 5003)

### Secure and safe transport

- › Ventilation line
- › Suction line
- › Closed base construction for safe fork-lift truck transportation
- › Easy and safe to lash down
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Easy and safe to lash down
- › Storage space can still be accessed even when the container is lashed down
- › Continuous, mechanical and easily readable fuel gauge
- › Nozzle holder to safely hold the nozzle

### Increased anti-theft protection

- › Fittings and pump safely and securely assembled in a storage space with lockable lid



Urea solution (AUS 32) is neither hazardous goods nor a hazardous substance, but is a liquid hazardous to water of water hazard Class 1 (WGK1).

Urea solution containers for transporting urea solutions (AUS 32) are not subjected to the regulations of the ADR (European Agreement Concerning the International Carriage of Hazardous Goods by Road).



**Technical data**

Type / Capacity	Dimensions [mm]			Weight [kg]
	L	W	H	
CONTY-BLUE 200	1080	800	530	80
CONTY-BLUE 440	1080	800	840	110

**Available models**

**COMPLETE PACKAGE**

Type / Capacity	Pump	Delivery rate [l/min]		Item no.
		Nominal <sup>1</sup>	Effective <sup>2</sup>	
CONTY-BLUE 200-12/24	Complete package is equipped with 24 V <sup>3</sup> pump, 6 m connection cable and battery terminals, 4 m hose set with angular swivel joint and manual nozzle	35	30	506305
CONTY-BLUE 200-230	Complete package is equipped with 230 V pump, 2 m connection cable and Schuko plug, 4 m hose set with angular swivel joint and automatic discharge nozzle	32	29	506304
CONTY-BLUE 440-12/24	Complete package is equipped with 24 V <sup>3</sup> pump, 6 m connection cable and battery terminals, 4 m hose set with angular swivel joint and manual discharge nozzle	35	30	506303
CONTY-BLUE 440-230	Complete package is equipped with 230 V pump, 2 m connection cable and Schuko plug, 4 m hose set with angular swivel joint and automatic discharge nozzle	32	29	506256

**Accessories**

Type	Description	Item no.
EZ24blue	Digital turbine flow meter, not calibratable, for fitting to a nozzle	98137
AdBlue® Premium automatic discharge nozzle	Housing and outlet pipe NW 16 completely made of stainless steel with automatic shut-off of the tank-filling procedure when the tank is full, Connection with ¾" female coupling with swivel joint and connecting nozzle for DN 19 hose. Flow rate up to 40 l/minute	43968
AdBlue® Basic automatic discharge nozzle	Plastic housing and NW 16 outlet pipe made of stainless steel with automatic shut-off of the tank-filling procedure when the tank is full. With swivel joint and connecting nozzle for DN 19 hose.	509707

<sup>1</sup> Similar to illustration

<sup>1</sup> Indicated nominal power of the manufacturer with free outlet

<sup>2</sup> Power detected during the test with a suction height of 1m and equipped with 4 m discharge hose and automatic discharge nozzle

<sup>3</sup> The 24 V motor pump can be operated with 12 V.

# ADBLUE® TANK SYSTEMS

## SIMPLY-BLUE



[ADBLUE®]



### Simple handling, cost-saving and reduced time

- › Low tare weight
- › Dimensionally adapted for transporting on pick-ups

### Space saving

- › AdBlue® tank system can also be stacked 2-fold when filled

### Durable and sustainable

- › On request with hot dip galvanized steel frame construction
- › Structural protection of the corners against damage caused by angled edges and protrusions

### Secure and safe transport

- › Ventilation line
- › Suction line
- › Cut-outs for transportation by forklift truck
- › 4 shackles for safe and secure crane transport according to DGV Information Sheet 209-013

### Convenient and safe operation

- › Lockable lid made of hot dip galvanized steel with 2 gas pressure dampers
- › Continuous, mechanical and easily readable fuel gauge
- › Nozzle holder

### Easy and safe to lash down

- › Storage space can still be accessed even when the container is lashed down
- › Hose channel for neatly winding the hose

### Increased anti-theft protection

- › Fittings and pump safely and securely assembled in a storage space with lockable lid



**Technical data**

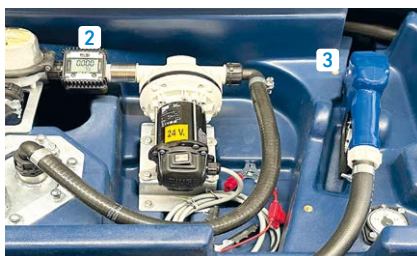
Type / Capacity	Dimensions [mm]			Weight [kg]
	L	W	H	
SIMPLY-BLUE 400	1070	790	740	31

**Available models**

**COMPLETE PACKAGE**

Type / Capacity	Pump	Delivery rate [l/min]		Item no.
		Nominal <sup>1</sup>	Effective <sup>2</sup>	
SIMPLY-BLUE 400-12/24 <b>NEW</b>	Complete package is equipped with 24 V <sup>3</sup> pump, 6 m connection cable and battery terminals, 4 m hose set with manual nozzle, incl. shackles	35/70	30/50	516179
SIMPLY-BLUE 400-230 <b>NEW</b>	Complete package is equipped with 230 V pump, 2 m connection cable and Schuko plug, 4 m hose set with manual discharge nozzle, incl. shackles	56	52	516180

**Accessories**



Type	Description	Item no.
EZ24blue	<b>2</b> Digital turbine flow meter, not calibratable, for AdBlue®; flow rate: Min. 6 l/min, Max: 100 l/min	98137
AdBlue® Basic automatic discharge nozzle	<b>3</b> Plastic housing and NW 16 outlet pipe made of stainless steel with automatic shut-off of the tank-filling procedure when the tank is full. With swivel joint and connecting nozzle for DN 19 hose	509707
Folding cover	<b>4</b> Lockable lid made of hot dip galvanized steel with 2 gas pressure dampers, incl. assembly parts	516360
Stacking corner with crane lug	<b>5</b> 4 stacking corners made of hot dip galvanized steel	506851
Stacking corner/ protective corner with crane lug	4 stacking corners with upright protective corners made of hot dip galvanized steel. Only in conjunction with base construction (Art. No. 506853)	516346
Base construction	<b>6</b> Base pallet made of hot dip galvanized steel	506853

<sup>1</sup> Indicated nominal power of the manufacturer with free outlet

<sup>2</sup> Power detected during the test with a suction height of 1 m and equipped with 4 m discharge hose and automatic discharge nozzle

<sup>3</sup> The 24 V motor pump can be operated with 12 V.

# ADBLUE® TANK SYSTEMS

## QUADRO-PLUS-BLUE

[ADBLUE®]



### Legally compliant transportation and storage

- › UN approval for an unlimited period as an IBC for transport by road (ADR), by rail (RID) as well as for inland waterway vessels (ADN) and at sea (IMDG Code)
- › Valid general construction approval as a storage container throughout Germany
- › Double-walled diesel tank within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installation and in buildings
- › Utilisation in water protection areas and earthquake areas

### Simple handling, cost-saving and reduced time

- › Transport under simplified conditions without hazardous goods certificate and without special vehicle identification
- › Storage without additional collection tray

### Space saving

- › Fuel container can also be stacked 3-fold when filled
- › Pallet dimensions<sup>1</sup>

### Durable and sustainable

- › Made completely of steel with an additional rotated synthetic inner coating
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › Structural protection for corners against damage caused by angled edges and protrusions
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

### Secure and safe transport

- › Ventilation pipe with shut-off ball valve
- › Suction pipe with shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Lockable, spring-supported lid
- › Two gas-pressure springs and three grips for simplified lid operation from three sides
- › Continuous, mechanical and easily readable fuel gauge
- › Nozzle holder with drip pan for safely and neatly collecting drips and spillages
- › Lateral feed-through opening for hose pipes and/or power cables on closed containers
- › Easy and safe to lash down
- › Storage space can still be accessed even when the container is lashed down

### Increased anti-theft protection

- › Storage box with sturdy 3-point safety lock with internally positioned locking cylinder
- › The customer's own, already used locking cylinder can be installed on request
- › 5-point security lock with drill-proof locking cylinder and specially secured lid are optionally available
- › Lockable filling spout
- › Anti-tamper protection on the lateral feed-through opening

<sup>1</sup> 1200 x 800 or 1200 x 1000

<sup>1</sup> Figures are similar

Technical data

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval
	L	W	H		
QUADRO-PLUS-BLUE 330	1200	800	807	219	D/BAM/15450/31A // Z-38,12-230
QUADRO-PLUS-BLUE 450	1200	800	942	238	D/BAM/15450/31A // Z-38,12-230
QUADRO-PLUS-BLUE 770	1200	800	1322	289	D/BAM/15450/31A // Z-38,12-230
QUADRO-PLUS-BLUE 1000	1200	1000	1322	328	D/BAM/15450/31A // Z-38,12-230

Available models

COMPLETE PACKAGE

Type / Capacity	Pump	Delivery rate [l/min]		Item no.
		Nominal <sup>1</sup>	Effective <sup>2</sup>	
QUADRO-PLUS-BLUE 330 12/24	Complete package is equipped with 24 V <sup>3</sup> pump, 2 m connection cable and battery terminals, 4 m hose set with manual nozzle, incl. shackles	35/70	30/50	516091
QUADRO-PLUS-BLUE 330 230	Complete package is equipped with 230 V pump, 2 m connection cable and Schuko plug, 4 m hose set with manual nozzle, incl. shackles	56	52	516094
QUADRO-PLUS-BLUE 450 12/24	See description of QUADRO-PLUS-BLUE 330 12/24	35/70	30/50	511084
QUADRO-PLUS-BLUE 450 230	See description of QUADRO-PLUS-BLUE 330 230	56	52	511012
QUADRO-PLUS-BLUE 770 12/24	See description of QUADRO-PLUS-BLUE 330 12/24	35/70	30/50	516098
QUADRO-PLUS-BLUE 770 230	See description of QUADRO-PLUS-BLUE 330 230	56	52	516096
QUADRO-PLUS-BLUE 1000 12/24	See description of QUADRO-PLUS-BLUE 330 12/24	35/70	30/50	511140
QUADRO-PLUS-BLUE 1000 230	See description of QUADRO-PLUS-BLUE 330 230	56	52	511136

Accessories

Type	Description	Item no.
AdBlue® Premium automatic discharge nozzle	Housing and outlet pipe NW 16 completely made of stainless steel with automatic shut-off of the tank-filling procedure when the tank is full, Connection with ¾" female coupling with swivel joint and connecting nozzle for DN 19 hose. Flow rate up to 40 l/minute	43968
AdBlue® Basic automatic discharge nozzle	Plastic housing and NW 16 outlet pipe made of stainless steel with automatic shut-off of the tank-filling procedure when the tank is full. With swivel joint and connecting nozzle for DN 19 hose	509707
EZ24blue	Digital turbine flow meter, not calibratable, for AdBlue®; flow rate: Min. 6 l/min, Max: 100 l/min	98137
AdBlue® filter	Specially designed, three-stage filter with high efficiency to prevent contamination when dispensing AdBlue® The filter cartridge can be exchanged	505208
AdBlue® replacement cartridge	Three-stage filter as replacement cartridge for AdBlue® filter	48467
Q-PLUS-BLUE heater	Screw-in heater with fixed-position pipe heating element made of stainless steel; control head made of coated aluminium with automatic temperature regulator (preset to 5 degrees); connection cable 0.5 m long; voltage 230 V / 50 Hz, power 500 W	
	For QUADRO-PLUS-BLUE 330	516176
	For QUADRO-PLUS-BLUE 450	516177
	For QUADRO-PLUS-BLUE 770/1000	516037
Security package	5-point security lock with drill-proof locking cylinder utilising hardened steel pins and lever-open protection with a reinforced secured lid	
	For QUADRO DV/-D 330-770	505170
	For QUADRO DV/-D 1000	505173







# TANK SYSTEMS

# OIL TANK SYSTEMS

## QUADRO-OEL



[OILS]



### Legally compliant transportation and storage

- › Approval for an unlimited period as an IBC for transport on the road (ADR), by rail (RID), on inland waterway vessels (AND) and at sea (IMDG Code)
- › Valid general construction approval as a storage container throughout Germany
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installation and in buildings
- › Utilisation in water protection areas and earthquake areas

### Simple handling, cost-saving and reduced time

- › Transport under simplified conditions without hazardous goods certificate and without special vehicle identification is possible
- › Storage without additional collection tray

### Space saving

- › Fuel container can also be stacked 3-fold when filled

### Durable and sustainable

- › Manufactured entirely of steel
- › Untreated on the inside and coated on the outside (RAL 7035 light grey)
- › On request, the containers can also be delivered in the internal and external hot dip galvanized or stainless steel design
- › Structural protection for corners against damage caused by angled edges and protrusions
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

### Secure and safe transport

- › Ventilation pipe with shut-off ball valve
- › Suction pipe with shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Lockable, spring-supported lid
- › Two gas-pressure springs and three grips for simplified lid operation from three sides
- › Continuous, mechanical and easily readable fuel gauge
- › Nozzle holder and return-flow option for safe, secure and clean return flow for drip quantities into the containers
- › Lateral feed-through opening for hose pipes and/or power cables on closed containers
- › Easy and safe to lash down
- › Storage space can still be accessed even when the container is lashed down

### Increased anti-theft protection

- › Storage box with 3-point locking system and internally positioned safety locking cylinder
- › Also available on request with special 5-point locking system for even more security and anti-theft protection
- › Lockable filling spout
- › Anti-tamper protection on the lateral feed-through opening



Additional sizes and designs available on request.



**Available models**

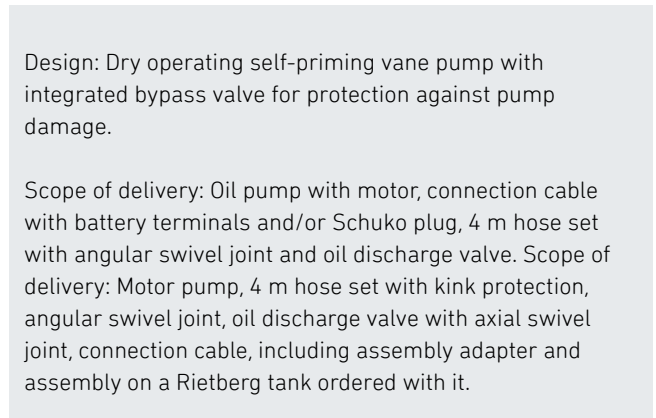
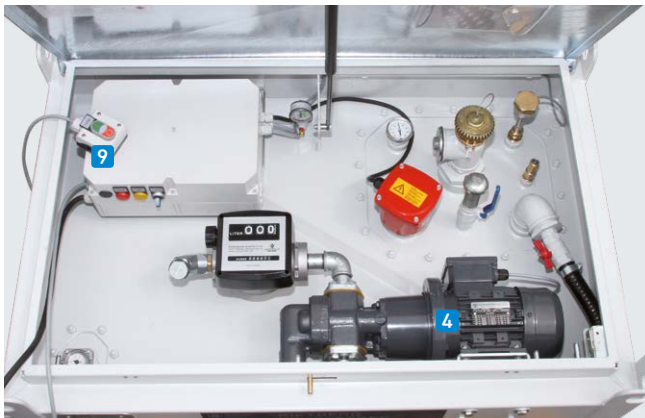
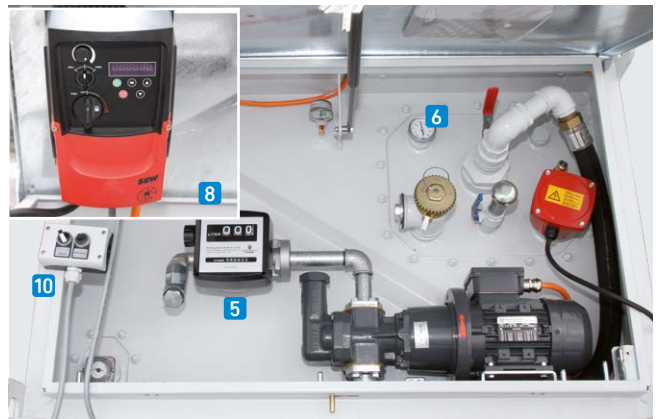
Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Coated
	L	W	H			Item no.
QUADRO-OEL 330	800	1200	807	219	D/BAM/15450/31A // Z-38,12-230	506298
QUADRO-OEL 450	800	1200	942	238	D/BAM/15450/31A // Z-38,12-230	506299
QUADRO-OEL 770	1200	800	1322	289	D/BAM/15450/31A // Z-38,12-230	506301
QUADRO-OEL 1000	1200	1000	1322	328	D/BAM/15450/31A // Z-38,12-230	506302



In order to create an offer, we required a product data sheet for the medium being used, including the viscosity curve at different temperatures.

## Accessories

## PUMPS



Design: Dry operating self-priming vane pump with integrated bypass valve for protection against pump damage.

Scope of delivery: Oil pump with motor, connection cable with battery terminals and/or Schuko plug, 4 m hose set with angular swivel joint and oil discharge valve. Scope of delivery: Motor pump, 4 m hose set with kink protection, angular swivel joint, oil discharge valve with axial swivel joint, connection cable, including assembly adapter and assembly on a Rietberg tank ordered with it.

Type	Flow-rate <sup>1</sup> [l/min]	Max. viscosity [cSt]	Voltage [V]	Description	Hose	Item no.
VZ10/12	10	600	DC 12	Vane pumps	NW19	99406
VZ14/230	<b>1</b> 14	2000	AC 230	Vane pumps	NW19	99407
VZ25/230	<b>2</b> 25	1200	AC 230	Vane pumps, conveying heights up to 4 m	NW19	99408
VZ30/400	<b>3</b> 25	1200	AC 400	Vane pumps, offshore version	NW19	99409
VZ50/400	<b>4</b> 25	5000	AC 400	Vane pumps, offshore version	NW25	99410

<sup>1</sup> Indicated nominal power of the manufacturer with free outlet, can be reduced by installed components such as nozzle, discharge hose, meter etc.

Type	Description	Item no.
Heater QUADRO-OEL	<b>5</b> Heater for oils, automatic temperature regulations and overheating protection, voltage 230 V/50 Hz, surface output < 0,4 W/cm²K	99411
	Power 500 W	510415
	Power 1000 W	510416
	Power 2000 W	
Thermometer	<b>6</b> Analogue thermometer with indicator, display from -20 to +60 °C	99412
Overfill safeguard	<b>7</b> Sub-distribution, protection type IP 54 with measuring transducer, mounted in a small housing in the container. Fully hooked up	99413
Frequency converter	<b>8</b> For regulating the pump output up to 1.5 kW and 230 V	99414
Remote control	On/off, corded, for pump switching <b>9</b>	99415
	On/off with speed regulation, corded, for pump switching with frequency converter up to 1,5 kW and 230 V <b>10</b>	99416
Collision protection	Plastic protectors as a modular system, fitted on the container body	98374
Hose reel QUADRO-OEL	Hose reel made of steel with 8 m hose, protective cover and outlet window and automatic spring return. Fitted horizontally in the container ready for use	99417
PZ300	<b>11</b> Mechanical, not calibratable roller flow meter for assembly on a pump, flow rate: Min. 20 l/min, Max. 120 l/min, max. viscosity 500 cSt.	96359
Extraction pipe DN19	4-m long extraction pipe for extracting diesel with the mobile tank system's dispensing pump from an external tank. Incl. quick couplings and all assembly parts	98814
C4M coating	Complete exterior coating (formation: whetting, 1 x adhesive primer, 1 x top coat) of the container on the hot dip galvanized surface, RAL colour as required; corrosion protection rating C4, protection period M	98787
C5M coating	Complete exterior coating (formation: whetting, 1 x adhesive primer, 2 x top coat) of the container on the hot dip galvanized surface, RAL colour as required; corrosion protection rating C5, protection period M	98785



Flow meters with higher viscosities are available on request.



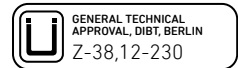
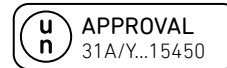


# UNIVERSAL STORAGE TANKS

# UNIVERSAL STORAGE TANKS

## QUADRO-PLUS

[E-FUELS, BIO-DIESEL]



### Legally compliant transportation and storage

- › UN approval for an unlimited period as an IBC for transport by road (ADR), by rail (RID) as well as for inland waterway vessels (ADN) and at sea (IMDG Code)
- › Valid general construction approval as a storage container throughout Germany
- › Double-walled diesel tank within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installation and in buildings
- › Utilisation in water protection areas and earthquake areas

### Simple handling, cost-saving and reduced time

- › Transport under simplified conditions without hazardous goods certificate and without special vehicle identification
- › Storage without additional collection tray

### Space saving

- › Fuel container can also be stacked 3-fold when filled
- › Pallet dimensions

### Durable and sustainable

- › Made completely of steel with an additional rotated synthetic inner coating
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours are possible)
- › Structural protection for corners against damage caused by angled edges and protrusions
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

### Secure and safe transport

- › Ventilation pipe with shut-off ball valve
- › Suction pipe with shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Lockable, spring-supported lid
- › Two gas-pressure springs and three grips for simplified lid operation from three sides
- › Continuous, mechanical and easily readable fuel gauge
- › Nozzle holder and return-flow option for safe, secure and clean return flow for drip quantities into the containers
- › Lateral feed-through opening for hose pipes and/or power cables on closed containers
- › Easy and safe to lash down
- › Storage space can still be accessed even when the container is lashed down

### Increased anti-theft protection

- › Storage box with sturdy 3-point safety lock with internally positioned locking cylinder
- › The customer's own, already used locking cylinder can be installed on request
- › 5-point security lock with drill-proof locking cylinder and specially secured lid are optionally available
- › Lockable filling spout
- › Anti-tamper protection on the lateral feed-through opening





**Available models**

**STANDARD**

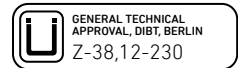
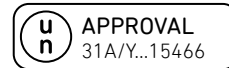
Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Item no.
	L	W	H			
QUADRO-PLUS 330 <b>NEW</b>	1200	800	807	219	D/BAM 15600/1A2W Z-38,12-230	510506
QUADRO-PLUS 450 <b>NEW</b>	1200	800	942	238	D/BAM 15600/1A2W Z-38,12-230	510505
QUADRO-PLUS 770 <b>NEW</b>	1200	800	1322	289	D/BAM/15450/31A Z-38,12-230	510504
QUADRO-PLUS 1000 <b>NEW</b>	1200	1000	1322	328	D/BAM/15450/31A Z-38,12-230	510391

**1** Figures are similar

# UNIVERSAL TANK SYSTEMS

## QUADRO-GREEN

[ETHANOL, METHANOL, ADBLUE® ETC.]



### Legally compliant transportation and storage

- › Approval for an unlimited period as an IBC for transport on the road (ADR), by rail (RID), on inland waterway vessels (AND) and at sea (IMDG Code)
- › Valid general construction approval as a storage container throughout Germany
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installation and in buildings
- › Utilisation in water protection areas and earthquake areas

### Simple handling, cost-saving and reduced time

- › Transport under simplified conditions without hazardous goods certificate and without special vehicle identification is possible
- › Storage without additional collection tray

### Space saving

- › Fuel container can also be stacked 3-fold when filled

### Durable and sustainable

- › Manufactured entirely of steel
- › Diverse materials and material combinations enable a customised tank system to suit your requirements
- › Structural protection for corners against damage caused by angled edges and protrusions

### Secure and safe transport

- › Ventilation pipe with shut-off ball valve
- › Suction pipe with shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Lockable, spring-supported lid
- › Two gas-pressure springs and three grips for simplified lid operation from three sides
- › Continuous, mechanical and easily readable fuel gauge
- › Nozzle holder and return-flow option for safe, secure and clean return flow for drip quantities into the tank system or collection container
- › Lateral feed-through opening for hose pipes and/or power cables on closed containers
- › Easy and safe to lash down
- › Storage space can still be accessed even when the container is lashed down

### Increased anti-theft protection

- › Storage box with 3-point locking system and internally positioned safety locking cylinder
- › Also available on request with special 5-point locking system for even more security and anti-theft protection
- › Lockable filling spout
- › Anti-tamper protection on the lateral feed-through opening



**Technical data**

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Item no.
	L	W	H			
QUADRO-GREEN 330	1200	800	807	219	D/BAM/15466/31A Z-38,12-230	506624
QUADRO-GREEN 450	1200	800	942	238	D/BAM/15466/31A Z-38,12-230	506623
QUADRO-GREEN 770	1200	800	1322	289	D/BAM/15466/31A Z-38,12-230	506622
QUADRO-GREEN 1000	1200	1000	1322	328	D/BAM/15466/31A Z-38,12-230	506140

**Available models**

**MATERIAL VERSIONS**

Designation	Internal wall	External wall
Stainless steel combination	Stainless steel 1.4301, brushed seams	Steel, coated
Stainless steel combination+	Stainless steel 1.4571, brushed seams	Steel, painted
Stainless steel Basic	Stainless steel 1.4301, pickled	Stainless steel 1.4301, pickled
Stainless steel Basic+	Stainless steel 1.4571, pickled	Stainless steel 1.4301, pickled
Stainless steel, Premium	Stainless steel 1.4571, pickled	Stainless steel 1.4571, pickled
Special coating	Additional external painting for a stainless steel container in RAL colour according to customer request (corrosion protection Class C3)	



All sizes and designs available on request.

1 Special model: Tank system (stainless steel Basic) for urea solution (AUS 32) with dispensing unit  
 2 Special model: Tank system (stainless steel Premium) for ethanol



# IMPORTANT LEGAL REGULATIONS FOR MOBILE REFUELLING STATIONS

Transport of hazardous substances, e.g. petrol or diesel, is generally subject to comprehensive national and international regulations.

**National:**

- GGVSEB** Ordinance on the transport of dangerous goods by road, rail and inland waterways
- GGVSee** Ordinance on the transport of dangerous goods by maritime shipping

**International**

- ADR** International agreement on transport of dangerous goods by road
- RID** International agreement on transport of dangerous goods by railway
- ADN** International agreement on transport of dangerous goods by inland shipping
- IMDG code** International agreement on transport of dangerous goods by seagoing vessels

For transport of hazardous substances, type-tested and approved containers like tankers, tank containers and packaging including intermediate bulk containers (IBCs) are generally required. Seppeler Rietbergwerke manufacture tank containers, IBCs and packaging. In terms of their capacity, tank containers are theoretically unlimited; IBCs have a maximum capacity of 3,000 litres and packaging is restricted to a capacity of 450 litres.

As mentioned, the specified regulations are generally applicable. However, there are differences in application depending on the approval of the container and exceptions. Please note that the conditions for safe transport and universal application are only met by approved containers.

To ensure better readability, the term ADR is used in the following to refer to all regulations on transport of hazardous substances. IBCs

# PACKAGING AND IBC

**Approval and type testing**

Whether a container is approved packaging or an approved IBC can be identified clearly by its code



Fig. 1 -1: Example of a name plate on an IBC container

**Example for IBC coding on a Rietberg QUADRO-D 1000:**

UN 31A / Y / 0120 / D / BAM 15450-rietberg / 11800 / 2146

- 1 Manufactured, tested and approved according to UN packaging regulations
- 2 Steel IBC for fluids
- 3 Approved for substances of packaging groups II and III
- 4 Manufacturing month and year
- 5 Country of approval
- 6 Approving institution, approval number and manufacturer
- 7 Test load of the stacking pressure test in kg. "0" is specified here if the IBC is not stackable
- 8 Maximum admissible gross weight in kg

**Example for packaging coding on a Rietberg CONTY-B 450:**

UN 1A2W / Y / 150 / 17 / D / BAM 14373-rietberg

- 1 Manufactured, tested and approved according to UN packaging regulations

- 2 Steel barrel with fixed cover
- 3 Approved for substances of packaging groups II and III
- 4 Test pressure in kPa
- 5 Manufacturing year
- 6 Country of approval
- 7 Approving institution, approval number and manufacturer

In addition to the container, we provide a set of adhesive labels for initial marking. Additionally, a pictogram on the IBC specifies whether the container is stackable or not.

**Marking**

Packaging and IBCs are to be marked as follows according to ADR chapter 5.2:

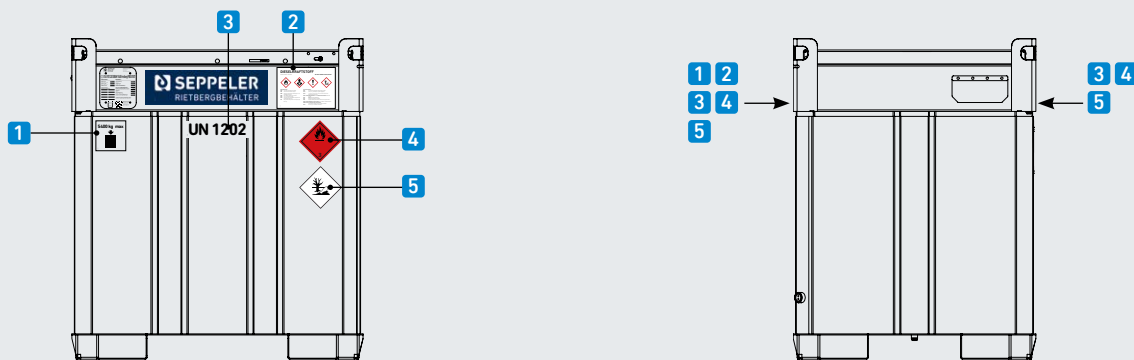
- > The UN no. of the transported substance (e.g. diesel: UN 1202)
- > The marking for environmentally hazardous substances (fish and tree, black on white surface)
- > Hazard label (e.g. diesel: no. 3, flame, black or white on red surface)

The specified markings have to be attached on two opposite sides of IBCs with a capacity of more than 450 litres and on one side of smaller packaging.

Additionally, the containers are to be labelled with substance-related hazard warnings according to GHS.



**Exemplary illustration for the identification marking on an IBC for diesel**



No.	Type	Description	Mobile tank quantity/volume	
			< 450 l	> 450 l
1	UN 1202	UN number for the transported substance (diesel)	1	2
2		Hazard note for "flammable liquid material "(Class 3)	1	2
3		Identification marking for "environmentally hazardous substances"	1	2
4		Hazard information according to GHS (Globally Harmonised System of Classification and Labelling of Chemicals)	1	1
5		Pictogram "cannot be stacked"	1	1
		Pictogram "can be stacked" (permissible stacking load is stated)	1	1



◀ Test place: TÜV approvals by expert assessors; helium leak test for vacuum-sealed welded containers and vessels

**Inspections and testing**

All IBC containers must be subjected to recurring inspections, calculated from the date of the initial (factory) inspection, based on a cycle of 2 ½ years as follows:

**INSPECTION AFTER 2 ½ YEARS**

By a BAM registered inspection agency II, according to BAM-GGR 002 – Part B, Paragraph B 1.2.1, B 2.1 and B 3.1

Scope of inspection:


- › Checking the external condition
- › Checking the identification marking
- › Checking the function of the operating equipment
- › Leak testing with air at 0.2 bar excess pressure


**INSPECTION AFTER 5 YEARS**

By a BAM registered inspection agency I, according to BAM-GGR 002 – Part A, Paragraph A 1.2.1, AB 2.1 and A 3.1

Scope of inspection:

- › Scope of the inspection after 2 ½ years
- › Checking conformity to the design type
- › Internal inspection

 For packaging, no repeat inspections are required.

