

PRODUCT CATALOGUE 2022

 **RIETBERG CONTAINERS**
Collection • Storage • Transport



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01 STATIONARY FUEL SYSTEMS

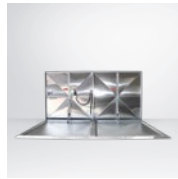
Diesel Storage Tanks



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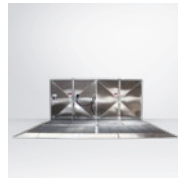
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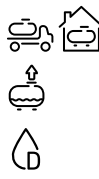


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02 MOBILE FUEL SYSTEMS

Diesel Storage Tanks



QUADRO-DV

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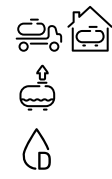
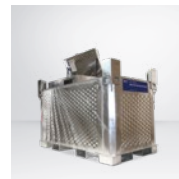
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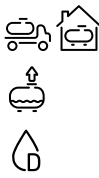
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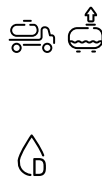
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TRAILER

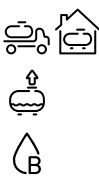
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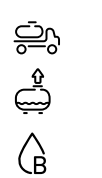
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Urea-solution storage tanks



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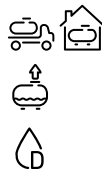


QUADRO-OEL

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03 MOBILE SUPPLY TANKS

Heating oil supply tanks



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Universal supply tanks



QUADRO-TA 700

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04 STATIONARY STORAGE TANKS

Storage tank for fire-resistant fluids



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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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05 STATIONARY COLLECTION TANKS

Collection tank for fire-resistant fluids



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MS-T-SE

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Collection tank for flammable fluids



MS-TP-ELH

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Collection tank for flammable fluids



GS-TP-ELH

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GS-TP-ELH

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GD-TP-ELH

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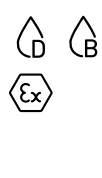


GD-D-ELH

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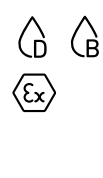
06 MOBILE REFUELLING SYSTEMS

Fuel extraction and equipment



MOBILUS-COMPACT

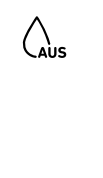
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MOBILUS

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Urea-solution refuelling devices



MOBILUS-BLUE

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07 CUSTOMER-SPECIFIC SOLUTIONS

IBC- EXPERTISE COURSE

Are you a member of staff in a repair shop or an inspection body or even the operator of several mobile storage tank installations? Would you like to test IBCs on a recurring

basis and be active as an inspector?

We can assist you with this!

An IBC expertise course will enable you to qualify for implementing recurring tests and inspections on intermediate bulk containers (IBCs) in accordance with BAM GGR 002.

You will learn the theoretical fundamental principles, as well as the practical execution of an IBC inspection, in just two days.

INFORMATION

TRAINING COURSES

We look forward to your participation and will be pleased to answer any questions you may have. Additional, more detailed information can also be found on our homepage.
















DATES,
INFORMATION AND
REGISTRATION



<https://www.rietberg-behaeltes.de/de/service/ibc-sachkundekurs.php>

LEGEND

General Symbols

	Diesel		Vacuum leakage indicator
	Petrol	NEU	New product
	Motor, gearbox and lubrication oils		Stationary containers
	Kerosene		Mobile containers
	Urea solutions (AUS 32)		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 type sample
	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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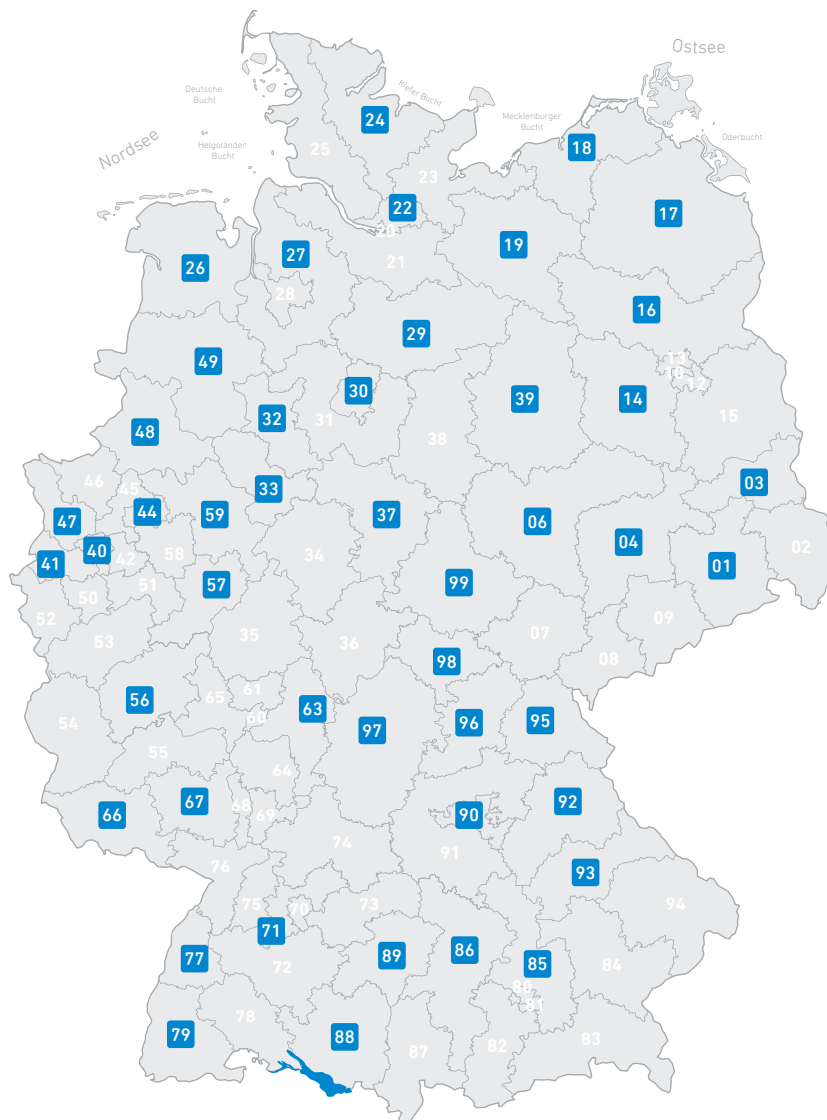
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99 Tankstellenservice
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RIETBERG CONTAINERS THE ORIGINAL!

Nothing is as constant as progress itself. Processes, procedures and legal conditions - everything continuously evolves. Here in the 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 filling station for private consumption for petrol or diesel, the waste-oil storage containers and other collection tanks for liquid hazardous substances as well as the Rietberg fuel containers 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 are the Rietberg vacuum-leakage monitoring system, which does not require a power supply. All of this contributes to high quality and safety standards. In order to also be always prepared for the future, we do not only conduct research and development, rather also comply with the legal requirements. This enables you to also benefit as a customer.

"Seppeler – we make it work" – but why?

Market-oriented and future-oriented alignment 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 and inside and thereby creates the demand 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 with trained and creative staff

Consulting competence.

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

Customer-specific solutions

Tailored to individual requirements

Production and inspection of IBC

Certified and approved for production and inspection/testing of intermediate bulk containers (IBC)

Specialised company according to the German Federal Water Act

Certified for 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 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
Environmental management system according to DIN EN ISO 14001:2015.
- › The production of standardized containers is subject to neutral RAL quality supervision

Durability guarantee

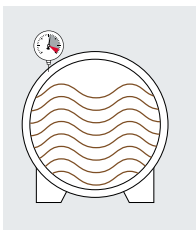
10 year guarantee on hot-dip galvanized containers in appropriate applications according to intended use





Welding - one of the competences in our container technology
MMA, SAW, TIG, MAG/MIG welding

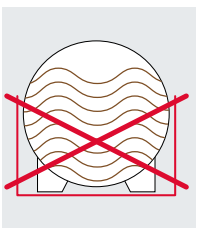
Rietberg Containers– traditionally double-walled



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.

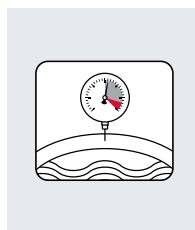
This way, a possible leakage can be detected and displayed before any fluid can leak and cause environmental damage.



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

In Germany, as per 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 completely mounted

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-mounted. The system is immediately ready for operation.

This saves the drive to public fuel stations and grants independence from their opening hours. Rietberg filling stations are designed for the above-ground storage of fuels. This saves the drive to public fuel stations and grants independence from their opening hours. Rietberg filling stations 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 admitted for the storage of fuels such as diesel/heating oil or

petrol and other mineral oil products. Rietberg diesel filling stations 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 onsite filling station fulfilling all applicable requirements as per TRWS 781.

Rietberg petrol filling stations 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.



01

STATIONARY FUEL SYSTEMS



DIESEL STORAGE TANKS

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 installations and in buildings
- › Double-walled in the sense 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 in the sense of the 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
- › When requested for the design, internally raw, externally painted can be¹delivered (all RAL colour shades are possible)

Secure and safe transport

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

Comfortable and safe operating

- › Standardised as equipped 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 with lateral upstands 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"

¹ Coating for outdoor installation upon request

1 Figure similar

2 KA internal as raw and externally painted in RAL 3001 signal red

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

Available models

STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Hot-dip galvanized	Coated ¹
	L	B	H ²			Art. no.	Art. no.
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	Flow-rate [l/min]		Art. no.
		Nominal ³	Effective ⁴	
KA 3000-125 230	Equipped with swing door cabinet, limit value transmitter, motor pump R50 230 V (AC), 6 m connection cable with Schuko plug, counter PZ300, 4 m hose set with angular swivel joint and automatic nozzle valve	56	52	505203
KA 5000-125 230	Equipped with swing door cabinet, limit value transmitter, motor pump R50 230 V (AC), 6 m connection cable with Schuko plug, counter PZ300, 4 m hose set with angular swivel joint and automatic nozzle valve	56	52	505204
KA 10000-140 230 NEW	Equipped with swing door cabinet, limit value transmitter, motor pump R50 230 V (AC), 6 m connection cable with Schuko plug, counter PZ300, 4 m hose set with angular swivel joint and automatic nozzle valve	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, were deleted 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 a storage container and are therefore approved for the storage of fire-resistant fluids (flash point over 55 °C) and other water-polluting liquids or fluids.

1 Coating for outdoor installation upon request

2 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 4m discharge hose and automatic discharge nozzle

Accessories



Type	Description	Art. no.
Swing door cabinet	1 For containers $\geq 1000\text{L}$; From steel, powder-coated RAL 5003, Dimensions (L x W x H): 650 x 650 x 800 mm	81990
Ladder	2 Lateral access ladder with extra large top step for containers with $\varnothing 1400\text{ mm}$ and 1600 mm	98012
Console	Console for fixing the nozzle valve equipment for fuel storage tanks	506020
Pipework kit	Pipework including all assembly parts which are adapted to the customer's installation and requirements,	506021
Cleaning dome III	3 Cleaning dome for fire-resistant fluid containers, 500 mm diameter, plain dome cover screw-connected to the dome flange	88942
Discharge valve bracket	4 Discharge nozzle bracket with lockable return line for drip volumes	300504
Limit value transmitter	KA, MT: To prevent container overfilling when filling from a fuel tanker with fixed, coupled up 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:

Motor pump, 4.0 m discharge hose, angular swivel joint, automatic discharge nozzle with axial swivel joint, connection cable with plug, adapter for mounting on Rietberg containers, mounted on ordered Rietberg container

Type		Flow-rate [l/min]		Voltage [V]	Hose	Art. no.
		Nominal ¹	Effective ²			
R50 230	5	56	52	AC 230	NW19	96349
R80 230		70	65	AC 230	Art. no.	96353
R120 230		100	90	AC 230	Art. no.	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 1 m and equipped with 6 m discharge hose and automatic discharge nozzle

FLOW METER

Type	Description	Flow-rate [l/min]		Art. no.
		Min.	Max.	
PZ300	6 Mechanical, non-calibratable roller flow meter for assembly on a pump viscosity up to 500 cSt	20	120	96359
EZ24	Digital turbine flow meter, not calibratable, not for custody transfer	7	120	96479

TANK DATA RECORDING



Scope of delivery:
 USB interface, USB stick for data retrieval, administration software for evaluating tank procedures, pulse transmitter kit for diesel/heating oil and 10 transponder tags.

Type	Description	Art. no.
HDA ECO	7 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	48410
HDA-ECO Console	Console for fixing on the container or attaching locally	505852
Transponder tag	HDA-ECO Console For contactless participant identification	96617
Interface to HDA-ECO measuring probe	Filling-level measuring for HDA-ECO	47022
HDA-ECO Console	Filling-level measuring for HDA-ECO, 200 mbar	46980
Float switch	HDA-ECO Console For switching off the pump in the event of diesel shortage	96618
Nozzle valve holder with on/off switch	8 Nozzle valve holder with integrated on/off switch for the dispensing pump. Cabling is executed on site. Nozzle holder only suitable for automatic NW 16 discharge valve (Art. 34435)	
	Including automatic nozzle valve NW 19 Slimline	79591
	Excluding automatic nozzle valve NW 19 Slimline	79591-1
	Cabling Kit For cabling between a pump 230 V (see "Electronic Pumps" on p.18) 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

PUMPS WITH FUEL DATA RECORDING



Scope of delivery:

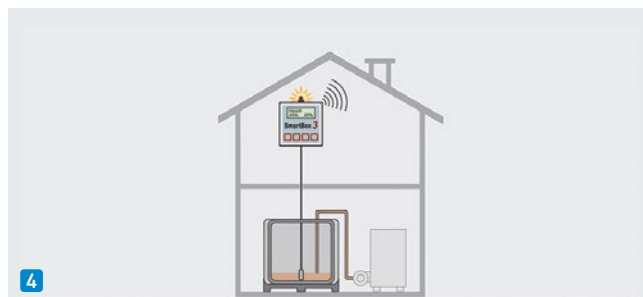
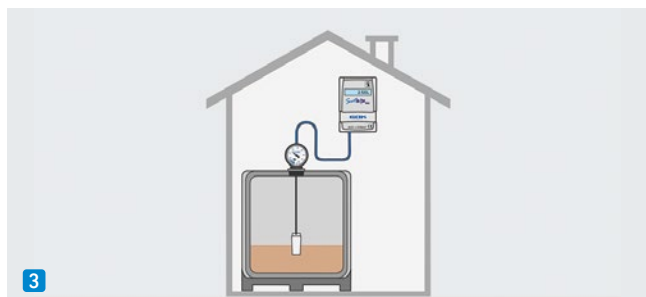
Vane pump, self-priming, 230 V AC motor, oval wheel flow meter with LCD display and pulse generator, not calibratable, not for custody transfer, 4.0 discharge hose, automatic discharge nozzle, discharge nozzle bracket with on/off switch, fuel data recording, PC software for analysis, mounted on ordered Rietberg container

Type	Description	Art. no.
R60 ECO-Box	1 Pumping capacity of max, 55 l/min, DN19 discharge hose; automatic fuel terminal/fuel data recording for up to 2,000 users; internal memory for max, 10,000 fuelling processes; user identification via transponder technology; including USB interface for data retrieval; German, English, French and Spanish user interface (additional languages can be loaded); all components are integrated in a durable steel housing	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	2 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



Diverse accessories such as radio-remote module, cloud connection etc. are available on request.