 Every tested and inspected BIC must correspond to the design type. A test report must be created for every inspection and leakage test. This report must be retained by the owner at least by the time of the next inspection. The inspections can be additionally documented in the service plan.

**Simplified transport**

Under defined conditions, ADR section 1.1.3.6 enables transport of hazardous substances under simplified conditions (without ADR certificate or vehicle marking, etc.) if the specified maximum capacity per transport unit, for example,

Medium	Pack. size	Transp. cat.	Max. capacity
Petrol	II	2	333 litres
Diesel	III	3	1,000 litres

is not exceeded.

If goods with different transport categories are transported in the same unit, the 1000 points rule applies. For determination of the total score, the volumes of transport category 2 are multiplied by a factor of 3 and the volumes of transport category 3 by a factor of 1. For simplified transport, the total score of 1,000 points must not be exceeded. For example:

- › Petrol, II, 2: 150 litres x 3 = 450 points
- › Diesel, III, 3: 500 litres x 1 = 500 points
- › **Total: 950 points**

Even though numerous ADR regulations do not need to be taken into account for simplified transport, a few rules still have to be observed:

- › Marking and labelling (ADR chapter 5.2) must be complete and readable,
- › A 2 kg fire extinguisher (ADR section 8.1.4.1 (a)) must be carried with the container,
- › A shipping document (ADR section 5.4.1) must be carried with the container, and
- › Instructions for those involved according to ADR Section 8.2.3, in connection with chapters 1.3 and 1.10, must be given.

Of course, it is also generally required that the container:

- › is technically intact
- › is tightly sealed during transport and,
- › if prescribed, that repeat inspections have been carried out.

# TRADESPERSON REGULATION

This refers to containers which are used based on the exceptional regulation according to ADR 1.1.3.1 c), the so-called "tradesperson regulation".

ADR defines various exemptions and exceptional regulations, among others those in connection with the way transportation is carried out. For instance, according to subsection 1.1.3.1 c), the provisions of ADR do not apply to "transportation of goods which is carried out by companies in connection with their main activity". At the same time, however, direct "internal or external supply operations" are excluded from this exemption.

### What does that mean?

The implementing directives for hazardous goods (RSEB) provide annotations on the ADR and the following definition on subsection 1.1.3.1 c):

#### Paragraph 1-6.1

Exempted is transportation of goods for direct use, e.g.

- > Paint in the vehicle of a painter
- > Oxygen or acetylene cylinders in the vehicle of a welder
- > Fuel for filling lawn mowers in the vehicle of a municipal employee

#### Paragraph 1-6.2

Intermediate supplies for tank systems do not fall under the

exemption regulation of subsection 1.1.3.1 c).

Therefore, one precondition for making use of the so-called "tradesperson regulation" is that the fuel (ideally together with the machine) is transported directly in order to be consumed directly, while only residual quantities are transported back again.

The "tradesperson regulation" does not include transportation of goods for distribution purposes, e.g. the supply of multiple machines on different construction sites (supply trips) as well as trips to the next fuelling station (intermediate supplies).

However, the "tradesperson regulation" also indicates that containers can be used which are neither type-tested nor UN-approved.



Notes on the use of the different container types can be found on page 96.

# STATIONARY USAGE

Mobile refuelling stations which are operated in one place for a specific operational purpose for a period of more than six months are regarded as stationary. They are then subject to the regulations of the German directive on equipment used to handle substances hazardous to water (AwSV).

# WAYBILL

### What is a waybill?

A waybill is nothing more than a delivery note, which must, however, feature the following mandatory information according to ADR section 5.4.1.

The waybill is not bound to any layout and the position and order of the information may be freely selected.

The information on a), b), c), d) and k), however, must be specified in this order without any additional information, i.e. for diesel:

UN 1202 DIESEL FUEL, 3, III, (D/E)

Mandatory details	E.g. diesel
a) The UN number of the substance,	[UN 1202]
b) The official designation of the substance,	[Diesel fuel]
c) The number of the hazard label/hazardous goods class,	[3]
d) The packing group of the substance,	[III]
e) Number and description of the transported item,	[1 IBC]
f) The total quantity of hazardous goods,	[950 litres]
g) The name and address of the sender,	[Civil engineering company]
h) The name and address of the recipient,	[Civil engineering company – construction site X]
i) A declaration according to the provisions of a special agreement, (Naturally, this is only required if this is in fact the case!)	[Transport without exceeding the permitted limits defined in subsection 1,1,3,6]
j) --- (not specified in current ADR)	
k) The (if assigned) tunnel restriction code,	[D/E]

# MOBILE REFUELLING STATIONS FUELLING ANYWHERE AND AT ANY TIME!

Mobile fuel systems are essential for the fuelling of machinery and power units these days. Independent of the location: whether on construction sites, during forestry work, on fields or in stone quarries, fuelling of machinery and equipment should be possible quickly and safely on site. Rietberg steel tank systems offer the best possible levels of safety and flexibility for this purpose and thus contribute to minimising downtimes. This saves time and money.

All Rietberg tank systems are type-tested and approved as IBCs or packaging for hazardous goods transportation with all transport modes. Thus, they can be transported under "simplified conditions" according to ADR 1.1.3.6. Therefore, a maximum of

1000 litres of diesel or 333 litres of petrol can be transported without the driver holding an ADR certificate. For the vehicle, no marking as hazardous goods transport is required and no hazardous goods equipment is to be kept on board. For type-tested IBCs and steel packages, additionally, there is no time limitation for use. Furthermore, Rietberg tank systems are also approved for the storage of fuels.

A specific benefit of packaging is that, for such containers, no repeated testing is necessary. Thus, no subsequent costs are incurred.

Different options exist for fuelling construction machinery and equipment directly on site. The tanks offered for this purpose

are **either**

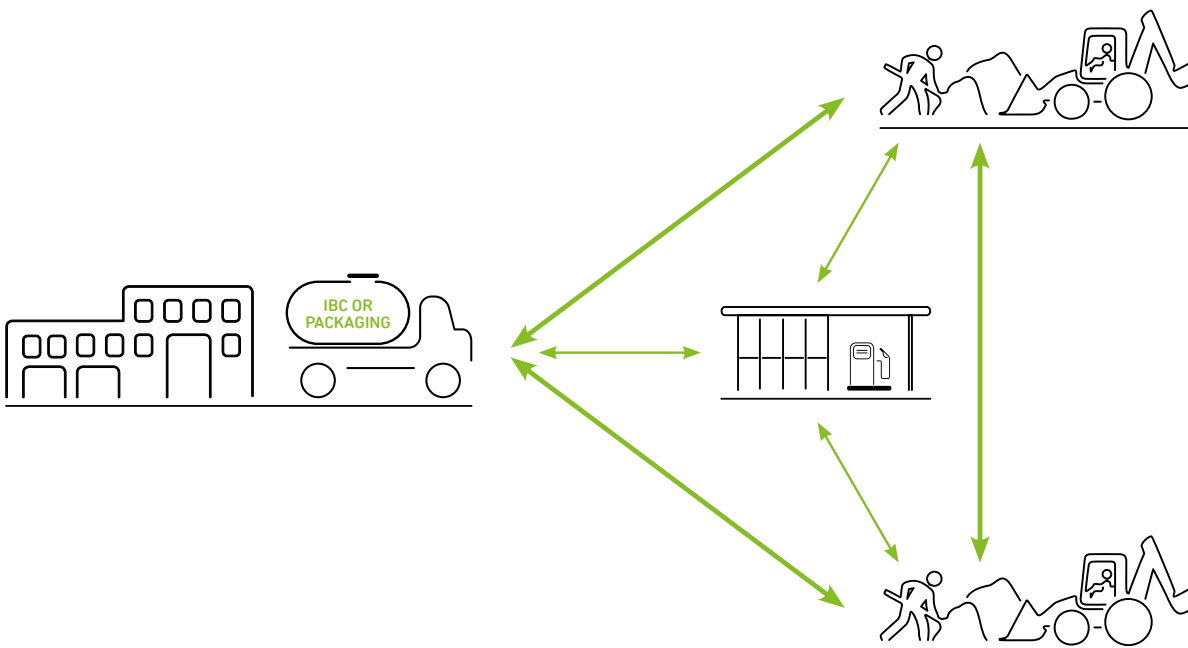
- > made of steel like all Rietberg tank systems and type-tested and have a UN approval as IBCs (code:UN 31A...) or packaging (code UN 1A1 or 1A2...), i.e. transport containers for hazardous goods and can therefore be used **universally and without any time limits or**
- > they are type-tested and UN approved plastic IBCs (code: UN 31H) or combination IBCs (steel sheet with internal

plastic container, code:UN 31HZ), i.e. transport containers for hazardous goods and can therefore also be used **universally but with a time limit of a maximum of 5 years or**

- > they are used based on the ADR exceptional regulation 1.1.3.1c, also known as so-called "tradesperson regulation", but are not type-tested and do not have any approval and may therefore only be used to a very limited extent.

All Rietberg tanks systems with approval as **IBCs or packaging** can be universally utilised and may therefore be used for all operations which might be necessary for mobile fuelling. Neither the supply of multiple construction sites nor the drive to

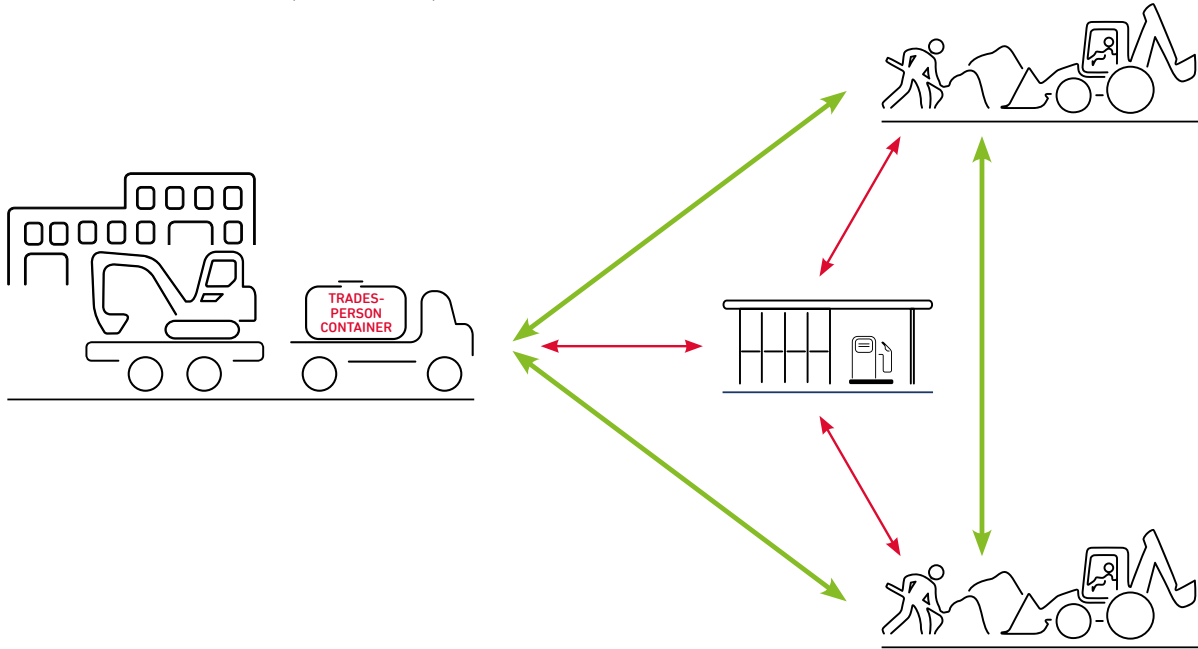
the next service station to get new fuel are a problem any more. Type-tested and approved containers are always secure from a technical and legal aspect and always guarantee "free" transit.





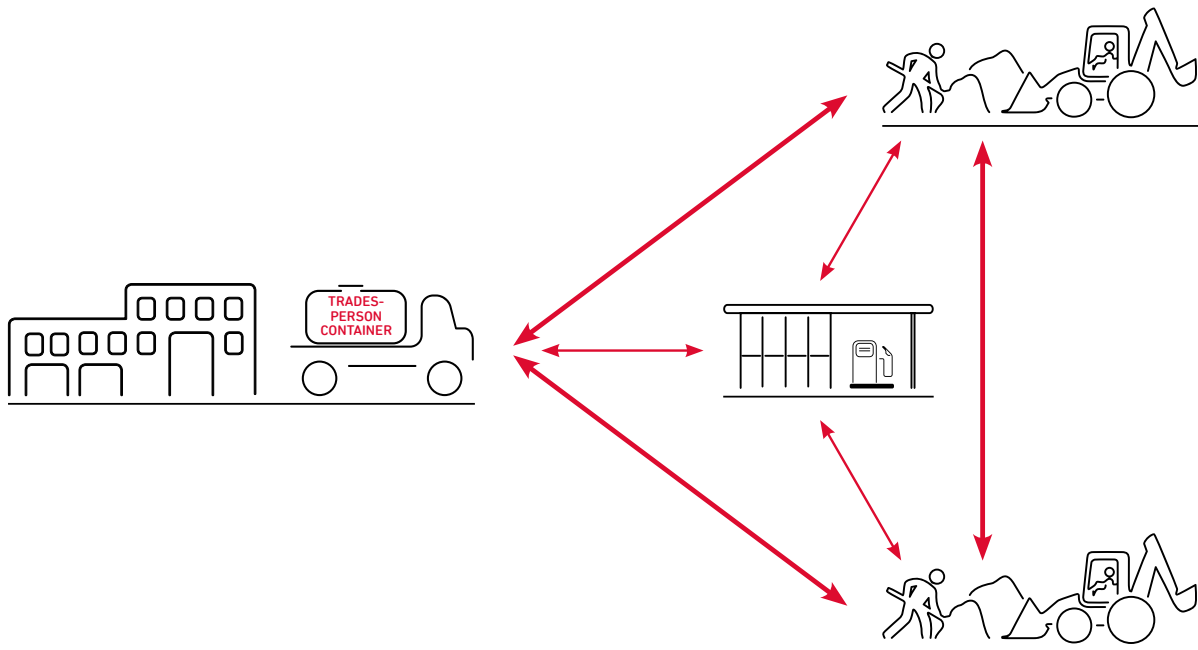
Containers according to the so-called tradesperson regulations have not been officially tested and do **not** have **UN transport approval**. Their use for the transport of hazardous substances is only permitted within the scope of the exemption rule ADR 1.1.3.1 c). There is an exception for companies which, in con-

nection with their main company activity, carry small quantities of hazardous substances with them for direct consumption. However, the transport of hazardous substances for the internal or external supply of a company is **not permitted!**



Since it can be difficult to distinguish and prove that the transport is permitted under ADR 1.1.3.1 c) in contrast to the prohibited internal supply trips, we recommend that the machine be refuelled in the immediate vicinity of the transport vehicle. This

only applies to the direct route between the depot and the construction site(s). Any travel to the next service station is prohibited.



**MOBILE FUELLING IS NOT DIFFICULT IF DONE RIGHT!**



Further legal framework conditions for mobile refuelling stations can be found starting on this p. 92.

Heating and ventilation equipment or generators can be found on construction sites and in industrial plants but also during any type of events. Heating and ventilation equipment and generators can be used for a multitude of purposes, such as the heating of construction sites in winter or of festival tents, for ventilating and drying construction sites or for maintaining the energy supply.

The function of these power units depends on the secure fuel supply. Rietberg tank systems containers of the QUADRO-AG/-TA and KC-AG series are a professional solution for this type of use.

As admissible transport containers for hazardous goods, they can be transported securely and unrestrictedly to the location of use at all times – even when filled – according to ADR 1.1.3.6, up to a quantity of maximally 1000 litres under simplified conditions.

Therefore, the driver does not need a hazardous goods certificate and the vehicle does not have to be marked as transport of hazardous goods.

Additionally, the containers are admissible as storage containers and can thus remain on site, even outdoors, without any problems. Collection trays and similar equipment are not required since the containers are double-walled.

In case of plastic or combination IBCs, use is restricted to a maximum of 5 years. Rietberg QUADRO-AG /-TA and KC-AG are completely made of steel and therefore are not subject to any restriction of the period of use. A Rietberg tank system is a sustainable product which can be used for decades.



03

# MOBILE SUPPLY TANKS



# HEATING OIL SUPPLY TANKS

## QUADRO-AG

[DIESEL]



### Legally compliant transportation and storage

- › Approval for an unlimited period as an IBC for transport on the road (ADR), by rail (RID), on inland waterway vessels (AND) and at sea (IMDG Code)
- › Valid general construction approval as a storage container throughout Germany
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installation and in buildings
- › Utilisation in water protection areas and earthquake areas

### Simple handling, cost-saving and reduced time

- › Transport under simplified conditions without hazardous goods certificate and without special vehicle identification
- › Storage without additional collection tray

### Space saving

- › Fuel containers can also be stacked 3-fold (up to 1,000 l) or 2-fold (1,800 – 3,000 l) when filled.

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, painted on the outside (all RAL colour shades are possible)
- › Structural protection for corners against damage caused by angled edges and protrusions

### Secure and safe transport

- › Ventilation pipe with shut-off ball valve
- › Suction pipe with 1/2" male fitting shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Lateral opening for hose pipes and/or power cable in case of closed container
- › Easy and safe to lash down
- › Storage space can still be accessed even when the container is lashed down
- › Continuous, mechanical and easily readable fuel gauge
- › 1/2" male connection for return flow pipe
- › Large storage space with sufficient room for hose pipes or other accessory parts

### Increased anti-theft protection

- › Lockable lid
- › Lockable filling spout
- › Anti-tamper protection on the lateral feed-through opening



Available models

STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Volume Urea tank [l]	Approval	Description	Item no.
	L	W	H					
QUADRO-AG 1000 <b>1</b>	1000	1200	1229	289	-	D/BAM/15450/31A Z-38,12-230	-	503709
QUADRO-AG 1800 <b>NEW</b>	2400	1200	1188	805	125	D/BAM/16125/31A Z-38,12-223	With integrated AdBlue® tank	514082
QUADRO-AG 2000 <sup>1</sup> <b>NEW</b>	2400	1200	1188	730	-	D/BAM/16125/31A Z-38,12-223	-	513574
QUADRO-AG 2700 <b>NEW</b>	2400	1200	1548	915	190	D/BAM/16125/31A Z-38,12-223	With integrated AdBlue® tank	513575
QUADRO-AG 3000 <b>NEW</b>	<b>2</b> 2400	1200	1548	840	-	D/BAM/16125/31A Z-38,12-223	-	513054



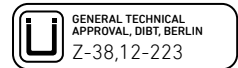
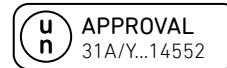
Accessories can be found on P. 104.

1 QUADRO-AG 2000 with dimensions (L x W x H) 2215 x 815 x 1620 mm can be found on P. 102

# HEATING OIL SUPPLY TANKS

## QUADRO-AG 2000

[DIESEL]



### Legally compliant transportation and storage

- › Approval for an unlimited period as an IBC for transport on the road (ADR), by rail (RID), on inland waterway vessels (AND) and at sea (IMDG Code)
- › Valid general construction approval as a storage container throughout Germany
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installation and in buildings
- › Utilisation in water protection areas and earthquake areas

### Simple handling, cost-saving and reduced time

- › Storage without additional collection tray
- › Larger volume for purchasing fuel at cheaper prices

### Space saving

- › Stacking capable in filled condition in connection with the stacking corner set

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, painted on the outside (all RAL colour shades are possible)
- › Structural protection for corners against damage caused by angled edges and protrusions

### Secure and safe transport

- › Ventilation pipe with shut-off ball valve
- › Suction pipe with 1/2" male fitting shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 1 central crane lug for safe crane transporting according to DGUV Information 209-013

### Convenient and safe operation

- › Lateral opening for hose pipes and/or power cable in case of closed container
- › Lockable lid with 2 gas pressure springs for simple lid operation
- › Easy and safe to lash down
- › Storage space can still be accessed even when the container is lashed down
- › Continuous, mechanical and easily readable fuel gauge
- › Fill limit sensor for preventing overfilling the container when filling from a fuel tanker with permanently coupled pipe

### Increased anti-theft protection

- › Lockable lid
- › Lockable filling spout
- › Anti-tamper protection on the lateral feed-through opening



**Available models**

**STANDARD**

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Item no.
	L	W	H			
QUADRO-AG 2000	2215	815	1620	629	D/BAM/14552/31A Z-38,12-223	98193

**Accessories**

Type	Description	Item no.
Stacking corners set	Stacking corners for creating stacking capability for QUATRO-AG 2000. Filled QUADRO-AH 2000 containers can be stacked 2-fold by utilising the stacking corner kit	97761



Accessories can be found on P. 104.

## Accessories for heating oil supply tanks of the QUADRO-AG module



Type	Description	Item no.
Fill limit indicator	<b>1</b> Fill limit indicator for preventing overfilling the container when filling from a fuel tanker with permanently coupled pipe	97068
Q-AG Heater	<b>2</b> Screw-in heater with fixed-position pipe heating element made of stainless steel; Control head made of coated aluminium with automatic temperature regulator (heats up at liquid temperature of approx. 5 °C) and temperature limiter as protection against overheating (set at 45 °C); connection cable 0,5 m long; incl. LED display; Voltage 230 V / 50 Hz, power 500 W For QUADRO-AG 1000	503718
	For QUADRO-AG 1800/2000	48831
	For QUADRO-AG 2000 (L x W x H) 2215 x 815 x 1620 mm	46049
	For QUADRO-AG 2700/3000	503740
3/8" siphon protection	<b>3</b> Adjustable siphon protection valve, 0.05 - 0.4 bar, 3/8"; maximum flow rate 220 l/h, It prevents the unintended discharge of the container; max, installation height 4 m above floor level	97612
Suction line & return line	Special dome lid with additional suction pipe with 1/2" male fitting shut-off stop cock and additional return pipe with 1/2" male fitting shut-off stop cock	508532



HOSE LINE SETS



Type	Description	Length [m]	Item no.
Hose set NW 8	1 Consisting of a 5.0 m hose DN 8x4, metal mesh-coated, with coupling sleeve on one end and a coupling plug (1/2", NW 7.4, compatible with Rectus 26) on the other end	5	98788
Hose set NW 8 "any length"	Consisting of a hose DN 8x4, metal mesh-coated, with coupling sleeve on one end and a coupling plug (1/2", NW 7.4, compatible with Rectus 26) on the other end	1st metre each additional metre	98790 98790-1
1/2" coupling set "RECTUS"	2 Each consisting of 1 coupling sleeve and coupling plug (1/2", NW 7.4, compatible with Rectus 26)	-	98792
Hose set NW 13	3 Consisting of a 5.0 m "Gelbring" high pressure hose DN 13x4.5 with a coupling sleeve on one end and a coupling plug (1/2", NW 12.5, non-drip) on the other end	5	98789
Hose set NW 13 "any length"	Consisting of a "Gelbring" high pressure hose DN 13x4.5 with a coupling sleeve on one end and a coupling plug (1/2", NW 12.5, non-drip) on the other end	1st metre each additional metre	98791 98791-1
1/2" coupling set non-drip	4 Each consisting of 1 coupling sleeve and 1/2", NW 12.5, non-drip coupling plug	-	98793
Twin hose set	5 Consisting of a 5 m hose DN 8x4, metal mesh-coated, on one side with coupling sleeve, on the other side with coupling plug (1/2", NW 7.4, compatible with Rectus 26); routed in a transparent protective hose to collect fuel in case of leakage	5	505759

# HEATING OIL SUPPLY TANKS

## KC-AG

[DIESEL]



### Legally compliant transportation and storage

- › Unlimited time approval as a tank container for transport on the road (ADR)
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Utilisation in water protection areas and earthquake areas

### Simple handling, cost-saving and reduced time

- › Corner fittings correspond to the basic surface area of a 10' or 20' ISO container for secure and simple securing onto the vehicle (optional)

### Space saving

- › Empty tank system with top protection frame, can be stacked 1-fold (KC-AG 5500-3 and KC-AG 11500)

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)

### Secure and safe transport

- › Ventilation pipe with certified shut-off ball valve
- › Suction pipe with certified shut-off ball valve
- › Safety valve for preventing excess pressure in container (response pressure 1.5 bar)
- › Closed base construction for safe fork-lift truck transportation
- › 1 central crane lug (KC-AG 5500) and/or 2 crane lugs (KC-AG 11500) for safe crane transport according to DGUV Information 209-013

### Convenient and safe operation

- › Lateral opening for hose pipes and/or power cable in case of closed container
- › Lockable lid with adjusting lever for simple lid operation
- › Storage space can still be accessed even when the container is lashed down
- › Access ladder with operating platform
- › Fill limit sensor for preventing overfilling the container when filling from a fuel tanker with permanently connected filling pipe
- › Continuous, mechanical and easily readable fuel gauge
- › Connection for a return flow pipe

### Increased anti-theft protection

- › Lockable lid
- › Lockable filling spout
- › Anti-tamper protection with lateral feed-through opening



Available models

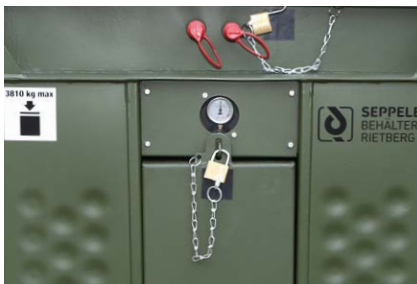
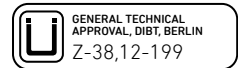
Type / Capacity	Description	Dimensions [mm]			Weight (kg)	Approval	Item no.
		L	W	H			
KC-AG 5500-1	1 Cannot be stacked, ladder on the side or front	2940	1900	2120	1600	D/BAM/1710/TC	77660
KC-AG 5500-2	2 Cannot be stacked, ladder on the side, ISO corner fittings	2991	2438	2210	1900	D/BAM/1710/TC	77661
KC-AG 5500-3	3 Can be stacked, top protection frame with integrated ladder and platform, ISO corner fittings	2991	2438	2360	2300	D/BAM/1710/TC	97841
KC-AG 11500 <b>NEW</b>	4 Can be stacked, top protection frame with integrated ladder and platform, ISO corner fittings	6060	2440	2355	3700	S-K2108839/TC	510146

Accessories

Type	Description	Item no.
KC-AG heater	Screw-in heater with fixed-position pipe heating element made of stainless steel; Control head made of coated aluminium with automatic temperature regulator (heats up at liquid temperature of approx. 5 °C) and temperature limiter as protection against overheating (set at 45 °C); connection cable 0,5 m long; Voltage 230 V / 50 Hz, power 500 W	48358
¾" siphon protection valve	Adjustable siphon protection valve, 0.05 - 0.4 bar, ¾"; maximum flow rate 220 l/h, It prevents the unintended discharge of the container; max. installation height 4 m above floor level	97612
1¼" siphon protection valve	Adjustable 0.15 to 0.30 bar siphon protection valve, 1¼" port; prevents unintended discharge of the container; max. installation height 3 m above floor level	50605

# UNIVERSAL SUPPLY TANK QUADRO-TA 700

[PETROL, DIESEL & KEROSENE]



## Legally compliant transportation and storage

- › Approval for an unlimited period as an IBC for transport on the road (ADR), by rail (RID), on inland waterway vessels (AND) and at sea (IMDG Code)
- › Valid general construction approval as a storage container throughout Germany
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installation and in buildings
- › Utilisation in water protection areas and earthquake areas

## Simple handling, cost-saving and reduced time

- › Transport under simplified conditions without hazardous goods certificate and without special vehicle identification. Diesel / heating oil up to maximum 1,000 l, petrol up to maximum 333 l per vehicle
- › Storage without additional collection tray

## Space saving

- › Fuel container can also be stacked 3-fold when filled

## Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › On request, can be delivered with additional paintwork on galvanized surface
- › Structural protection of the corners against damage caused by angled edges and protrusions.

## Secure and safe transport

- › Ventilation pipe with shut-off ball valve
- › 2 DN 10 suction pipes with shut-off ball valves and foot valves
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013
- › 4 lashing lugs for load securing

## Convenient and safe operation

- › Liquid-tight storage box with divided equipment compartment
- › Lockable, spring-supported lid with integrated document compartment
- › Fold-out storage compartment in the recess on the front of the container for hose packages or other accessories
- › Easy and safe to lash down
- › The storage box and storage compartment can also be accessed on a lashed down container
- › Double-walled sump cup on container base for optimum emptying of container residue
- › Continuous, mechanical and easily readable fuel gauge
- › 2 drip-free coupling connectors on the suction pipes
- › 2 G 2" reserve collars for attaching optional accessories, such as a tank heater
- › Earth connection according to VG 96953-9

## Increased anti-theft protection

- › Lockable lid
- › Lockable storage compartment
- › Lockable filling spout
- › Anti-tamper protection on the lateral feed-through opening

Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Hot dip galvanized
	L	W	H			Item no.
QUADRO-TA 700	1200	800	1300	400	D/BAM 11336/31A // Z-38,12-199	300602



Minimum order quantity 25 units

Accessories

Type	Description	Item no.	Price [€]
Flame-proof fittings QUADRO-TA	Consisting of a special filling tube with flame arrester and deflagration arrester for the ventilation line to protect against a flame from entering; required for use as a storage container for media with a flash point below 55 °C	98784	712,-
Q-TA heater	Screw-in heater with fixed-position pipe heating element made of stainless steel; Control head made of coated aluminium with automatic temperature regulator (heats up at liquid temperature of approx. 5 °C) and temperature limiter as protection against overheating (set at 45 °C); connection cable 0.5 m long; Voltage 230 V / 50 Hz, power 500 W	47881	603,-
NW 8 hose line set	Consisting of 2 hoses each 9.0 m long, NW 8x2, metal mesh-coated, with coupling on one end and plug nipple on the other end, NW 9, non-drip (FIRG 38, 3/8" port), including dust protection caps	74705	368,-
Heating oil bleeder	Fully fitted with the necessary connection lines and couplings or plug nipples for application in combination with hose line set, art, no, 74705	74709	418,-
Transport bag	For secure storage of 1 hose of the hose line kit art. no. 74705 and the fuel oil bleeder art. no. 74709	42015	110,-
Water absorber/ environmental protection kit	Water absorber consisting of screen cylinder for the absorber pad, suspension chain and sealing plug, 10 water absorber pads, PE bag for disposal; Environmental protection kit consisting 2 oil binding agent cloths with PE bag for disposal	98799	240,-
C4M coating	Complete exterior coating (formation: whetting, 1 x adhesive primer, 1 x top coat) of the container on the hot dip galvanized surface, RAL colour as required; corrosion protection rating C4, protection period M	98787	837,-
C5M coating	Complete exterior coating (formation: whetting, 1 x adhesive primer, 2 x top coat) of the container on the hot dip galvanized surface, RAL colour as required; corrosion protection rating C5, protection period M	98785	1,165,-



## IMPORTANT LEGAL REGULATIONS FOR MOBILE TANKS

Transport of hazardous substances, e.g. petrol or diesel, is generally subject to comprehensive national and international regulations.

### National:

- GGVSEB** Ordinance on the transport of dangerous goods by road, rail and inland waterways
- GGVSee** Ordinance on the transport of dangerous goods by maritime shipping

### International

- ADR** International agreement on transport of dangerous goods by road
- RID** International agreement on transport of dangerous goods by railway
- ADN** International agreement on transport of dangerous goods by inland shipping
- IMDG code** International agreement on transport of dangerous goods by seagoing vessels

For transport of hazardous substances, type-tested and approved containers like tankers, tank containers and packag-

ing including intermediate bulk containers (IBCs) are generally required. Seppeler Rietbergwerke manufacture tank containers, IBCs and packaging. In terms of their capacity, tank containers are theoretically unlimited; IBCs have a maximum capacity of 3,000 litres and packaging is restricted to a capacity of 450 litres.

As mentioned, the specified regulations are generally applicable. However, there are differences in application depending on the approval of the container and exceptions. Please note that the conditions for safe transport and universal application are only met by approved containers.

To ensure better readability, the term ADR is used in the following to refer to all regulations on transport of hazardous substances. IBCs

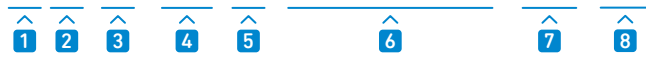
# IBC

## Approval and type testing

Whether a container is approved packaging or an approved IBC can be identified clearly by its code.

### Example for IBC coding on a Rietberg QUADRO-AG 1000:

UN 31A / Y / 0120 / D / BAM 15450-rietberg / 11800 / 2146



- 1 Manufactured, tested and approved according to UN packaging regulations
- 2 Steel IBC for fluids
- 3 Approved for substances of packaging groups II and III
- 4 Manufacturing month and year
- 5 Country of approval
- 6 Approving institution, approval number and manufacturer
- 7 Test load of the stacking pressure test in kg. "0" is specified here if the IBC is not stackable
- 8 Maximum admissible gross weight in kg

## Labelling

Packaging and IBCs are to be marked as follows according to ADR chapter 5.2:

- > The UN no. of the transported substance (e.g. diesel: UN 1202)
- > The marking for environmentally hazardous substances (fish and tree, black on white surface)
- > Hazard label (e.g. diesel: no. 3, flame, black or white on red surface)

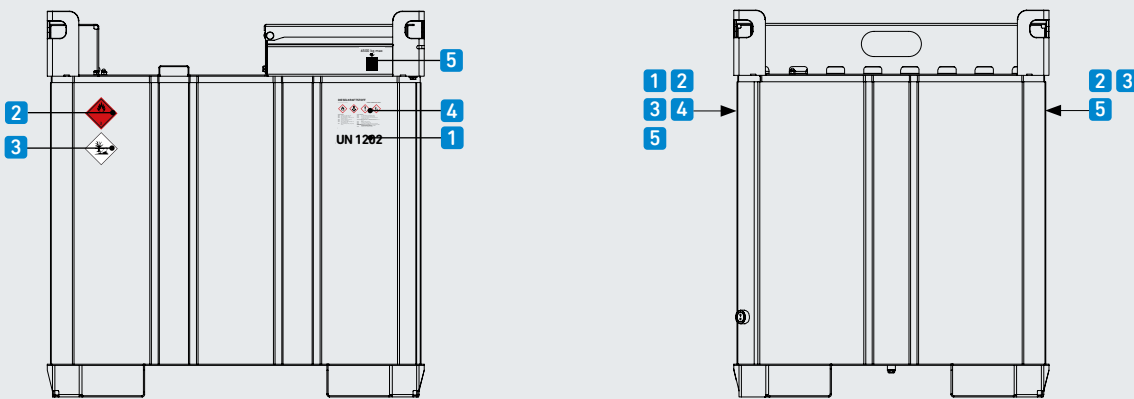
The specified markings have to be attached on two opposite sides of IBCs with a capacity of more than 450 litres and on one side of smaller packaging.

Additionally, the containers are to be labelled with substance-related hazard warnings according to GHS.

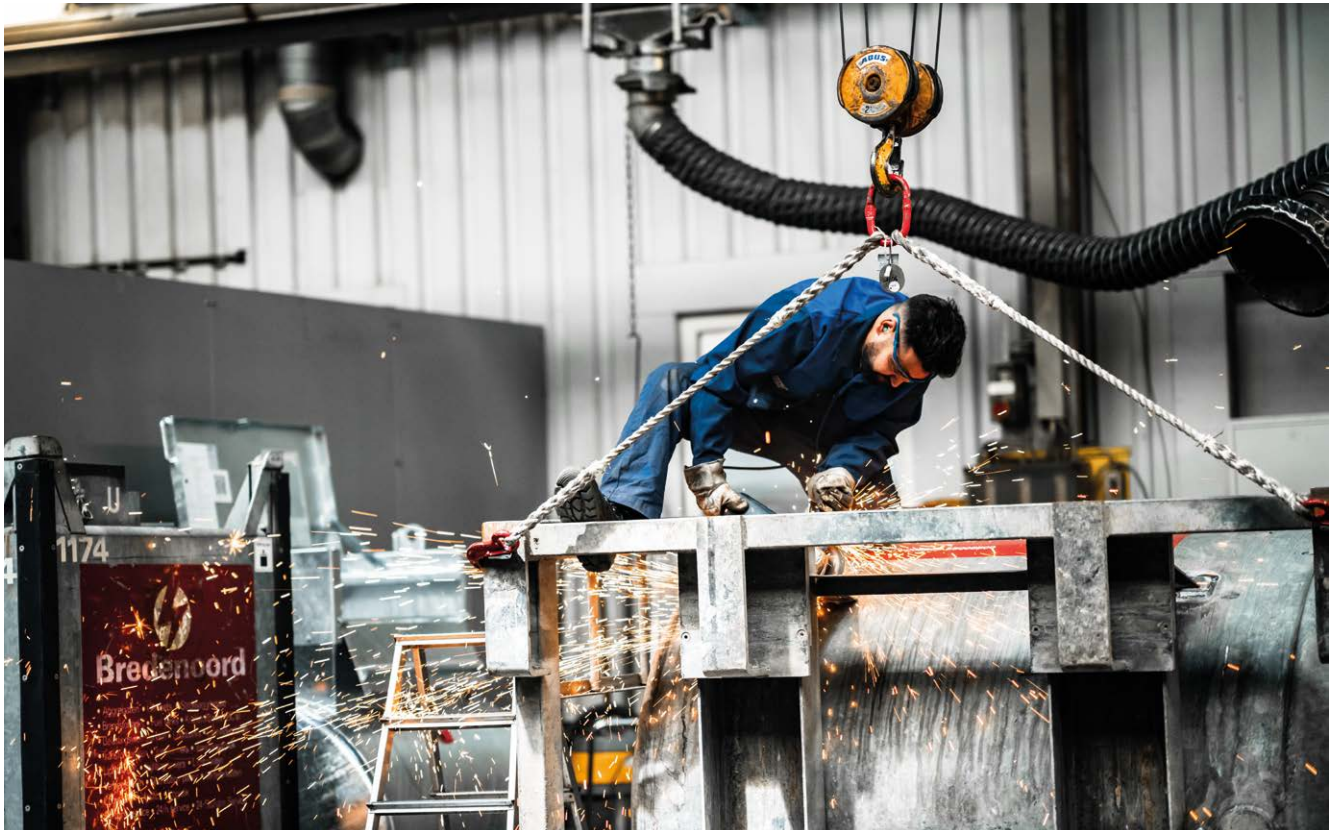
In addition to the container, we provide a set of adhesive labels for initial marking.

Additionally, a pictogram on the ICB specifies whether the container is stackable or not.

## Exemplary illustration for the identification marking on an IBC for diesel



No.	Type	Description	Mobile tank quantity/volume	
			< 450 l	> 450 l
1	UN 1202	UN number for the transported substance (diesel)	1	2
2		Hazard note for "flammable liquid material "(Class 3)	1	2
3		Identification marking for "environmentally hazardous substances"	1	2
4		Hazard information according to GHS (Globally Harmonised System of Classification and Labelling of Chemicals)	1	1
5		Pictogram "cannot be stacked"	1	1
		Pictogram "can be stacked" (permissible stacking load is stated)	1	1



^  
 Test place: Water pressure tests for pressure tanks; TÜV approvals by expert assessors; helium leak test for vacuum-sealed welded containers and vessels

**Inspections and testing**

All IBC containers must be subjected to recurring inspections, calculated from the date of the initial (factory) inspection, based on a cycle of 2 ½ years as follows:

**INSPECTION AFTER 2½ YEARS**

By a BAM registered inspection agency II, according to BAM-GGR 002 – Part B, Paragraph B 1.2.1, B 2.1 and B 3.1

Scope of inspection:

- › Checking the external condition
- › Checking the identification marking
- › Checking the function of the operating equipment
- › Leak testing with air at 0.2 bar excess pressure

**INSPECTION AFTER 5 YEARS**

By a BAM registered inspection agency I, according to BAM-GGR 002 – Part A, Paragraph A 1.2.1, A 2.1 and A 3.1

Scope of inspection:

- › Scope of the inspection after 2 ½ years
- › Checking conformity to the design type
- › Internal inspection



For packaging, no repeat inspections are required.



Every tested and inspected BIC must correspond to the design type. A test report must be created for every inspection and leakage test. This report must be retained by the owner at least by the time of the next inspection.

**Simplified transport**

Under defined conditions, ADR section 1.1.3.6 enables transport of hazardous substances under simplified conditions (without ADR certificate or vehicle marking, etc.) if the specified maximum capacity per transport unit, for example,

Medium	Pack. size	Transp. cat.	Max. capacity
Petrol	II	2	333 litres
Diesel	III	3	1,000 litres

is not exceeded.



If goods with different transport categories are transported in the same transportation unit, the 1000 points rule applies. For determination of the total score, the volumes of transport category 2 are multiplied by a factor of 3 and the volumes of transport category 3 by a factor of 1. For simplified transport, the total score of 1,000 points must not be exceeded. For example:

- > Petrol, II, 2: 150 litres x 3 = 450 points
- > Diesel, III, 3: 500 litres x 1 = 500 points
- > **Total: 950 points**

Even though numerous ADR regulations do not need to be taken into account for simplified transport, a few rules still have to be observed:

- > Marking and labelling (ADR chapter 5.2) must be complete and readable,
- > A 2 kg fire extinguisher (ADR section 8.1.4.1 (a)) must be carried with the container,
- > A shipping document (ADR section 5.4.1) must be carried with the container, and
- > Instructions for those involved according to ADR Section 8.2.3, in connection with chapters 1.3 and 1.10, must be given.

Of course, it is also generally required that the container:

- > is technically intact
- > is tightly sealed during transport and,
- > if prescribed, that repeat inspections have been carried out.

## STATIONARY USAGE

Mobile fuel systems, which are operated in one place for a specific operational purpose for a period of more than six months are regarded as stationary. They are then subject to the regulations of the German directive on equipment used to handle substances hazardous to water (AwSV).

## WAYBILL

### What is a waybill?

A waybill is nothing more than a delivery note, which must, however, feature the following mandatory information according to ADR section 5.4.1.

The waybill is not bound to any layout and the position and order of the information may be freely selected.

The information on a), b), c), d) and k), however, must be specified in this order without any additional information, i.e. for diesel:

**UN 1202 DIESEL FUEL, 3, III, (D/E)**

Mandatory details	E.g. diesel
a) The UN number of the substance,	[UN 1202]
b) The official designation of the substance,	[Diesel fuel]
c) The number of the hazard label/hazardous goods class,	[3]
d) The packing group of the substance,	[III]
e) Number and description of the transported item,	[1 IBC]
f) The total quantity of hazardous goods,	[950 litres]
g) The name and address of the sender,	[Civil engineering company]
h) The name and address of the recipient,	[Civil engineering company – construction site X]
i) A declaration according to the provisions of a special agreement, (Naturally, this is only required if this is in fact the case!)	[Transport without exceeding the permitted limits defined in subsection 1,1,3,6]
j) --- (not specified in current ADR)	
k) The (if assigned) tunnel restriction code,	[D/E]

# TANK CONTAINER

## Type testing and approval

Whether or not containers are approved tank containers can be clearly identified according to the approval number, for example:

D / BAM 17 10 / TC  
 1 2 3 4 5

- 1 Country of approval
- 2 Approving institution
- 3 Only for older approvals:  
Marking for the transport carrier, for which the container is approved for. (e.g. 17 = road)  
This is no longer specified for newer approvals
- 4 Approval serial number
- 5 Tank container

## Labelling

The approval number of a tank container is also attached on two opposite sides at the height of the centre of the container. The tank coding is also specified at two opposite sides, for example:

L 2.65 D H  
 1 2 3 4

- 1 Tank for fluids
- 2 Calculation pressure: 4 bar
- 3 Tank with top openings without openings under the filling level
- 4 Air-tight tank

Additionally, the official designation of the (currently) transported substance is to be specified according to ADR paragraph 6.8.2.5.2 as well as the name of the owner and the operator, the capacity and the net weight with the admissible maximum weight.

According to ADR subsection 5.3.1.2, large signs (size: 250 mm x 250 mm, example for diesel: no. 3, flame, black or white on red surface) must be attached on both long sides and at each end.

According to ADR section 5.3.6, large signs (250 x 250 mm) with the mark for environmentally hazardous substances must be attached on both long sides and at each end.

According to ADR section 5.3.2, orange marking is to be applied. This may be a warning sign or an adhesive label [size: 400 x 300 mm, example for diesel: top 30 (substance-specific number for hazard marking), bottom 1202 (UN number for diesel)].



Together with the container, we provide everything required for initial marking.

## Inspections and testing

All tank containers are subject to mandatory repeat inspections and testing according to EN 12972 by a qualified professional at intervals of 2½ years as of the date of the first (factory) inspection. This generally includes:

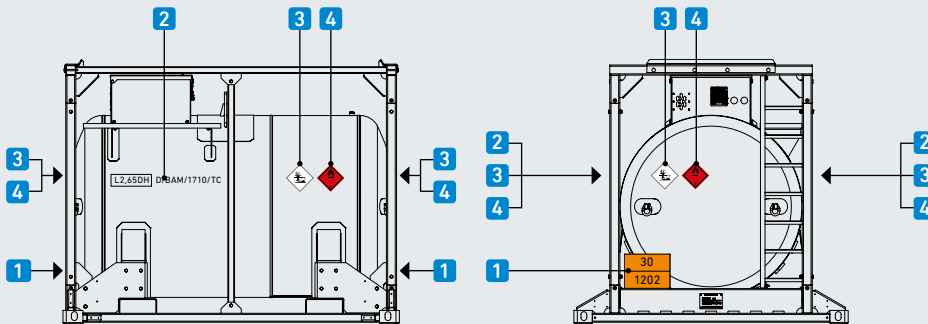
- > Water pressure leakage testing with an overpressure according to the approval
- > Inspection on the inside and
- > Functional check of all equipment components

## Transport

For transport of tank containers, all applicable ADR rules and regulations must generally be observed. An ADR certificate (hazardous goods certificate) for tankers is required.

Transport under simplified conditions, as is the case for IBCs and packaging, is not possible for tank containers.

Exemplary illustration for the identification marking of a tank container



Pos.	Symbol	Description
1		Identification marking with orange-coloured panel: UN Number 1202: Diesel fuel/heating oil Hazard number 30: Flammable liquid material (flash point from 23 °C to 61 °C inclusive) or flammable liquid material or solid material in a molten status having a flash point above 61 °C, heated to or above its flash point, or liquid materials capable of self-heating
2	L2,65DN D/BAM/1710/TC	Approval number
3		Hazard label: Flammable liquid material (Class 3)
4		Identification marking: environmentally hazardous material
-	-	Name of the owner and the operator (on the container itself or on panels)



Setting up a fuel station for your own consumption saves time and money. Fuel purchased as favourable terms can be stocked safely and is available at any time. This saves you driving to public fuel stations and also makes you independent of their opening hours.

Rietberg fuel storage tanks are designed for the above-ground storage of fuels. They are manufactured in accordance with the introduced standards (DIN, EN) or based on the general approvals of the building inspection authorities and thus, depending on their respective type, they are approved for the storage of fuels such as diesel/heating oil and AdBlue® or petrol but also other mineral oil products.

Rietberg fuel storage tanks for diesel can be delivered with volumes from 1,000 to 16,000 litres. In combination with the Rietberg fuel filling station as tank area, you will receive a comprehensively approved on-site filling station fulfilling all applicable requirements as per TRWS 781.

Rietberg fuel storage tanks for petrol can be delivered with volumes from 400 to 995 litres. For operation, a concrete tank area which corresponds to the requirements as per TRWS 781 is required.

04

# STATIONARY FUEL SYSTEMS



# DIESEL TANK SYSTEMS

## KA



[DIESEL]



### Legally compliant storage

- › General building authority approval, which is valid throughout Germany, as a storage container and therefore approved for the storage of fire-resistant fluids (flash point over 55 °C) and other water-polluting liquids or fluids.
- › Approved for outdoor installation and in buildings
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls

### Simple handling, cost-saving and reduced time

- › Storage without additional collecting tray and without special collection space is possible

### Space saving

- › Double-wall construction within the meaning of AwSV, so that no spacing between tanks is required when several tanks are set up close to each other

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside) or untreated on the inside, coated on the outside for installation indoors<sup>1</sup>
- › When requested, can be delivered untreated on the inside, coated on the outside for installation outdoors (all RAL colours possible)

### Secure and safe transport

- › 2 crane lifting lugs for safe and secure crane lifting according to DGUV Information Sheet 209-013 (empty transportation)

### Convenient and safe operation

- › Equipped as standard with all required connections and fittings
- › Continuous, mechanical and easily readable fuel gauge
- › Limiting value transmitter for safe filling by a fuel tanker
- › Dome lid upturned at the sides for retention of drip quantities
- › Reserve collar for subsequent installation of customer-specific equipment parts

### Increased anti-theft protection

- › Lockable swing door cabinet for protecting the fittings and high-value dispensing pumps
- › Lockable filling pipe closure 2" / 2 1/2"

<sup>1</sup> Coating for outdoor installation upon request

**1** Figure similar

**2** KA untreated inside and coated outside in RAL 3001 signal red

**3** Swing door cabinet (optional), refer to P. 18 120

Available models

STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Item no.	
	L	W	H <sup>1</sup>			Hot dip galvanized	Coated <sup>2</sup>
KA 1000	1400	1000	1400	350	Z-38,12-325	506633	506648
KA 1500	2100	1000	1400	380	Z-38,12-325	506634	506649
KA 2000	2800	1000	1400	460	Z-38,12-325	506635	506650
KA 3000-100	4050	1000	1400	580	Z-38,12-325	506636	506651
KA 3000-125	2750	1250	1700	620	Z-38,12-325	506637	506652
KA 3500	3100	1250	1700	680	Z-38,12-325	506638	506653
KA 5000-125	4350	1250	1700	820	Z-38,12-325	506639	506654
KA 5000-140	3660	1400	1900	1070	Z-38,12-51	509642	509653
KA 5000-160	2690	1600	2100	1200	EN 12285-2	506641	506656
KA 7500-140	5240	1400	1900	1650	Z-38,12-51	509643	509654
KA 7500-160	4000	1600	2100	1580	EN 12285-2	506643	506658
KA 10000-140	6800	1400	1900	1920	Z-38,12-51	509644	509655
KA 10000-160	5350	1600	2100	1900	EN 12285-2	506645	506660
KA 13000	7000	1600	2100	2480	EN 12285-2	506646	506661
KA 16000	8600	1600	2100	2940	EN 12285-2	506647	506662

COMPLETE PACKAGE

Type	Description	Delivery rate [l/min]		Item no.
		Nominal <sup>3</sup>	Effective <sup>4</sup>	
KA 3000-125 230	Equipped with swing door cabinet, fill limit sensor, R50 230 V (AC) motor pump, 6 m connection cable with Schuko plug, counter PZ300, 4 m hose set with angular swivel joint and automatic discharge nozzle	56	52	505203
KA 5000-125 230	Equipped with swing door cabinet, limit value transmitter, R50 230 V (AC) motor pump, 6 m connection cable with Schuko plug, counter PZ300, 4 m hose set with angular swivel joint and automatic discharge nozzle	56	52	505204
KA 10000-140 230	Equipped with swing door cabinet, limit value transmitter, R50 230 V (AC) motor pump, 6 m connection cable with Schuko plug, counter PZ300, 4 m hose set with angular swivel joint and automatic discharge nozzle	56	52	510380



The abolition of the building rules lists and the introduction of the Technical Building Regulations model administrative regulation now means that our containers, according to DIN 6624 and DIN 6616, have been dropped as construction products for fixed installations for the storage, filling and handling of substances hazardous to water.

Our fuel storage tanks currently possess a general building authority approval, which is valid throughout Germany, as storage containers and are therefore approved for the storage of fire-resistant fluids (flash point over 55 °C) and other water-polluting liquids or fluids.

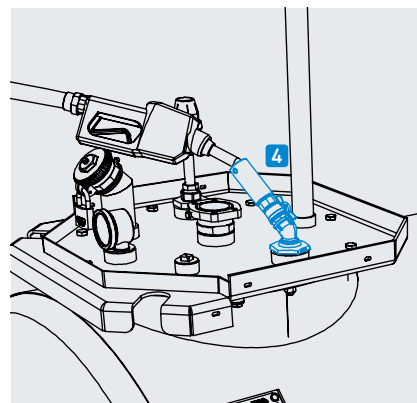
1 Height without double-door cabinet

3 Indicated nominal power of the manufacturer with free outlet

4 Power detected during the test with a suction height of 1m and equipped with 4 m discharge hose and automatic discharge nozzle

2 Coating for outdoor installation upon request

## Accessories



Type	Description	Item no.
Swing door cabinet	<b>1</b> For containers $\geq 1000$ L; From steel, powder-coated RAL 5003, Dimensions (L x W x H): 650 x 650 x 800 mm	81990
Ladder	<b>2</b> Fitted on the side with extra large top step for containers with a diameter between 1400 mm and 1600 mm	98012
Bracket	Bracket for fixing the dispensing equipment for fuel storage tanks	506020
Pipework set	Pipework including all assembly parts which are adapted to the customer's installation and requirements,	506021
Inspection dome III	<b>3</b> Inspection dome for fire-resistant fluid containers, 500 mm diameter, plain dome cover screw-connected to the dome flange	88942
Discharge valve bracket	<b>4</b> Nozzle holder with shut-off return line for drip volumes	300504
Fill limit indicator	KA, MT: To prevent container overfilling when filling from a fuel tanker with permanently coupled pipe Only approved for diesel/heating oil and petrol	31825
Siphon protection valve 1 1/4"	Adjustable siphon protection valve 0.15 to 0.30 bar, connection 1 1/4"; prevents automatic tank leakage; maximum installation height 3 m above floor level	50605

## ELECTRIC PUMPS



Design:

Dry operating self-priming vane pump with integrated bypass valve for protection against pump damage.

Scope of delivery:

Diesel pump with motor, connection cable with Schuko plug, 4 m hose set with angular swivel joint and automatic discharge nozzle; including assembly adapter and assembly on Rietberg container ordered with it

Type	Delivery rate [l/min]	Voltage [V]	Hose	Item no.	
					Nominal <sup>1</sup>
R50 230	<b>5</b> 56	52	AC 230	NW19	96349
R80 230	70	65	AC 230	NW25	96353
R120 230	100	90	AC 230	NW25	96478
Biodiesel	4,0 m hose kit, for discharge of biodiesel NW19			39785	

1 Indicated nominal power of the manufacturer with free outlet

2 Power detected during the test with a suction height of 1m and equipped with 4 m discharge hose and automatic discharge nozzle



FLOW METERS

Type	Description	Flow rate [l/min]		Item no.
		Min.	Max.	
PZ300	<b>6</b> Mechanical roller flow meter, not calibratable, for fitting to a pump, max. viscosity 500 cSt.	20	120	96359
EZ24	Digital turbine flow meter, not calibratable, for fitting to a nozzle	7	120	96479

TANK DATA RECORDING



Scope of delivery:  
 Automatic fuel terminal, USB interface, USB stick for data retrieval, administration software for evaluating refuelling procedures, pulse transmitter set for diesel/heating oil and 10 transponder tags.

Type	Description	Item no.
HDA ECO	<b>7</b> Automatic refuelling system / tank data recording for maximum 2,000 users with internal memory for up to 10,000 refuelling procedures; user identification via transponder technology and USB interface for data retrieval; menu navigation in German, English, French and Spanish (additional languages are possible); all components accommodated in a sturdy sheet steel housing (protection class IP54); supplied loose – assembly on site	511424
HDA-ECO bracket	Bracket for fixing on the container or attaching locally	505852
Transponder tag	For HDA-ECO For contactless participant identification	96617
Interface to HDA-ECO measuring probe <sup>1</sup>	Part of the fill-level measuring for HDA-ECO	47022
Fill-level probe HDA-ECO <sup>2</sup>	Filling-level measuring for HDA-ECO, 300 mbar	46980
Float switch	For HDA-ECO For switching off the pump in the event of diesel shortage	96618
Nozzle holder with On/Off switch	<b>8</b> Nozzle holder with integrated on/off switch for the dispensing pump. Cabling is executed on site. Nozzle holder is only suitable for NW 19 Slimline automatic discharge nozzle (Art. 34435)	
	Including NW 19 Slimline automatic discharge nozzle	79591
	Excluding NW 19 Slimline automatic discharge nozzle	79591-1
LAN	LAN connection for HDA/HDM-ECO	46981
<b>NEW</b>		
WLAN	WLAN connection for HDA/HDM-ECO	48663
<b>NEW</b>		
GRPS	GRPS connection for HDA/HDM- ECO incl. SIM card	48443
<b>NEW</b>		
LTE	LTE connection for HDA/HDM- ECO incl. SIM card	48797
<b>NEW</b>		

1 Not compatible with HDA-ECO fill-level probe (Art.-No. 46980) and float switch (Art.-No. 96618)  
 2 Not compatible with HDA-ECO measuring probe interface (Art.-No. 47022) and float switch (Art.-No. 96618)

## PUMPS WITH FUEL DATA RECORDING



Scope of delivery:

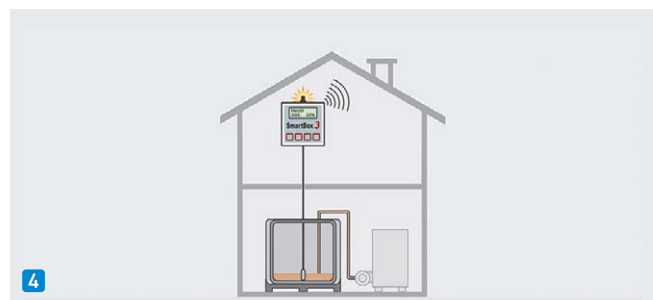
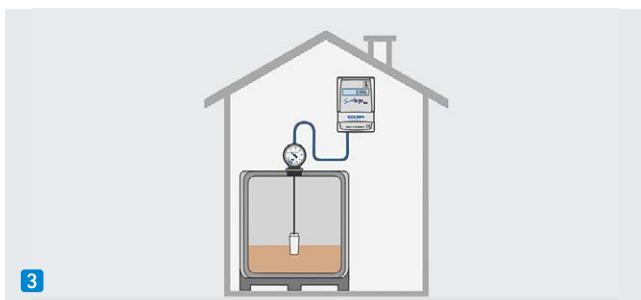
Vane pump, self-priming, 230 V AC motor, not calibratable oval wheel flow meter with LCD display and pulse generator, 4.0 discharge hose, automatic discharge nozzle, nozzle bracket with on/off switch, fuel data recording and software for analysis purposes. Incl. bracket, assembly adapter and assembly on Rietberg container order with it.

Type	Description	Item no.
R60 ECO-Box	<b>1</b> Pumping capacity of max, 55 l/min, automatic fuel terminal/fuel data recording for up to 2,000 users; internal memory for max, 10,000 refuelling processes; user identification via transponder technology and USB interface for data retrieval; menu navigation in German, English, French and Spanish (additional languages are possible); all components are integrated in a durable steel housing (protection class IP54)	96615
R80 ECO-Box	As R60 ECO Box, however, with a pumping capacity of max, 75 l/min, DN 25 discharge hose	96616
R80 ECO-Dispenser	<b>2</b> As R80 ECO Box, however as a dispenser	506023
Transponder tag	For R60/R80 ECO Box For contactless participant identification	96617
LAN port	For R60/R80 ECO Box	46981
Float switch	For R60/R80 ECO Box For switching off the pump in the event of diesel shortage	96618



Various accessories such as radio-remote module, cloud connection etc are available on request, see Rietberg Smart Fuel on P. 22.