FILLING LEVEL INDICATOR / REMOTE INDICATION



Type	Description	Art. no.
SmartBox® Mini	3 Electronic remote filling level indicator, consisting of a mechanical filling level indicator (measuring accuracy +/- 2 %, for installation at 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	4 Electronic remote filling level indicator including hydrostatic measuring probe (measuring range 250 mbar, measuring accuracy 1 %, for installation at 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



DISCHARGE NOZZLES

Type	Flow-rate [l/min]	Special features	Outlet	Art. 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

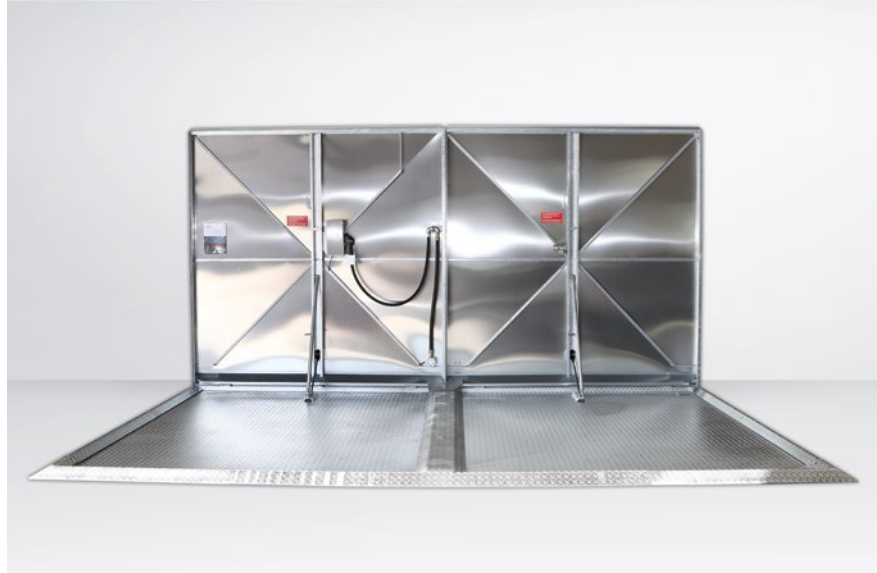
DISCHARGE HOSES & HOSE DRUM

Type	Description	Length [m]	Art. no.
Discharge hose NW19	Integration 1" IT on one side / 1" OT on the other	4	39731
		6	39732
		8	45232
		13	45375
Discharge hose NW25	Integration 1" IT on one side / 1" OT on the other	4	97143
		6	97144
		8	97145
		13	97146
Hose drum (for panel mounting, art. no, 97982)	Diesel NW19 x 10 m; hose drum with spring return and outlet window; incl, mounting material and pump connection hose		98047
			98046
			98045
			98044
Panel KA	10 Steel, hot-dip galvanized, for secure mounting of a hose drum or other additional equipment on a KA diesel storage container		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 decreased with increasing saturation of the filter cartridge. The flow is blocked if the filter cartridge is fully saturated		73165
Replacement cartridge	Replacement filter cartridge for the fuel filter		39759

FUEL FILLING STATIONS

KAP-ECO

[DIESEL]



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 installations and in buildings
- › The collection trays have a volume of 150 l respectively.

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 with a relocation to another position
- › 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 working area

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 sheets

Comfortable and safe operating

- › 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



Available models

Type	Description	Dimensions [mm]			Weight [kg]	Hot-dip galvanized Art. no.
		L	B	H		
KAP-ECO	1 2 trays incl. ramps	5200	2600	60	680	72737

Accessories

Type	Description	Dimensions [mm]			Weight [kg]	Hot-dip galvanized Art. no.
		L	B	H		
Splash protection wall	2 In case of indoor installation for limitation of the effective range incl. discharge hose bracket	5000	-	1060	105	74205
Folding cover	3 In case of outdoor installation, for limitation of the access area and for covering 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 Cover ²	170	74920

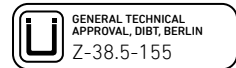
4 KA 3500, not included in the price, refer to page 16
5 Splash guard for filling pipe, not included in the price, refer to 27
 1 Closed/open

FUEL FILLING STATIONS

KAP-GIRO



[DIESEL]



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 installations and in buildings
- › The collection trays have a volume of 180 l respectively

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 with a relocation to another position
- › No oil separator is required, therefore any associated costs for installation, sewer connection and annual servicing or maintenance are also eliminated.

Space saving

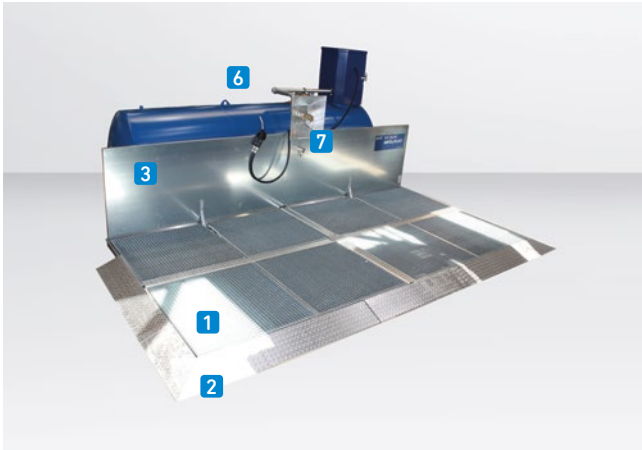
- › Modular structure
- › Splash guard for halving the working area

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 sheets

Comfortable and safe operating

- › 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



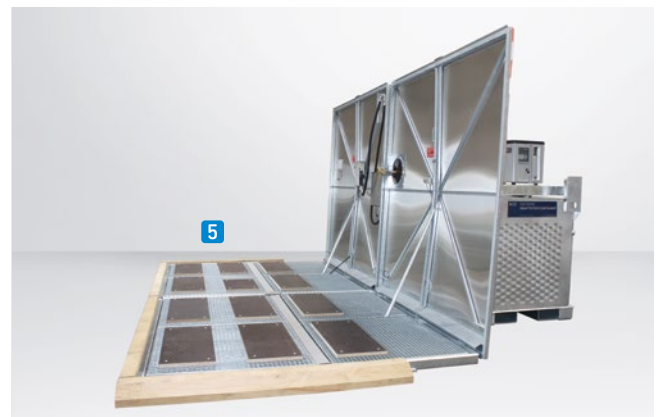
Available models

Type	Description	Dimensions [mm]			Weight [kg]	Art. no.
		L	B	H		
KAP-GIRO	1 4 steel trays with 2 heavy-duty gratings	5000	2500	90	1100	74910

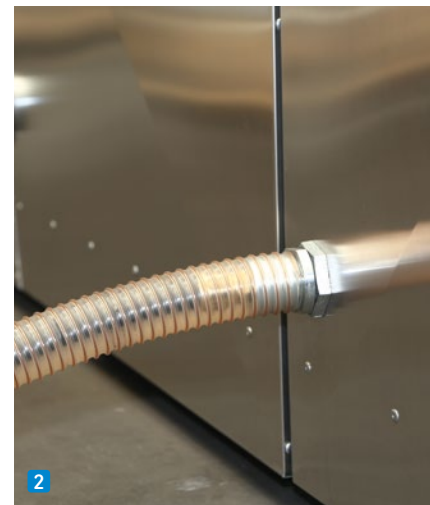
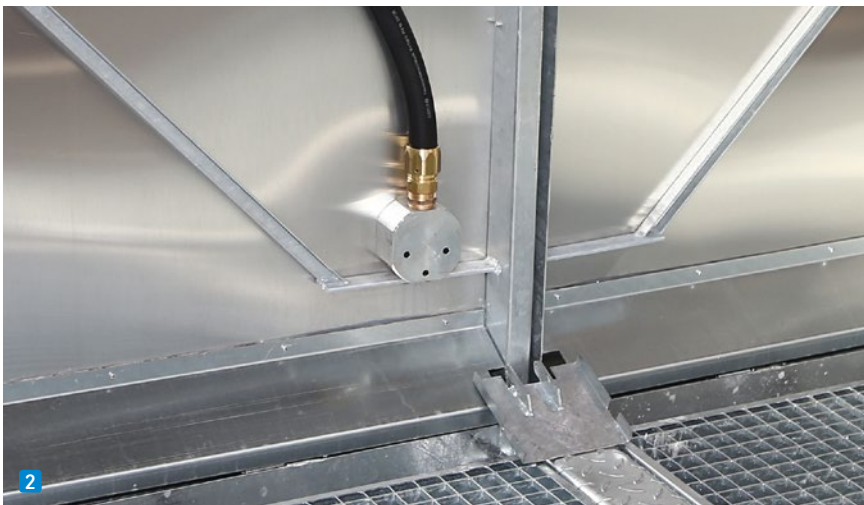
Accessories

Type	Description	Dimensions [mm]			Weight [kg]	Art. no.
		L	B	H		
Access ramps	2 Assembly kit including hot-dip galvanized corrugated sheet for the front longitudinal side and both of two short sides (incl. end profiles)	5550 ¹	2780 ¹	90 ¹	162	504653
Splash protection wall	3 In case of indoor installation for limitation of the effective range incl. discharge hose bracket	5000	–	1060	105	73318
Folding cover	4 In case of outdoor installation, for limitation of the access area and for covering 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 Cover ²	170	75093
KAP-GIRO for tracked vehicles	5 Accessory kit consisting of 12 perforated pressure plates made of wood for protection of the gratings as well as wood drive-up ramps on the longitudinal side and the two front sides					73475

KAP GIRO for caterpillar-type tracked vehicles and with hinged cover, with a mobile QUADRO-C 3000 fuel container and pump with R60 Eco Box container recording



6 KA 5000, not included in the price, refer to Page 16
7 Splash guard for filling pipe, not included in the price, refer to Page 27
 1 Dimensions for filling surface area, including approach ramps
 2 Closed/open



Rear view with cover in place



Accessories for KAP ECO and KAP GIRO fuel filling stations

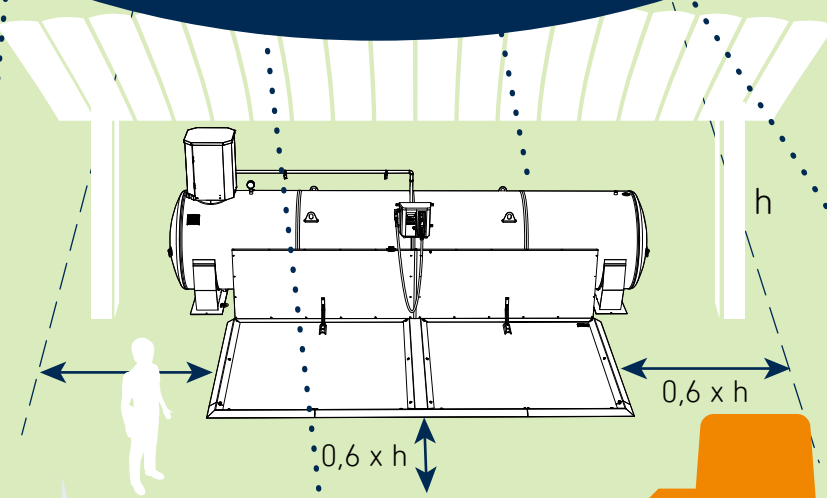
Type	Description	Art. no.
ASS fittings	1 Consisting of an insulated TW filling fitting with connection board, a special fill limit indicator for installation into the storage container and a fill limit indicator connector routed into the KAP folding cover; with the ASS fittings, the TW pump is deactivated 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	1 Preassembled component with automatically opening/closing cover for assembly in a KAP folding cover	74007
Filler line extension	1 For extension of the filler line of a Rietberg storage container to the fuel filling station; assembly kit including 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
Twin hose system	2 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	3 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
Sealing kit hinged cover NEW	Additional sealing to protect the hinged cover against the ingress of rainwater in areas with strong crosswinds	98330
Height guiding for discharge hose	4 A vertical sliding rail at the KAP splash protection wall extending the discharge hose for reaching higher vehicle tanks; the horizontal hose length remains the same at 1,5 m For splash protection wall	77398
	For folding cover	73399
EZ24	Digital turbine flow meter, not calibratable, not for custody transfer, for direct mounting at the discharge nozzle	96479
Nozzle valve holder with on/off switch	Nozzle valve holder with integrated on/off switch for the dispensing pump. Cabling is executed on site. Nozzle valve holder is only suitable for automatic nozzle valve NW 19 Slimline (Article No, 34435) Including automatic nozzle valve NW 19 Slimline	79591
	Excluding automatic nozzle valve NW 19 Slimline	79591-1
	Cabling assembly kit For cabling between a pump 230 V (s. „Elektropumpen“ auf S. 18) 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 panel R50	For assembly on a dispensing directly on the splash guard wall of the KAP; Connection between pump and storage tank on site	300056
Pump panel R60/R80 ECO-Box	For assembling one R60/80 ECO box directly on the splash guard wall; Connection between pump and storage tank on site	98555
Pegs	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 surface area	73671
Heavy-duty anchors	10 bolt anchors, M 12 x 61, with expansion clip for fixing a fuel filling bay on a concreted or asphalted surface area	41281

6

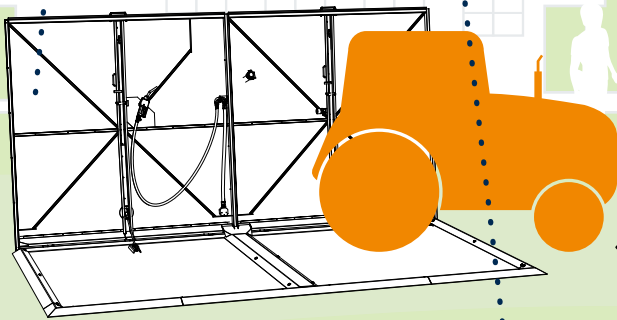
Installation examples for fuel filling stations

INDOOR INSTALLATION WITH SPLASH PROTECTION WALL

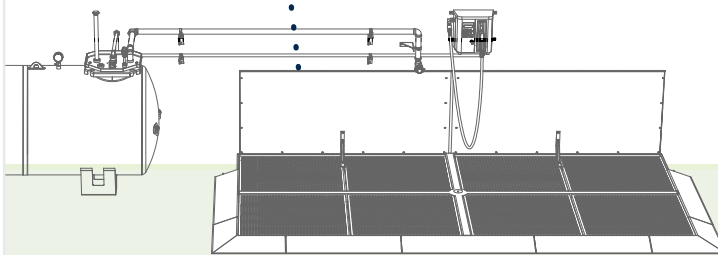
OUTDOOR INSTALLATION WITH



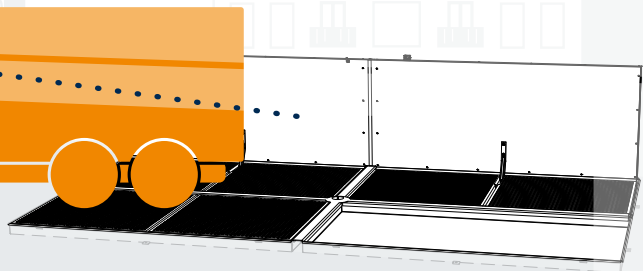
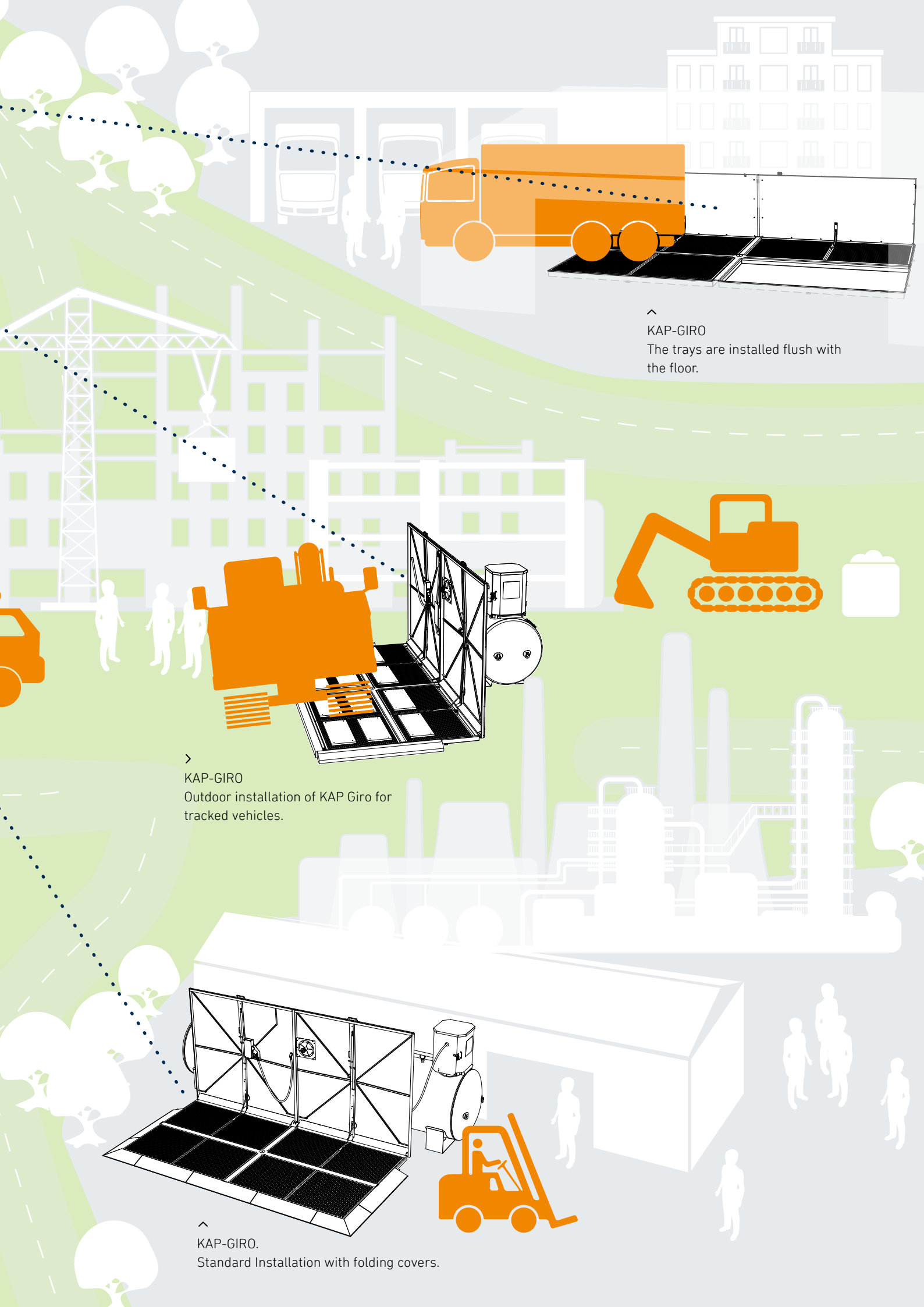
< KAP-ECO
With panel-mounted dispensing pump set up under an all-open roof (not shown). The roof overhang depends on the height of the roof.