## FILLING LEVEL INDICATOR / REMOTE INDICATION



Type	Description	Item no.
SmartBox® Mini	<b>3</b> Electronic remote filling level indicator, consisting of a mechanical filling level indicator (measuring accuracy +/- 2 %, for installation on the container) and a digital indicator unit; indication optionally in litres or percent and/or filling height in centimetres; 10 m connection cable (max, distance between container and digital indicator unit: 50 m); power supply: 3 type AA batteries, Protection type IP30	45972
SmartBox® 3	<b>4</b> Electronic remote filling level indicator including hydrostatic measuring probe (measuring range 250 mbar, measuring accuracy 1 %, for installation on the container) and a digital indicator unit; indication optionally in litres or percent; with optical/acoustic warning; 6 m connection cable (max, distance between container and digital indicator unit: 200 m); supply voltage 230 V, 50 Hz, protection type IP 30	48340



**AUTOMATIC DISCHARGE NOZZLES**

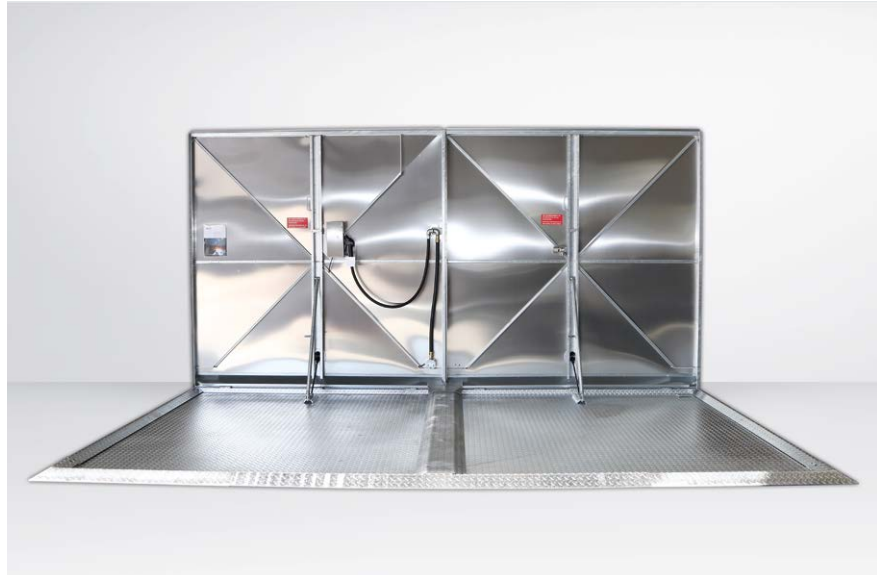
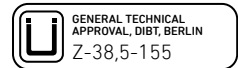
Type	Flow rate [l/min]	Special features	Outlet	Item no.
ZVA 19	5 60	With axial swivel joint	NW19	44535
ZVA 19 Slimline	6 75	With axial swivel joint	NW19	34435
ZVA 25	120	With axial swivel joint	NW25	39642
ZVA 25 Slimline	7 140	With axial swivel joint	NW25	37347
ZVA 32 Slimline	8 200	With axial swivel joint	NW32	45244

**DISCHARGE HOSES, HOSE REELS AND FILTERS**

Type	Description	Length [m]	Item no.
Discharge hose NW19	Integration 1" IT/OT	4	39731
		6	39732
		8	45232
		10	45375
Discharge hose NW25	Integration 1" IT/OT	4	97143
		6	97144
		8	97145
		10	97146
Hose drum (for mounting on the bracket, Art. No. 97982)	9 Hose reel with 10 m hose NW19, spring return and outlet window; incl. mounting material and pump connection hose		98047
	Hose reel with 14 m hose NW19, spring return and outlet window; incl. mounting material and pump connection hose		98046
	Hose reel with 10 m hose NW 25, spring return and outlet window; incl. mounting material and pump connection hose		98045
	Hose reel with NW25 x 15 m hose, spring return and outlet window; incl. mounting material and pump connection hose		98044
Panel KA	10 Hot dip galvanized steel bracket for secure mounting of a hose reel on a KA diesel fuel tank system		97982
Fuel filter	Mounted on the pressure side of a pump for protection against contamination and water, filter mesh (30 µm, max, 65 l/min flow) The flow is blocked if the filter cartridge is fully saturated		73165
Replacement cartridge	Replacement filter cartridge for the fuel filter		39759

# FUEL FILLING STATION KAP-ECO

[DIESEL AND ADBLUE®]



## Legally compliant storage

- › General building authority approval, which is valid throughout Germany, as a secured surface area for refuelling vehicles and machinery with diesel fuel and also for filling a storage container, vessel or tank from a tanker vehicle.
- › Approved for outdoor installation and in buildings
- › The collection trays each have a volume of 150 litres.

## Simple handling, cost-saving and reduced time

- › Practically no construction measures are required for installation; a level and sufficiently load-bearing surface is enough. We recommend a concreted surface area
- › Assembled with reduced time and effort and e.g. also simple to dismantle when relocating to another site
- › No oil separator is required, therefore any associated costs for installation, sewer connection and annual servicing or maintenance are also eliminated.

## Space saving

- › Modular structure
- › Splash guard for halving the operating range

## Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing of the drip trays and frame construction
- › Splash guard wall and hinged cover are clad with high-quality lightweight aluminium sheet metal

## Convenient and safe operation

- › Individual equipment and facilities enables user-compliant and practice-compliant solutions
- › Spring-supported hinged lid for setting up outside
- › Drive-over capable for vehicles up to maximum 10 t wheel load



**Technical data**

Type name	Description	Dimensions [mm]			Weight [kg]	Hot dip galvanized
		L	W	H		Item no.
KAP-ECO	<b>1</b> 2 trays incl. ramps capable of being driven over	5200	2600	60	680	72737
<b>ACCESSORIES</b>						
Splash protection wall	<b>2</b> To limit the operating range when installed indoors; incl. all assembly parts and fastening for a discharge hose	5000	–	1060	105	74205
Folding cover	<b>3</b> In case of outdoor installation, to limit the operating range and cover the area if no fuelling is carried out; 2 covers (aluminium on hot dip galvanized steel frame) each with 1 gas pressure spring as lifting aid; hose connection on the outside; 1.5 m NW 19 discharge hose with automatic discharge nozzle on the inside	5000	2500	590/ 2600	170	74920
				Cover closed/ open		

**Available models**

**COMPLETE PACKAGE**

Type name	Description	Dimensions [mm]			Weight [kg]	Hot dip galvanized
		L	W	H		Item no.
KAP-ECO Indoor installation	<b>1</b> 2 trays with ramps capable of being driven over, splash guard wall, ASS fittings, twin hose system for the pressure line, splash guard for the filling line	5200	2600	1120	785	513346
KAP-ECO Outdoor installation	<b>2</b> 2 trays with ramps capable of being driven over, 2 hinged covers, ASS fittings, twin hose system for the pressure line, opening for the filling line	5200	2600	560/ 2600	850	513347
				Cover closed/ open		

**3** KA 3500, not included in the price, see P. 118

# FUEL FILLING STATION KAP-GIRO

[DIESEL AND ADBLUE®]



## Legally compliant storage

- › General building authority approval, which is valid throughout Germany, as a secured surface area for refuelling vehicles and machinery with diesel fuel and also for filling a storage container, vessel or tank from a tanker vehicle.
- › Approved for outdoor installation and in buildings
- › The collection trays each have a volume of 180 litres.

## Simple handling, cost-saving and reduced time

- › Practically no construction measures are required for installation; a level and sufficiently load-bearing surface is enough. We recommend a concreted surface area.
- › Assembled with reduced time and effort and e.g. also simple to dismantle when relocating to another site
- › No oil separator is required, therefore any associated costs for installation, sewer connection and annual servicing or maintenance are also eliminated.

## Space saving

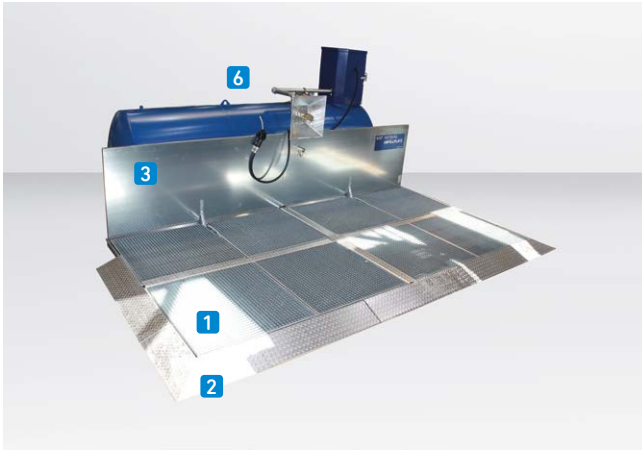
- › Modular structure
- › Splash guard for halving the operating range

## Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing of the drip trays and frame construction
- › Splash guard wall and hinged cover are clad with high-quality lightweight aluminium sheet metal

## Convenient and safe operation

- › The surface is equipped with steel gratings. Leaking fuel can be recognised easily and the vehicle tyres will therefore not be contaminated with fuel
- › Individual equipment and facilities enables user-compliant and practice-compliant solutions
- › Spring-supported hinged lid for setting up outside
- › Drive-over capable for vehicles up to maximum 6.5 t wheel load and a total weight of 40 t



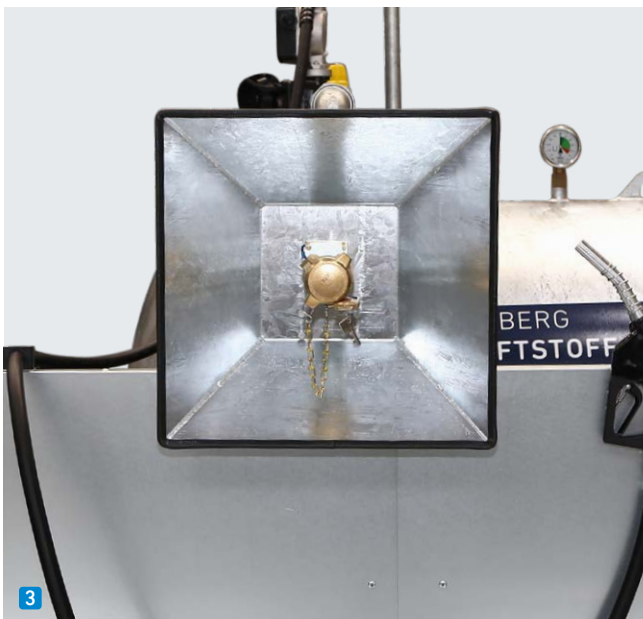
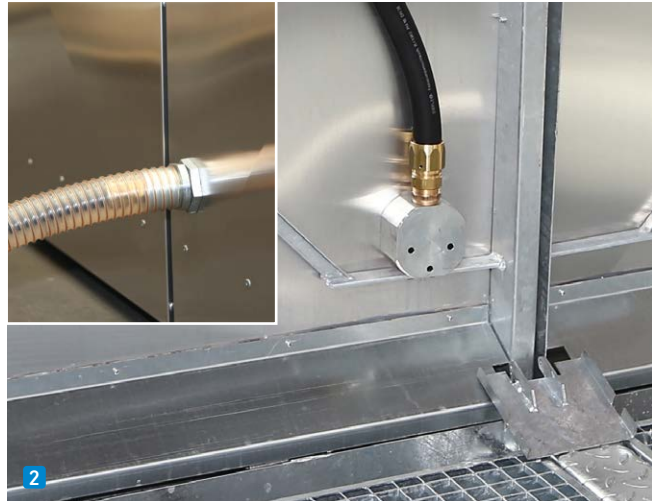
**Technical data**

Type name	Description	Dimensions [mm]			Weight [kg]	Item no.
		L	W	H		
KAP-GIRO	<b>1</b> 4 steel trays with 2 heavy-duty gratings	5000	2500	90	1100	74910
<b>ACCESSORIES</b>						
Access ramps	<b>2</b> Assembly kit including hot dip galvanized corrugated sheet for the front longitudinal side and both of two short sides (incl. end profiles)	5550 <sup>1</sup>	2780 <sup>1</sup>	90 <sup>1</sup>	162	504653
Splash protection wall	<b>3</b> To limit the working area when installed indoors; incl. all assembly parts and fastening for a discharge hose	5000	-	1060	105	73318
Folding cover	<b>4</b> In case of outdoor installation, to limit the operating range and cover the area if no fuelling is carried out; 2 covers (aluminium on hot dip galvanized steel frame) each with 1 gas pressure spring as lifting aid; hose connection on the outside; 1.5 m NW 19 discharge hose with automatic discharge nozzle on the inside	5000	2500	590/ 2600	170	75093
KAP-GIRO for tracked vehicles	<b>5</b> Accessory set consisting of 12 wooden perforated pressure plates to protect the gratings as well as wooden drive-up ramps on the longest side and the two front sides					73475

**Available models**

**COMPLETE PACKAGE**

Type name	Description	Dimensions [mm]			Weight [kg]	Item no.	Price [€]
		L	W	H			
KAP-GIRO Indoor installation	4 trays with gratings, access ramps, splash guard wall, ASS fittings, twin hose system for the pressure line, splash guard for the filling line	5000	2500	90	1367	513351	12,736,-
KAP-GIRO Outdoor installation.	4 trays with gratings, surrounding access ramps, 2 hinged covers, ASS fittings, twin hose system for the pressure line, splash feed for the filling line	5000	2500	590/ 2600	1432	513353	16,432,-



**Accessories for KAP ECO and KAP GIRO fuel filling stations**

Type	Description	Item no.
ASS fittings	<b>1</b> Consisting of an insulated TW filling screw fitting with connection board, a special fill limit sensor for installation in the storage container and a fill limit sensor connector routed into the KAP hinged cover. By using the ASS fittings, the TW pump is deactivated without delay in case of emergency and only low amounts of fuel leak out and can be securely collected by the KAP	73132
Filler line bushing	<b>1</b> Preassembled component with automatically opening/closing cover for assembly in a KAP hinged cover	74007
Filler line extension	<b>1</b> For extension of the filler line of a Rietberg fuel storage tank to the fuel filling station; assembly kit consisting of a 2" pipe section and 30° pipe bend For containers with a diameter of 1000 mm	73145
	For container diameters of 1250/1400 mm, incl. ball valve G 2	73146



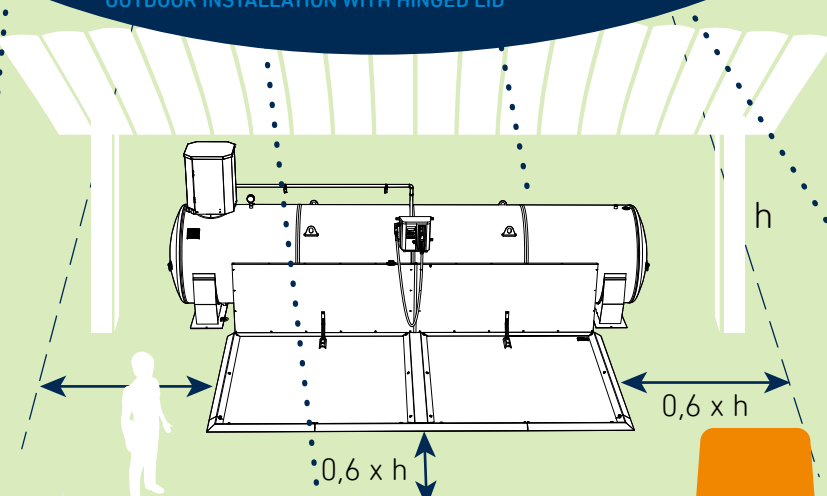
Type	Description	Item no.
Twin hose system	<b>2</b> The diesel hose located between the dispensing pump on the storage tank and the system hose connection on the hinged cover of the KAP is routed in an additional, transparent PU protective hose. In the event of a leak, any escaping diesel will be collected by this protective hose and guided safely into a tray on the KAP.	
	For splash protection wall	77399
	For folding cover	73821
Splash guard for filling pipe	<b>3</b> Funnel-shaped splash guard on the filling pipe closure of the filling pipe, prevents the transfer of liquid over the splash guard wall if the filling hose is torn off during the filling procedure	300863
AdBlue® filling set	Indoor installation: DN 19 discharge hose with automatic discharge nozzle and bracket for fitting to a splash guard wall	513966
	Outdoor installation: DN 19 discharge hose with automatic discharge nozzle and bracket for fitting in the hinged cover	513967
Hinged cover sealing set	Additional sealing to protect the hinged cover against the ingress of rainwater in areas with strong crosswinds	98330
Height guiding for discharge hose	<b>4</b> Vertical extension of the discharge hose routed on a sliding rail so that even high up vehicle tanks can easily be reached. The horizontal hose length remains unchanged at 1.5 m	
	For splash protection wall	77398
	For folding cover	73399
EZ24	Digital turbine flow meter, not calibratable, for fitting directly to the nozzle	96479
Nozzle holder with on/off switch	Nozzle holder with integrated on/off switch for the dispensing pump. Cabling is executed on site. Nozzle holder is only suitable for NW 19 Slimline automatic discharge nozzle (Art. 34435)	
	Including NW 19 Slimline automatic discharge nozzle	79591
	Excluding NW 19 Slimline automatic nozzle	79591-1
	Cabling assembly kit For cabling between a pump 230 V (s. „Electric pumps“ on p. 120) and the nozzle valve holder with integrated on/off switch Consists of a small case IP65 (100 x 160 x 100 mm), power contactor 230 V, a micro fuse and diverse assembly parts including assembly by a qualified electrician	505162
Pump bracket	For fitting on a dispensing pump directly on the splash guard wall of the KAP; Connection between pump and storage tank on site	
	For R50	300056
	For R60/R80 ECO-Box	98555
Breakaway coupling	Separates the hose line and the nozzle independently and with a tight seal if put under too high a mechanical load.	41174
Ground peg set	10 ground pegs, Ø 12 mm, 480 mm long, made of hot dip galvanized, concrete ribbed steel for fixing a fuel filling station on compacted gravel (only KAP-GIRO) or a paved-over or asphalted surface	513356
Bolt anchor set	10 bolt anchors, M 12 x 61, with expansion clip for fixing a fuel filling station on a concreted or asphalted surface	513355



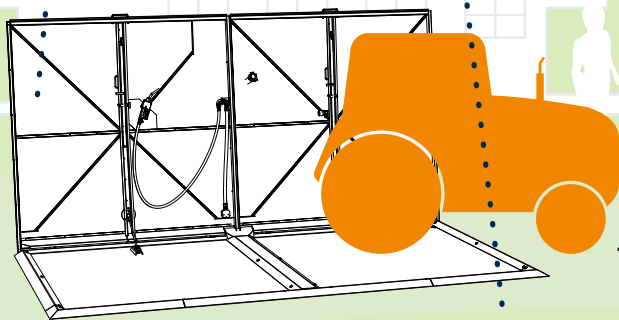
On request we will prepare a tailored quotation for you for assembly on site by our customer service engineers

# 6

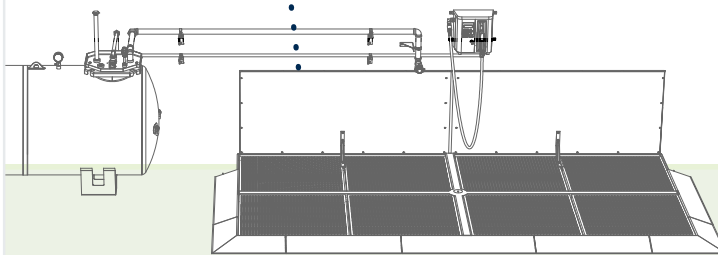
Example of ways to install a fuel filling station  
INDOOR INSTALLATION WITH SPLASH GUARD WALL  
OUTDOOR INSTALLATION WITH HINGED LID



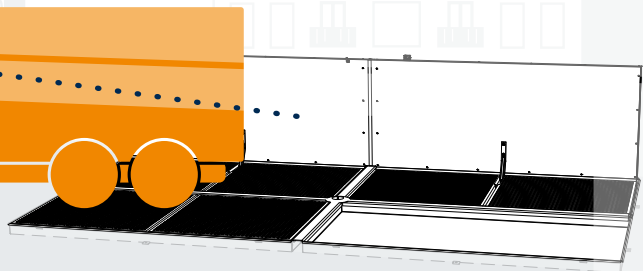
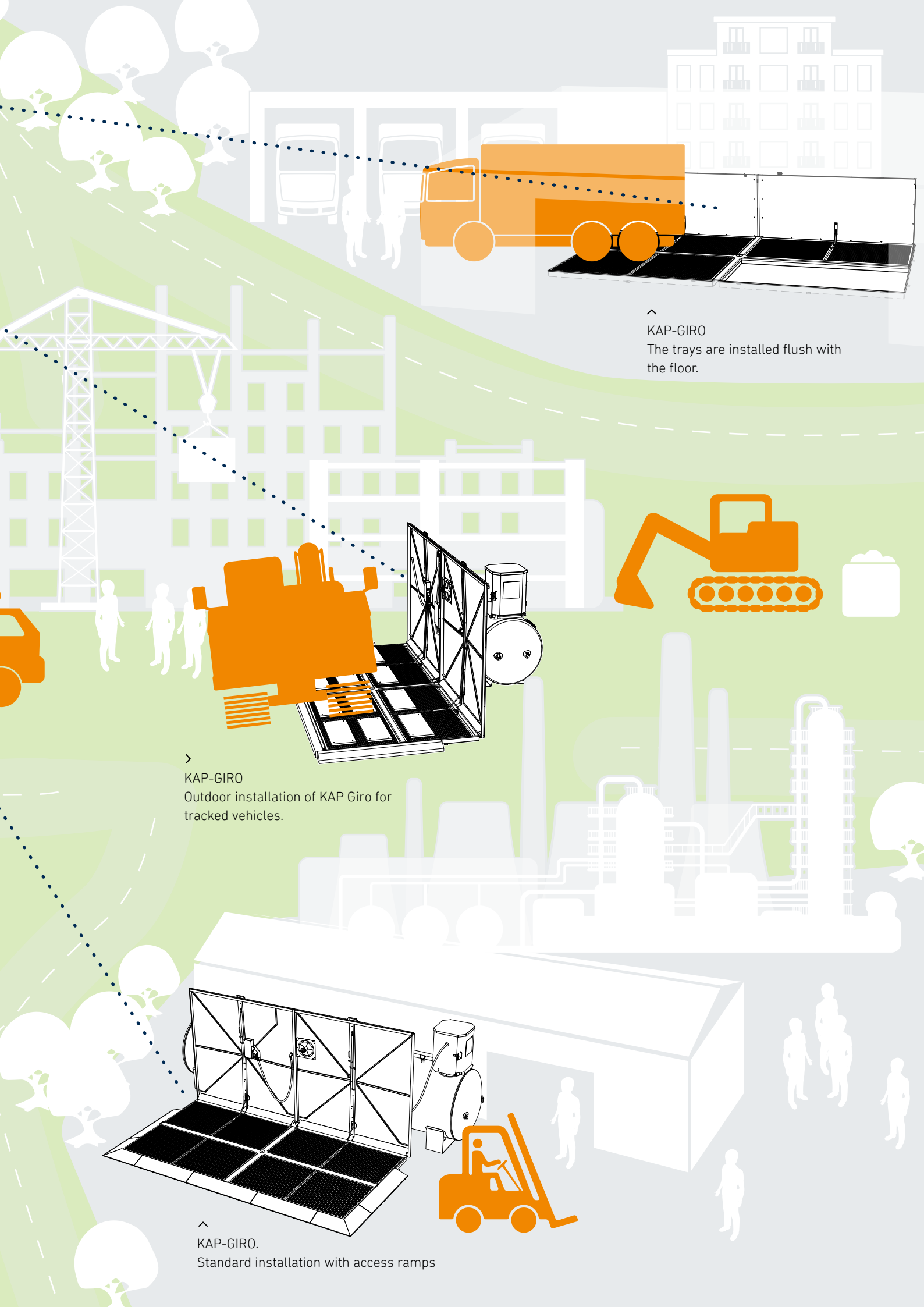
< KAP-ECO  
With bracket-mounted dispensing pump set up under an all-open roof (not shown). The roof overhang depends on the height of the roof.



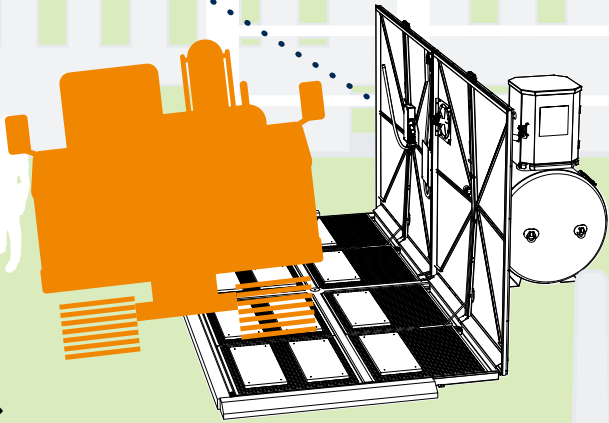
< KAP-ECO  
Outdoor installation



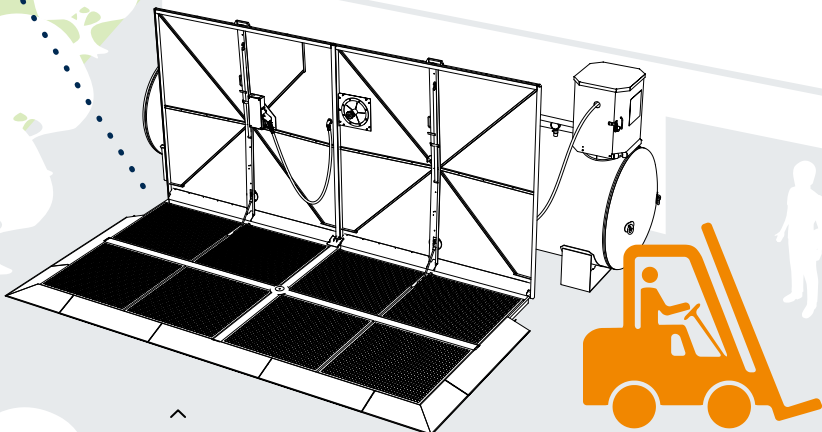
^ KAP-GIRO  
With panel-mounted dispensing pump. Due to the restricted room depth, the storage container was positioned next to the KAP.



^  
KAP-GIRO  
The trays are installed flush with the floor.



>  
KAP-GIRO  
Outdoor installation of KAP Giro for tracked vehicles.



^  
KAP-GIRO.  
Standard installation with access ramps

# REQUIREMENTS FOR DIESEL ON-SITE FILLING STATIONS ACCORDING TO TRWS 781

## Meaning and components

In accordance with AwSV (German directive on systems to handle substances hazardous to water) § 2(12), on-site filling stations are filling stations which are non-accessible for the public and intended to fill company-internal vehicle or comparable vehicles and devices, e.g. agricultural machines, with fuel and whose yearly throughput does not exceed 100 m<sup>3</sup>. They are only used by the operator or personnel instructed by the operator. The on-site filling station consists of an above-ground storage container, a dispensing unit and a filling area – e.g., the Rietberg fuel filling station for indoor and outdoor installation.

## Components

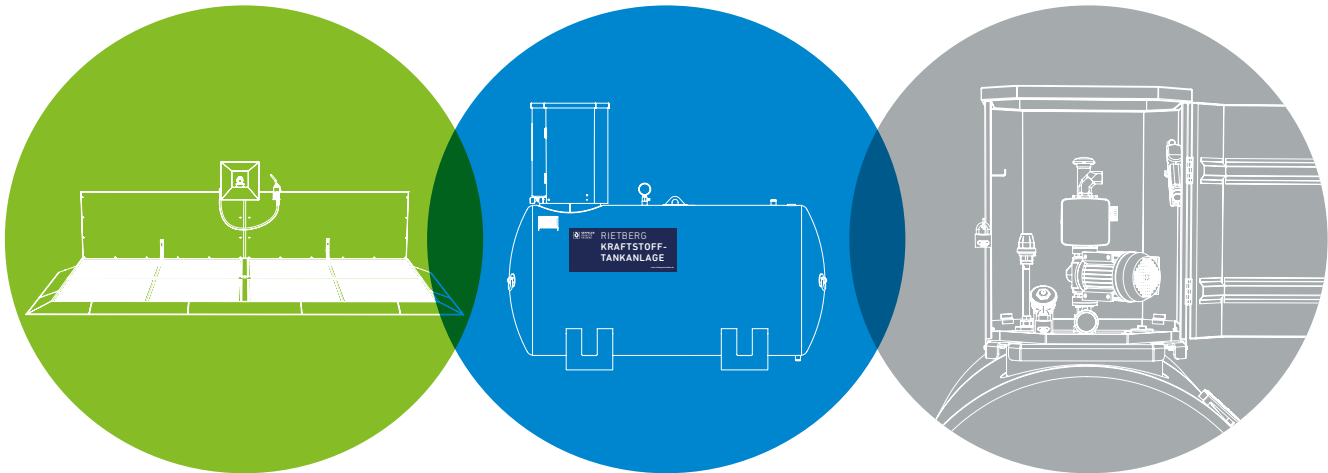


Fig. 1 -1: Example for components of a Rietberg on-site filling station: KAP GIRO filling bay, KA 3000 storage container and dispensing unit

### FILLING BAY

#### Size of the filling bay:

- › For discharge, the size of the filling bay is defined by the operating range. This is calculated from the max. hose length including nozzle plus 1 m.
- › Operating ranges can be reduced by splash protection walls.
- › A splash protection wall with a minimum height of 1 m and sufficient width is required.
- › The effective range for filling storage tanks covers the horizontal hose guide line between the connections at the tanker and the connection fitting of the storage container plus 2.5 m in all directions (see Fig. 1-2).

#### Retention capacity:

- › The retention capacity for dispensing units is calculated from the fuel volume that can be dispensed at maximum flow within 3 minutes. For example, if a fuel pump has a rated pumping capacity of 50 litres/minute, a retention capacity of 150 litres is required.
- › For filling of the storage container, the retention capacity is defined by the fuel volume that may be dispensed at maximum flow within the time until automatic activation of safety equipment. If a filling hose protection mechanism (ASS) is applied,

- a retention capacity of 100 litres is required. However, if equipment with attention button and emergency off switch (ANA) is applied, a retention capacity of 900 litres is required.
- › If fuel is retained on the filling area, it must be ensured that any leaked diesel fuel, biodiesel or vegetable oil fuel or aqueous urea solution is not carried over from the filling area. In the event of damage, vehicles may only leave the filling area after cleaning soiled tires and other soiled vehicle parts.

### STORAGE CONTAINERS

- › Construction products, e.g. containers according to DIN, containers with compliance certificate or general technical approval
- › Approval for installation outdoors and in buildings
- › Double-walled within the meaning of AwSV or with collection tray
- › Collision buffer device
- › Overfill protection, e.g. fill limit sensor<sup>1</sup>
- › Filling with fixed connection<sup>1</sup>


### DISPENSING UNIT

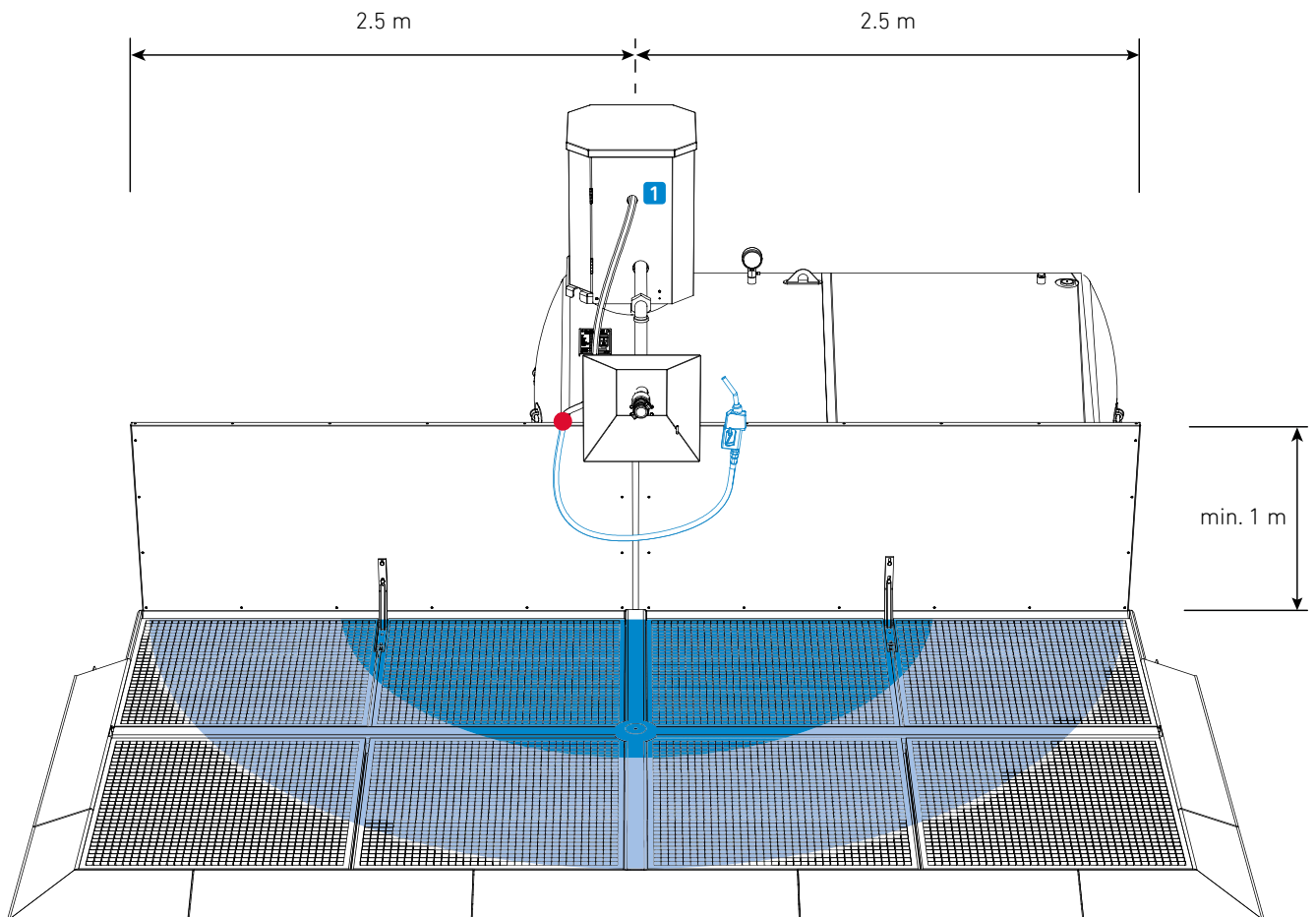
- > Automatic discharge nozzle
- > Emergency off switch
- > Siphon protection valve
- > Emergency separation coupling (breakaway coupling)

**Obligations for the operator**

- > Competent planning and design, ideally by utilising a specialised company in collaboration with the competent local authority
- > Obligation to notify in the case of installations with a volume of more than 1,000 l or in general in protected areas
- > Building application for installations with a volume of more than 10,000 l
- > Building application for installations with a volume of more

- than 10,000 l
- > Preparation of an installation documentation system
- > Expert assessor inspection before commissioning and recurring every 5 years for installations with a volume of more than 10 m<sup>3</sup> and generally in protected areas (AwSV)
- > Inspection and testing for correct operation, leak tightness of the installation and function of the safety equipment once a year by the operator
- > Hanging up the operating instructions
- > Annual instructions for the personnel
- > Provision of a fire extinguisher and oil binding agent

 Please note that your local authority may impose other requirements which are adapted to local conditions.



■ Hose length range – 1.5 m      ■ Operating range – 2.5 m      ● Discharge hose starting point

Fig. 1 -2: Composition of a Rietberg on-site filling station in accordance with AwSV: KAP-GIRO filling bay with splash guard wall and KA 3000 storage container

**1** Twin hose system (not represented)  
 1 For fuel systems with up to 1.25 m<sup>3</sup>, simplified conditions apply!

# PETROL TANK SYSTEMS

## KA



[PETROL]



### Legally compliant storage

- › Manufactured in accordance with DIN 6623-2 and therefore approved throughout Germany for the storage of petrol and other flammable liquids of all kinds as well as other liquids or fluids which are hazardous to water up to a density of maximum 1.9 kg/l
- › Approved for outdoor installation and in buildings
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls

### Simple handling, cost-saving and reduced time

- › Storage without additional collecting tray and without special collection space

### Space saving

- › Double-wall construction within the meaning of AwSV, so that no spacing between tanks is required when several tanks are set up close to each other

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside) or untreated on the inside, coated on the outside for installation indoors<sup>1</sup>
- › When requested, can be delivered untreated on the inside, coated on the outside for installation outdoors (all RAL colours possible)

<sup>1</sup> Coating for outdoor installation upon request

**1** Figure similar

**2** KA untreated inside and coated outside in RAL 3001 signal red

**3** Swing door cabinet (optional), refer to P. 18 120

- › The containers are designed as explosion-pressure shock resistant and can therefore even withstand an explosion on the inside

### Secure and safe transport

- › Closed base construction for safe In-company empty container transport with fork-lift truck or industrial pallet truck
- › 2 crane lifting lugs for safe and secure crane lifting according to DGUV Information Sheet 209-013 (empty transportation)

### Convenient and safe operation

- › Equipped as standard with all required connections and fittings
- › Easy to read dipstick for filling level control
- › Limiting value transmitter for safe filling by a fuel tanker
- › Connection for a gas displacement pipe for safe return of the displaced gas-air mixture to the fuel tanker

### Increased anti-theft protection

- › Lockable swing door cabinet for protecting the fittings and high-value dispensing pumps
- › Lockable filling pipe closure 2" / 2 1/2"

Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Item no.	
	L	W	H <sup>1</sup>			Hot dip galvanized	Coated
KA 400	1000	1000	900	160	DIN 6623-2	71108	71109
KA 600	1000	1000	1150	190	DIN 6623-2	71110	71111
KA 995	1250	1250	1250	250	DIN 6623-2	71112	71113
<b>WITH FLAME-PROOF FITTINGS</b>							
KA-FLD 400	1000	1000	900	160	DIN 6623-2	514007	-
KA-FLD 600	1000	1000	1150	190	DIN 6623-2	514008	-
KA-FLD 995	1250	1250	1250	250	DIN 6623-2	514011	-



The height, including ventilation line, is 4 m above floor level for all container dimensions.

Accessories

Type	Description	Item no.
Small swing door cabinet	For containers < 1000 L; Made of steel, powder-coated RAL 5003, dimensions (L x W x H): 520 x 475 x 700 mm	85971

ELECTRIC PUMPS



Design:

Dry operating self-priming vane pump with integrated bypass valve for protection against pump damage.

Scope of delivery:

Petrol pump with explosion-proof 230 V AC motor, 10 m connection cable with Schuko plug for utilisation outside explosion zones, 4 m electrically conductive hose set (NW 19) with angular swivel joint and automatic discharge nozzle (NW 16); including assembly adapter and assembly on Rietberg container ordered with it.

Type	Delivery rate [l/min]		Voltage [V]	Description	Item no.
	Nominal <sup>2</sup>	Effective <sup>3</sup>			
R50 230ex	50	45	AC 230	See scope of delivery	97148
Power connection (AC)	AC plug for utilisation within Ex-zone 1 and 2				99397
EX	AC plug for utilisation within Ex-zone 1 and 2				99398



The pump is suitable for flammable liquids or fluids and is equipped with corresponding explosion protection. The plug-in connectors offered may only be utilised in the respective valid areas. The ex-zones must be clearly defined by the operator (refer to the Industrial Safety Ordinance). If ex-zones could occur in the area of the power supply point, then explosion-protected plug-in connectors and coupling systems must always be utilised.

1 Height without double-door cabinet

2 Indicated nominal power of the manufacturer with free outlet

3 Power detected during the test with a suction height of 1m and equipped with 4 m discharge hose and automatic discharge nozzle

## MANUAL PUMPS

## Design:

Double-acting, reciprocating pump for energy-independent, manual dispensing of small quantities of fuel.

## Scope of delivery:

Manual petrol pump with 4 m electrically conductive hose set (NW 19), angular swivel joint and automatic discharge nozzle (NW 16); including assembly adapter and assembly on Rietberg container ordered with it.

Type	Delivery rate [l/stroke]	Description	Hose	Item no.
TP 3 KA	0.35	High-quality robust design for energy-independent dispensing of smaller fuel quantities	NW 19	505206

## FLOW METER

Type	Description	Flow rate [l/min]		Item no.
		Min.	Max.	
PZ300ex	Mechanical, not calibratable, Ex-protected roller flow meter for assembly on a pump	20	120	97149
EZ24ex	Digital, not calibratable, Ex-protected turbine flow meter for assembly on a nozzle	7	120	46026

## DISCHARGE HOSES &amp; HOSE REELS

Type	Description	Item no.	
		NW19	NW25
Hose set for petrol	Electrically conductive hose set for petrol with 1" female thread (the first metre includes the screw fittings); hose length according to customer's requirements	31829	83679
	Each additional metre	31829-1	83679-1
Hose reel	Hose reel, explosion-protected, with 10 m electrically conductive hose NW 19, spring return and outlet window; including fixing material and connection hose to pump	512449	-
Bracket for petrol hose reel	Steel, hot dip galvanized bracket for securely fitting a hose reel on a KA petrol fuel storage tank	98117	98117
Breakaway coupling	Separates the hose line and the nozzle independently and with a tight seal if put under too high a mechanical load.	41174	41174

## FILTER

Type	Description	Item no.	Price [€]
Fuel filter	Mounted on the pressure side of a pump for protection against contamination and water, filter mesh (30 µm, max, 65 l/min flow) The flow is blocked if the filter cartridge is fully saturated	73165	165,-
Replacement cartridge	Replacement filter cartridge for the fuel filter	39759	91,-



# REQUIREMENTS FOR PETROL ON-SITE FILLING STATIONS ACCORDING TO TRWS 781

## Meaning and components

In accordance with AwSV [German directive on systems to handle substances hazardous to water] § 2(12), on-site filling stations are petrol stations which are non-accessible for the public and intended to fill company-internal vehicle or comparable vehicles and devices with fuel and which have a yearly throughput of maximally 100 m<sup>3</sup>. They are only operated by the operator or personnel instructed by the operator. On-site filling stations consist of an above-ground storage container, a dispensing unit and a filling area.

## Components

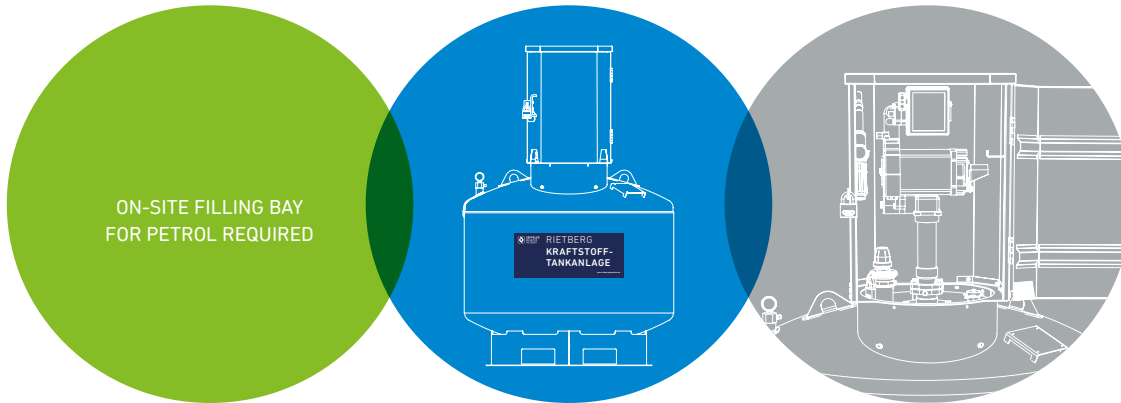


Fig. 1 -1: Example for components of a Rietberg petrol on-site filling station: KA 995 storage container and dispensing equipment

### FILLING BAY

#### Size of the filling area:

- › For discharge, the size of the filling bay is defined by the operating range. This is calculated from the max. hose length including nozzle plus 1 m.
- › Operating ranges can be reduced by splash protection walls.
- › A splash protection wall with a minimum height of 1 m and sufficient width is required.
- › The operating range for filling storage tanks includes the horizontal hose guide line between the connections on the tanker and the connection fitting on the storage container plus 2.5 m in all directions.

#### Retention capacity:

- › The retention capacity for dispensing units is calculated from the fuel volume that can be dispensed at maximum flow within 3 minutes. For example, if a fuel pump has a rated pumping capacity of 50 litres/minute, a retention capacity of 150 litres is required.
- › For filling of the storage container, the retention capacity is defined by the fuel volume that may be dispensed at maximum flow within the time until automatic activation of safety equipment. If a filling hose protection mechanism (ASS) is used during filling, a retention capacity of 100 litres is required. However, if equipment with alert button and emergency off switch (ANA) is used during filling, a retention capacity of 900 litres is required.

### STORAGE CONTAINERS

- › Construction products, e.g. containers according to DIN, containers with compliance certificate or general technical approval
- › Approved for outdoor installation
- › Double-walled within the meaning of AwSV or with collection

tray

- › Collision buffer device
- › Overfill protection, e.g. fill limit sensor
- › Filling with fixed connection
- › Gas displacement connection for filling the container

### DISPENSING UNIT

- › Automatic discharge nozzle
- › Emergency off switch
- › Siphon protection valve
- › Emergency separation coupling (breakaway coupling)

### Obligations for the operator

- › Competent planning and design, ideally by utilising a specialised company in collaboration with the competent local authority
- › Application for a permit and building permits
- › Building application for installations with a volume of more than 10,000 l
- › Creating an explosion protection documentation
- › Creating and managing an installation documentation system
- › Expert assessor inspection before commissioning and in protected areas repeated every 5 years (AwSV)
- › Expert assessor inspection before commissioning and recurring every 6 years for plants and/or systems with a volume of more than 10 m<sup>3</sup> and generally in protected areas (AwSV)
- › Inspection and testing for correct operation, leak tightness of the installation and function of the safety equipment once a year by the operator
- › Hanging up the operating instructions
- › Annual instructions for the personnel
- › Provision of a fire extinguisher and oil binding agent



To the storage of hazardous substances, depending on the protection objective, regulations from several areas apply, e.g. occupational safety, fire and explosion safety or environmental protection (water, air). The provisions of the various laws and related regulations and technical rules shall all be observed at the same time.

Rietberg storage containers were designed specifically for the storage of water-polluting and/or flammable liquid hazardous substances. They meet the requirements of all relevant provisions applicable to the storage of such liquids. Here, it does not matter whether the liquid is "only" water-polluting (e.g. motor

oil) or also hardly (e.g. heating oil) or highly (e.g. ethanol) flammable.

Rietberg storage containers provide a legally compliant, secure and appropriate solution for every application. They are available in cubic or cylindrical design and in sizes of 400 to 16,000 litres of volume.

The surface design depends on the application and the medium to be stored. Completely, i.e. internally and externally, hot dip galvanized containers, coated containers or containers made of 100% stainless steel are available. Additionally, containers with special interior coating, e.g. with an acid-resistant rubber coating, can be supplied.

04

# STATIONARY STORAGE TANKS



# STORAGE TANKS FOR FIRE-RESISTANT FLUIDS

## MT-SE

[FIRE-RESISTANT FLUIDS]



### Legally compliant storage

- › General construction approval valid throughout Germany as a storage container for flammable and other liquids or fluids which are hazardous to water
- › For used oil up to an operating temperature of 95 °C
- › Approved for outdoor installation and in buildings
- › Approved for media with a flash point above 55 °C, such as fresh oil or diesel/heating oil, but also used oil of known origin
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls

### Individually configurable

- › Variable height containers can be delivered for individual adaptation to suit structural circumstances
- › Available with 2 or 3 chambers (e.g. fresh oil and used oil)
- › Design for flood-risk areas (refer to P. 142)

### Simple handling, cost-saving and reduced time

- › Storage without additional collecting tray and without special collection space
- › Slim design for simpler installation in buildings, rooms and through doors

### Space saving

- › Optimal space utilisation by means of a cube shape
- › Double-walled within the meaning of AwSV so that limited spacing is required between them when numerous tanks are installed below each other

### Durable and sustainable

- › Manufactured entirely of steel
- › Untreated on the inside and coated on the outside in RAL 7035 for indoor installation<sup>1</sup>
- › MT 900 and MT 1300 can also be supplied as hot dip galvanized on the inside and outside
- › All containers available in stainless steel on request

### Secure and safe transport

- › Closed base construction for safe In-company empty container transport with fork-lift truck or industrial pallet truck
- › Also with strengthened base construction for safe, regular in-house transport of the filled container with fork-lift truck or industrial pallet truck
- › Crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Individual equipment and facilities enables user-compliant and practice-compliant solutions
- › The stable, removable dome lid enables practically all commercially available equipment, e.g. also heavy pumps, to be directly installed on it
- › Continuous, mechanical and easily readable fuel gauge
- › Dome with 500 mm diameter and 6 free 2" threaded sockets

<sup>1</sup> Paintwork for outdoor installation, accessories Art. No. 98786

Available models

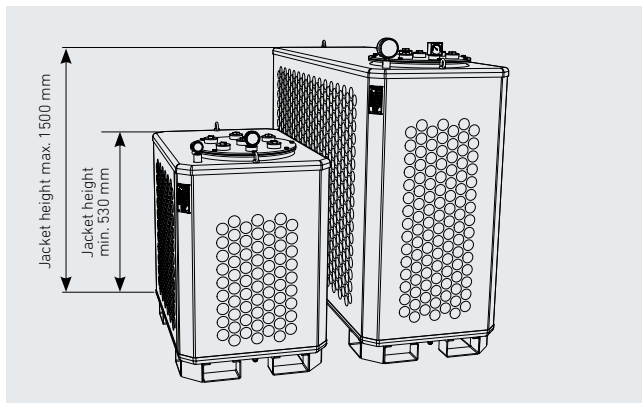
STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Item no.	
	L	W	H			Hot dip galvanized	Coated RAL 7035
<b>FIRE-RESISTANT FLUIDS</b>							
MT-se 900	1200	800	1290	200	Z-38,12-41	82810	82968
MT-se 1300	1200	800	1750	260	Z-38,12-41	81014	89850
MT-se 2000	1800	800	1750	370	Z-38,12-41	-	89852
MT-se 2400	2200	800	1750	420	Z-38,12-41	-	89853
<b>DESIGN FIRE RESISTANT FLUIDS MOBILE<sup>1</sup></b>							
MT M-se 900	1200	800	1290	200	Z-38,12-41	72123	72121
MT M-se 1300	1200	800	1750	260	Z-38,12-41	72124	84411
MT M-se 2000	1800	800	1750	370	Z-38,12-41	-	84731
MT M-se 2400	2200	800	1750	420	Z-38,12-41	-	83426

MATERIAL VERSIONS

Designation	Internal wall	External wall
Steel, Basic <b>1</b>	Steel, untreated	Steel, painted
Steel, Premium <b>2</b>	Steel, galvanized	Steel, galvanized
Steel, Premium+	Steel, galvanized	Steel, galvanized and coated
Stainless steel combination	Stainless steel 1.4301, brushed seams	Steel, coated
Stainless steel Basic	Stainless steel 1.4301, pickled	Stainless steel 1.4301, pickled
Stainless steel Premium <b>3</b>	Stainless steel 1.4571, pickled	Stainless steel 1.4571, pickled
Special coating	Additional external painting for a stainless steel container in RAL colour according to customer request (corrosion protection Class C3)	

MULTI-TANK WITH VARIABLE HEIGHT



For adjustment to structural conditions like the utilization of recesses, multi-tanks are available with a variable jacket height between 530 and 1500 mm. With a constant surface area, the total height and the capacity of the container are adjusted.

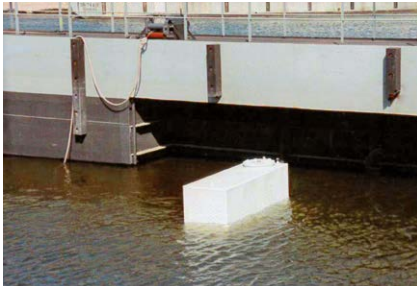
The container height up to the upper base is defined by the jacket height +100 mm and the total container height (leakage indicator top edge) by the jacket height +260 mm.

For information on the capacity, please refer to the following table.

Type / Capacity	Dimensions [mm]			Volume/100 mm Jacket height [l]	Approval	Item no.	
	L	W	H			Hot dip galvanized	Coated RAL 7035
<b>FIRE-RESISTANT FLUIDS</b>							
MT-VH-se 1300	1200	800	92		Z-38,12-41	71304	83980
MT-VH-se 2000	1800	800	140		Z-38,12-41	-	83981
MT-VH-se 2400	2200	800	170		Z-38,12-41	-	83982
<b>DESIGN FIRE-RESISTANT FLUIDS MOBILE<sup>1</sup></b>							
MT-M-VH-se 1300	1200	800	92		Z-38,12-41	510513	510514
MT-M-VH-se 2000	1800	800	140		Z-38,12-41	-	510515
MT-M-VH-se 2400	2200	800	170		Z-38,12-41	-	510516

<sup>1</sup> Durable base construction designed for in-house transport of the filled container with forklift equipment

MULTI-TANK FOR FLOOD AREAS



Multi-tanks may also be installed in flood areas. For this purpose, the containers are equipped with a dipstick instead of a filling level indicator. Especially approved and certified anchor elements are used to secure the containers against the lifting forces in case of flooding. This way, installation is possible up to flooding of 3.0 m above floor level

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Item no.	
	L	W	H			Hot dip galvanized	Coated RAL 7035
<b>FIRE-RESISTANT FLUIDS</b>							
MT-Ü-se 900	1200	800	1290	200	Z-38,12-41	96596	72543
MT-Ü-se 1300	1200	800	1750	260	Z-38,12-41	96597	72544
MT-Ü-se 2000	1800	800	1750	370	Z-38,12-41	-	72546
MT-Ü-se 2400	2200	800	1750	420	Z-38,12-41	-	72547
<b>ACCESSORIES</b>							
Anchoring element	Basic unit for the first container					72516	72516
	Extension for each additional container					72588	72588

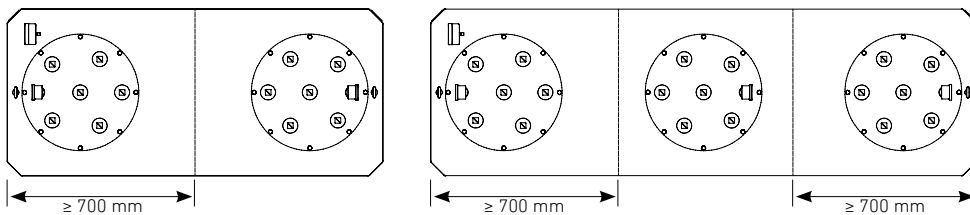
MULTI-CHAMBER MULTI-TANK



Multi-tanks with multiple chambers are the perfect solution for storage of different fluids in restricted spaces. Depending on the base area of the container, models with 2 or 3 chambers are available. Each chamber is equipped with a separate dome and respective connection options.

The containers feature standard single-walled partitions. Double-walled partitions are available on request and provide added security.

Type / Capacity	Description	Dimensions [mm]			Weight [kg]	Approval	Coated RAL 7035
		L	W	H			Item no.
<b>FIRE-RESISTANT FLUIDS</b>							
MT-2K-se 2000	2-chamber multi-tank	1800	800	1750	430	Z-38,12-41	73346
MT-2K-se 2400	2-chamber multi-tank	2200	800	1750	500	Z-38,12-41	73347
MT-3K-se 2400	3-chamber multi-tank	2200	800	1750	520	Z-38,12-41	73348




^  
2-chamber partition  
MT-2K-se 2000 to MT-2K-se 2400

^  
3-chamber partition  
MT-3K-se 2400



**Accessories**

Type / Capacity	Description	Item no.
C3 coating	MT/MS: Paintwork in RAL 7035 for outdoor installation (corrosion protection class C3) or in other RAL colours	98786
Fittings set Supply MT	<b>1</b> For all MT: Filler line with lockable 2" / 2 1/2" safety screw fitting, 2" ventilation nozzle with cap, suction line with 1" external thread for line connection	75700
Fittings set Disposal MT	<b>2</b> For all MT: Filler line with 2" external thread port, 2" ventilation nozzle with cap, suction line with 2" / 2 1/2" safety screw fitting	81779
Fitting set diesel fuel MT	<b>3</b> For all MT: Filler line with lockable safety screw fitting, suction line with pump port (SAE flange) and base filter, fill limit sensor and ventilation nozzle with 2" cap	84074
Nozzle bracket	Nozzle holder with shut-off return line for drip volumes	300504
Swing door cabinet	Swing door cabinet including adapter ring and assembly material for assembly purposes. Dimensions (L x W x H): 650 x 650 x 800 mm	505209
Fill limit sensor	KA, MT: To prevent container overfilling when filling from a fuel tanker with permanently coupled pipe Only approved for diesel/heating oil and petrol	31825
Pressure sensor-se (fire-resistant)	Pressure sensor for remote monitoring of the leakage indicator	79195

 For additional equipment such as overfill protection, please refer to P.154, diesel pumps on P.59 and oil pumps on P. 82.

# STORAGE TANKS FOR FIRE-RESISTANT FLUIDS



## LT-SE



### Legally compliant storage

- › Approved according to EN 12285-2 or with general building authority approval, which is valid throughout Germany, as a storage container and therefore approved for the storage of fire-resistant fluids (flash point over 55 °C) and other water-polluting liquids or fluids.
- › Approved for outdoor installation and in buildings
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls

### Can be configured for needs-based solutions

- › Stable, removable dome lid with 500 mm or 600 mm diameter and 5 free threaded sockets
- › The stable, removable dome lid enables practically all commercially available equipment, e.g. overfill safety devices or heavy pumps, to be fitted on it

### Simple handling, cost-saving and reduced time

- › Storage without additional collecting tray and without special collection space is possible

### Space saving

- › Double-walled within the meaning of AwSV so that limited spacing is required between them when numerous tanks are installed below each other

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside<sup>1</sup> (all RAL colours are possible) or stainless steel can be delivered

### Secure and safe transport

- › Crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Permanently opened ventilation and extraction pipe
- › Easy to read dipstick for filling level control



Do you require special equipment which we do not stock? Please do not hesitate to contact us, we can always take care of the corresponding components and deliver the correct product according to your requirements.

<sup>1</sup> Leakage indicator for container EN 12285-2

<sup>2</sup> Similar to illustration





Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Hot dip galvanized
	L	W	H			Item no.
LT-se 1500	2100	1000	1300	360	Z-38,12-325	506663
LT-se 2000	2800	1000	1300	460	Z-38,12-325	506664
LT-se 3000-100	4050	1000	1300	610	Z-38,12-325	506665
LT-se 3000-125	2700	1250	1570	580	Z-38,12-325	506666
LT-se 3500	3100	1250	1570	630	Z-38,12-325	506667
LT-se 5000-125	4350	1250	1570	850	Z-38,12-325	506668
LT-se 5000-140	3650	1400	1760	1100	Z-38,12-51	510418
LT-se 5000-160	2690	1600	2000	1100	EN 12285-2	506670
LT-se 7500-140	5250	1400	1760	1500	Z-38,12-51	506671
LT-se 7500-160	4100	1600	2000	1580	EN 12285-2	506672
LT-se 10000-140	6800	1400	1760	1800	Z-38,12-51	510420
LT-se 10000-160	5350	1600	2000	1950	EN 12285-2	506674
LT-se 13000	6970	1600	2000	2500	EN 12285-2	506675
LT-se 16000	8600	1600	2000	3100	EN 12285-2	506676

Accessories



Type	Description	Item no.
Fitting set for LT-se/elh supply	<b>3</b> For LT ≥ 1000 l: Filler line with 2" / 2½ safety screw fitting, suction line with 1" external thread port	98096
Fitting set for Disposal of LT-se/-elh	<b>4</b> For LT ≥ 1000 l: Filler line with 2" internal thread port, suction line with 2" / 2½" safety screw fitting	98097
Inspection dome DOM	<b>5</b> Inspection dome for fire-resistant fluid containers, 500 mm diameter, plain dome cover screw-connected to the dome flange	88942
Pressure sensor-se (fire-resistant)	<b>6</b> Pressure sensor for remote monitoring of the leakage indicator	79195



For additional equipment such as overfill protection, please refer to P.154.

# STORAGE TANKS FOR FLAMMABLE FLUIDS

## MT-ELH

[FLAMMABLE FLUIDS]



### Legally compliant storage

- › General construction approval valid throughout Germany as a storage container for flammable and other liquids or fluids which are hazardous to water
- › For used oil up to an operating temperature of 95 °C
- › Approved for outdoor installation and in buildings
- › Approved for flammable media of all kinds, such as petrol or paraffin but also for used oil of known origin
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Explosion-pressure resistant

### Individually configurable

- › Variable height containers can be delivered for individual adaptation to suit structural circumstances

### Simple handling, cost-saving and reduced time

- › Storage without additional collecting tray and without special collection space
- › Slim design for simpler installation in buildings, rooms and through doors

### Space saving

- › Optimal space utilisation by means of a cube shape
- › Double-walled within the meaning of AwSV so that limited spacing is required between them when numerous tanks are installed below each other

### Durable and sustainable

- › Manufactured entirely of steel
- › Untreated on the inside and coated on the outside for indoor installation<sup>1</sup> in RAL 7035 light grey. Other RAL colours possible
- › MT 900 and MT 1300 can also be supplied as hot dip galvanized on the inside and outside
- › All containers available in stainless steel on request

### Secure and safe transport

- › Closed base construction for safe In-company empty container transport with fork-lift truck or industrial pallet truck
- › Also with strengthened base construction for safe, regular in-house transport of the filled container with fork-lift truck or industrial pallet truck
- › Crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Individual equipment and facilities enables user-compliant and practice-compliant solutions
- › The stable, removable dome lid enables practically all commercially available equipment, e.g. also heavy pumps, to be directly installed on it
- › Dipstick
- › Dome with 500 mm diameter and 6 free 2" threaded sockets

<sup>1</sup> Paintwork for outdoor installation, accessories Art. No. 98786

<sup>4</sup> Similar to illustration

Available models

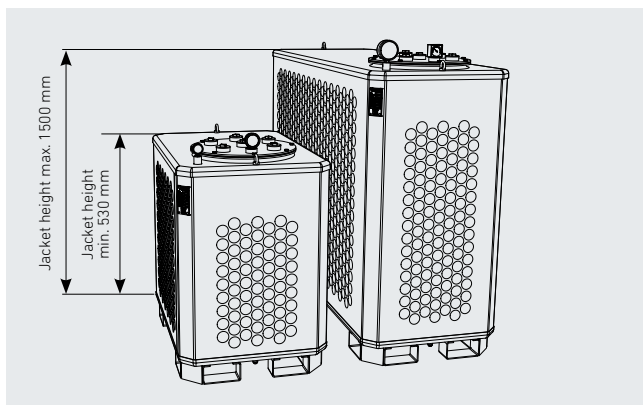
STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Item no.	
	L	W	H			Hot dip galvanized	Coated RAL 7035
<b>FLAMMABLE FLUIDS</b>							
MT-elh 900	1200	800	1290	240	Z-38,12-41	84843	81545
MT-elh 1300	1200	800	1750	300	Z-38,12-41	84844	81550
MT-elh 2000	1800	800	1750	410	Z-38,12-41	-	84892
MT-elh 2400	2200	800	1750	460	Z-38,12-41	-	84893
<b>MOBILE FLAMMABLE FLUIDS DESIGN<sup>1</sup></b>							
MT-M-elh 900	1200	800	1290	240	Z-38,12-41	509170	99151
MT-M-elh 1300	1200	800	1750	300	Z-38,12-41	510501	502679
MT-M-elh 2000	1800	800	1750	410	Z-38,12-41	-	510502
MT-M-elh 2400	2200	800	1750	460	Z-38,12-41	-	510503

MATERIAL VERSIONS

Designation	Internal wall	External wall
Steel, Basic <b>1</b>	Steel, untreated	Steel, painted
Steel, Premium <b>2</b>	Steel, galvanized	Steel, galvanized
Steel, Premium+	Steel, galvanized	Steel, galvanized and painted
Stainless steel combination	Stainless steel 1.4301, brushed seams	Steel, coated
Stainless steel Basic	Stainless steel 1.4301, pickled	Stainless steel 1.4301, pickled
Stainless steel Premium <b>3</b>	Stainless steel 1.4571, pickled	Stainless steel 1.4571, pickled
Special coating	Additional external painting for a stainless steel container in RAL colour according to customer request (corrosion protection Class C3)	

MULTI-TANK WITH VARIABLE HEIGHT



For adjustment to structural conditions like the utilization of recesses, multi-tanks are available with a variable jacket height between 530 and 1500 mm. With a constant surface area, the total height and the capacity of the container are adjusted

The container height up to the upper base is defined by the jacket height +100 mm and the total container height (leakage indicator top edge) by the jacket height +260 mm.