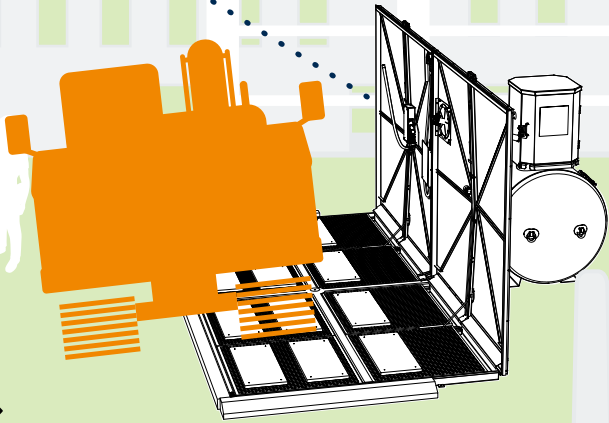
< KAP-ECO
Outdoor Installation.



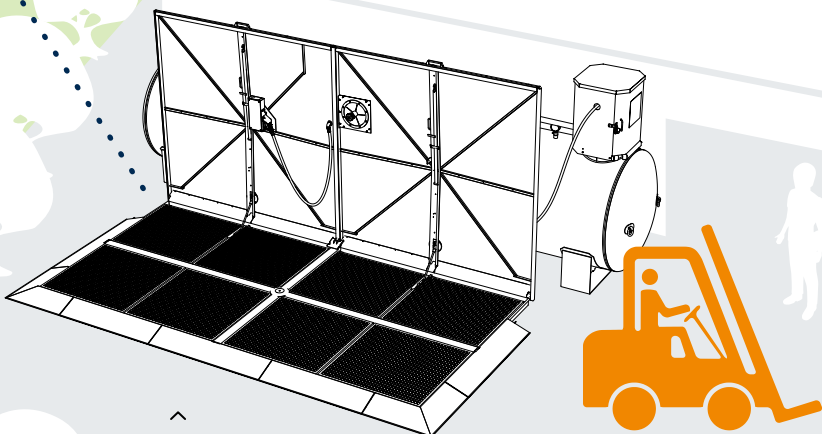
^ KAP-GIRO
With panel-mounted dispensing pump. Due to the restricted room depth, the storage container was positioned next to the KAP.



^
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 folding covers.

REQUIREMENTS FOR DIESEL ON-SITE FILLING STATIONS ACCORDING TO TRWS 781 (GERMANY)

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, e.g. Agricultural machines, with fuel and which have a yearly throughput of maximally 100 m³. 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 discharge unit and a filling area – e.g., the Rietberg fuel filling station for indoor and outdoor installation.

Components

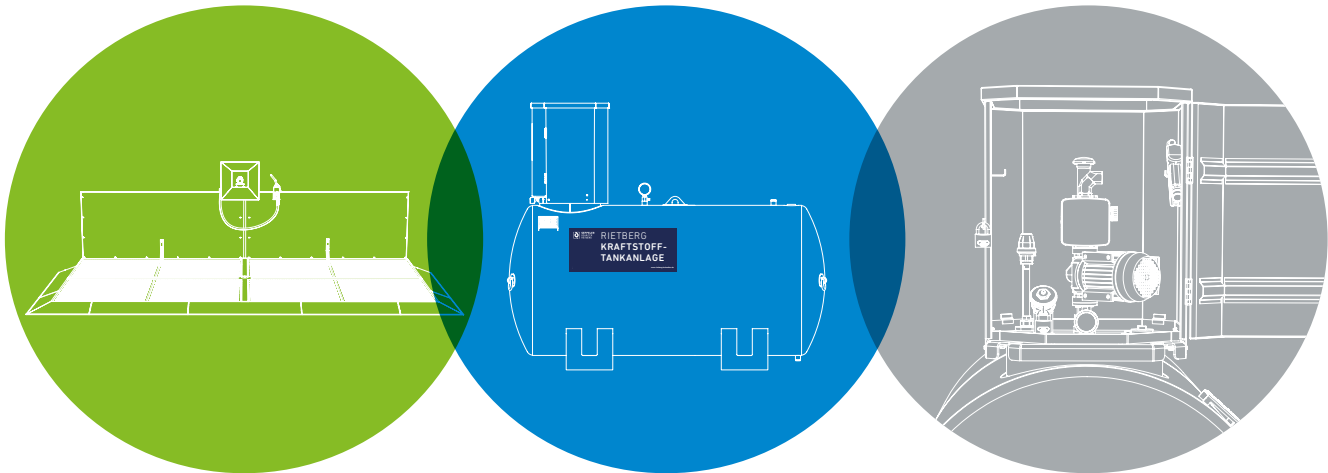


Fig. 1 -1: Example for components of a Rietberg filling station for private consumption: KAP GIRO filling station, KA 3000 storage container and dispensing equipment

FILLING STATION

Size of the filling station:

- › For discharge, the size of the filling station is defined by the effective range. This is calculated from the max. hose length including discharge nozzle plus 1 m.
- › Effective 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 (Refer to Fig. 1-2).

Retention capacity:

- › The retention capacity for discharge units is calculated from the fuel volume that can be discharged 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 discharged 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

- › Regulated construction products, e.g. container according to DIN, containers with compliance certificate or general technical approval
- › Approval for outdoor installation
- › Double-walled or with collection tray
- › Collision buffer
- › Overfill protection, e.g. fill limit indicator¹
- › Filling with fixed connection¹


DISCHARGE UNIT

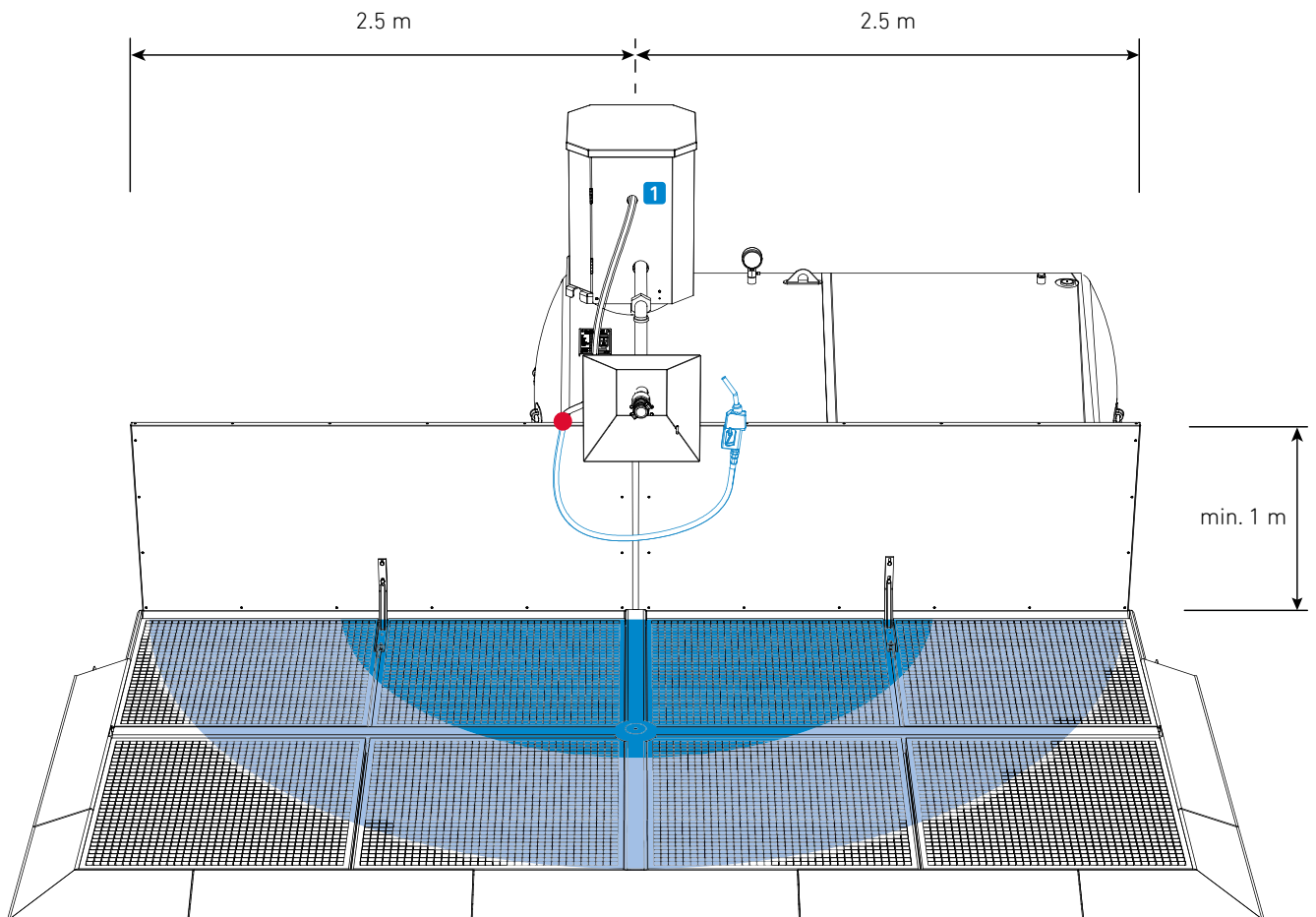
- > Automatic discharge nozzle
- > Emergency off switch
- > Siphon protection valve

Obligations for the operator

- > Competent planning and design, ideally by utilising a specialised company in collaboration with competent local authority
- > Obligation to notify in the case of plants and/or systems with a volume of more than 1,000 l or in general in protected areas
- > Building application for plants and/or systems with a volume of more than 10,000 l
- > Creating a hazard evaluation
- > Creating the plant and/or system documentation

- > Expert assessor inspection before commissioning and recurring every 5 years for plants and/or systems with a volume of more than 10 m³ 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 Effective range – 2.5 m Discharge hose starting point

Fig. 1 -2: Structure of a Rietberg filling station for private consumption according to AwSV: KAP GIRO filling station with splash guard wall and KA 3000 storage container

1 Twin hose system (not represented)
 1 For fuel systems with up to 1.25 m³, simplified conditions apply!

PETROL STORAGE TANKS

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 installations and in buildings
- › Double-walled in the sense 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 in the sense of the 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
- › When requested for the design, internally raw, externally painted can be¹ delivered (all RAL colour shades are possible)
- › The containers, tanks and vessels which we manufacture 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)

Comfortable and safe operating

- › Standardised as equipped 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 vapour 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"

¹ Coating for outdoor installation upon request

Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Art. no.	
	L	B	H ¹			Hot-dip galvanized	Art. no. Coated
KA 400	1000	1000	900	160	DIN 6623-2	71108	71109
KA 600	1 1000	1000	1150	190	DIN 6623-2	71110	71111
KA 995	1250	1250	1250	250	DIN 6623-2	71112	71113



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

Accessories

Type	Description	Art. no.
Small swing door cabinet	2 For containers < 1000L; From 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 AC motor 230 V, 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 nozzle valve (NW 16); including assembly adapter and assembly on Rietberg container which is also ordered.

Type	Flow-rate [l/min]		Voltage [V]	Description	Art. no.
	Nominal ²	Effective ³			
R50 230ex	3 50	45	AC 230	Refer to 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 4m 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 nozzle valve (NW 16); including assembly adapter and assembly on Rietberg container which is also ordered.

Type	Flow-rate [l/stroke]	Description	Hose	Art. 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]		Art. no.
		Min.	Max.	
PZ300ex	Mechanical, non-calibratable, Ex-protected roller flow meter for assembly on a pump	20	120	97149
EZ24ex	Digital, non-calibratable, Ex-protected turbine flow meter for assembly on a discharge valve	7	120	46026

DISCHARGE HOSE & HOSE DRUM

Type	Description	NW19	NW25
		Art. no.	Art. no.
Discharge hose 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 drum	Hose drum, explosion-protected, with 10 m electrically conductive hose NW 19, spring return and outlet window; including fixing material and connection hose to pump	98048	–
Panel for hose drum petrol	Steel, hot-dip galvanized, for secure mounting of a hose drum or other additional equipment on a KA 400 – 995 petrol storage container	98117	98117

FILTER

Type	Description	Art. no.
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 decreased with increasing saturation of the filter cartridge; the flow is blocked if the filter cartridge is fully saturated The flow is blocked if the filter cartridge is fully saturated	73165
Replacement cartridge	Replacement filter cartridge for the fuel filter	39759

REQUIREMENTS FOR PETROL ON-SITE FILLING STATIONS ACCORDING TO TRWS 781 (GERMANY)

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 m³. 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 discharge unit and a filling area.

Components

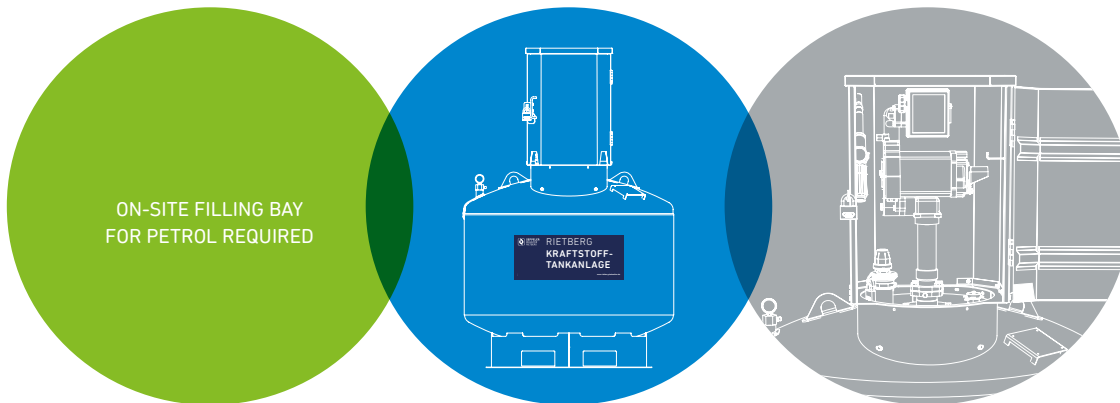


Fig. 1 -1: Example for components of a Rietberg petrol filling station for private consumption: KA 995 storage container and dispensing equipment

FILLING STATION

Size of the filling area:

- › For discharge, the size of the filling station is defined by the effective range. This is calculated from the max. hose length including discharge nozzle plus 1 m.
- › Effective 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 of 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.

Retention capacity:

- › The retention capacity for discharge units is calculated from the fuel volume that can be discharged 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 discharged 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.

STORAGE CONTAINERS

- › Regulated construction products, e.g. container according to DIN, containers with compliance certificate or general technical approval

- › Approval for outdoor installation
- › Double-walled or with collection tray
- › Collision buffer
- › Overfill protection, e.g. fill limit indicator
- › Filling with fixed connection
- › Gas balance line port for container filling

DISCHARGE UNIT

- › Automatic discharge nozzle
- › Emergency off switch
- › Siphon protection valve

Obligations for the operator

- › Competent planning and design, ideally by utilising a specialised company in collaboration with competent local authority
- › Application for a permit and building permits
- › Creating a hazard evaluation
- › Creating an explosion protection documentation
- › Creating and managing the plant and/or system documentation
- › Creating the plant and/or system documentation
- › Expert assessor inspection before commissioning and recurring every 6 years for plants and/or systems with a volume of more than 10 m³ 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

Mobile fuel systems are essentials for the fuelling of machinery and power units. Independent of the location: whether on construction sites, during forestry work, on fields or in stone pits, fuelling of machinery and equipment should be possible quickly and safely on site. Rietberg steel fuel containers offer the best possible levels of safety and flexibility for this purpose and thus contribute to the minimization of standstill times. This saves time and money.