For information on the capacity, please refer to the following table.

Type / Capacity	Dimensions [mm]		Volume/100 mm Jacket height [l]	Approval	Item no.	
	L	W			Hot dip galvanized	Coated RAL 7035
<b>FLAMMABLE FLUIDS</b>						
MT-VH-elh 1300	1200	800	92	Z-38,12-41	71706	73874
MT-VH-elh 2000	1800	800	140	Z-38,12-41	-	96598
MT-VH-elh 2400	2200	800	170	Z-38,12-41	-	77318
<b>DESIGN FLAMMABLE FLUIDS MOBILE</b>						
MT-M-VH-elh 1300	1200	800	92	Z-38,12-41	510509	510510
MT-M-VH-elh 2000	1800	800	140	Z-38,12-41	-	510511
MT-M-VH-elh 2400	2200	800	170	Z-38,12-41	-	510512

<sup>1</sup> Durable base construction designed for in-house transport of the filled container with forklift equipment



^


MT-ELH 900 with overfill protection, on page 154

< MT-ELH with overfill protection and control cabinet, on page 154



Accessories

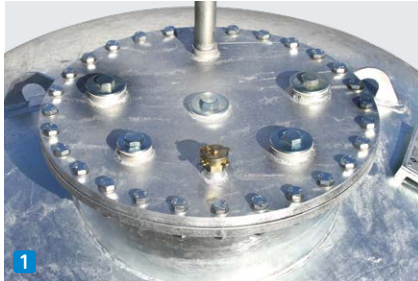
Type / Capacity	Description	Item no.
C3 coating	MT/MS: Paintwork in RAL 7035 for outdoor installation (corrosion protection class C3) or in other RAL colours	98786
Fittings set Supply MT	<b>1</b> For all MT: Filler line with lockable 2" / 2 ½" safety screw fitting, 2" ventilation nozzle with cap, suction line with 1" external thread for line connection	75700
Fittings set Disposal MT	<b>2</b> For all MT: Filler line with 2" external thread port, 2" ventilation nozzle with cap, suction line with 2" / 2 ½" safety screw fitting	81779
Fitting set for gasoline MT	For MT-elh 900: Filler line with lockable safety screw connection 2" / 2 ½", suction line with pump port (SAE flange) and base filter, fill limit indicator, ventilation nozzle with ventilation cap, gas balance port	84075
	For MT-elh 1300 - 2400: Filler line with lockable safety screw connection 2" / 2 ½", suction line with pump port (SAE flange) and base filter, fill limit indicator, ventilation nozzle with ventilation cap, gas balance port	76099
Swing door cabinet for MT-elh	Swing door cabinet including adapter ring and assembly material for assembly purposes. Dimensions (L x W x H): 650 x 650 x 800 mm	505210
Ventilation and extraction pipes	Ex-area deflagration and endurance burning proof ventilation hood to protect the ventilation duct against the penetration of fire or atmospheric deflagration into the interior of a container, Approved for materials from explosion group IIA	47822
Detonation protection filling line	Liquid-detonation flame arrester for the filling pipe, preventing combustion from transferring to the tank in the event of ignition of an explosive atmosphere	98358
Fill limit sensor	KA, MT: To prevent container overfilling when filling from a fuel tanker with permanently coupled pipe Only approved for diesel/heating oil and petrol	31825
Pressure sensor-elh	Pressure sensor for remote monitoring of the leakage indicator with ATEX approval	76539

 For additional equipment such as overfill protection, please refer to P.154, petrol pumps on P.135 and oil pumps on P.84

# STORAGE TANKS FOR FLAMMABLE FLUIDS

## LT-ELH

[FLAMMABLE FLUIDS]



### Legally compliant storage

- › Manufactured according to DIN 6623-2 and therefore approved throughout Germany for storing flammable fluids (flashpoint under 55 °C) and other fluids and liquids which are hazardous to water
- › Approved for outdoor installation and in buildings
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls

### Can be configured for needs-based solutions

- › **LT-elh design**
  - › Stable, removable dome lid with 5 free threaded sockets (1 x 1½", 4 x 2")
  - › All commercially available equipment such as overflow safety devices or heavy pumps can be assembled
- › **LT-B-elh design**
  - › Viewing opening Ø 120 mm with blank lid, 1 free pipe spigot 2" external thread and 2 free threaded sockets (1 x 1", 1 x 2")

### Simple handling, cost-saving and reduced time

- › Storage without additional collecting tray and without special collection space is possible

### Space saving

- › Double-walled within the meaning of AwSV so that limited spacing is required between them when numerous tanks are installed below each other

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours possible) or in stainless steel

### Secure and safe transport

- › Closed base construction for safe, occasional in-house transportation of empty containers with fork-lift truck or industrial pallet truck
- › Also with strengthened base construction for safe, regular in-house transportation of empty containers with fork-lift truck or industrial pallet truck.
- › Crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Permanently opened ventilation and extraction pipe
- › Easy to read dipstick for filling level control
- › Explosion-pressure shock resistant design, which can even withstand an explosion on the inside.



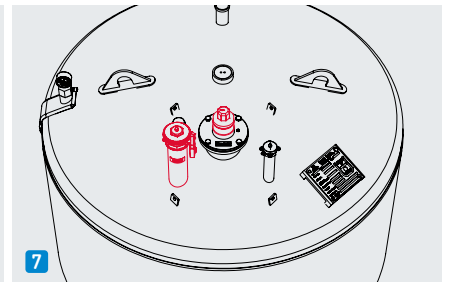
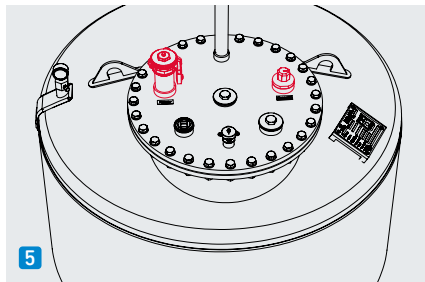
Do you require special equipment which we do not stock? Please do not hesitate to contact us, we can always take care of the corresponding components and deliver the correct product according to your requirements.

Available models


Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Hot dip galvanized
	L	W	H			Item no.
<b>LT-ELH DESIGN</b>						
LT-elh 400	1000	1000	1100	220	DIN 6623-2	98657
LT-elh 600	1000	1000	1360	260	DIN 6623-2	98658
LT-elh 995 <b>1</b>	1250	1250	1450	310	DIN 6623-2	98659
<b>LT-B-ELH DESIGN</b>						
LT-B-elh 400	1000	1000	1100	220	DIN 6623-2	71343
LT-B-elh 600	1000	1000	1360	260	DIN 6623-2	71344
LT-B-elh 995 <b>2</b>	1250	1250	1450	310	DIN 6623-2	71345
<b>DESIGN LT-ELH MOBILE <sup>1</sup></b>						
LT-M-elh 400	1000	1000	1100	220	DIN 6623-2	510408
LT-M-elh 600	1000	1000	1360	260	DIN 6623-2	510409
LT-M-elh 995	1250	1250	1450	310	DIN 6623-2	510410
<b>LT-B-ELH MOBILE DESIGN</b>						
LT-B-M-elh 400	1000	1000	1100	220	DIN 6623-2	510411
LT-B-M-elh 600	1000	1000	1360	260	DIN 6623-2	510412
LT-B-M-elh 995	1250	1250	1450	310	DIN 6623-2	510413

 The height, including ventilation line, is 4 m above floor level for all container dimensions.

Accessories



Type	Description	Item no.
DOM III <sup>2</sup>	<b>3</b> Cleaning dome for GS / GD / LT 995/40, 0 mm diameter, domed folding cover secured with 4 eyebolts	85996
Additional collar 2" I	For fitting an overfill protection in a storage or collection container from the AS / GS / GD /LT series	83674
Additional collar 2" II	With filler line for filling via an additional fixed line for installation in a storage or collection container in the AS/GD /GS / LT series	83673
Fittings set Supply for LT-elh	<b>5</b> For LT < 1000 l: Filler line with 2 / 2½" safety screw fitting, suction line with 1" external thread connection	98661
Fittings set Disposal for LT-elh	<b>6</b> For LT < 1000 l: Filler line with 2" external thread connection, suction line with 2 / 2½" safety screw fitting	98660
Fittings set Supply for LT-B-elh	<b>7</b> Filler line with 2 / 2½" safety screw fitting, suction line with 1" external thread connection	98853
Fittings set Disposal for LT-B-elh	<b>8</b> Filler line with 2" external thread connection, suction line with 2 / 2½" safety screw fitting	98854
Pressure sensor-elh	Pressure sensor for remote monitoring of the leakage indicator with ATEX approval	76539

 For additional equipment such as overfill protection, please refer to P.154.

1 Durable base construction designed for in-house transport of the filled container with forklift equipment  
 2 Not compatible with GS/GD/LT 400/600

# STORAGE TANK FOR FLAMMABLE FLUIDS

## LT-ELH

[FLAMMABLE FLUIDS]



### Legally compliant storage

- › Valid general construction approval as a storage container and therefore approved throughout Germany for storing flammable fluids (flashpoint under 55 °C) and other fluids which are hazardous to water
- › Approved for outdoor installation and in buildings
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls

### Can be configured for needs-based solutions

- › Stable, removable dome lid with 500 mm diameter and 5 free threaded sockets (1 x 1 1/2", 4 x 2")
- › The stable, removable dome lid enables practically all commercially available equipment, e.g. overfill safety devices or heavy pumps, to be fitted on it

### Simple handling, cost-saving and reduced time

- › Storage without additional collecting tray and without special collection space is possible

### Space saving

- › Double-walled within the meaning of AwSV so that limited spacing is required between them when numerous tanks are installed below each other

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours possible) or in stainless steel

### Secure and safe transport

- › Crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Permanently opened ventilation and extraction pipe
- › Easy to read dipstick for filling level control
- › Explosion-pressure shock resistant design, which can even withstand an explosion inside itself.



Do you require special equipment which we do not stock? Please do not hesitate to contact us, we can always take care of the corresponding components and deliver the correct product according to your requirements.




Storage containers according to EN 12285-2 are available on request.

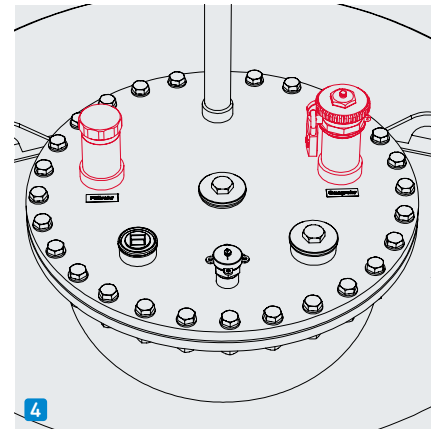
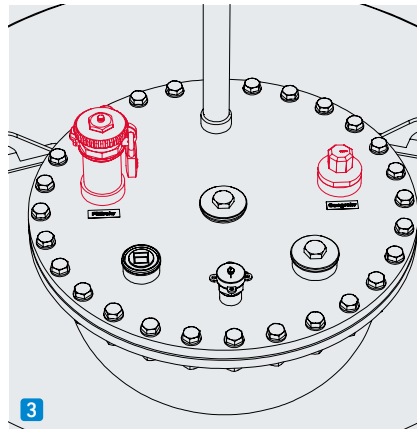


Available models


Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Hot dip galvanized
	L	W	H			Item no.
LT-elh 1000	1400	1050	1300	390	Z-38,12-51	98651
LT-elh 1500	2100	1050	1300	470	Z-38,12-51	98652
LT-elh 2000-100	2800	1050	1300	580	Z-38,12-51	98653
LT-elh 2000-125	1950	1300	1580	660	Z-38,12-51	98654
LT-elh 3000-100	4050	1050	1300	730	Z-38,12-51	98643
LT-elh 3000-125	2650	1300	1580	740	Z-38,12-51	98644
LT-elh 3500	3100	1300	1580	750	Z-38,12-51	98645
LT-elh 5000-125 <b>1</b>	4350	1300	1580	1020	Z-38,12-51	98646
LT-elh 5000-140	3650	1500	1700	1230	Z-38,12-51	98647
LT-elh 7500	5250	1500	1700	1580	Z-38,12-51	98649
LT-elh 10000	6800	1500	1700	1930	Z-38,12-51	98642

 The height, including ventilation line, is 4 m above floor level for all container dimensions.

Accessories



Type	Description	Item no.
Swing door cabinet for LT-elh	Swing door cabinet including adapter ring and assembly material for assembly purposes. Dimensions (L x W x H): 650 x 650 x 800 mm	513969
Inspection dome DOM <b>2</b>	Inspection dome for containers for flammable fluids, 500 mm diameter, smooth dome lid which is screwed together with the dome flange	85995
Ventilation and extraction pipes	Ex-area deflagration and endurance burning proof ventilation hood to protect the ventilation duct against the penetration of fire or atmospheric deflagration into the interior of a container, Approved for materials from explosion group IIA	47822
Detonation protection filling line	Liquid-detonation flame arrester for the filling pipe, preventing combustion from transferring to the tank in the event of ignition of an explosive atmosphere	98358
Fittings set Supply for LT-se/elh <b>3</b>	<b>For LT ≥ 1000 l:</b> Filling pipe with 2 / 2½" safety screw fitting and suction pipe with 1" external thread connection	98096
Fittings set Disposal for LT-se/-elh <b>4</b>	<b>For LT ≥ 1000 l:</b> Filling pipe with 2" external thread connection and suction pipe with 2 / 2½" safety screw fitting	98097
Pressure sensor-elh	Pressure sensor for remote monitoring of the leakage indicator with ATEX approval	76539

 For additional equipment such as overfill protection, please refer to P.154.

# OVERFILL PROTECTION DEVICES

If containers are filled in such a way that the filling level cannot be identified (i.e. via a fixed line), it has to be ensured that the container cannot be overfilled.

**Overfill protection devices generally consist of the following two components:**

- > Level sensor permanently fitted in the container with a PTC thermistor, which changes its electrical resistance on reaching the admissible filling level
- > Transducer generating an optical and acoustic signal from this change in resistance and via which the filling process can also be interrupted

For type-specific differences, please refer to the following table.

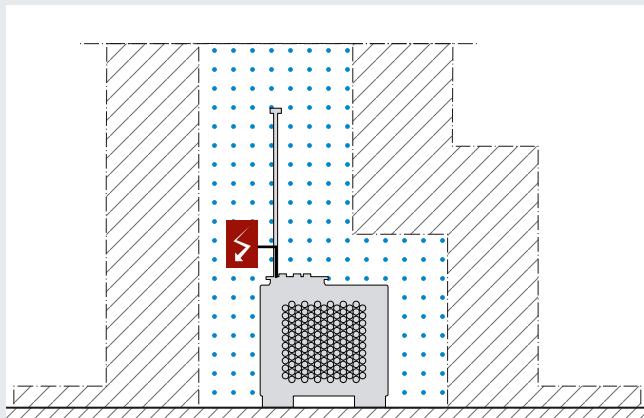
Scope of delivery:  
Level sensor, transducer, assembly on Rietberg container ordered with them

Type	Description	Item no.
<b>FIRE-RESISTANT FLUIDS</b>		
SE-Ü-40	Transducer, protection type IP 40, with simple bracket. Input/output for signal to external control	86286
	Transducer, protection type IP 40, with simple bracket. Input/output for signal to external control, including junction box for activating a pump	511221
Tanker connector	Tanker vehicle connector for wall assembly; to prevent overfilling when filling from a fuel tanker with permanently connected pipe	44687
SE-ÜI-64	Level indicator displayed in percent and height in centimetres with integrated overfill protection, control cabinet protection class IP 64 with transducer for on-site wall mounting, fill-level sensor with float fitted in the container	300363

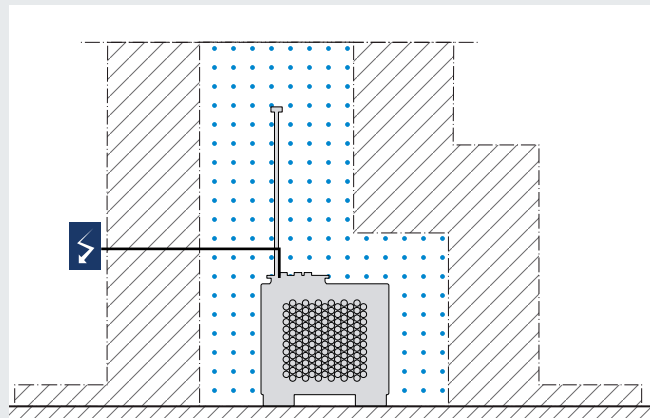


Further implementations also available for use within the EX zones upon request.

### Example for EX zone classification



OPTION I:



OPTION II:



**Zone 0:** Zone 0 is the interior of a storage container including feed and ventilation lines. In this area, dangerous explosive atmospheres occur permanently or frequently.



**Zone 1:** In this area in the vicinity of openings, dangerous explosive atmospheres may occur occasionally during operation.



**Zone 2:** The area within an extended radius of a container where dangerous explosive atmospheres do not normally occur or only temporarily.



**No EX zone:** No flammable vapour/air mixtures



**IP 54 control cabinet**



**Control cabinet with EEx-d housing**



**Ventilation line**

# LEGAL REQUIREMENTS FOR STORAGE CONTAINERS

The requirements for installation of storage containers for water-polluting, non-flammable substances, fire-resistant (formerly technical rules for flammable fluids TRbF AIII) and flammable fluids (elh-fluids, formerly flammable fluids class A1, AII and B) are defined for Germany in the ordinance on Industrial Safety and Health (BetrSichV) of the technical rules for operating safety (TRBS) and the ordinance on Installations for the Handling of Substances Hazardous to Water (AwSV). The Vd-TÜV datasheet 967 for tank systems

is regarded as the state of the art and is to be observed. Building and fire protection regulations may also be applicable.

### Approval

According to Germany ordinance on Industrial Safety and Health (BetrSichV), storage of flammable liquids with a flash point above 55 °C and a total capacity of less than 10,000 litres does not require any approval.

Installations for storage of flammable liquids with a total capacity of more than 10,000 litres require monitoring.

All storage containers are fundamentally systems that require monitoring within the BetrSichV

According to the German ordinance on Installations for the Handling of Substances Hazardous to Water (AwSV) specifies a reporting requirement for above-ground systems as of hazard level B. The hazard level is defined by the water hazard class of the storage medium and the storage capacity (table of AwSV).

Capacity [m³]	Mass [t]	Water hazard class		
		1	2	3
< 0.22	< 0.2	Level A	Level A	Level A
≤ 1	≤ 1	Level A	Level A	Level B
> 1	≤ 10	Level A	Level B	Level C
> 10	≤ 100	Level A	Level C	Level D
> 100	≤ 1,000	Level B	Level D	Level D
> 1,000	> 1,000	Level C	Level D	Level D

### General installation requirements

According to AwSV, systems have to prevent leakage of water-polluting substances. Systems have to be leakproof, stable and sufficiently resistant against expected mechanical, thermal and chemical loads.

Any leakage has to be identified quickly and reliably and leaking substances have to be retained. Operating-related drip losses must be collected. The systems have to be installed on a suitably firm surface. A collision buffer is to be provided as necessary.

In the event of a malfunction, leakages must be retained and disposed of correctly.



For double-walled containers, no collection trays are required. Otherwise, the following applies: Mixtures potentially containing water-polluting substances leaking in case of damage have to be retained. The collection capacity of the storage space has to correspond to the maximum volume of the substances that may leak in case of system malfunctions.

### Installation

For systems with fire-resistant fluids, no clearances to buildings are required. These result from the building regulations.

For systems with flammable fluids, a clearance of 10 m to buildings has to be observed if these are not sufficiently protected against fire (F90 according to DIN 4102).

In case of indoor installation, walls, ceilings and doors have to be made of non-flammable materials. Between storage spaces and neighbouring rooms, fire-resistant (F90 according to DIN 4102) partitions are required. Ventilation has to permanently ensure at least a 5-fold air exchange.

### Inspection according to AwSV

According to AwSV, systems of hazard level B – D inside and outside of water protection areas require inspection prior to commissioning. Recurring inspections are required every five years for above-ground systems of hazard level C and D, in protected areas B – D. Local authorities may specify further requirements. In the case of systems for flammable liquids (ELH-fluids), the inspection in accordance with the ordinance on Industrial Safety and Health (BetrSichV) must also be observed.

### Operation

Storage containers may only be filled via a fixed pipeline connection with overfill protection. (Containers with a capacity of up to 1.25 m³ litres are an exception and may also be filled via an automatically closing nozzle). Rietberg collection containers with filling funnel may be intermittently filled with low volumes without overfill protection. Operating-related drip losses must be collected.

### Obligations for the operator

- > Competent planning and design, ideally by utilising a specialised company in collaboration with the competent local authority
- > Where necessary, applying for permits and building applications
- > Building application for installations with a volume of more than 10,000 l
- > Creating an explosion protection documentation where necessary
- > Creating and managing an installation documentation system
- > Expert assessor inspection before commissioning and recurring every 5 years where necessary (AwSV)
- > Appropriate expert assessor inspection commissioning and recurring every 6 years for explosion safety and fire protection by an approved inspection agency
- > Inspection and testing for correct operation, leak tightness of the installation and function of the safety equipment once a year by the operator
- > Hanging up the operating instructions
- > Annual instructions for the personnel
- > Provision of a fire extinguisher and oil binding agent



 **RIETBERG  
SAMMELTANK**

# 05

## STATIONARY COLLECTION TANKS

In order to enable proper disposal, waste liquids which occur during production or a work process are to be collected in a secure and practical manner and stored intermediately.

As it is the case with the storage of used liquids, depending on the protection objective, regulations with respect to occupational safety, fire and explosion safety or environmental protection (water, air) apply to the storage of waste liquids. The various laws and related regulations and technical rules shall all be observed at the same time.

- Rietberg collection containers have been designed specifically for the collection and storage of water-polluting and/or flammable liquid waste substances. They meet the requirements of all relevant provisions applicable to the storage of such liquids. Here, it does not matter whether the liquid is "only" water-polluting (e.g. KSS emulsion) or also hardly (e.g. waste oil) or highly (e.g. cleaning petrol) flammable.

Rietberg collection containers feature a filling hopper, via which the waste liquid can be filled directly into the container from smaller containers. Additionally, the filling can be provided via a permanently connected pipeline or a suction line.

Rietberg collection containers provide a legally compliant, secure and appropriate solution for every application. They are available in cubic or cylindrical design and in sizes of 250 to 10000 litres of volume.

Small containers are also available in an "in-house mobile" version. This means that, if required, they can be directly transported to the locations in which the waste liquids occur. The surface design depends on the application and the medium to be stored. Completely, i.e. internally and externally, hot dip galvanized containers, coated containers or containers made of 100% stainless steel are available. Additionally, containers with special interior coating, e.g. with an acid-resistant rubber coating, can be supplied.

# COLLECTION TANK FOR FIRE-RESISTANT FLUIDS

## AS-T-SE



### Legally compliant storage

- › Manufactured according to DIN 6623-2 and therefore approved throughout Germany for storing fire-resistant fluids (flashpoint above 55 °C, such as e.g. old oil of known origin or diesel) and other fluids and liquids which are hazardous to water
- › Approved for outdoor installation and in buildings
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls

### Can be configured for needs-based solutions

- › On request, can be supplied with additional collars, e.g. for the installation of an additional fixed filling line and / or an additional overfill protection device

### Simple handling, cost-saving and reduced time

- › Storage without additional collecting tray and without special collection space is possible

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours possible) or in stainless steel

### Space saving

- › Double-walled within the meaning of AwSV so that limited spacing is required between them when numerous tanks are installed below each other

### Secure and safe transport

- › Closed base construction for safe, occasional in-house transportation of empty containers with fork-lift truck or industrial pallet truck
- › Also with strengthened base construction for safe, regular in-house transport of the filled container with fork-lift truck or industrial pallet truck
- › Crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Structural, hydraulic overfill protection device for protection against overfilling
- › 500 mm filling funnel with locking, manually actuated lid
- › Easy to read dipstick for filling level control
- › Permanently opened ventilation and extraction pipe
- › Suction pipe with lockable safety screw fitting



Do you require special equipment which we do not stock? Please do not hesitate to contact us, we can always take care of the corresponding components and deliver the correct product according to your requirements.

Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Hot dip galvanized
	L	W	H			Item no.
AS-T-se 400 <sup>1</sup>	1000	1000	1000	155	DIN 6623-2	72573
AS-T-se 990 <sup>2</sup>	1250	1250	1335	235	DIN 6623-2	72647
<b>AS MOBILE<sup>1</sup></b>						
AS M-T-se 400	1000	1000	1000	155	DIN 6623-2	97180
AS M-T-se 990	1250	1250	1335	235	DIN 6623-2	73933

Accessories

Type	Description	Item no.
Additional collar 2" I	For fitting an overfill protection in a storage or collection container in the AS / GS / GD /LT series	83674
Additional collar 2" II	With filler line for filling via an additional fixed line for installation in a storage or collection container in the AS/GD /GS / LT series	83673

1 Durable base construction designed for in-house transport of the filled container with forklift equipment

# COLLECTION TANK FOR FIRE-RESISTANT FLUIDS

## AS-TP-SE



### Legally compliant storage

- › Valid general construction approval and therefore approved throughout Germany for storing fire-resistant fluids (flash point above 55 °C, such as e.g. old oil of known origin or diesel) as well as other liquids or fluids which are hazardous to water
- › Approved for outdoor installation and in buildings
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls

### Can be configured for needs-based solutions

- › 1 reserve collar 2" (3 reserve collars 2" from container diameter 1400 mm upwards) e.g. for installing an additional, permanently connected filling pipe and/or an additional overfill protection device

### Simple handling, cost-saving and reduced time

- › Storage without additional collecting tray and without special collection space is possible

### Space saving

- › Double-walled within the meaning of AwSV so that limited spacing is required between them when numerous tanks are installed below each other

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours possible) or in stainless steel

### Secure and safe transport

- › Crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Structural, hydraulic overfill protection device for protection against overfilling
- › 400 mm filling funnel with lockable lid actuated via a foot pedal
- › Operating platform with grating for safe standing position when filling
- › Handrail on operating platform from a container diameter of 1400 mm upwards
- › Easy to read dipstick for filling level control
- › Permanently opened ventilation and extraction pipe
- › Suction pipe with lockable safety screw fitting



Do you require special equipment which we do not stock? Please do not hesitate to contact us, we can always take care of the corresponding components and deliver the correct product according to your requirements.