... →



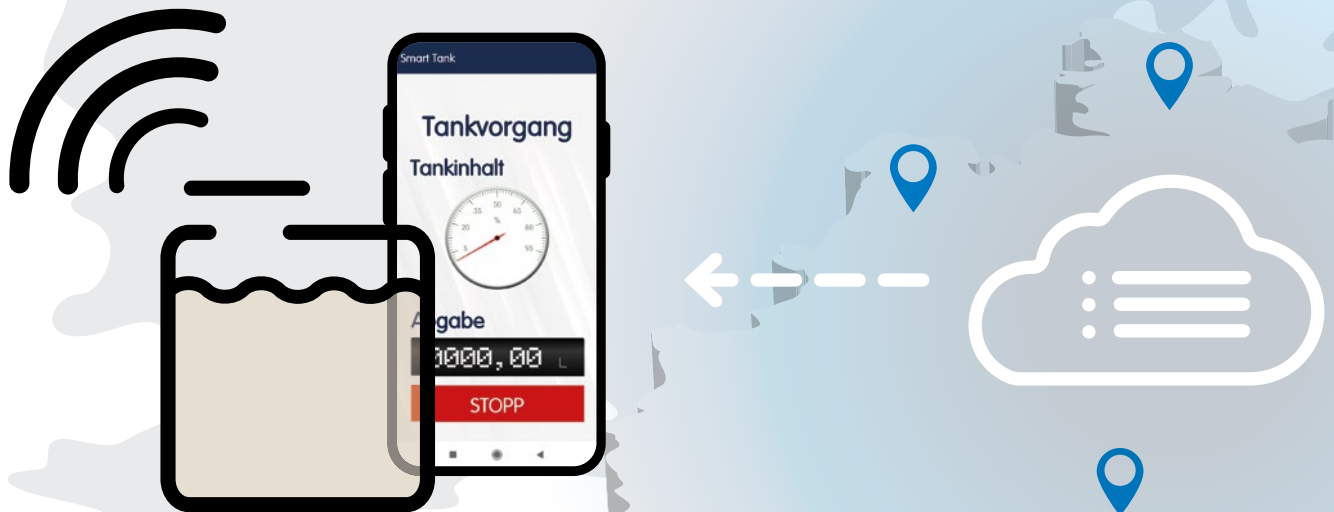
02

MOBILE FUEL SYSTEMS



RSF

RIETBERG SMART FUEL THE DIGITAL TANK DATA MANAGEMENT FOR RIETBERG CONTAINERS



Do you have questions about our app or our web-based tank data management software? We will personally advise you

CONTACT PARTNER

Daniel Winter

Phone: +49 (0) 5244 983-263

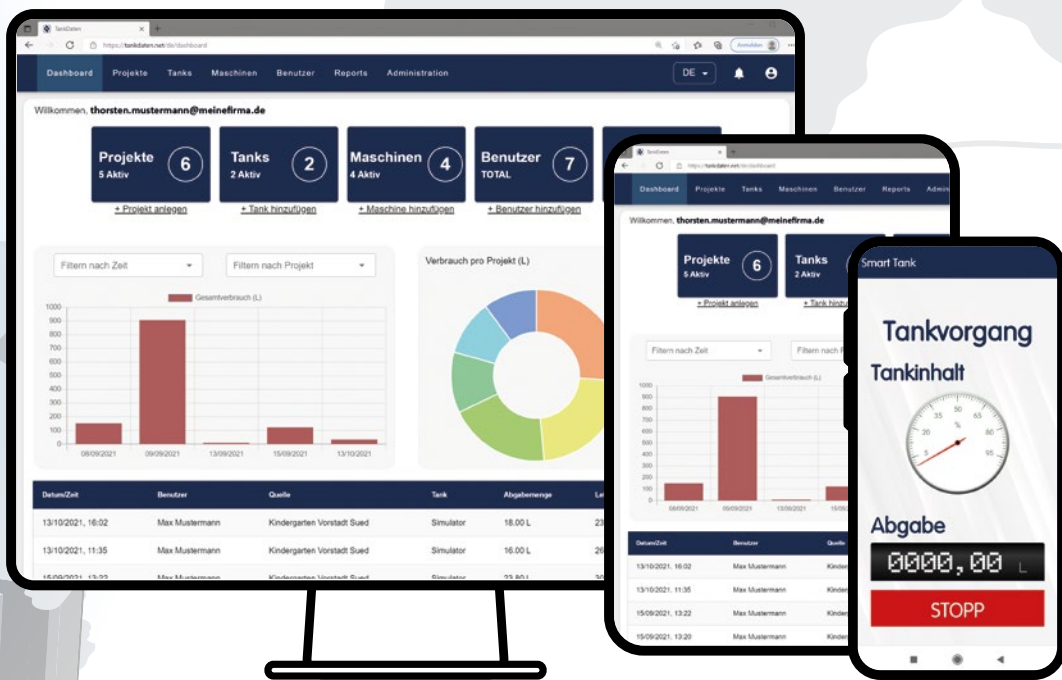
Mail: daniel.winter@seppeler.de



RietbergSmartFuel

One solution. Many advantages.

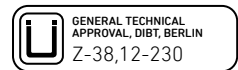
Our tank data management system is compact, light and intelligent. Available soon...



DIESEL STORAGE TANKS

QUADRO-DV

[DIESEL]



Legally compliant transportation and storage

- › Approved for an unlimited period as packaging method 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 in the sense of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installations 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 (stacking load 6500 kg)
- › EURO pallet dimension¹

Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot-dip galvanizing
- › When requested for the design, internally raw, externally painted can be delivered² (all RAL colour shades 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 stop cock
- › Suction pipe with shut-off stop cock
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-0209-013

Comfortable and safe operating

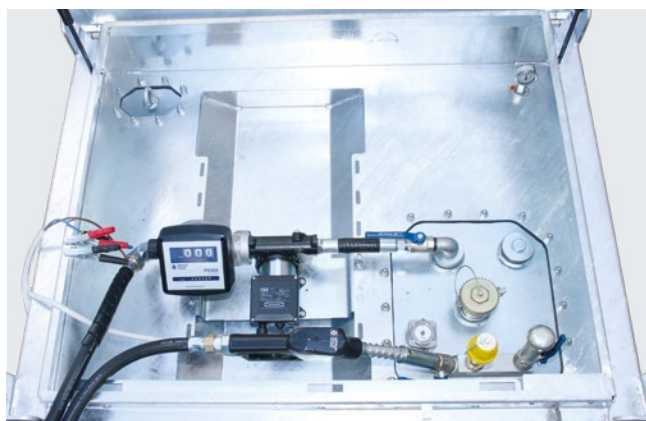
- › Lockable, spring-supported lid
- › Two gas-pressure springs and three grips for simplified lid operation from three sides
- › Continuous, mechanical and easily readable fuel gauge
- › Discharge valve holder and return-flow option for safe, secure and clean return flow for drip quantities into the containers
- › Lateral opening for hose pipe and/or power cable with 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

¹ 1200 x 800 mm

² Coating for outdoor installation upon request



Technical data

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Art. no.
	L	B	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]		Art. no.
		Nominal ¹	Effective ²	
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 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 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 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 nozzle valve and flow meter PZ300	56	52	503705



- > Fuel containers with diesel-urea combination can be found on P. 50
- > Fuel containers for diesel can be found on P. 76, 80

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 4m discharge hose and automatic discharge nozzle



Accessories¹


Type	Description	Art. no.
Assembly kit	Comprising the following bracket for battery, two 12 V / 85 Ah batteries and battery charger:	97719
Including battery bracket, 12 V / 85 Ah battery and charger:	Battery bracket: Full steel, hot-dip galvanized, for secure mounting of the battery at QUADRO-C, maximum battery dimensions; L x W x H = 350 x 180 x 236 mm	98043
	Battery 12 V / 85 Ah: High power 12 V/85 Ah (20h) gel battery, maintenance-free, watt hours: 950 Wh, 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
	Charger: 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 ²	Battery bracket: Full steel, hot-dip galvanized, for secure mounting of the battery at QUADRO-C, maximum battery dimensions; L x W x H = 350 x 180 x 236 mm	300704
	24 V / 85 Ah battery¹: 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
	Charger: 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
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	steel hose drum with protective cover and outlet window; automatic spring return, horizontally mounted and ready for operation in the loading space of DN-DV/-D	504012
For QUADRO DV/-D ³	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
Lashing straps	2 lashing straps, 2-part, length 4 m, long pressure ratchet, belt width 35 mm; max. admissible traction 2000 daN	47993
Non-slip mats	2 pieces; strength 8 mm, dimensions 1000 x 250 mm	47994

¹ Cannot be combined with QUADRO complete packages

² Cannot be combined with the integrated hose reel

³ Cannot be combined with the battery 24 V/85 Ah

Type	Description	Art. no.
Additional painting QUADRO	Additional painting of the outer body of a galvanized QUADRO, except the galvanized lid, RAL colour as per customer's request 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



- > Tandem diesel pumps package can be found on P. 48
- > Additional pumps, flow meters and other equipment can be found from P. 71

Special models

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

SURFACE MODELS

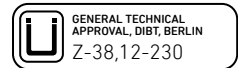


Surface designation	Internal wall	External wall
Hot-dip galvanized	Hot-dip galvanized	Hot-dip galvanized
Coated	Raw	Coated
Coated stainless steel	Stainless steel	Coated
Hot-dip galvanized with additional coating	Hot-dip galvanized	Hot-dip galvanized and coated
Stainless steel	Stainless steel	Stainless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

DIESEL STORAGE TANKS

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 in the sense of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installations 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 in a filled condition
- › Pallet dimension¹¹

Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot-dip galvanizing
- › When requested for the design, internally raw, externally painted can be ²delivered (all RAL colour shades 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 stop cock
- › Suction pipe with shut-off stop cock
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-0209-013

Comfortable and safe operating

- › 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
- › Discharge valve holder and return-flow option for safe, secure and clean return flow for drip quantities into the containers
- › Lateral opening for hose pipe and/or power cable with 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

¹ 1200 x 800 or 1200 x 1000

² Coating for outdoor installation upon request



Available models

STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Art. no.
	L	B	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

COMPLETE PACKAGE

Type / Capacity	Description	Flow-rate [l/min]		Art. no.
		Nominal ¹	Effective ²	
QUADRO-D 770-12/24	Complete package equipped with limit-value transmitter, pump 12/24 V, 6 m connection cable and battery terminals, 6 m hose set with angular swivel joint, automatic nozzle valve and flow meter PZ300	35/70	30/50	500248
QUADRO-D 770-230	Complete package equipped with limit-value transmitter, pump 230 V, 6 m connection cable and Schuko plug, 6 m hose set with angular swivel joint, automatic nozzle valve and flow meter PZ300	56	52	500249
QUADRO-D 1000-12/24	Complete package equipped with limit-value transmitter, pump 12/24 V, 6 m connection cable and battery terminals, 6 m hose set with angular swivel joint, automatic nozzle valve and flow meter PZ300	35/70	30/50	500250
QUADRO-D 1000-230	Complete package equipped with limit-value transmitter, pump 230 V, 6 m connection cable and Schuko plug, 6 m hose set with angular swivel joint, automatic nozzle valve and flow meter PZ300	56	52	500251

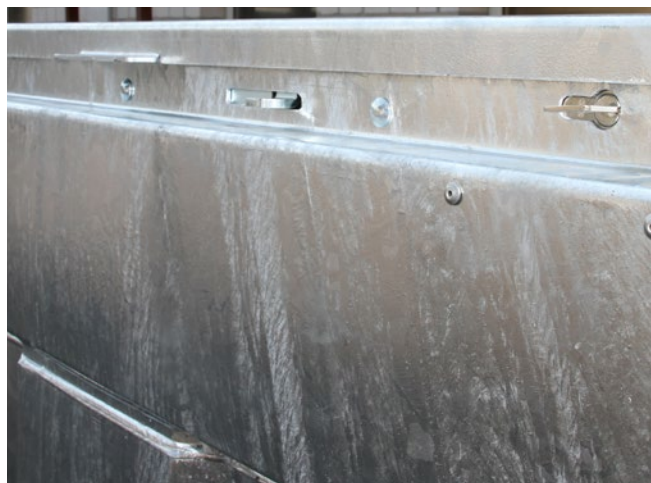
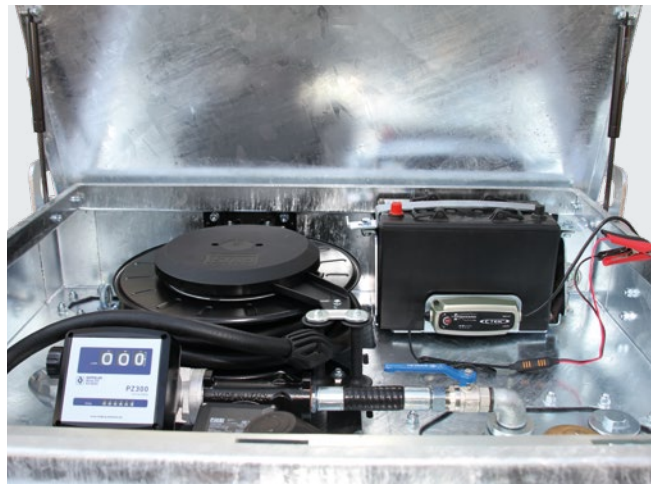
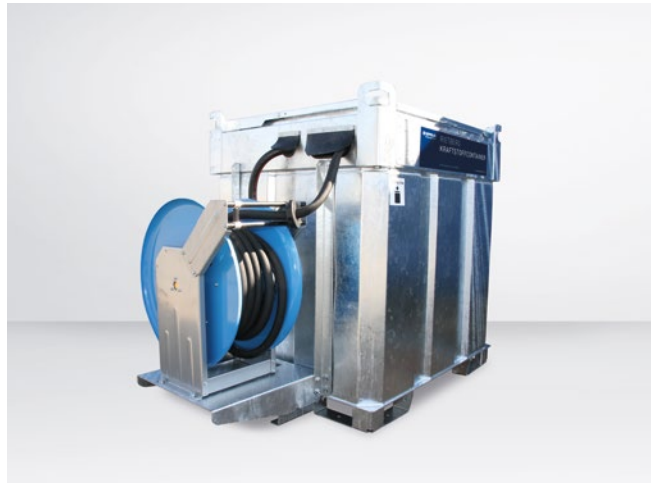


- > Fuel containers with diesel-urea combination can be found on P. 50
- > Fuel containers for diesel can be found on P. 76, 80

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

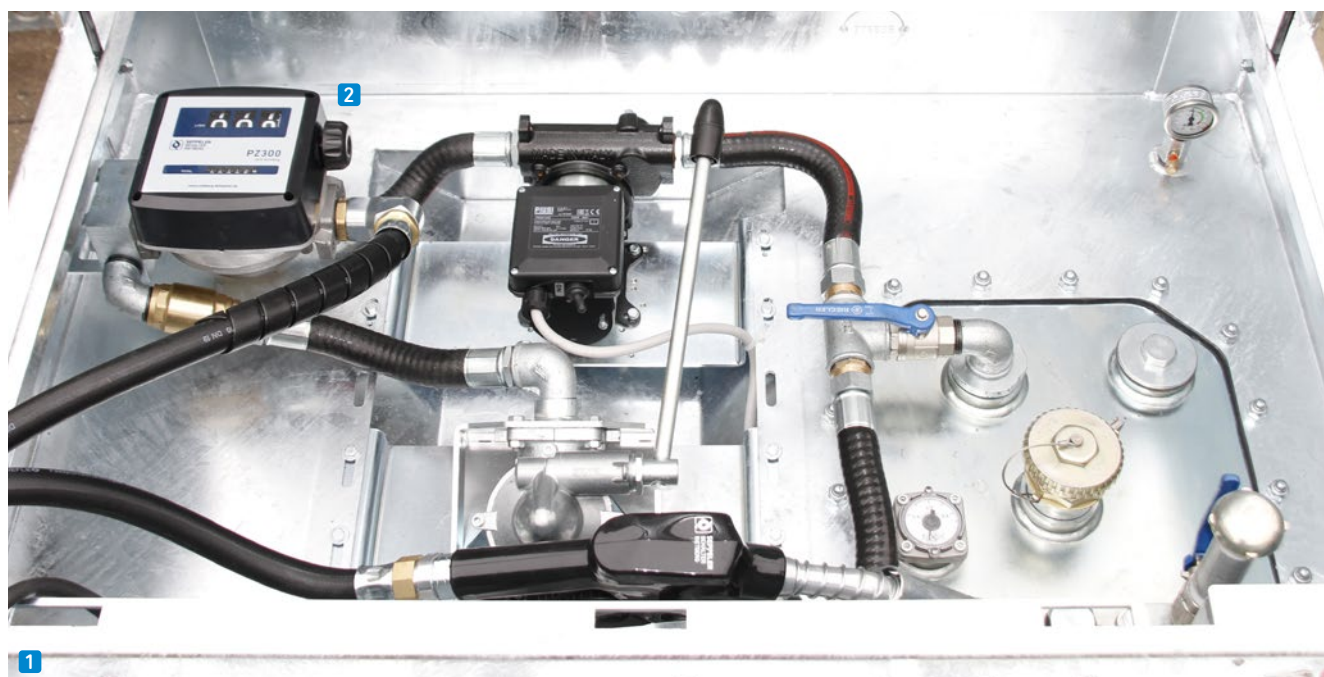
Accessories¹



Type	Description	Art. no.
Assembly kit Including battery bracket, 12 V / 85 Ah battery and charger:	Comprising the following bracket for battery, two 12 V / 85 Ah batteries and battery charger:	97719
	Battery bracket: Full steel, hot-dip galvanized, for secure mounting of the battery at QUADRO-C, maximum battery dimensions; L x W x H = 350 x 180 x 236 mm	98043
	Battery 12 V / 85 Ah: High power 12 V/85 Ah (20h) gel battery, maintenance-free, watt hours: 950 Wh, 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
	Charger: 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 Including battery bracket, 24 V / 85 Ah battery and charger: ¹	Comprising the following bracket for battery, two 12 V / 85 Ah batteries and battery charger:	300306
	Battery bracket: Full steel, hot-dip galvanized, for secure mounting of the battery at QUADRO-C, maximum battery dimensions; L x W x H = 350 x 180 x 236 mm	300704
	24 V / 85 Ah battery¹: 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
	Charger: 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
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
Hose drum	Diesel NW25 x 15 m; hose drum with spring return and outlet window; incl, mounting material and pump connection hose	98044
	Steel, hot-dip galvanized, for secure mounting of a hose drum or other additional equipment on a KA diesel storage container	300728
Integrated Hose drum ²	steel hose drum with protective cover and outlet window; automatic spring return, horizontally mounted and ready for operation in the loading space of 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 traction 2000 daN	47993
Non-slip mats	2 pieces; strength 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 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

1 Only in combination with integrated hose reels with QUADRO-D 1000

2 Cannot be combined with the integrated battery 24 V/85 Ah

TANDEM DIESEL PUMPS PACKAGE¹

Type	Description	1.- Flow-rate [l/min]		2. pump Flow-rate [l/min l/stroke]		Art. no.
		Nominal ²	Effective ³	Nominal	Effective	
Tandem diesel pumps- DC, QUADRO-DV/-D Package	Manual pump installed in parallel with a diesel pump with DC motor 12/24 V, 6 m connection cable with battery terminals, 4 m hose set with angular swivel joint, automatic nozzle valve and mechanical flow meter	35/70	30/50	0.35	–	506180
Tandem diesel pumps- AC Package	1 Manual pump installed in parallel with a diesel pump with alternative current motor 230 V, 6 m connection cable Schuko plug, 4 m hose set with angular swivel joint, automatic nozzle valve and mechanical flow meter	56	52	0.35	–	506181
Tandem diesel pumps- AC/DC QUADRO-DV/-D Package	Diesels 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 nozzle valve and mechanical flow meter	56	52	35/70	30/70	506179
PZ300	2 Mechanical, non-calibratable roller flow meter for assembly on a pump Min. 20 l/min, Max. 120 l/min, max. viscosity 500 cSt.					96359



Additional pumps, flow meters and other equipment can be found from P. 71.

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

Special models

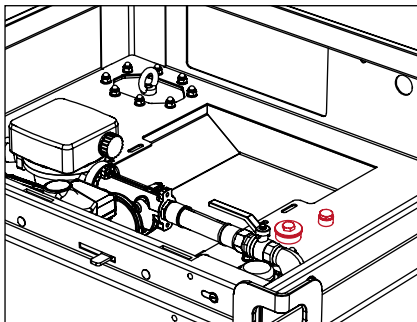
For optimum response to customer requests, QUADRO-C offers various optional special models:

SURFACE MODELS



Surface designation	Internal wall	External wall
Hot-dip galvanized	Hot-dip galvanized	Hot-dip galvanized
Coated	Raw	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

SLEEVES



Type	Description	Art. no.
Additional sleeve	Up to 2"; for installation of additional fittings (max, 6)	98036



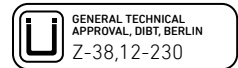
Variable height storage boxes, interior floor with slopes and double-walled sump cups are available on request.

DIESEL STORAGE TANKS

QUADRO-BLUE



[DIESEL & UREA SOLUTION (AUS 32)]



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 in the sense of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum leakage monitoring for both walls
- › Approved for outdoor installations 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 identification
- › Storage without additional collection tray

Space saving

- › Fuel container can also be stacked 3-fold in a filled condition

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 for the design, internally raw,¹ externally painted can be delivered (all RAL colour shades 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 stop cock
- › Suction pipe with shut-off stop cock
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-0209-013

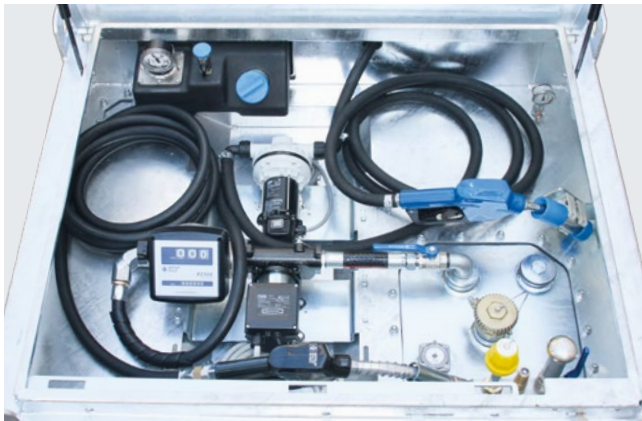
Comfortable and safe operating

- › Lockable, spring-supported lid
- › Two gas-pressure springs and 3 grips for simplified lid operation from three sides
- › Continuous, mechanical and easily readable fuel gauge
- › Discharge valve holder and return-flow option for safe, secure and clean return flow for drip quantities into the containers
- › Lateral opening for hose pipe and/or power cable with 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 tank system, 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

¹ Coating for outdoor installation upon request



Available models

STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Volumes Urea solution tank [l]	Approval
	L	B	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	1200	1235	1322	431	170	D/BAM/15450/31A Z-38,12-230

COMPLETE PACKAGE

Type / Capacity	Description	Flow-rate [l/min]		Art. no.
		Nominal ¹	Effective ²	
QUADRO-BLUE 450-12/24	Complete package equipped with diesel equipment : Pump 12/24 V, 6 m connection cable with battery terminals, 6 m hose set with angular swivel joint, automatic nozzle valve and flow meter PZ300	35/70	30/50	503945
	Urea solution equipment (AUS 32) : Pump 24 V ³ , 6 m connection cable with battery terminals, 6 m hose set with manual nozzle valve	35	30	
QUADRO-BLUE 450-230	Complete package equipped with diesel equipment : 230 V pump, 6 m connection cable with Schuko plug, 6 m hose set with angular swivel joint, automatic nozzle valve and flow meter PZ300	56	52	503946
	Urea solution equipment (AUS 32) : 230 V pump, 2 m connection cable with Schuko plug, 6 m hose set with manual nozzle valve	32	29	
QUADRO-BLUE 770-12/24	Complete package equipped with diesel equipment : Limit-value transmitter, pump 12/24 V, 6 m connection cable with battery terminals, 6 m hose set with angular swivel joint, automatic nozzle valve and flow meter PZ300	35/70	30/50	503947
	Urea solution equipment (AUS 32) : Pump 24 V ³ , 6 m connection cable with battery terminals, 6 m hose set with manual nozzle valve	35	30	



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

3 The pump DC 12/24 can be operated with 12 V as well as 24 V direct current

OUR SOLUTIONS FOR UREA SOLUTION TANKING



CONTY-BLUE

Single-walled mobile tank unit made of stainless steel, perfect for transporting on pick-ups or small commercial vehicles....

MORE ON P. 82

QUADRO-BLUE

You do not want to separate? You do not have to. Our mobile tank system for diesel and urea solution (AUS 32) mean that you always have everything with you...



MORE ON P. 50



MT-BLUE

We always recommend our compact MT-BLUE for storing larger quantities of urea solution. Please contact your sales person...

Type / Capacity	Description	Flow-rate [l/min]		Art. no.
		Nominal ¹	Effective ²	
QUADRO-BLUE 770-230	Complete package equipped with diesel equipment : Limit-value transmitter, 6 m connection cable with Schuko plug, 6 m hose set with angular swivel joint, automatic nozzle valve and flow meter PZ300	56	52	503948
	Urea solution equipment (AUS 32) : 230 V pump, 2 m connection cable with Schuko plug, 6 m hose set with manual nozzle valve	32	29	
QUADRO-BLUE 1000-12/24	Complete package equipped with diesel equipment : Limit-value transmitter, pump 12/24 V, 6 m connection cable with battery terminals, 6 m hose set with angular swivel joint, automatic nozzle valve and flow meter PZ300	35/70	30/50	503949
	Urea solution equipment (AUS 32) : Pump 24 V ³ , 6 m connection cable with battery terminals, 6 m hose set with manual nozzle valve	35	30	
QUADRO-BLUE 1000-230	Complete package equipped with diesel equipment : Limit-value transmitter, 6 m connection cable with Schuko plug, 6 m hose set with angular swivel joint, automatic nozzle valve and flow meter PZ300	56	52	503950
	Urea solution equipment (AUS 32) : 230 V pump, 2 m connection cable with Schuko plug, 6 m hose set with manual nozzle valve	32	29	

Accessories

Type	Description	Art. no.
Insulated urea solution tank	105 l : 19 mm thick insulation blanks with all the required cut outs for openings and fittings. For the QUADRO-BLUE 450 urea solution tank	48437
	170 l : 19 mm thick insulation blanks with all the required cut outs for openings and fittings. For the QUADRO-BLUE 770 urea solution tank	48436
Assembly kit Power supply	The respective power connection cables of the two dispenser pumps are brought together in a junction box, from which a single connection cable is routed for the power supply of both pumps	504998
Heating mat 230 V	Self-adhesive heating mat for urea solution tanks of the QUADRO-BLUE series in order to protect the urea solution from prolonged, extreme minus temperatures	505000
Automatic nozzle valve	Automatic discharge valve Urea solution 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 connection discharge for DN 19 hose, Flow rate up to 40 l/minute Flow rate up to 40 l/minute	43968
EZ24blue	Digital turbine flow meter, not calibratable, for urea solution (AUS 32); Min. 6 l/min, Max: 100 l/min	98137
Urea solution filter	Specially designed, three-stage filter with high efficiency to prevent contamination when dispensing urea solution The filter cartridge can be exchanged	505208
Replacement cartridges urea solution	Three-stage filter as replacement cartridge for urea solution 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

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

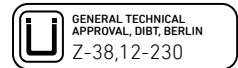
3 The pump DC 12/24 can be operated with 12 V as well as 24 V direct current

DIESEL STORAGE TANKS

QUADRO-C 2000 / 3000



[DIESEL] LEGALLY COMPLIANT TRANSPORTATION AND STORAGE



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 in the sense of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installations and in buildings
- › Utilisation in water protection areas and earthquake areas

Simple handling, cost-saving and reduced time

- › Storage without additional collection tray
- › Larger volumes for larger receiving volumes

Space saving

- › QUADRO-C 3000 fuel container can also be stacked 2-fold in filled condition
- › QUADRO-C 2000 fuel container cannot be stacked (2-fold stacking capable in filled condition in connection with the stacking corner construction kit)

Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot-dip galvanizing
- › When requested for the design, internally raw,¹externally painted can be delivered (all RAL colour shades 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

¹ Coating for outdoor installation upon request

Secure and safe transport

- › Ventilation pipe with shut-off stop cock
- › Suction pipe with shut-off stop cock
- › Closed base construction for safe fork-lift truck transportation
- › 1 central crane lug (QUADRO-AG 2000) and/or 4 crane lugs (QUADRO-AG 3000) for safe crane transport according to DGUV Information 209-013
- › 4 lashing lugs for safe lashing prior to transport

Comfortable and safe operating

- › Lockable lid with 2 gas-pressure springs (QUADRO-AG 2000) and/or positioning lever (QUADRO-AG 3000) for simple lid operation
- › Continuous, mechanical and easily readable fuel gauge
- › ½" male fitting (QUADRO-AG 2000) and/or ½" male fitting (QUADRO-AG 3000) for return flow pipe
- › Lateral opening for hose pipe and/or power cable with 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

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

Available models

STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Art. no.
	L	B	H			
QUADRO-C 2000	2215	815	1620	629	D/BAM/14552/31A Z-38,12-223	99343
QUADRO-C 3000	2390	1190	1510	838	D/BAM/12180/31A Z-38,12-223	77150

COMPLETE PACKAGE

Type	Description	Flow-rate [l/min]		Art. no.
		Nominal ¹	Effective ²	
QUADRO-C 2000-12/24	Complete package equipped with limit-value transmitter, pump 12/24 V, 6 m connection cable and battery terminals, 6 m hose set with angular swivel joint, automatic nozzle valve and flow meter PZ300	35/70	30/50	504674
QUADRO-C 2000-230	Complete package equipped with limit-value transmitter, pump 230 V, 6 m connection cable and Schuko plug, 6 m hose set with angular swivel joint, automatic nozzle valve and flow meter PZ300	56	52	504675
QUADRO-C 3000-12/24	Complete package equipped with limit-value transmitter, pump 12/24 V, 6 m connection cable and battery terminals, 6 m hose set with angular swivel joint, automatic nozzle valve and flow meter PZ300	35/70	30/50	504676
QUADRO-C 3000-230	Complete package equipped with limit-value transmitter, pump 230 V, 6 m connection cable and Schuko plug, 6 m hose set with angular swivel joint, automatic nozzle valve and flow meter PZ300	56	52	504677

Accessories

Type	Description	Art. no.
Stacking corners kit	Stacking corners for creating stacking capability for QUADRO-C 2000. Filled QUADRO-C 2000 containers can be stacked 2-fold by utilising the stacking corner kit	97761
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



Pumps, flow meters and additional equipment can be found from P. 71.

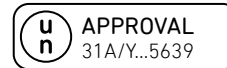
1 Indicated nominal power of the manufacturer with free outlet

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 STORAGE TANKS

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 in the sense of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installations 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
- › When requested for the design, internally raw, externally painted can be¹ delivered (all RAL colour shades are possible)
- › Explosion-pressure resistant²
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

Secure and safe transport

- › Ventilation pipe with shut-off stop cock
- › Suction pipe with shut-off stop cock
- › Closed base construction for safe fork-lift truck transportation
- › 2 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-0209-013

Comfortable and safe operating

- › Lid with fixing point
- › 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

¹ Coating for outdoor installation upon request

² 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	B	H			Art. 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]		Art. no.
		Nominal ¹	Effective ²	
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 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 nozzle valve and flow meter PZ300	56	52	503717
KC-K 1000-12/24	Complete package equipped with limit-value transmitter, pump 12/24 V, 6 m connection cable and battery terminals, 6 m hose set with angular swivel joint, automatic nozzle valve and flow meter PZ300 1	35/70	30/50	300658
KC-K 1000-230	Complete package equipped with limit-value transmitter, pump 230 V, 6 m connection cable and Schuko plug, 6 m hose set with angular swivel joint, automatic nozzle valve and flow meter PZ300	56	52	300659

Accessories

Type	Description	Art. no.
Return line KC-K 2	Foldable steel bracket for secure mounting with forwarder	84636



Pumps, flow meters and additional equipment can be found from P. 71.

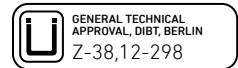
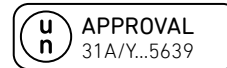
1 Indicated nominal power of the manufacturer with free outlet

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 STORAGE TANKS

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-K 1000)
- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installations 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
- › When requested for the design, internally raw, externally painted can be ¹delivered (all RAL colour shades are possible)
- › Explosion-pressure resistant²
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

Secure and safe transport

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

Comfortable and safe operating

- › 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
- › Discharge valve 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

¹ Coating for outdoor installation upon request

² The containers are designed to withstand an explosion on the inside.



Available models

STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Art. no.
	L	B	H ¹			
KC-S 500	1300	770	1610	185	D/BAM/0489/31A	81778 + 85971
KC-S 1000	1440	1020	1920	265	D/BAM/5639/31A \ \ Z-38,12-298	84700 + 85971
Small swing door cabinet	Price reduction					-

COMPLETE PACKAGE

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



Pumps, flow meters and additional equipment can be found from P. 71.

1 Height including swing door cabinet

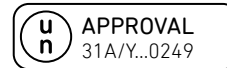
2 Indicated nominal power of the manufacturer with free outlet

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

DIESEL STORAGE TANKS

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 6632-2
- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installations 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
- › When requested for the design, internally raw, externally painted can be ¹delivered (all RAL colour shades are possible)
- › Explosion-pressure resistant¹²
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

Secure and safe transport

- › Ventilation pipe with shut-off stop cock
- › Suction pipe with shut-off stop cock
- › 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

Comfortable and safe operating

- › 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
- › Discharge valve 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

¹ Coating for outdoor installation upon request

² The containers are designed to withstand an explosion on the inside.