Available models

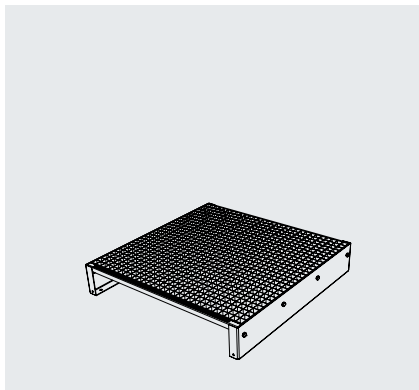
Type / Capacity	Dimensions [mm]				Weight <sup>4</sup> [kg]	Approval	Hot dip galvanized
	BL <sup>1</sup>	GL <sup>2</sup>	W	H <sup>3</sup>			Item no.
AS-TP-se 1500	2300	3200	1000	1400	450	Z-38,12-325	506677
AS-TP-se 2000	3000	3850	1000	1400	540	Z-38,12-325	506678
AS-TP-se 3000-100	4230	5000	1000	1400	700	Z-38,12-325	506679
AS-TP-se 3000-125	2800	3900	1250	1680	680	Z-38,12-325	506680
AS-TP-se 3500	3000	4100	1250	1680	730	Z-38,12-325	506681
AS-TP-se 5000-125	4550	5600	1250	1680	970	Z-38,12-325	506682



Tanks with a volume of 5000 litres or greater and a diameter of 1400 mm can be found in chapter „GS-TP-elh“ on p. 168

Accessories

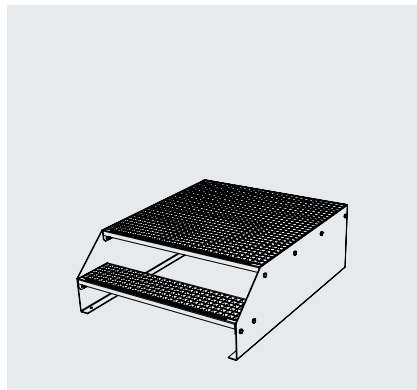
Type	Description	Item no.
Additional collar 2" I	For fitting an overflow protection in a storage or collection container from the AS / GS / GD /LT series	83674
Additional collar 2" II	With filler line for filling via an additional fixed line for installation in a storage or collection container in the AS/GD /GS / LT series	83673
Without operating platform	Operating platform I price reduction	77468
	Operating platform II price reduction	77469



^

Operating platform I

One-step operating platform, suitable for containers with a diameter of 1000 mm, full steel design, hot dip galvanized; dimensions (L x W x H): 1020 x 1000 x 175 mm; 50 kg; included in the price



^

Operating platform II

Two-step operating platform, suitable for containers with a diameter of 1250 mm, full steel design, hot dip galvanized; dimensions (L x W x H): 1240 x 1000 x 400 mm; 100 kg; included in the price

1 BL – container length

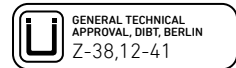
2 GL – Length including operating platform

3 With opened lid + 500 mm

4 Weight including operating platform

# COLLECTION TANKS FOR FIRE-RESISTANT FLUIDS

## MS-T-SE



### Legally compliant storage

- › Valid general construction approval as a storage container and therefore approved throughout Germany for storing fire-resistant fluids (flash point above 55 °C, such as e.g. old oil of known origin or diesel) as well as other liquids or fluids which are hazardous to water
- › For used oil up to an operating temperature of 95 °C
- › Approved for outdoor installation and in buildings
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls

### Individually configurable

- › 1 reserve collar 2" e.g. for installing an additional permanently connected filling pipe or an additional overflow protection device
- › As an alternative to the standard height, the containers can also be delivered in variable heights for individual adaptation to suit structural circumstances

### Simple handling, cost-saving and reduced time

- › Storage without additional collecting tray and without special collection space is possible
- › Smaller construction method for simpler installation in buildings, rooms and through doors

### Space saving

- › Optimal space utilisation by means of a cube shape
- › Double-walled within the meaning of AwSV so that limited spacing is required between them when numerous tanks are installed below each other

### Durable and sustainable

- › Manufactured entirely of steel
- › Untreated on the inside and painted on the outside for indoor installation<sup>1</sup> in RAL 7035 light grey. Other RAL colours possible
- › MS-T-SE 900 and 1300 can also be supplied as hot dip galvanized on the inside and outside
- › All containers available in stainless steel on request

### Secure and safe transport

- › Closed base construction for safe, occasional in-house transportation of empty containers with fork-lift truck or industrial pallet truck
- › Also with strengthened base construction for safe, regular in-house transport of the filled container with fork-lift truck or industrial pallet truck
- › Crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Structural, hydraulic overflow protection device for protection against overflowing
- › 400 mm filling funnel with locking, manually actuated lid
- › Easy to read dipstick for filling level control
- › Permanently opened ventilation and extraction pipe
- › Suction pipe with lockable safety screw fitting
- › Operator platform is optionally available for easier operability



Do you require special equipment which we do not stock? Please do not hesitate to contact us, we can always take care of the corresponding components and deliver the correct product according to your requirements.

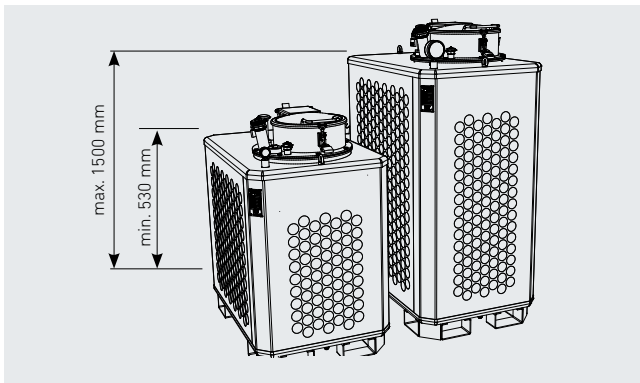
<sup>1</sup> Paintwork for outdoor installation, accessories Art. No. 98786

Available models

STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Item no.	
	L	W	H			Hot dip galvanized	Coated RAL 7035
MS-T-se 900	1200	800	1330	220	Z-38,12-41	84845	83324
MS-T-se 1300	1200	800	1780	260	Z-38,12-41	84729	83323
MS-T-se 2000	1800	800	1780	370	Z-38,12-41	-	83671
MS-T-se 2400	2200	800	1780	420	Z-38,12-41	-	83672
<b>MS MOBILE<sup>1</sup></b>							
MS M-T-se 900	1200	800	1330	220	Z-38,12-41	72123	72121
MS-M-T-se 1300	1200	800	1780	260	Z-38,12-41	72124	84411
MS-M-T-se 2000	1800	800	1780	370	Z-38,12-41	-	84731
MS-M-T-se 2400	2200	800	1780	420	Z-38,12-41	-	83426

MULTI-COLLECTORS WITH VARIABLE HEIGHT



For adjustment to structural conditions like the utilization of recesses, multi-collectors are available with a variable jacket height between 530 mm and 1500 mm. With a constant surface area, the total height and the capacity of the container are adjusted. With a constant surface area, the total height and the capacity of the container are adjusted.

The container height up to the upper base is defined by the jacket height +100 mm and the total container height (closed funnel cover top edge) by the jacket height +350 mm.

For information on the capacity, please refer to the following table.

Due to the funnel, the actual usable capacity is reduced by approximately 100 to 150 litres.

Type / Capacity	Dimensions [mm]		Volume/100 mm jacket height [l]	Approval	Item no.	
	L	W			Hot dip galvanized	Coated RAL 7035
MS-T-VH-se 1300	1200	800	92	Z-38,12-41	71329	71324
MS-T-VH-se 2000	1800	800	140	Z-38,12-41	-	71326
MS-T-VH-se 2400	2200	800	170	Z-38,12-41	-	71327

Accessories

Type	Description	Item no.
Operating platform MS I	One-step operating platform for MS 900, full steel design, hot dip galvanized; dimensions (L x W x H): 600 x 500 x 275 mm	72125
Operating platform MS II	Three-step operating platform suitable for MS 1300 – 2400, full steel design, hot dip galvanized; dimensions (L x W x H): 1270 x 810 x 600 mm	84964
C3 coating	MT/MS: Paintwork in RAL 7035 for outdoor installation (corrosion protection class C3) or in other RAL colours	98786
Platform trolley <b>NEW</b>	For MT-VH 450: For in-house logistics and straight track tugger train solutions; with virtual coupling/drawbar system; external dimensions (L x W x H): approx. 1460 x 860 x 1155 mm	48837



For additional equipment such as overflow protection, please refer to P. 174

<sup>1</sup> Durable base construction designed for in-house transport of the filled container with forklift equipment

# COLLECTION TANK FOR HIGHLY FLAMMABLE LIQUIDS

## MS-TP-ELH



### Legally compliant storage

- › Valid general construction approval as a storage container and therefore approved throughout Germany for storing highly flammable liquids (flash point under 55 °C, such as e.g. old oil of known origin or petrol) as well as other liquids or fluids which are hazardous to water
- › For used oil up to an operating temperature of 95 °C
- › Approved for outdoor installation and in buildings
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls

### Individually configurable

- › 1 reserve collar G1¼" e.g. for installing an additional permanently connected filling pipe or an additional overflow protection device
- › As an alternative to the standard height, the containers can also be delivered in variable heights for individual adaptation to suit structural circumstances

### Simple handling, cost-saving and reduced time

- › Storage without additional collecting tray and without special collection space is possible
- › Smaller construction method for simpler installation in buildings, rooms and through doors

### Space saving

- › Optimal space utilisation by means of a cube shape
- › Double-walled within the meaning of AwSV so that limited spacing is required between them when numerous tanks are installed below each other

### Durable and sustainable

- › Manufactured entirely of steel
- › Untreated on the inside and painted on the outside for indoor installation<sup>1</sup> in RAL 7035 light grey. Other RAL colours possible
- › MS-TP-ELH 900 and 1300 can also be supplied as hot dip galvanized on the inside and outside
- › All containers available in stainless steel on request

### Secure and safe transport

- › Closed base construction for safe, occasional in-house transportation of empty containers with fork-lift truck or industrial pallet truck
- › Also with strengthened base construction for safe, regular in-house transportation of the filled container with fork-lift truck or industrial pallet truck
- › Crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Structural, hydraulic overflow protection device for protection against overflowing
- › 400 mm filling funnel with manually actuated shut-off ball valve as well as self-closing lid actuated via foot pedal
- › Easy to read dipstick for filling level control
- › Permanently opened ventilation and extraction pipe
- › Suction pipe with lockable safety screw fitting
- › Explosion-pressure shock resistant design, which can even withstand an explosion on the inside.
- › Operator platform is optionally available for easier operability

<sup>1</sup> Paintwork for outdoor installation, accessories Art. No. 98786



Do you require special equipment which we do not stock? Please do not hesitate to contact us, we can always take care of the corresponding components and deliver the correct product according to your requirements.

Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Item no.	
	L	W	H			Hot dip galvanized	Coated RAL 7035
MS-TP-elh 900 <b>1</b>	1200	800	1480	200	Z-38,12-41	71713	71705
MS-TP-elh 1300	1200	800	1940	350	Z-38,12-41	71714	71709
MS-TP-elh 2000	1800	800	1940	460	Z-38,12-41	-	71711
MS-TP-elh 2400	2200	800	1940	510	Z-38,12-41	-	71712
<b>MS MOBILE<sup>1</sup></b>							
MS-M-TP-elh 900 <b>1</b>	1200	800	1480	200	Z-38,12-41	97059	510404
MS-M-TP-elh 1300	1200	800	1940	350	Z-38,12-41	510403	510405
MS-M-TP-elh 2000	1800	800	1940	460	Z-38,12-41	-	510406
MS-M-TP-elh 2400	2200	800	1940	510	Z-38,12-41	-	510407



The height, including ventilation line, is 2.5 m above floor level for all container dimensions.

Accessories



Type	Description	Item no.
Control platform MS I <b>2</b>	One-step operating platform for MS 900, full steel design, hot dip galvanized; dimensions (L x W x H): 600 x 500 x 275 mm	72125
Operating platform MS II	Three-step operating platform suitable for MS 1300 – 2400, full steel design, hot dip galvanized; dimensions (L x W x H): 1270 x 810 x 600 mm	84964
C3 coating	MT/MS: Paintwork in RAL 7035 for outdoor installation (corrosion protection class C3) or in other RAL colours	98786
Ventilation and extraction pipes	Ex-area deflagration and endurance burning proof ventilation hood to protect the ventilation duct against the penetration of fire or atmospheric deflagration into the interior of a container, Approved for materials from explosion group IIA	47822
Platform trolley <b>NEW</b>	For MT-VH 450: For in-house logistics and straight track tigger train solutions; with virtual coupling/drawbar system; external dimensions (L x W x H): approx. 1460 x 860 x 1155 mm	48837



For additional equipment such as overfill protection, please refer to P. 174

1 Durable base construction designed for in-house transport of the filled container with forklift equipment

# COLLECTION TANK FOR HIGHLY FLAMMABLE LIQUIDS

## GS-TP-ELH



### [HIGHLY FLAMMABLE LIQUIDS]



#### Legally compliant storage

- › Valid general construction approval as a storage container and therefore approved throughout Germany for storing highly flammable liquids (flash point under 55 °C, such as e.g. old oil of known origin or petrol) as well as other liquids or fluids which are hazardous to water
- › Approved for outdoor installation and in buildings
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls

#### Individually configurable

- › 1 reserve collar 1" e.g. for installing an additional overfilling safety device

#### Simple handling, cost-saving and reduced time

- › Storage without additional collecting tray and without special collection space is possible

#### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours possible) or in stainless steel

#### Space saving

- › Double-walled within the meaning of AwSV so that limited spacing is required between them when numerous tanks are installed below each other

#### Secure and safe transport

- › Closed base construction for safe, occasional in-house transportation of empty containers with fork-lift truck or industrial pallet truck
- › Also with strengthened base construction for safe, regular in-house transport of the filled container with fork-lift truck or industrial pallet truck
- › Crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

#### Convenient and safe operation

- › Structural, hydraulic overfill protection device for protection against overfilling
- › 400 mm filling funnel with manually actuated shut-off ball valve as well as self-closing lid actuated via foot pedal (manual lid on GS-T-elh 250/400)
- › Easy to read dipstick for filling level control
- › Permanently opened ventilation and extraction pipe
- › Suction pipe with lockable safety screw fitting
- › Explosion-pressure shock resistant design, which can even withstand an explosion on the inside.




Operated by experts.



Do you require special equipment which we do not stock? Please do not hesitate to contact us, we can always take care of the corresponding components and deliver the correct product according to your requirements.

Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Galvanized
	L	W	H			Item no.
GS-T-elh 250	750	750	1050	170	Z-38,12-288	71371
GS-T-elh 400	1000	1000	1025	200	Z-38,12-288	71372
GS-TP-elh 600	1200	1000	1210	230	Z-38,12-288	71373
GS-TP-elh 995	 1450	1250	1230	290	Z-38,12-288	71374
<b>GS MOBILE<sup>1</sup></b>						
GS-M-T-elh 250	750	750	1050	170	Z-38,12-288	71396
GS-M-T-elh 400	1000	1000	1025	200	Z-38,12-288	71397
GS-M-TP-elh 600	1200	1000	1210	230	Z-38,12-288	71398
GS-M-TP-elh 995	1450	1250	1230	290	Z-38,12-288	71399



The height, including ventilation line, is 2.5 m above floor level for all container dimensions.

Accessories

Type	Description	Item no.
Additional collar 2" I	For fitting an overfill protection in a storage or collection container from the AS / GS / GD /LT series	83674
Additional collar 2" II	With filler line for filling via an additional fixed line for installation in a storage or collection container in the AS/GD /GS / LT series	83673
Inspection dome DOM II	Inspection dome for GS / GD / LT 995, 400 mm diameter, domed folding lid secured with 4 eyebolts	85996
Ventilation and extraction pipes	Ex-area deflagration and endurance burning proof ventilation hood to protect the ventilation duct against the penetration of fire or atmospheric deflagration into the interior of a container, Approved for materials from explosion group IIA	47822



For additional equipment such as overfill protection, please refer to P.152 174

1 Durable base construction designed for in-house transport of the filled container with forklift equipment

# COLLECTION TANK FOR HIGHLY FLAMMABLE LIQUIDS

## GS-TP-ELH

[HIGHLY FLAMMABLE LIQUIDS]



GENERAL TECHNICAL  
APPROVAL, DIBT, BERLIN  
Z-38,12-51



### Legally compliant storage

- › Valid general construction approval as a storage container and therefore approved throughout Germany for storing highly flammable liquids (flash point under 55 °C, such as e.g. old oil of known origin or petrol) as well as other liquids or fluids which are hazardous to water
- › Approved for outdoor installation and in buildings
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls

### Individually configurable

- › 1 reserve collar 2" e.g. for installing an additional overfill protection device

### Simple handling, cost-saving and reduced time

- › Storage without additional collecting tray and without special collection space is possible

### Space saving

- › Double-walled within the meaning of AwSV so that limited spacing is required between them when numerous tanks are installed below each other

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours possible)

### Secure and safe transport

- › Crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Structural, hydraulic overfill protection device for protection against overfilling
- › 400 mm filling funnel with manually actuated shut-off ball valve as well as self-closing lid actuated via foot pedal
- › Easy to read dipstick for filling level control
- › Permanently opened ventilation and extraction pipe
- › Suction pipe with lockable safety screw fitting
- › Explosion-pressure shock resistant design, which can even withstand an explosion on the inside.
- › Operating platform is optionally available for easier operability (from 1400 mm with handrail)




Operated by experts.



Do you require special equipment which we do not stock? Please do not hesitate to contact us, we can always take care of the corresponding components and deliver the correct product according to your requirements.



Available models

Type / Capacity	Dimensions [mm]				Weight <sup>3</sup> [kg]	Approval	Hot dip galvanized
	BL <sup>1</sup>	GL <sup>2</sup>	W	H			Item no.
GS-TP-elh 1000	1600	2450	1050	1500	380	Z-38,12-51	71375
GS-TP-elh 1500	2300	3100	1050	1500	580	Z-38,12-51	71376
GS-TP-elh 2000-100 	3000	3850	1050	1500	690	Z-38,12-51	71377
GS-TP-elh 2000-125	2100	3200	1300	1780	560	Z-38,12-51	71378
GS-TP-elh 3000-100	4250	5100	1050	1500	875	Z-38,12-51	71380
GS-TP-elh 3000-125	2800	3900	1300	1780	870	Z-38,12-51	71381
GS-TP-elh 3500	3250	4300	1300	1780	945	Z-38,12-51	71382
GS-TP-elh 5000-125	4550	5600	1300	1780	1150	Z-38,12-51	71383
GS-TP-elh 5000-140	3800	5150	1500	1930	1280	Z-38,12-51	71384
GS-TP-elh 7500	5400	6750	1500	1930	1530	Z-38,12-51	71386
GS-TP-elh 10000	6950	8300	1500	1930	1780	Z-38,12-51	71388



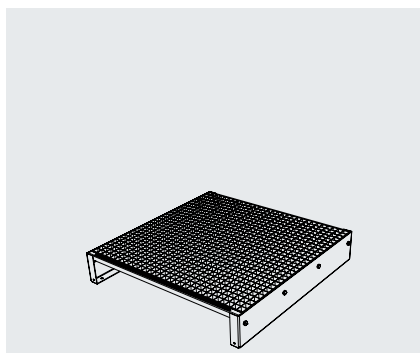
The height, including ventilation line, is 4 m above floor level for all container dimensions.

Accessories

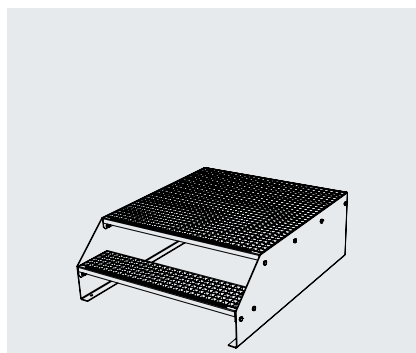
Type	Description	Item no.
Additional collar 2" I	For fitting an overflow protection in a storage or collection container from the AS / GS / GD /LT series	83674
Additional collar 2" II	With filler line for filling via an additional fixed line for installation in a storage or collection container in the AS/GD /GS / LT series	83673
Ventilation and extraction pipes	Ex-area deflagration and endurance burning proof ventilation hood to protect the ventilation duct against the penetration of fire or atmospheric deflagration into the interior of a container, Approved for materials from explosion group IIA	47822



For additional equipment such as overflow protection, please refer to P. 174



Operating platform I  
One-step operating platform, suitable for containers with a diameter of 1000 mm, full steel design, hot dip galvanized; dimensions (L x W x H): 1020 x 1000 x 175 mm; 50 kg; included in the price



Operating platform II  
Two-step operating platform, suitable for containers with a diameter of 1250 mm, full steel design, hot dip galvanized; dimensions (L x W x H): 1240 x 1000 x 400 mm; 100 kg; included in the price



Operating platform III  
Three-step operating platform, suitable for containers with a diameter of 1400 – 1600 mm, full steel design, hot dip galvanized; dimensions (L x W x H): 1460 x 1100 x 600 mm; 155 kg; included in the price

1 BL – container length  
2 GL – Length including operating platform  
3 Weight including operating platform

# COLLECTION TANK FOR HIGHLY FLAMMABLE LIQUIDS

## GD-TP-ELH



### Legally compliant storage

- › Valid general construction approval as a storage container and therefore approved throughout Germany for storing highly flammable liquids (flash point under 55 °C, such as e.g. old oil of unknown origin or petrol) as well as other liquids or fluids which are hazardous to water
- › Approved for outdoor installation and in buildings
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls

### Individually configurable

- › 1 reserve collar 1" e.g. for installing an additional overfill protection device

### Simple handling, cost-saving and reduced time

- › Storage without additional collecting tray and without special collection space is possible

### Space saving

- › Double-walled within the meaning of AwSV so that limited spacing is required between them when numerous tanks are installed below each other

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours possible) or in stainless steel

### Secure and safe transport

- › Closed base construction for safe, occasional in-house transportation of empty containers with fork-lift truck or industrial pallet truck
- › Also with strengthened base construction for safe, regular in-house transport of the filled container with fork-lift truck or industrial pallet truck
- › Crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

### Convenient and safe operation

- › Structural, hydraulic overfill protection device for protection against overfilling
- › 300 mm filling funnel with locking body, actuated via a foot pedal, and self-closing lid
- › Easy to read dipstick for filling level control
- › Permanently opened ventilation and extraction pipe
- › Suction pipe with lockable safety screw fitting
- › Explosion-pressure shock resistant design, which can even withstand an explosion on the inside.



Operated by everyone.

Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Hot dip galvanized
	L	W	H			Item no.
GD-TP-elh 250	800	800	1200	170	Z-38,12-288	73353
GD-TP-elh 400	1000	1000	1025	200	Z-38,12-288	73354
GD-TP-elh 600	1200	1000	1210	230	Z-38,12-288	73355
GD-TP-elh 995 <b>1</b>	1450	1250	1230	290	Z-38,12-288	73356
<b>GD MOBILE<sup>1</sup></b>						
GD-M-TP-elh 400	1000	1000	1025	200	Z-38,12-288	73810
GD-M-TP-elh 600	1200	1000	1210	230	Z-38,12-288	300076
GD-M-TP-elh 995 <b>3</b>	1450	1250	1230	290	Z-38,12-288	99868



The height, including ventilation line, is 4 m above floor level for all container dimensions.

Accessories

Type	Description	Item no.
Additional collar 2" I	For fitting an overfill protection in a storage or collection container from the AS / GS / GD /LT series	83674
Additional collar 2" II	With filler line for filling via an additional fixed line for installation in a storage or collection container in the AS/GD /GS / LT series	83673
Inspection dome DOM <b>2</b>	Inspection dome for GS / GD / LT 995, 400 mm diameter, domed folding lid secured with 4 eye screws	85996
Ventilation and extraction pipes	Ex-area deflagration and endurance burning proof ventilation hood to protect the ventilation duct against the penetration of fire or atmospheric deflagration into the interior of a container, Approved for materials from explosion group IIA	47822



For additional equipment such as overfill protection, please refer to P. 174



« GD-TP-elh 995, special model  
Equipment: Stainless steel on the inside, steel/coated on the outside, suction line with flange

< GD-TP-elh 995, special model  
Mobile model with DOM II inspection dome, rear view

1 Durable base construction designed for in-house transport of the filled container with forklift equipment

# COLLECTION TANK FOR HIGHLY FLAMMABLE LIQUIDS

## GD-D-ELH



### Legally compliant storage

- › TÜV approval as a pressure vessel according to the pressure devices guideline and therefore approved for the collection and storage of chemicals
- › Double-walled within the meaning of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Pressure resistant to 5 bar and vacuum resistant
- › Determination of suitability as a storage container is possible in individual cases

### Individually configurable

- › Different material combinations are possible depending on the contents
- › Different connection options for needs-based design

### Simple handling, cost-saving and reduced time

- › Storage without additional collecting tray and without special collection space is possible

### Space saving

- › Hazardous substance repositories in stacking frame for simpler stacking
- › Double-walled within the meaning of AwSV so that limited spacing is required between them when numerous tanks are

### Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours possible) or in stainless steel

### Secure and safe transport

- › Closed base construction for safe In-house container transport with fork-lift truck or industrial pallet truck
- › Crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013
- › Optional: transportable pressure vessel available upon request, with approval for ADR transport

### Convenient and safe operation

- › 400 mm inspection dome
- › Earthing lugs
- › Holders for identification panels
- › Conductive, explosion-resistant design, which can even withstand an explosion on the inside
- › Permissible pressure - 1.0 / + 5.0 bar
- › Permissible temperature - 20 / + 50 °C



Do you require special equipment which we do not stock? Please do not hesitate to contact us, we can always take care of the corresponding components and deliver the correct product according to your requirements.

installed below each other

**Available models**

Type / Capacity	Dimensions [mm]			Weight [kg]	Pressure container			Item no.
	L	W	H		Inside	Outside	Transport frame	
GD-D-elh 1000-v	1200	1200	1600	500	Steel galv	Steel galv	Steel galv	98152
GD-D-elh 1000-l	1200	1200	1600	500	Steel, untreated	Steel, coated	Steel galv	98153
GD-D-elh 1000-e1	1200	1200	1600	500	Stainless steel 1.4301	Steel, coated	Steel galv	98154
GD-D-elh 1000-e2	1200	1200	1600	500	Stainless steel 1.4571	Stainless steel 1.4301	Steel galv	98155
GD-D-elh 1000-e3	1200	1200	1600	500	Stainless steel 1.4571	Stainless steel 1.4301	Stainless steel 1.4301	98156

**Accessories**

Type	Description
Pump sump	For optimum residual discharge of the container
Filling funnel	For manual filling with lockable lid
Cover plate for upper base	For easy cleaning
Operating platform	Folding, with grating



Additional sizes, equipment and connections available on request.

# OVERFILL PROTECTION DEVICES

If containers are filled in such a way that the filling level cannot be identified (i.e. via a fixed line), it has to be ensured that the container cannot be overfilled.

## Overfill protection devices generally consist of the following two components:

- › Level sensor permanently fitted in the container with a PTC thermistor, which changes its electrical resistance on reaching the admissible filling level
- › Transducer generating an optical and acoustic signal from this change in resistance and via which the filling process can also be interrupted

For type-specific differences, please refer to the following table.

### Scope of delivery:

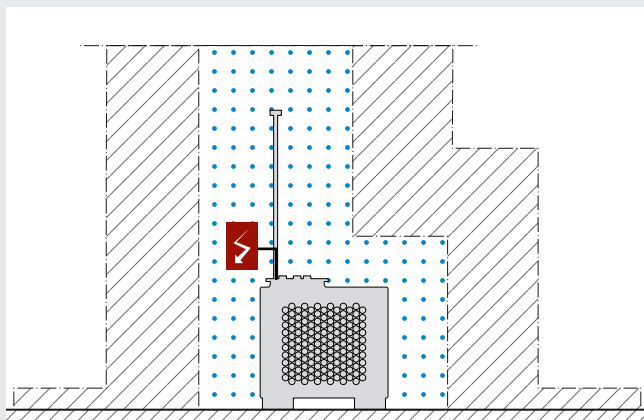
Level sensor, transducer, assembly on Rietberg container ordered with them

Type	Description	Item no.
<b>FIRE-RESISTANT FLUIDS</b>		
SE-Ü-40	Transducer, protection type IP 40, with simple bracket. Input/output for signal to external control	86286
	Transducer, protection type IP 40, with simple bracket. Input/output for signal to external control, including junction box for activating a pump	511221
Tanker connector	Tanker vehicle connector for wall assembly; to prevent overfilling when filling from a fuel tanker with permanently connected pipe	44687
SE-ÜI-64	Level indicator displayed in percent and height in centimetres with integrated overfill protection, control cabinet protection class IP 64 with transducer for on-site wall mounting, fill-level sensor with float fitted in the container	300363

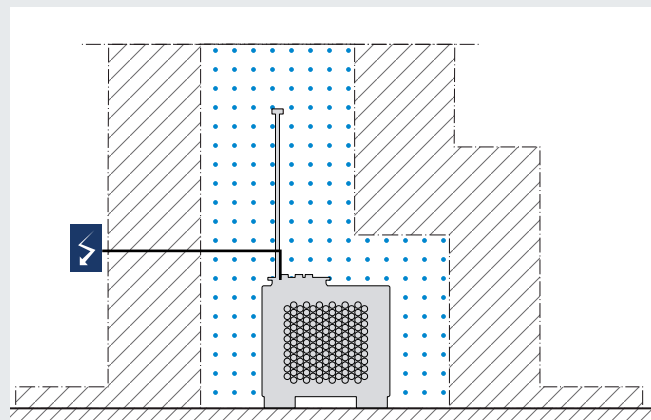


Further implementations also available for use within the EX zones upon request.

## Example for EX zone classification



OPTION I:



OPTION II:



**Zone 0:** Zone 0 is the interior of a storage container including feed and ventilation lines. In this area, dangerous explosive atmospheres occur permanently or frequently.



**Zone 1:** In this area in the vicinity of openings, dangerous explosive atmospheres may occur occasionally during operation.



**Zone 2:** The area within an extended radius of a container where dangerous explosive atmospheres do not normally occur or only temporarily.



**No EX zone:** No flammable vapour/air mixtures



**IP 54 control cabinet**



**Control cabinet with EEx-d housing**



**Ventilation line**

# LEGAL REQUIREMENTS FOR COLLECTION CONTAINERS

The requirements for installation of storage containers for water-polluting, non-flammable substances, fire-resistant (formerly technical rules for flammable fluids TRbF AIII) and flammable fluids (elh-fluids, formerly flammable fluids class A1, AII and B) are defined for Germany in the ordinance on Industrial Safety and Health (BetrSichV) of the technical rules for operating safety (TRBS) and the ordinance on Installations for the Handling of Substances Hazardous to Water (AwSV). The Vd-TÜV datasheet 967 for tank systems

is regarded as the state of the art and is to be observed. Building and fire protection regulations may also be applicable.

### Approval

According to Germany ordinance on Industrial Safety and Health (BetrSichV), storage of flammable liquids with a flash point above 55 °C and a total capacity of less than 10,000 litres does not require any approval.

Installations for storage of flammable liquids with a total capacity of more than 10,000 litres require monitoring.

All collection containers are systems that require monitoring within the Ordinance on Industrial Safety and Health

According to the German ordinance on Installations for the Handling of Substances Hazardous to Water (AwSV) specifies a reporting requirement for above-ground systems as of hazard level B. The hazard level is defined by the water hazard class of the storage medium and the storage capacity (table of AwSV).

Capacity (m <sup>3</sup> )	Mass (t)	Water hazard class		
		1	2	3
< 0.22	< 0.2	Level A	Level A	Level A
≤ 1	≤ 1	Level A	Level A	Level B
> 1	≤ 10	Level A	Level B	Level C
> 10	≤ 100	Level A	Level C	Level D
> 100	≤ 1,000	Level B	Level D	Level D
> 1,000	> 1,000	Level C	Level D	Level D

### General installation requirements

According to AwSV, systems have to prevent leakage of water-polluting substances. Systems have to be leakproof, stable and sufficiently resistant against expected mechanical, thermal and chemical loads.

Any leakage has to be identified quickly and reliably and leaking substances have to be retained. Operating-related drip losses must be collected. The systems have to be installed on a suitably firm surface. A collision buffer is to be provided as necessary.

In the event of a malfunction, leakages must be retained and disposed of correctly.



For double-walled containers, no collection trays are required. Otherwise, the following applies: Mixtures potentially containing water-polluting substances leaking in case of damage have to be retained. The collection capacity of the storage space has to correspond to the maximum volume of the substances that may leak in case of system malfunctions.

### Installation

For systems with fire-resistant fluids, no clearances to buildings are required. These result from the building regulations.

For systems with flammable fluids, a clearance of 10 m to buildings has to be observed if these are not sufficiently protected against fire (F90 according to DIN 4102).