Available models

STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Art. no.
	L	B	H ¹			
KC 995	1270	1270	2122	315	D/BAM/0249/31A DIN 6623-2 with PÜZ	73350 + 85971
Small waste swing door cabinet	Price reduction					-

COMPLETE PACKAGE

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

1 Height including swing door cabinet

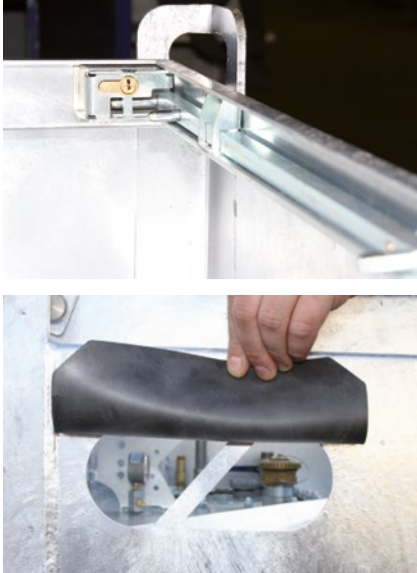
2 Indicated nominal power of the manufacturer with free outlet

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

DIESEL STORAGE TANKS

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
- › Comparable light dead load with its single-wall design

Space saving

- › Fuel container can also be stacked 2-fold in a filled condition

Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot-dip galvanizing
- › When requested for the design, internally raw, externally painted can be ¹delivered (all RAL colour shades 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 stop cock
- › Suction pipe with shut-off stop cock
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-0209-013

Comfortable and safe operating

- › Lockable, spring-supported lid
- › Continuous, mechanical and easily readable fuel gauge
- › Discharge valve holder and return-flow option for safe, secure and clean return flow for drip quantities into the containers
- › Lateral opening for hose pipe and/or power cable with 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

¹ Coating for outdoor installation upon request



Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Art. no.
	L	B	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. 71.

1 Equipment: R50 230 pump, fill limit indicator

DIESEL STORAGE TANKS

CONTY-B

[DIESEL]



Legally compliant transportation

- › Approved for an unlimited period as packaging method 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
- › Lower dead weight due to single-wall design

Space saving

- › Fuel container can also be stacked 2-fold in a filled condition

Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot-dip galvanizing
- › When requested for the design, internally raw, externally painted can be¹ delivered (all RAL colour shades 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 stop cock
- › Suction pipe with shut-off stop cock
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-0209-013

Comfortable and safe operating

- › 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
- › Discharge valve holder for safe removal of the automatic discharge valve
- › Increased anti-theft protection

Increased anti-theft protection

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

¹ Coating for outdoor installation upon request



Technical data

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval
	L	B	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	Flow-rate [l/min]		Art. no.
		Nominal ¹	Effective ²	
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 valve	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 valve	56	52	99254
CONTY-B 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 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]		Art. no.
		Min.	Max.	
PZ300	Mechanical, non-calibratable roller flow meter for assembly on a pump, max. viscosity up to 500 cSt	20	120	96359
EZ24	Digital turbine flow meter, not calibratable, not for custody transfer	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 STORAGE TANKS

CONTY-ECO

[DIESEL]



Legally compliant transportation

- › Approved for an unlimited period as packaging method 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
- › Lower dead weight due to single-wall design
- › Dimensionally adapted for transporting on pick-ups

Space saving

- › Fuel container can also be stacked 2-fold in a filled condition

Durable and sustainable

- › Manufactured entirely of steel
- › Internally raw and externally powder-coated Light grey RAL 7035, Lid: Steel, Sapphire blue RAL 5003)

Secure and safe transport

- › Ventilation pipe with shut-off stop cock
- › Suction pipe with shut-off stop cock
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-0209-013

Comfortable and safe operating

- › Lid with fixing point
- › 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 valve holder for safe removal of the automatic discharge valve

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	B	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	Flow-rate [l/min]		Art. no.
		Nominal ¹	Effective ²	
CONTY-ECO 200-12/24 2	Complete package is equipped with a 12/24 V pump, 6 m connection cable with battery terminals, 4 m hose set with angular swivel joint and automatic discharge valve	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 valve	56	52	99203
CONTY-ECO 440-12/24	Complete package is equipped with a 12/24 V pump, 6 m connection cable with battery terminals, 4 m hose set with angular swivel joint and automatic discharge valve	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 discharge valve	56	52	99207

Accessories

Type	Description	Flow-rate [l/min]		Art. no.
		Min.	Max.	
EZ24 3	Digital turbine flow meter, not calibratable, not for custody transfer	7	120	96479
Fuel gauge "Side Reading"	Fuel gauge with lateral reading, surcharge For CONTY-ECO 200			48395
	For CONTY-ECO 440			48396
Return line CONTY-ECO	Foldable steel bracket for secure mounting with forwarder for construction series KC-K			300448

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

TANK TRAILER TRAILER



Simple handling, cost-saving and reduced time

- › Maintenance-free rubber-sprunged 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 fuel container
- › Tread-proof wheel housings made of aluminium sheet metal

Safety

- › Parking supports 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 fuelling systems QUADRO-DV/-D series from 330 to 1,000 l
- › Approval for travelling up to 100 km/h

Comfortable and safe operating

- › 185 R14C tyres
- › Support wheel, automatic folding up
- › 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. 40 – 50.



Available models

Type / Capacity	Dimensions [mm]		Loading area [mm]		Permissible total weight [kg]	Description	Art. no.
	L	B	L	B			
TRAILER-1	3000	1800	1500	1300	1500	1-axle	99365
TRAILER-2	4000	1800	2500	1300	2000	2-axle	99366

Accessories

Type	Description	Art. no.
Toolbox A	Lockable aluminium box screwed onto V drawbar	47324
Toolbox B	Lockable, rectangular aluminium box (L x W x H: 1000 x 520 x 520 mm)	47325
Toolbox-Blue	Lockable, rectangular aluminium box (L x W x H: 1200 x 680 x 520 mm), suitable for urea solution container technology	47964
Drawgear	Height-adjustable drawgear 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
Fire extinguisher 6kg	6 kg fire extinguisher with box and bracket	99371

OUR TECHNICIANS ON THE MOVE

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Rietberg Containers Service:

- › IBC-certified according to ADR
- › Container repair and maintenance
- › Assembly of company fuel station
- › Spare parts service

INFORMATION



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ADDITIONAL EQUIPMENT DIESEL STORAGE TANKS

Type	Description	Art. no.
Limit value transmitter	To prevent container overfilling when filling from a fuel tanker with fixed, coupled up 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 valve; including assembly adapter and assembly on Rietberg container which is also ordered

Type	Flow-rate [l/min]		Voltage [V]	Special features	Hose	Art. no.
	Nominal ¹	Effective ²				
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	1 56	52	AC 230	–	NW19	96349
R75 12	2 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 1 m and equipped with 6 m discharge hose and automatic discharge nozzle

TANDEM DIESEL PUMPS PACKAGE¹

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



Additional pumps, flow meters and other equipment can be found from P. 71.

GEAR PUMPS



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 valve (NW 19); including assembly adapter and assembly on Rietberg container which is also ordered

Type	Flow-rate [l/stroke]	Hose	Art. no.
TP 3	0.35	NW19	505205

Pump accessories

FLOW METERS

Type	Description	Flow-rate [l/min]		Art. no.
		Min.	Max.	
PZ300	Mechanical roller flow meter, not calibratable, not for custody transfer, flow rate: min, 20 l/min, max, 120 l/min, viscosity up to 500 cSt	20	120	96359
EZ24	Digital turbine flow meter, not calibratable, not for custody transfer	7	120	96479
K700	Mechanical 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 1 m and equipped with 6 m discharge hose and automatic discharge nozzle

3 The pump DC 12/24 can be operated with 12 V as well as 24 V direct current

FUEL DATA RECORDING



Scope of delivery:
 USB interface, USB stick for data retrieval, administration software for evaluating refuelling procedures, pulse transmitter set for diesel/heating oil and 10 transponder tags, including assembly adapter and assembly on Rietberg container which is also ordered

Type	Description	Art. no.
TDE-DC	The tank data recording system can be operated with both 12 V as well as 24 V direct current and can be combined with corresponding dispensing pumps up to a maximum of 30 A. It consists of: 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)	98287
Transponder tag	For TDE-DC; for contact-free user identification	96617

DISCHARGE HOSES

Type / Capacity	Description	Hose length [m]	Art. no.	
			NW19	NW25
Discharge hose	Integration 1" IT / 1" OT	4	39731	97143
		6	39732	97144
		8	45232	97145
		13	45375	97146
Hose set	Electrically conductive hose set for petrol with 1" female thread (the first metre includes the screw fittings); hose length according to customer's requirements, Each additional metre		31829	83679
			31829-1	83679-1

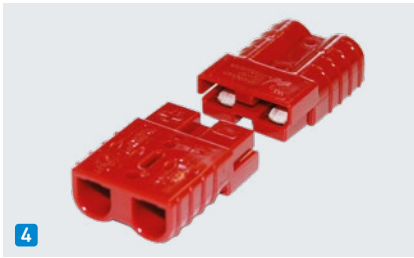
AUTOMATIC DISCHARGE NOZZLES



Type	Flow-rate [l/min]	Special features	Outlet	Art. 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	3 200	With axial swivel joint	NW32	45244



DIRECT CURRENT CONNECTIONS (ONLY IN CONNECTION WITH DIESEL PUMPS)



Type	Description	Art. no.
GSV I Plug-in connector	4 2 high-current plugs (plug=socket) for pump and vehicle mounting; rated for up to 50 A/24 V, assembly on site or upon request	300188
GSV socket	5 3-pin plastic socket according to DIN 9680, voltage of 6 – 24 V, max, 25 A, protection class IP54	46673
GSV plug	6 3-pin plastic plug according to DIN 9680, voltage of 6 – 24 V, max, 25 A, protection class IP54	46674
NATO	7 2-pin NATO special plug according to VDA 72593A, voltage 12 – 42 V, rating 300 A, short-term 1,000 A, metal case with hard rubber cable protection, junction box and cabling	
	With 5m cable H07RN-F 2x6 mm ²	506015
	With 10m cable H07RN-F 2x6 mm ²	509213
Jump lead	Adapter NATO special plug on battery terminals, with 1.5m cable H07RN-F 2x35 mm ²	44339

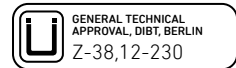
FILTER



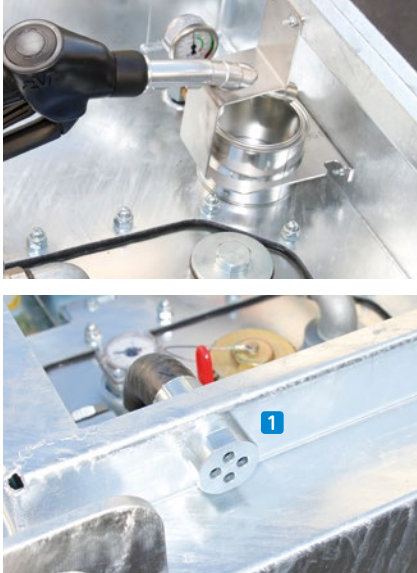
Type	Description	Art. no.
Fuel filter	Mounted on the pressure side of a pump for protection against contamination and water, filter mesh (30 µm, max, 65 l/min flow) The flow is blocked if the filter cartridge is fully saturated	73165
Replacement cartridge	Replacement filter cartridge for the fuel filter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

PETROL STORAGE TANKS

QUADRO-DV 330



[PETROL]



Legally compliant transportation and storage

- › Approved for an unlimited period as packaging method 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 in the sense of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installations 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 in a filled condition
- › EURO pallet dimension¹

Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot-dip galvanizing (inner and outer)
- › When requested for the design, internally raw, externally painted can be² delivered (all RAL colour shades 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 stop cock
- › Suction pipe with shut-off stop cock
- › 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

Comfortable and safe operating

- › Deflagration pipe safety in the ventilation pipe and flame arrester in the filling spout prevent a flame from occurring
- › 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
- › Discharge valve holder and return-flow option for safe, secure and clean return flow for drip quantities into the collection container
- › Lateral opening for hose pipe and/or power cable with 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

¹ 1200 x 800 mm

² Coating for outdoor installation upon request



 For your safety, QUADRO-DV 330 (for petrol) is equipped with flameproof fittings **1** as a standard to prevent flames entering the containers which could cause an explosion (German Technical Regulations on Industrial Safety BetrSichV and TRBS).

Technical data

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

Available models

COMPLETE PACKAGE

Type	Description	Flow-rate [l/min l/stroke]		Art. no.
		Nominal ¹	Effective ²	
QUADRO-DV 330-TPex	Complete package is equipped with a manual pump, 4 m electrically conductive hose set with angular swivel joint, automatic discharge valve (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 nozzle valve (NW 16) and flame-proof fittings	50	40	503707
QUADRO-DV 330-230ex	Complete package is equipped with explosion protected 230 V 2 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 nozzle valve (NW 16) and flame-proof fittings	50	45	503708

3 Fuel filter and counter not included in the scope of delivery

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



The pumps mentioned above are suitable for flammable fluids and comprise a corresponding explosion protection. The plugs and battery clips offered may only be used in the respective applicable areas. The Ex-zones must be stipulated by the operator (see Industrial Safety Regulations). If, in the area of the power supply point, Ex-zones can occur, explosion protected plugs and coupling systems must be used.



Fuel containers for petrol with larger volumes or other additional equipment requirements are available on request.

Accessories



Type	Description		Art. no.
Power connection (DC)	DC plug for utilisation within Ex-Zone 1 and 2	1	99400
EX	DC coupling for utilisation within Ex-Zone 1 and 2	2	99401
Power connection (AC)	AC plug for utilisation within Ex-Zone 1 and 2	3	99397
EX	AC plug for utilisation within Ex-Zone 1 and 2	4	99398

FLOW METERS



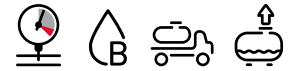
Type / Capacity	Description	Flow-rate [l/min]		Art. no.
		Min.	Max.	
PZ300-ex	5 Mechanical, non-calibratable, Ex-protected roller flow meter for assembly on a pump	20	120	97149
EZ24-ex	6 Digital, non-calibratable, Ex-protected turbine flow meter for assembly on a discharge valve	7	120	46026

FILTER

Type	Description	Art. no.
Fuel filter	7 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

PETROL STORAGE TANKS

CONTY-B 330



[PETROL]



Legally compliant transportation

- › Approved for an unlimited period as packaging method 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
- › Lower dead weight due to single-wall design

Space saving

- › Fuel container can also be stacked 2-fold in a filled condition

Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot-dip galvanizing
- › When requested for the design, internally raw, externally painted¹ can be delivered (all RAL colour shades 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 stop cock
- › Suction pipe with shut-off stop cock
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-0209-013

Comfortable and safe operating

- › Deflagration pipe safety in the ventilation pipe and flame arrester in the filling spout prevent a flame from occurring
- › Lockable, spring-supported lid
- › Continuous, mechanical and easily readable fuel gauge
- › Discharge valve 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



For your safety, CONTY-B 330 (for petrol) is equipped with flameproof fittings as a standard to prevent flames entering the containers which could cause an explosion (German Technical Regulations on Industrial Safety BetrSichV and TRBS).

¹ Coating for outdoor installation upon request

Technical data

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

Available models

COMPLETE PACKAGE

Type	Pump	Flow-rate [l/min]		Art. no.
		Nominal ¹	Effective ²	
CONTY-B 330-TPex	Complete package is equipped with a manual pump, 4 m electrically conductive hose set with angular swivel joint, automatic discharge valve (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 nozzle valve (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 nozzle valve (NW 16) and flame-proof fittings	50	45	99256



The pumps mentioned above are suitable for flammable fluids and comprise a corresponding explosion protection. The plugs and battery clips offered may only be used in the respective applicable 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 coupling systems must be used.

Accessories

POWER CONNECTION

Type	Description	Art. 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]		Art. no.
		Min.	Max.	
PZ300-ex	Mechanical, non-calibratable, Ex-protected roller flow meter for assembly on a pump	20	120	97149
EZ24-ex	Digital, non-calibratable, Ex-protected turbine flow meter for assembly on a discharge valve	7	120	46026

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

UREA-SOLUTION STORAGE TANKS

CONTY-BLUE



[UREA SOLUTION (AUS 32)]



Simple handling, cost-saving and reduced time

- › Lower dead weight due to single-wall design
- › Dimensionally adapted for transporting on pick-ups

Space saving

- › Urea solution container can also be stacked 2-fold in a filled condition

Durable and sustainable

- › Manufactured entirely of stainless steel
- › Internally and externally pickled stainless steel (Lid: paintwork. 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 209-0209-013

Comfortable and safe operating

- › 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 valve holder for safe removal of the discharge valve

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, rather 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	B	H	
CONTY-BLUE 200	1080	800	530	80
CONTY-BLUE 440	1080	800	840	110

Available models

COMPLETE PACKAGE

Type / Capacity	Pump	Flow-rate [l/min] ¹		Art. no.
		Nominal ²	Effective ³	
CONTY-BLUE 200-12/24	Complete package is equipped with 24/24 V3 pump, 2 m connection cable and battery terminals, 4 m hose set with angular swivel joint and manual discharge valve	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 valve	32	29	506304
CONTY-BLUE 440-12/24	Complete package is equipped with 24/24 V3 pump, 2 m connection cable and battery terminals, 4 m hose set with angular swivel joint and manual discharge valve	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 valve	32	29	506256

Accessories

Type	Description	Art. no.
EZ24blue	Digital turbine flow meter, not calibratable, not for custody transfer	98137
Automatic nozzle valve	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 3/4" female coupling with swivel joint and connection discharge for DN 19 hose. Flow rate up to 40 l/minute	43968

¹ Figures are similar

² Indicated nominal power of the manufacturer with free outlet

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

³ The pump DC 12/24 can be operated with 12 V as well as 24 V direct current



OUR ALLROUND TALENT: UNIVERSAL FUEL TANKS 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, biodiesel or the urea solution AUS 32. Some sections of the economy, particularly industry 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 can be economically efficient, and the same time make a real contribution to protecting the climate? These are questions that your company is certainly also dealing with. There are questions to which we provide answers, with our Mobile Universal Tanks. As they are optimized for refuelling with media of all types - such as synthetic fuels. Some of these are produced with the help of renewable electricity and do not release any additional CO₂. This is an innovation that we wish to promote with our Universal Tanks. These models are further developments based on established Mobile Tank Systems such as the QUADRO-D or the QUADRO-BLUE. With the exception of CONTY-BLUE, our Universal Tanks are double-walled and are hot-dip galvanized, painted or made of stainless steel as required.

In this way, they are not only particularly safe, but are also perfectly protected against corrosion. But that is not all. Tanks such as QUADRO-PLUS have a special plastic inner shell that guarantees that E-fuels, bio-diesel, urea solution AUS 32 and other innovative yet not steel-resistant media can be filled and stored. Our Universal Tanks are therefore more than just an economically efficient solution for your company. There are investments in a sustainable and independent future!

Would you like to know more about our Universal Tanks? We're happy to personally advise you and look forward to your communication.



QUADRO-PLUS



QUADRO-GREEN



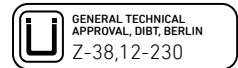
QUADRO-OEL

UNIVERSAL STORAGE TANKS

QUADRO-PLUS



[E-FUELS, BIO-DIESEL, UREA SOLUTIONS (AUS 32 ETC.)]



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 in the sense of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installations 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 in a filled condition
- › Pallet dimension¹

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 (inner and outer)
- › When requested for the design, internally raw, ²externally painted can be delivered (all RAL colour shades 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 stop cock
- › Suction pipe with shut-off stop cock
- › 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

Comfortable and safe operating

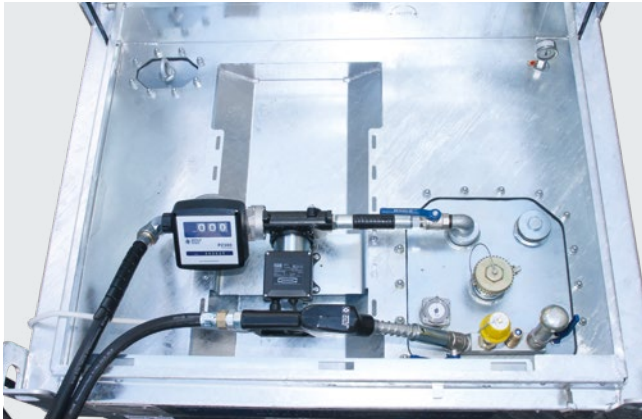
- › Lockable, spring-supported lid
- › Two gas-pressure springs and three grips for simplified lid operation from three sides
- › Continuous, mechanical and easily readable fuel gauge
- › Discharge valve holder and return-flow option for safe, secure and clean return flow for drip quantities into the containers
- › Lateral opening for hose pipe and/or power cable with 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

¹ 1200 x 800 or 1200 x 1000

² Coating for outdoor installation upon request



Available models

STANDARD

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



All sizes and designs available on request.

UNIVERSAL STORAGE TANKS

QUADRO-GREEN

[ETHANOL, METHANOL, UREA SOLUTION (AUS 32), 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 in the sense of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installations 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 in a filled condition

Durable and sustainable

- › Manufactured entirely of steel
- › Diverse materials and material combinations always enable a customised fuel container, tank or vessel which will suit your requirements
- › Structural protection for corners against damage caused by angled edges and protrusions

Secure and safe transport

- › Ventilation pipe with shut-off stop cock
- › Suction pipe with shut-off stop cock
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-0209-013

Comfortable and safe operating

- › 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
- › Discharge valve holder and return-flow option for safe, secure and clean return flow for drip quantities into the fuel container or collection container
- › Lateral opening for hose pipe and/or power cable with 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
	L	B	H		
QUADRO-GREEN 330	1200	800	807	219	D/BAM/15466/31A or D/BAM/15450/31A Z-38,12-230
QUADRO-GREEN 450	1200	800	942	238	D/BAM/15466/31A or D/BAM/15450/31A Z-38,12-230
QUADRO-GREEN 770	1200	800	1322	289	D/BAM/15466/31A or D/BAM/15450/31A Z-38,12-230
QUADRO-GREEN 1000	1200	1000	1322	328	D/BAM/15466/31A or D/BAM/15450/31A Z-38,12-230

Available models

MATERIAL DESIGNS

Designation	Internal wall	External wall
Stainless steel Kombi	Stainless steel 1,4301, brushed seams	Steel, painted
Stainless steel Kombi+	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 shades according to customer request (Corrosion Protection Class C3)	



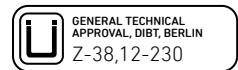
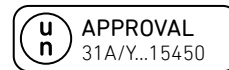
All sizes and designs available on request.

1 Fuel container (Stainless steel, Basic) for urea solution (AUS 32) with dispensing unit
 2 Fuel container (Stainless steel, Premium) for ethanol

OIL FUEL 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 in the sense of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installations 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 in a filled condition

Durable and sustainable

- › Manufactured entirely of steel
- › Internal as raw and externally painted (RAL 7035 light grey)
- › On request, the containers can also be delivered with an 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 stop cock
- › Suction pipe with shut-off stop cock
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-0209-013

Comfortable and safe operating

- › 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
- › Discharge valve holder and return-flow option for safe, secure and clean return flow for drip quantities into the containers
- › Lateral opening for hose pipe and/or power cable with 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	B	H			Art. 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

Type	Description	Art. no.
Heater QUADRO-OEL	5 Heater for oils, automatic temperature regulations and overheating protection, voltage 230 V/50 Hz, surface output < 0,4 W/cm ² K Power 500 W	99411
	Power 1000 W	510415
	Power 2000 W	510416
Thermometer	6 Analogue thermometer with indicator, display from -20 to +60 °C	99412
Overfill safeguard	7 Sub-distribution, protection type IP 54 with transducer, mounted in a small housing in the container, Fully connected	99413
Frequency converter	8 For regulating the pump output up to 1,5 kW and 230 V	99414
Remote control	On/off, corded, for pump switching 9	99415
	On/off with speed regulation, corded, for pump switching with frequency converter up to 1,5 kW and 230 V 10	99416
Collision protection	Plastic protectors as plug system, mounted on the perimeter of the container	98374
Nozzle holder-OEL	Nozzle holder specific to medium with axial swivel joint IG 1/2", viscosity range according to customer specification	-
Hose drum QUADRO-OEL	8 m hose; hose drum made of steel, with protective cover and outlet window, automatic spring return; ready for use, mounted in a horizontal position in the container	99417
PZ300	11 Mechanical, non-calibratable roller flow meter for assembly on a pump Min. 20 l/min, Max. 120 l/min, max. viscosity 500 cSt.	96359
Special coating C5M	QUADRO: Coating for maritime operations (corrosion protection class C5M, medium)	99418

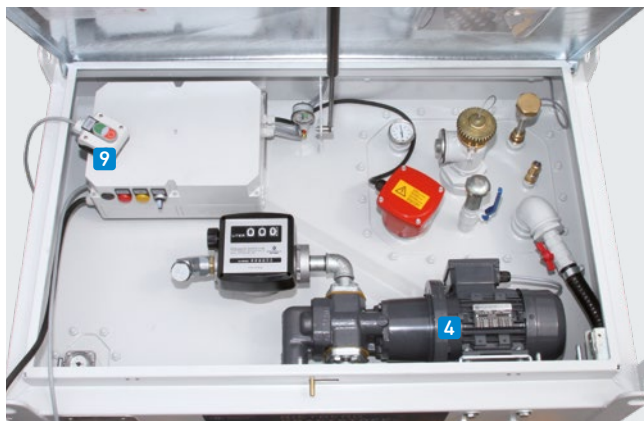
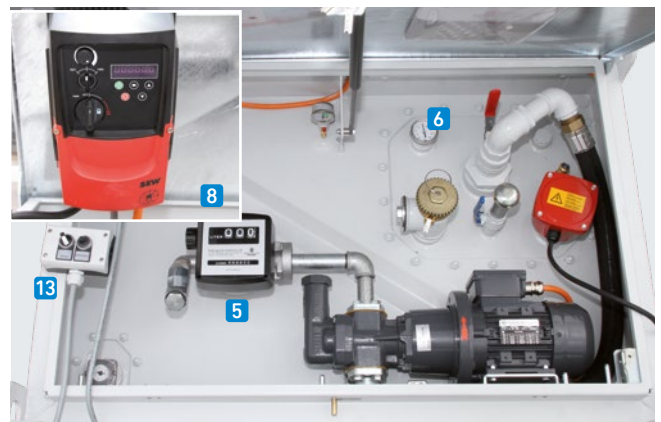


Flow meters with higher viscosities are available on request.



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 at the same time.

Type	Flow-rate ¹ [l/min]	Max. viscosity [cSt]	Voltage [V]	Description	Hose	Art. no.
VZ10/12	13	600	DC 12	Vane pumps	NW19	99406
VZ14/230	1 14	2,000	AC 230	Vane pumps	NW19	99407
VZ25/230	2 25	1,200	AC 230	Vane pumps, conveying heights up to 4 m	NW19	99408
VZ30/400	3 25	1,200	AC 400	Vane pumps, offshore version	NW19	99409
VZ50/400	4 25	5,000	AC 400	Vane pumps, offshore version	NW25	99410

¹ Indicated nominal power of the manufacturer with free outlet



IMPORTANT LEGAL REGULATIONS FOR MOBILE FUEL SYSTEMS

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

International:

- 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. 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 for an IBC container

Example for IBC coding of 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 if the IBC is not stackable
- 8 Maximum admissible gross weight in kg

Example for packaging coding of 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:

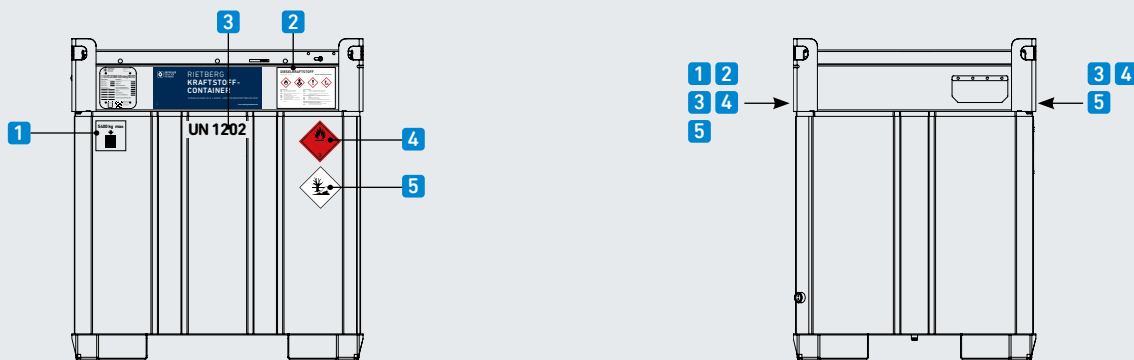
- > The UN no. of the transported substance (e.g. diesel: UN 1202)
- > The mark for environmentally hazardous substances (fish and tree, black on white surface)
- > Hazard label (e.g. diesel: no. 3, flame, black or white on red surface)

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 IBC and smaller packaging.

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



Exemplary illustration for the identification marking of an IBC for diesel



No.	Type	Description	Mobile tank quantity/volume	
			< 450 l	> 450 l
1	UN 1202	UN number for the conveyed material or substance (diesel)	1	2
2		Hazard note for "flammable liquid material "(Class 3)	1	2
3		Identification marking for "environmentally hazardous material"	1	2
4		Hazard information according to GHS (Globally Harmonised System of Classification and Labelling of Chemicals) 1	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

Inspection 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:

SERVICE AFTER 2½ YEARS

Implemented by a BAM registered servicing body II, according to BAM-GGR 002 – Part B, Paragraph B 1.2.1, B 2.1 and B 3.1

Scope of servicing:


- › Inspecting the external condition
- › Inspecting the identification marking
- › Inspecting the function of the operating equipment
- › Leak testing with air are 0.2 excess pressure


SERVICE AFTER 5 YEARS

Implemented by a BAM registered servicing body I, according to BAM-GGR 002 – Part A, Paragraph A 1.2.1, AB 2.1 and A 3.1

Scope of servicing:

- › Scope of the servicing after 2 ½ years
- › Inspecting the concordance with the construction sample
- › Internal inspection

 For packaging, no repeated inspection and testing is required.

 Every tested and inspected BIC must correspond with the construction sample. A test and/or inspection report must be created for every service and leakage test. This report must be retained by the owner at least until the next service. 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

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.
- › A shipping document (ADR section 5.4.1) must be carried.
- › Instruction for those involved according to ADR Section 8.2.3, in connection with chapters 1.3 and 1.10.

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

- › is technically intact
- › is tightly sealed during transport and, as applicable,
- › that repeated inspection and testing have been carried out.

REGULATION

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

ADR defines various exemptions and exceptional regulations, among others those in connection with the type of transport. For instance, according to subsection 1.1.3.1 c), the provisions of ADR do not apply to "transports which are carried out by companies in connection with their main task". 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):

Section 1-6.1

Exempted are transports 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

Section 1-6.2

Intermediate supplies for fuel systems do not directly fall under the exemption regulation of subsection 1.1.3.1 c).

Therefore, one precondition for making use of the so-called

"craftsman regulation" is that the fuel (together with the machine) is transported directly in order to be consumed directly, while only residual quantities are transported back again.

The "craftsman regulation" does not include transports for distribution purposes, i.e. the supply of multiple machines on different construction sites (supply operations) as well as drives to the next service station (intermediate supplies), for instance.

However, the "craftsman regulation" also indicates that containers can be used which are neither type-tested nor comprise a UN approval.

Notes on the use of the different container types can be found on page 98.

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 systems to handle substances hazardous to water (AwSV).

SHIPPING DOCUMENT

What is a shipping document?

A shipping document is generally a shipping note with the following mandatory information according to ADR section 5.4.1.

The transport document 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 transport item	[1 unit, IBC]
f) The total quantity of hazardous goods	[950 litres]
g) The name and address of the sender	[Subconstruction company]
h) The name and address of the recipient	[Subconstruction company – construction site X]
i) A declaration according to the provisions of a special agreement. (Naturally, this is only demanded 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 FUEL SYSTEMS

FUELLING EVERYWHERE AND AT ANY TIME!

Mobile fuel systems are essentials for the fuelling of machinery and power units. Independent of the location: whether on construction sites, during forestry work, on fields or in stone pits, fuelling of machinery and equipment should be possible quickly and safely on site. Rietberg steel fuel containers offer the best possible levels of safety and flexibility for this purpose and thus contribute to the minimization of standstill times. This saves time and money.