In case of indoor installation, walls, ceilings and doors have to be made of non-flammable materials. Between storage spaces and neighbouring rooms, fire-resistant (F90 according to DIN 4102) partitions are required. Ventilation has to permanently ensure at least a 5-fold air exchange.

### Inspection according to AwSV

According to AwSV, systems of hazard level B – D inside and outside of water protection areas require inspection prior to commissioning. Recurring inspections are required every five years for above-ground systems of hazard level C and D, in protected areas B – D. Local authorities may specify further requirements. In the case of systems for flammable liquids (ELH-fluids), the inspection in accordance with the ordinance on Industrial Safety and Health (BetrSichV) must also be observed.

### Operation

Storage containers may only be filled via a fixed pipeline connection with overfill protection. (Containers with a capacity of up to 1.25 m<sup>3</sup> litres are an exception and may also be filled via an automatically closing nozzle). Rietberg collection containers with filling funnel may be intermittently filled with low volumes without overfill protection. Operating-related drip losses must be collected.

### Obligations for the operator

- > Competent planning and design, ideally by utilising a specialised company in collaboration with the competent local authority
- > Where necessary, applying for permits and building applications
- > Building application for installations with a volume of more than 10,000 l
- > Creating an explosion protection documentation where necessary
- > Creating and managing an installation documentation system
- > Expert assessor inspection before commissioning and recurring every 5 years where necessary (AwSV)
- > Appropriate expert assessor inspection commissioning and recurring every 6 years for explosion safety and fire protection by an approved inspection agency
- > Inspection and testing for correct operation, leak tightness of the installation and function of the safety equipment once a year by the operator
- > Hanging up the operating instructions
- > Annual instructions for the personnel
- > Provision of a fire extinguisher and oil binding agent



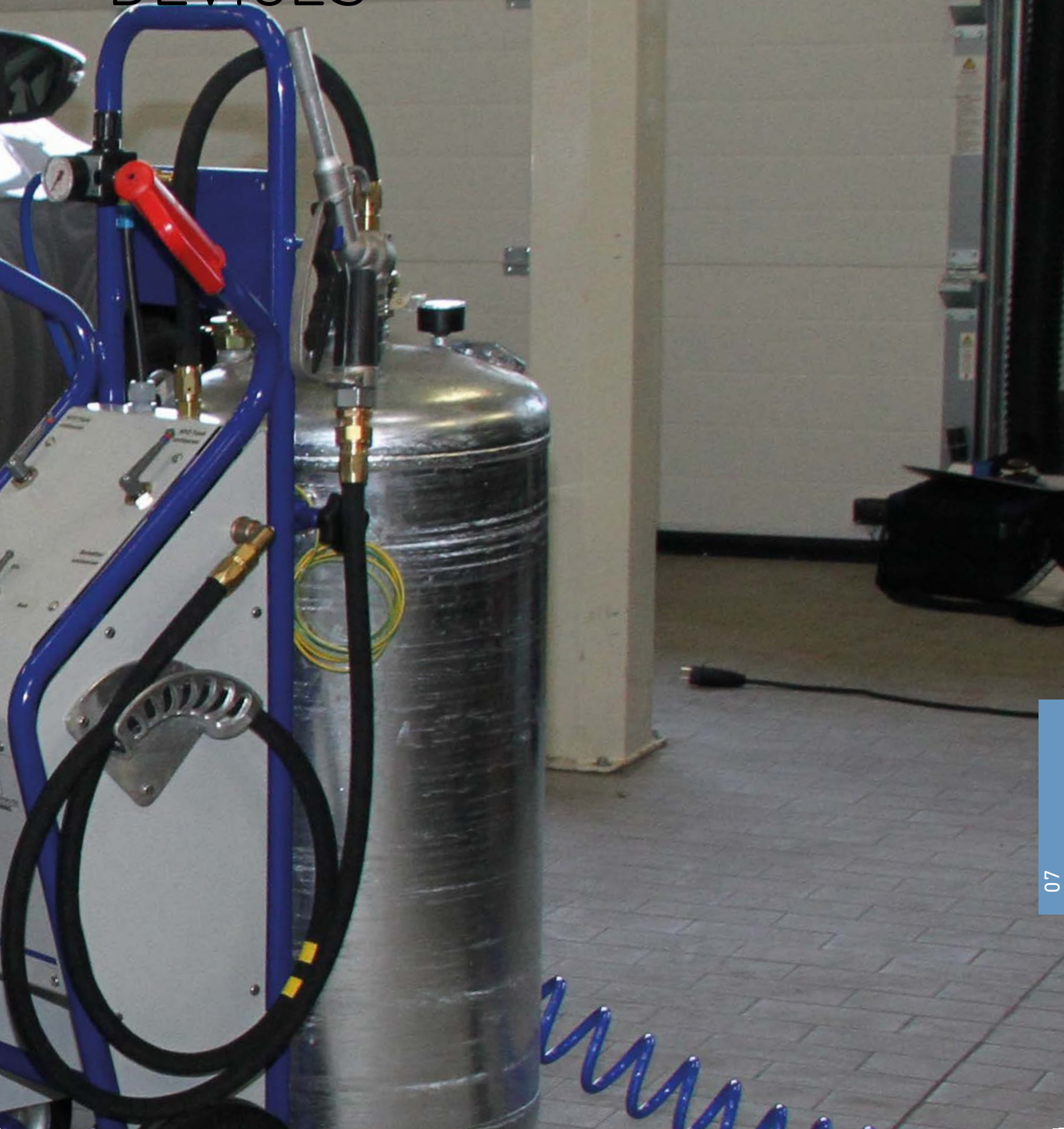
Automotive workshops are often confronted with the problem of draining and refilling the fuel tanks of vehicles. This may be the welding work on the vehicle, repairs to the fuel tank or simply the wrong fuel being used. But fire and other emergency services or industrial plants also often have to pump water-polluting substances quickly and safely in order to prevent major damage the event of accidents or other breakdowns. With a Rietberg Mobilus, this problem can be easily solved and brings safety to workshops or wherever it is needed. Hazardous

improvisation is a thing of the past. This product range offers easy operation – even by only one person. Needs-based accessories offer a solution for all eventualities. Mobilus equipment complies with all applicable technical and legal regulations. They are ex-proof, comply with ATEX regulations and the EU Machinery Directive and can therefore be used for both diesel and petrol as well as other liquids or fluids which are hazardous to water. CE marking is a matter of course.



06

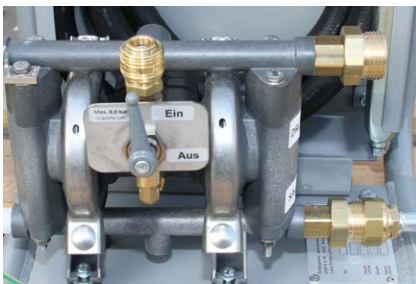
# MOBILE REFUELLING DEVICES



# FUEL EXTRACTION AND FILLING EQUIPMENT

## MOBILUS-COMPACT

[FUELS]



### Individually configurable

- › Needs-based accessories such as a larger suction hose for extraction from HGVs, pressure reduction valve or also discharge hose with automatic discharge nozzle
- › On request with Storz couplings (fire brigade couplings) for easy assembly and dismantling of the hose pipes

### Simple handling

- › Connection to in-vehicle compressed air system or mobile with compressed air cylinders or portable compressors
- › Universal and quickly ready for operation
- › Installed on practical carrying frame
- › Low tare weight

### Space saving

- › Compact and safe design for simple storage in work vehicles and/or tool car

### Durable and sustainable

- › Manufactured entirely of steel
- › Corrosion protection provided by high-quality zinc primer coat and powder coating (RAL 7037)
- › High-quality, explosion-proof compressed air diaphragm pump for commercially available fuels

### Convenient and safe operation

- › EU conformity declaration according to the EC Machinery Directive 2006/42/EC, Appendix II and according to ATEX Directive 2014/34/EU, Appendix VIII
- › 3.5 m long DN 8 suction probe, metal mesh-coated and electrically conductive (with extraction through openings from Ø 15 mm)
- › 2.5 m long DN 19 discharge hose with union nut for connection to the compressed air diaphragm pump, open on the discharge side
- › 2.5 m earth cable with earthing clamp for EX-areas
- › Nozzle holder for safe removal of the automatic discharge nozzle (optional)
- › Pumping capacity up to 40 l/minute (depending on supply pressure and dimension of the suction pipe)



Do you require special equipment which we do not stock? Please do not hesitate to contact us, we can always take care of the corresponding components and deliver the correct product according to your requirements.

Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Description	Item no.
	L	W	H			
MOBILUS-COMPACT	350	320	465	11.5	Compressed air diaphragm pump for the safe transfer of fuels, fitted on a support frame	97154
MOBILUS-COMPACT-E	350	320	465	12.5	Self-priming vane pump for diesel and petrol with explosion-proof AC motor 230 V, 10 m connection cable with Schuko plug, for utilisation outside explosion zones for the safe pumping of fuels, mounted on a support frame,	509706



The pump is suitable for flammable liquids or fluids and is equipped with corresponding explosion protection. The plug-in connectors offered may only be utilised in the respective valid areas. The ex-zones must be clearly defined by the operator (refer to the Industrial Safety Ordinance). If ex-zones could occur in the area of the power supply point, then explosion-protected plug-in connectors and coupling systems must always be utilised.

Accessories



Type	Description	Item no.
Support frame	<b>1</b> Support frame for 2 x 6-litre compressed air cylinders, 300 bar (cylinders are not included in the scope of delivery) with T-fitting for parallel operation	502913
Pressure reduction valve	<b>2</b> Pressure reduction valve for reducing the pressure from 300-10 bar, incl. 4 m compressed air hose and connection coupling	72511
Suction hose	<b>3</b> DN 19 x 4 suction hose, 2,5 m long, electrically conductive; for extraction from containers with larger openings e.g. truck-mounted tanks	72492
Storz couplings	<b>4</b> Storz couplings set for MOBILUS-COMPACT	511571
Transport box S	Stackable transport box made of aluminium alloy with sturdy base, edge and lid profile, corner beading All-round beading for additional dimensional stability Lid with stainless steel hinge strip and two retaining straps. All-round foam-filled lid sealing. One spring-loaded drop handle on each facing side. Stacking corners made of cast aluminium. Two catch fasteners on the front side, secured by lead seals, padlock or fitted lock. Internal dimensions: 550 x 550 x 580 mm; External dimensions: approx. 600 x 600 x 610 mm	516005
Transport box M	Same as transport box S but with internal dimensions: 750 x 550 x 580 mm; external dimensions: approx. 800 x 600 x 610 mm	516006
Suction probe	Flexible 5.4 mm with attachable sleeve, 0.7 m long	72863
	Flexible 5.4 mm with attachable sleeve, 1.2 m long	99874
Discharge hose with ZVA	DN 19 x 4 discharge hose, 4 m long, electrically conductive, coupling nut for pump connection at one end, the other end with fitted automatic discharge nozzle (NW 16)	72622

**5** Similar to illustration

# FUEL SUCTION AND REFUELLING DEVICES

## MOBILUS

[FUELS]



### Individually configurable

- › Needs-based accessories such as flow meter for recording the delivery rate, gas displacement pipe for returning gases during refuelling or a dirt trap to protect the pump against foreign bodies

### Simple handling

- › Connection to stationary workshop compressed air network or to compressors
- › Universal and quickly ready for operation
- › Installed on practical, mobile trolley and therefore easily movable
- › Approved for intermediate storage
- › Swap bodies for utilising the device with different types of fuels are optionally available
- › Hazard-free emptying and refuelling of fuel tanks in vehicles in compliance with all accident prevention regulations

### Space saving

- › Compact and safe design
- › Requires less than half a square metre of surface area

### Durable and sustainable

- › Manufactured entirely of steel
- › Corrosion protection provided by high-quality zinc primer coat and powder coating (RAL 7037) for the trolley
- › Decades of corrosion protection for the container by utilising high-quality hot dip galvanizing (inside and outside)
- › High-quality explosion-proof compressed air diaphragm pump for commercially available fuels

### Secure and safe transport

- › Mobile, movable trolley with container protection device for safe, in-house transport

### Convenient and safe operation

- › EU conformity declaration according to the EC Machinery Directive 2006/42/EC, Appendix II and according to ATEX Directive 2014/34/EU Appendix VIII
- › Explosion-pressure shock resistant container, which can even withstand an explosion on the inside
- › Structural, hydraulic overfill protection device in the container for protection against overfilling
- › Easy to read dipstick for filling level control
- › Lockable filling spout
- › 2.5 m long DN 8 suction probe, metal mesh-coated and electrically conductive (with extraction through openings from Ø 15 mm)
- › 2.5 m long electrical conductive DN 13 discharge hose
- › 2.5 m earth cable with earthing clamp for EX-areas
- › Automatic discharge nozzle NW 16
- › Nozzle holder to safely hold the automatic discharge nozzle
- › Hose holders for winding up and storage for the hose pipes

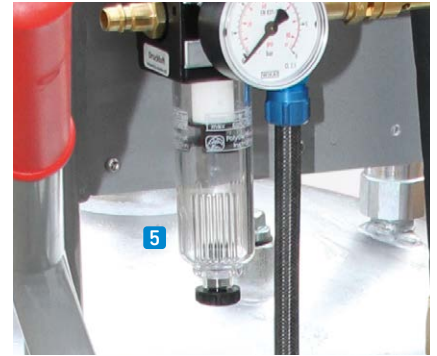
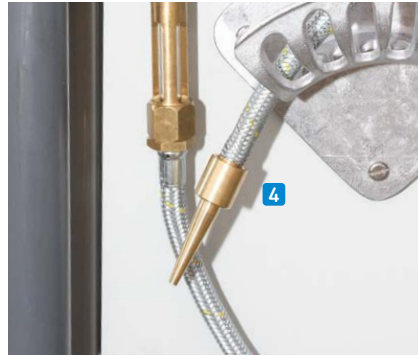
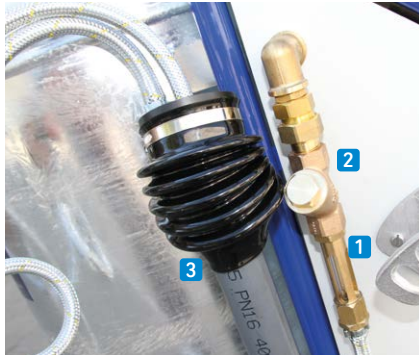


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Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Description	Hot dip galvanized Item no.	
	L	W	H				
MOBILUS	1	500	720	1320	86	Complete fuel extraction and filling device incl. 100-litre swap body; pumping capacity 10 l/min	97038
Swap body		400	400	925	35	Additional 100-litre swap body	84414

Accessories



Type	Description	Item no.
Inspection glass	1 Inspection glass for checking the media flow	37999
Dirt trap	2 Dirt trap for protecting the pump and fittings from foreign objects	83677
Adapter	4 Cone-shaped special adapter for directly attaching the suction probe on the extraction device to the vehicle's fuel line	97840
Compressed air filter	5 For safe supply of fuel extraction equipment with clean compressed air	39169
Gas balance equipment	3 To return the gases from the container being filled into the extracted container	71301
Suction probe	Flexible 5.4 mm with attachable sleeve, 0.7 m long	72863
	Flexible 5.4 mm with attachable sleeve, 1.2 m long	99874

FLOW METERS



Type	Description	Flow rate [l/min]		Item no.
		Min.	Max.	
MOBILUS counter	Permanently installed, not calibratable ring piston counter, centrally positioned on the MOBILUS operating element	0.2	15	73873

# ADBLUE® FILLING EQUIPMENT

## MOBILUS-BLUE

[ADBLUE®]



### Individually configurable

- › Needs-based accessories such as receipt printer in connection with automatic fuel terminals, active carbon filter for venting or hoses in special lengths

### Simple handling

- › Installed on practical, mobile trolley and therefore easily movable
- › Easy to operate device control system
- › Hazard-free and clean refuelling of urea solution tanks in vehicles

### Space saving

- › Compact and safe design
- › Requires less than one square metre of surface area
- › Durable and sustainable
- › Trolley made entirely of steel
- › Corrosion protection provided by high-quality zinc primer coat and powder coating (RAL 5003) for the trolley
- › High-quality electric diaphragm pump

### Secure and safe transport

- › Mobile, movable trolley with 2 rigid fixed castors and 2 flexible swivel castors with parking brake for safe, in-house transport

### Convenient and safe operation

- › Structural, hydraulic overfill protection device in the container for protection against overfilling
- › **MOBILUS-BLUE-A / -B** – Automatic fuel terminal with easily readable display and the following, freely-configurable values:
  - › Release code for authorising a refuelling process
  - › Maximum preset quantity; can be overwritten individually for every refuelling process
  - › Maximum discharge quantity and discharge time per refuelling process Maximum number of zero refuelling processes (1 – 100) before the device is disabled
  - › Refuelling code for authorising a refuelling process
  - › Order number allocation
- › **MOBILUS-BLUE-A / -C** – 2.0 m long suction pipe with CDS coupling for self-filling of the device from an IBC
- › **MOBILUS-BLUE-B:**
  - › Schuko plug socket for voltage supply for an external pump for filling the device
  - › Float switch for switching off the voltage supply to the integrated Schuko plug socket when the maximum filling volume has been reached
- › Vent pipe with ball valve
- › Large DN 100 filling opening
- › 4.0 m long DN 19 discharge hose
- › Automatic discharge nozzle made of stainless steel
- › Nozzle holder to safely hold the automatic discharge nozzle
- › Hose holders for winding up and storage for the hose pipes



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Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Additional technical characteristics	Item no.
	L	W	H			
MOBILUS-BLUE-C 200 <b>1</b> (without automatic fuel terminal)	1060	715	1340	95	With LCD display for indication of the current flow and the discharged volume; 4 m discharge hose with stainless steel automatic discharge nozzle; 2 m suction hose with CDS coupling for coupling to IBCs for self-filling; ball valve for switching the pump from fuelling to self-filling; extraction function for draining of AdBlue® tanks with 3.5 m suction hose, D = 15 mm and stainless steel tip	98144
MOBILUS-BLUE-A 200 <b>2</b> (with automatic fuel terminal)	1060	715	1340	100	4 m discharge hose with stainless steel automatic discharge nozzle; 2 m suction hose with CDS coupling for coupling to IBCs for self-filling; ball valve for switching the pump from fuelling to self-filling; float switch for pump deactivation during filling	78571
MOBILUS-BLUE-B 200 (with automatic fuel terminal)	1060	715	1340	100	4 m discharge hose with stainless steel automatic discharge nozzle; filling via external 230 V pump; Schuko plug socket for power supply to the external pump; float switch for switching off the power supply to the external pump on reaching the maximum filling capacity of the MOBILUS container	98142

Accessories

Type	Description	Item no.
Receipt printer	For TAU 2 automatic fuel terminal, suitable for MOBILUS Blue-A and B; information on the printout: date, product, order number, vehicle identification (max, 16 characters), TARGET volume, ACTUAL volume; printed on thermal paper	46125
Activated carbon filter	Activated carbon filter set for the ventilation	97892
Special length hose	Discharge and suction hose NW 19, 2,5 m long, without nozzle	97893
	Surcharge per metre of discharge or suction hose; available in the lengths 2.5 – 10 m; please specify length when ordering!	97893-1



**SPECIAL CONTAINERS  
REQUEST**

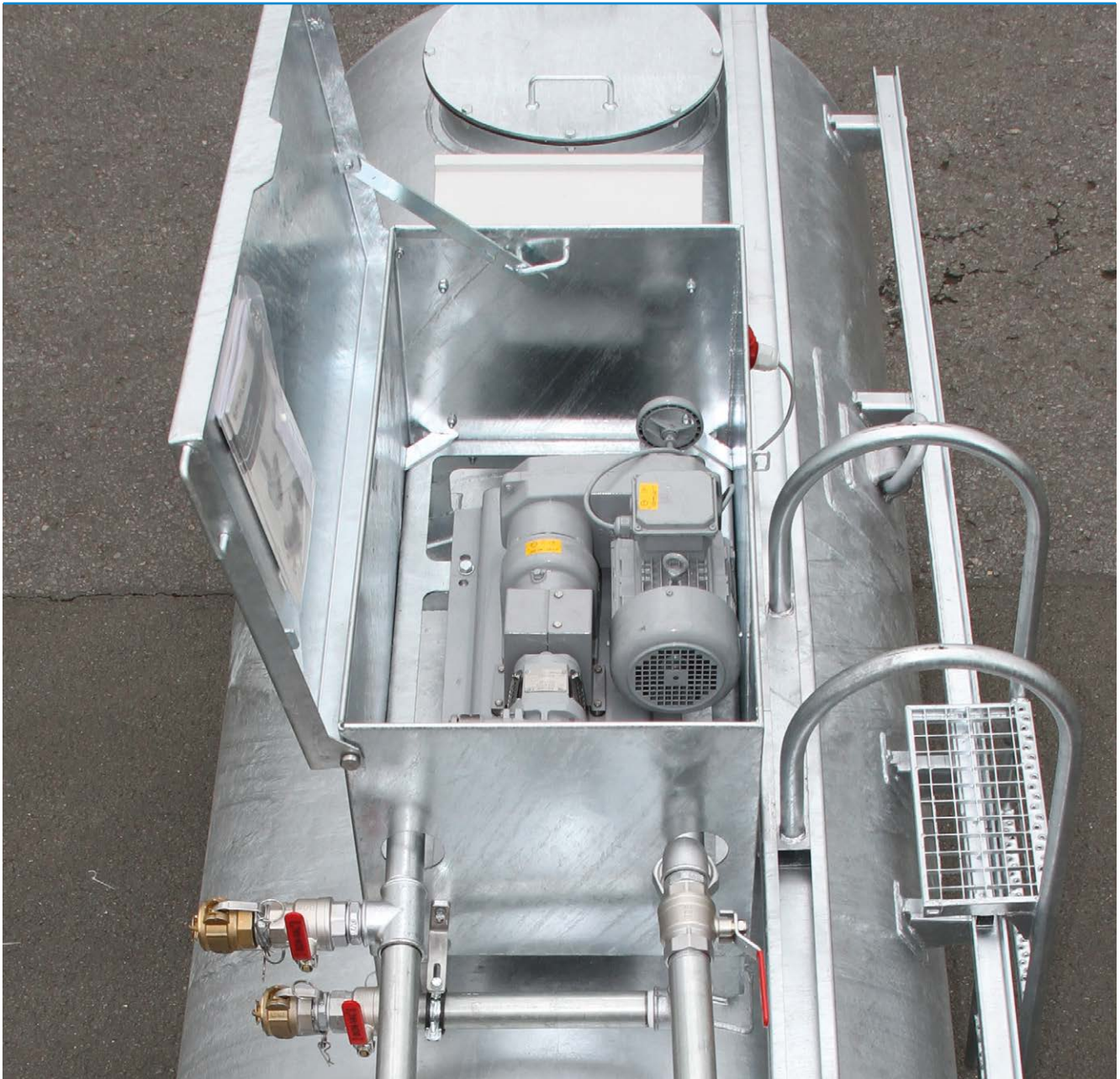
Seppeler Rietbergwerke have decades of experience in the design of containers and surface treatment. Thanks to our flexible manufacturing structure and our competent and motivated employees, we are able to quickly react to special requirements. On the following pages, you will find examples of special solutions that have been implemented. Furthermore, if your solution is not seen here, please contact us and we can work together to find it.



07

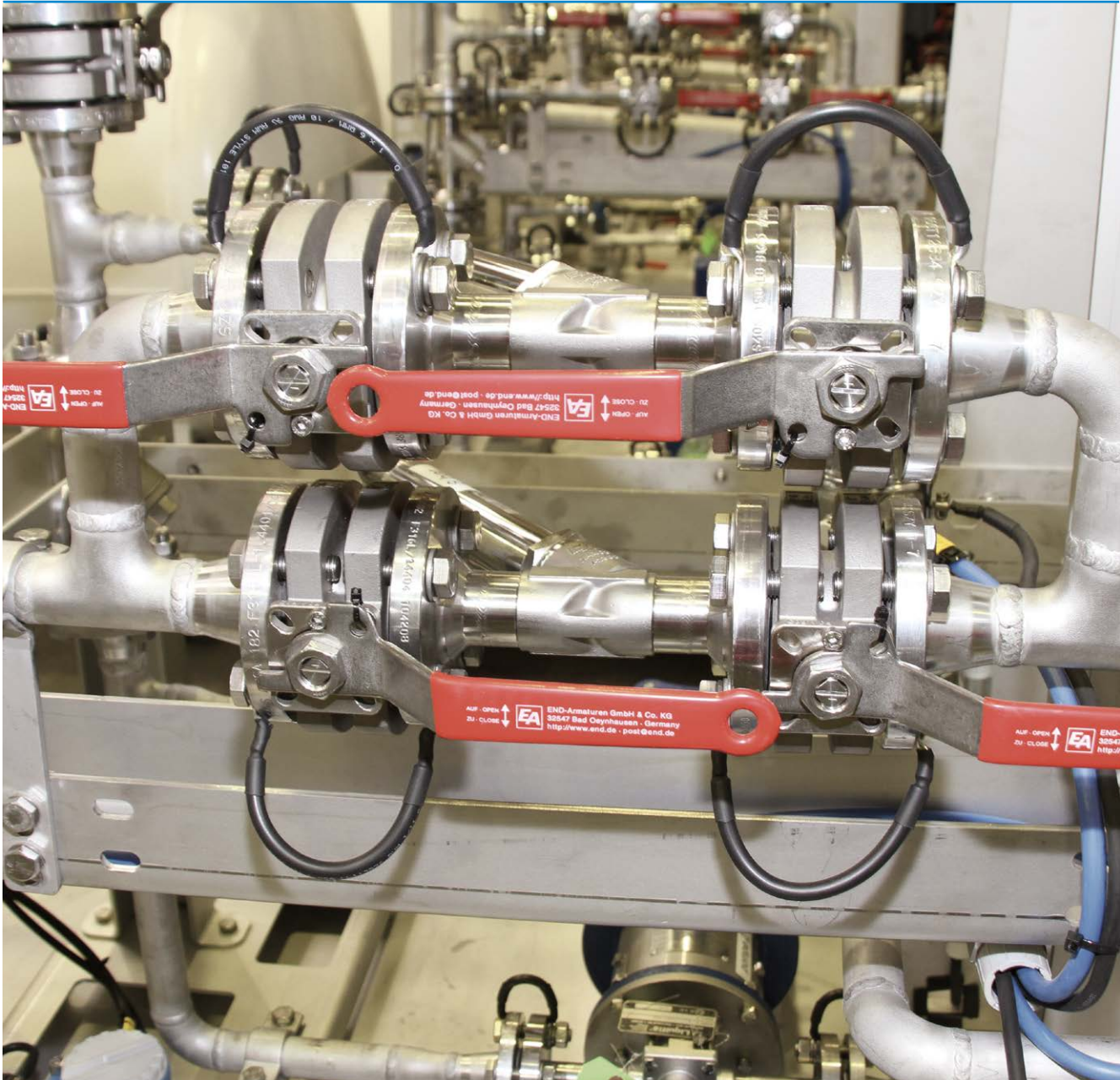
# CUSTOMER-SPECIFIC SOLUTIONS





## WASTE OIL COLLECTORS **AS-TP-SE 5000**

Collection container made from hot dip galvanized steel for 5000 litres of waste oil, in special design with additional fork-lift truck feet and movable access ladder. Currently being utilised in Europe's second largest port.



# STAINLESS STEEL STORAGE TANK LT-ELH 3000E

Storage tank made from stainless steel for 3000 litres of flammable liquids with redundant pump technology. Including pressure monitoring and circulation pipework.



## MULTI TANK MT-ELH

Used by a German foil manufacturer for the supply of ethanol. The storage container with a volume of 2000 litres is equipped with flame arrester fittings, explosion-proof control cabinet and matching overfill protection device.



## MULTI TANK MT MOBILE

Mobile, in-house fresh oil supply for use at a globally leading manufacturer for shredders and recycling technology. Equipped with a fresh oil dispensing pump including dispensing unit and a special support frame for moving the storage container with bridge cranes.



## SPECIAL CONTAINERS

### DB

Seppeler Rietbergwerke manufacture special containers according to customer drawings with factory inspection and according to AD2000 datasheet HP0. Can also be produced as Individual containers or in small batches.

Applications include road marking machinery of a globally operating machine manufacturer



## SPECIAL CONTAINERS

### DB

Horizontal collection container, manufactured according to the AD regulations, for a thermal oil plant.

According to the specifications, the container was constructed with PN16 ports and coated with a temperature-resistant paint.



## FUEL SYSTEM **KA 7500**

Storage tank with a capacity of 7,500 litres housed in a maritime container. Thanks to reinforcements in the floor of the container, the system can be relocated in an empty state. Because the system was installed in a port, the design has been implemented with a corresponding level of ruggedness. Relocation is required e.g. in the event of possible flooding of the port area. The system was equipped and delivered in an operationally ready state.



## STORAGE TANK FOR GAS CONDENSATES

### **LT-ELH**

Double-walled design, hot dip galvanized on the inside and outside; additionally, the design is suitable for erection in freezing zones with temperatures down to  $-20\text{ }^{\circ}\text{C}$ . The tank is constructed with an explosion-resistant design, in order to withstand an explosion inside itself. The connections on the dome cover are designed with flanges as requested by the customer. The tank is erected in the explosion zone, on a flare stack of a gas pipeline. In addition to the local display, there is also a sensor for remote evaluation of the state of the double jacket.



## CONTAINERS ON ROLLING TILTING FRAME

For the supply and/or disposal of liquids, tanks can be mounted on rolling tilting frames. The tanks can be equipped with diverse accessories, according to each use case. The picture above shows a supply container for oils, the picture on the left a container with a powerful suction pump that is able to absorb dangerous liquids in the event of an accident.

Both tanks are used by the on-site fire brigade in a refinery.





## TANK CONTAINER TC 1000

Special transport container, approved as a pressure vessel according to EN 14208: 2004, for transporting hydrogen fluoride.

Equipped with gas cylinder valves according to DIN 477.

In use at a global metal and plastic processor.

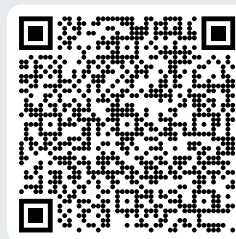
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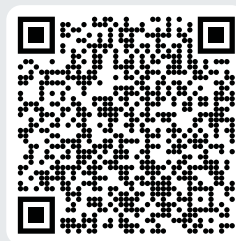
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Project and editorial management, conception, design and technical content:

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Photo credits: Adobe Stock (fotolia.de): P. 84, 94, 110, 169;

iStock.de: P. 2 – 3, 52, 76, 94; CLAAS KGaA mbH: P. 68; Denios

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Technical drawings: GOK Regler- und Armaturen-Gesellschaft mbH & Co. KG: P. 122

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Year of publication: 2024

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