All Rietberg fuel containers are type-tested and approved as IBC or packaging for the hazardous goods transport with all transport modes. Thus, they can be transported under "simplified conditions" according to ADR 1.1.3.6. Therefore, a maxi-

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

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**

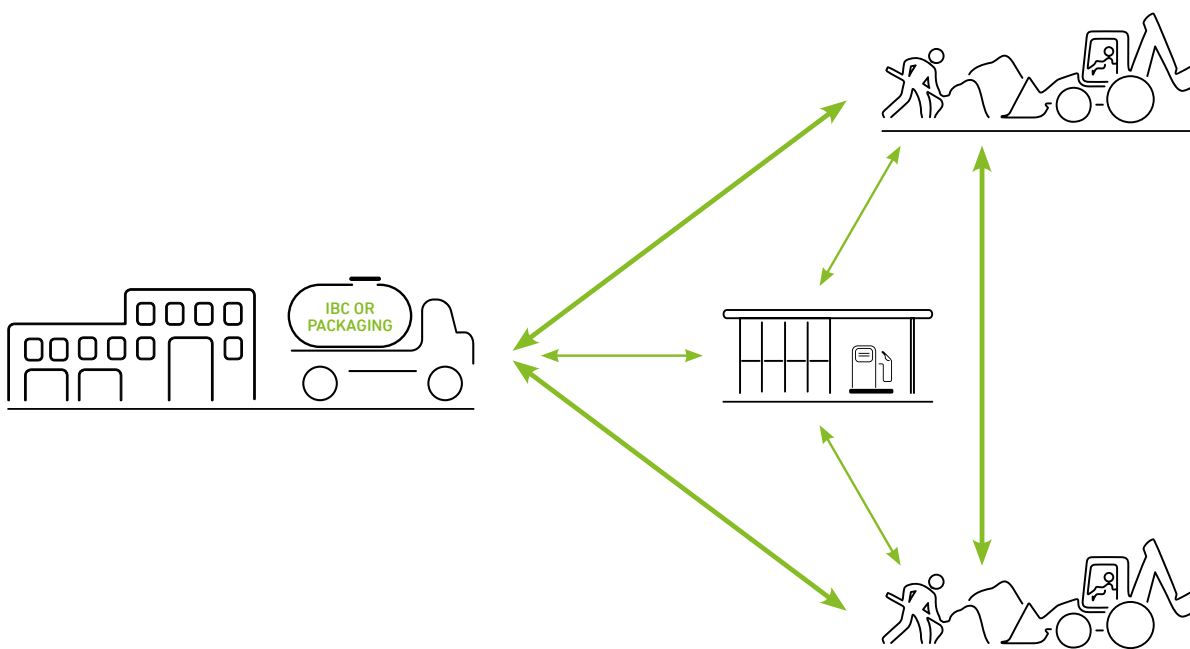
- › made of steel like all Rietberg fuel containers and type tested and have a UN approval as IBC (code:UN 31A...) or packaging (code UN 1A1 or 1A2...), i.e. transport containers for hazardous goods and can therefore be used universally and without any **time limits**.
- › or they are type-tested and UN approved plastic IBC (code: UN 31H) or combination IBC(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 "craftsman regulation", but are not type-tested and do not comprise any approval and may therefore only be used to a very limited extent.

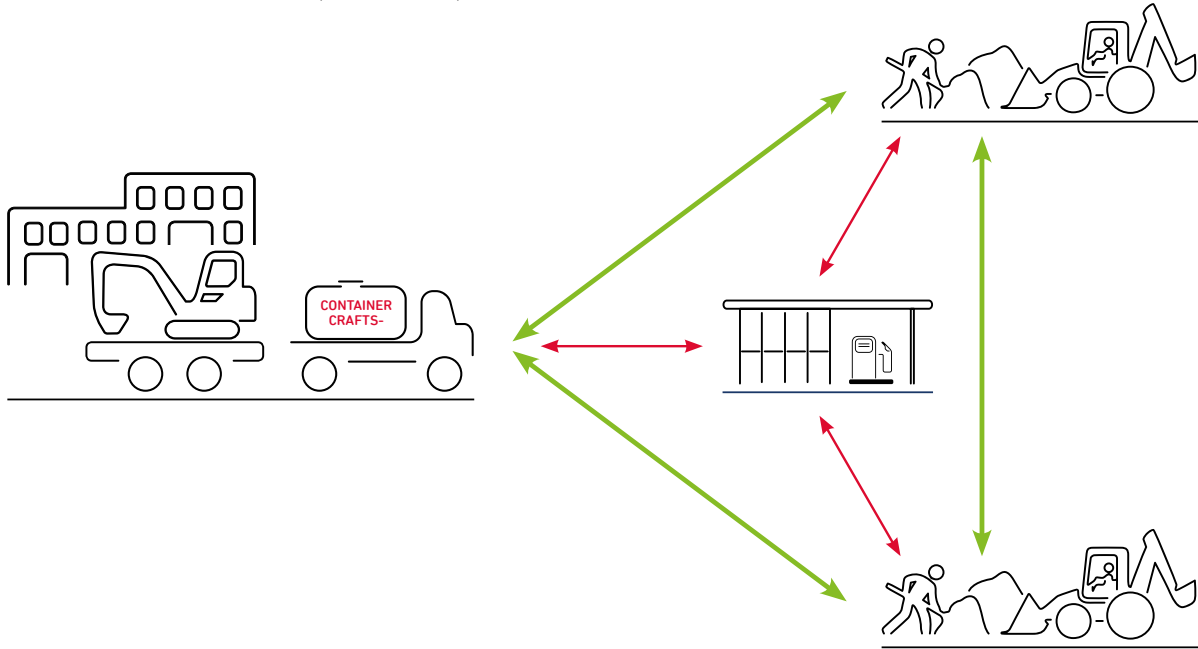
Rietberg fuel containers with approval as **IBC or packaging** can be universally utilised and may therefore be used for all operations which might be necessary for mobile fuelling. Neither the supply of multiple construction sites nor the drive to the

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".



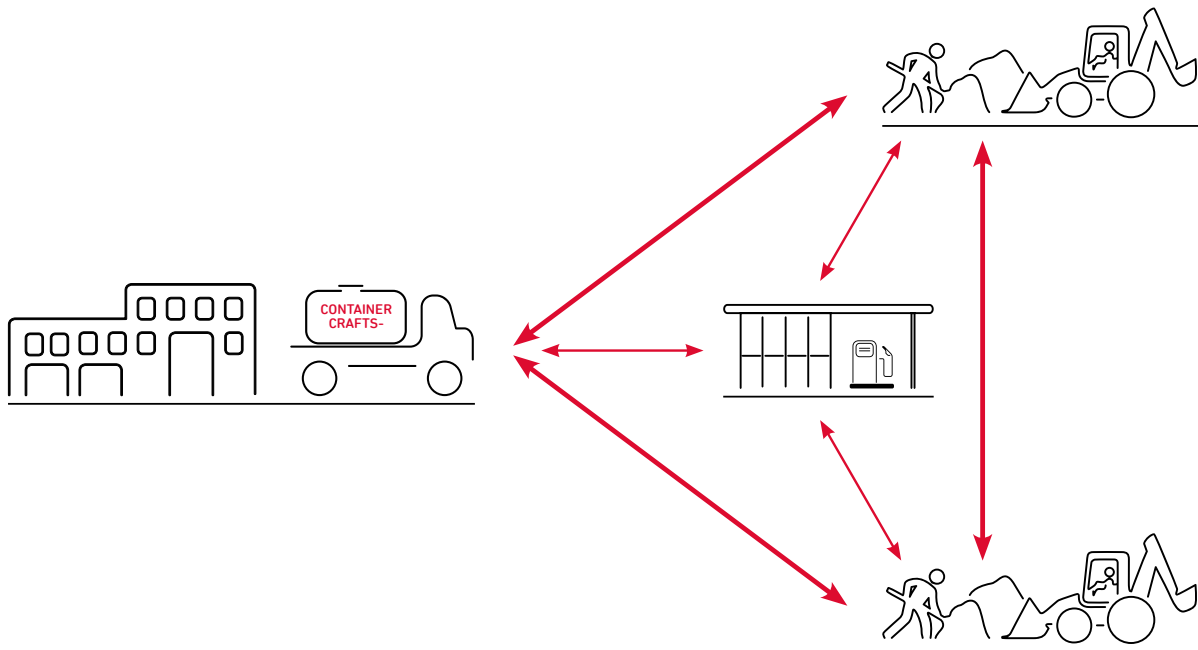
Containers according to the so-called craftsmen's regulations have not been officially tested and do **not** have **UN transport** approval. Their use for the transport of hazardous substances is only permitted within the scope of the exemption rule ADR 1.1.3.1 c). There exists an exception for companies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

nection with their main company activity, carry small quantities of hazardous substances with them for direct usage. 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 tank systems can be found starting on this p. 94.



RIETBERG
KRAFTSTOFFCONTAINER

RIETBERG
KRAFTSTOFFCONTAINER



03

MOBILE SUPPLY TANKS

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 aggregates depends on the secure fuel supply. Rietberg fuel containers of the QUADRO-AG/-TA and KC-AG series are a professional solution for this type of use.

As admissible transport containers (IBC) for hazardous substances, they can be transported securely and unrestrictedly to the location of use at all times – even while being 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 an ADR 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.

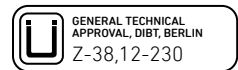
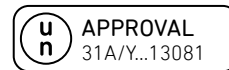
The plastic or combination IBC, which is often used in the sector, the use is restricted to a maximum of 5 years. Rietberg QUADRO-AG /-TA and KC-AG are completely made of steel and therefore are not subject to any restriction of the period of use. A Rietberg fuel container a sustainable product which can be used for decades.

HEATING OIL SUPPLY TANKS

QUADRO-AG



[DIESEL]



Legally compliant transportation and storage

- › UN approved for an unlimited period as an IBC and/or packaging (QUADRO-AG 450) for transport by road (ADR), by rail (RID), on inland waterway vessels (ADN) and at sea (IMDG Code) as well as in the air (QUADRO-AG 450)
- › Valid general construction approval as a storage container throughout Germany
- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installations 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 in a filled condition

Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot-dip galvanizing
- › When requested for the design, internally raw,¹ externally painted can be delivered (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 stop cock
- › Suction pipe with ½" male fitting shut-off stop cock
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-0209-013

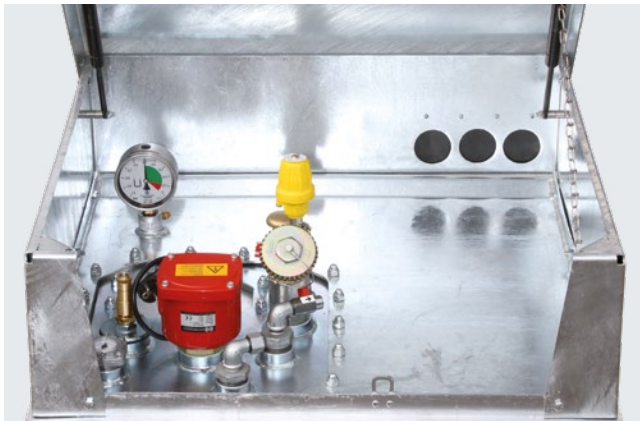
Comfortable and safe operating

- › Lateral opening for hose pipe and/or power cable with 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
- › ½" 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

¹ Coating for outdoor installation upon request



Available models

STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Art. no.
	L	B	H			
QUADRO-AG 450	1215	815	800	200	D/BAM/13080/31A Z-38,12-230	98591
QUADRO-AG 1000	1215	1000	1200	285	D/BAM/13081/31A Z-38,12-230	96800
QUADRO-AG 2000	2215	815	1620	629	D/BAM/14552/31A Z-38,12-223	98194
	QUADRO-AG 2000 without stacking corners					98193
QUADRO-AG 3000	2390	1190	1510	838	D/BAM/12180/31A Z-38,12-223	79397

Accessories



Type	Description	Art. no.
Fill limit indicator	1 QUADRO-AG Limit value transmitter for preventing overfilling the container when filling from a fuel tanker with fixed, coupled on pipe	97068
Stacking corners kit	2 Stacking corners for creating stacking capability for QUADRO-AG 2000. Filled QUADRO-AH 2000 containers can be stacked 2-fold by utilising the stacking corner kit	97716





Type	Description	Art. no.
Q-AG Heater	1 Screw-in heater with fixed-position pipe heating element made of stainless steel; Control head made of painted 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 For QUADRO-AG 450 For QUADRO-AG 1000 For QUADRO-AG 2000 For QUADRO-AG 3000	47041 45370 46049 45148
LED display	Retrofit kit for Q-AG Heater Visual indication of heater operating status	48548
3/8" siphon protection	2 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
Anti-siphon valve 1/2"	For QUADRO-AG 2000: Adjustable anti-siphon valve 0.15 - 0.5 bar, connection 1/2"; maximum flow rate 2,200 l/h; Prevents the tank from draining out independently; preset to 0.15 bar for maximum installation height 1.5 m above floor level; deviating up to maximum 5 m installation height above ground level is possible	505268
Anti-siphon valve 1"	For QUADRO-AG 3000: Adjustable anti-siphon valve 0.15 - 0.5 bar, connection 1"; maximum flow rate 9,000 l/h; Prevents the tank from draining out independently; preset to 0.15 bar for maximum installation height 1.5 m above floor level; deviating up to maximum 5 m installation height above ground level is possible	505269
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 KITS



Type	Description	Length [m]	Art. no.
NW 8 hose package	3 Consisting of a 5.0 m hose DN 8x4, metal mesh-coated, with coupling sleeve on one end and a coupling plug (½", NW 7,4, Rectus 26 – compatible) on the other end	5	98788
NW 8 hose package "any length"	Consisting of a hose DN 8x4, metal mesh-coated, with coupling sleeve on one end and coupling plug (½", NW 7,4, Rectus 26 – compatible) on the other end	1. metre each additional metre	98790 98790-1
½" coupling set "RECTUS"	5 Consisting of each 1 coupling sleeve and coupling plug ½", NW 7,4, Rectus 26 – compatible each	–	98792
NW 13 hose package	4 Consisting of 5.0 m "Gelbring" high pressure hose DN 13x4,5 with a coupling sleeve on one end and a coupling plug (½", NW 12,5, non-drip) on the other end	5	98789
NW 13 hose package "any length"	Consisting of a "Gelbring" high pressure hose DN 13x4,5 with a coupling sleeve on one end and a coupling plug (½", NW 12,5, non-drip) on the other end	1. metre each additional metre	98791 98791-1
½" coupling set non-drip	6 Consisting of each 1 coupling sleeve and ½", NW 12,5, non-drip coupling plug	–	98793
Twin hose kit	Comprising 5 m hose DN 8x4, metal fabric coated, on one side with coupling sleeve, on the other side with coupling plug (½", 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]



ZULASSUNG
D/BAM/1710/TC



Legally compliant transportation and storage

- › Unlimited time approval as tank container for transport on the road (ADR)
- › Double-walled in the sense 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' ISO container for secure and simple securing onto a vehicle (optional)
- › Individual design with pumps and additional accessories enables utilisation-compliant and practice-compliant solutions

Space saving

- › Empty fuel container with top protection frame, 1-fold stacking capable (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
- › When requested for the design, internally raw,¹externally painted can be delivered (all RAL colour shades are possible)

Secure and safe transport

- › Ventilation pipe with certified shut-off stop cock
- › Suction pipe with certified shut-off stop cock
- › Safety valve for preventing excess pressure in container (specified pressure 1.5 bar)
- › Closed base construction for safe fork-lift truck transportation
- › 1 central crane lug for safe crane transporting according to DGUV Information 209-013

Comfortable and safe operating

- › Lateral opening for hose pipe and/or power cable with closed container
- › Lockable lid with positioning lever for simple lid operation
- › Storage space can still be accessed even when the container is lashed down
- › Access ladder with operating platform
- › Limit value transmitter for preventing overfilling the container when filling from a fuel tanker with fixed, coupled on filling pipe
- › Continuous, mechanical and easily readable fuel gauge
- › Connection for return flow pipe

Increased anti-theft protection

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

¹ Coating for outdoor installation upon request



Available models

Type / Capacity	Description	Dimensions [mm]			Weight [kg]	Approval	Art. no.
		L	B	H			
KC-AG 3000	2 Cannot be stacked, ladder on the side or face side	2120	1400	1900	1100	D/BAM/1744/TC	99556
KC-AG 5500-1	3 Cannot be stacked, ladder on the side or face side	2940	1900	2120	1600	D/BAM/1710/TC	77660
KC-AG 5500-2	4 Cannot be stacked, ladder on the side, ISO corner fittings	2991	2438	2210	1900	D/BAM/1710/TC	77661
KC-AG 5500-3	1 Can be stacked, top protection frame with integrated ladder and landing, ISO corner fittings	2991	2438	2360	2300	D/BAM/1710/TC	97841
KC-AG 11500	Can be stacked, top protection frame with integrated ladder and landing, ISO corner fittings	6060	2440	2355	3700	D/BAM/S-K2108839	510146

Accessories

Type	Description	Art. no.
KC-AG 5500 heater	Screw-in heater with fixed-position pipe heating element made of stainless steel; Control head made of painted 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
3/8" siphon protection valve	Adjustable 0.05 – 0.4 bar siphon protection valve, 3/8"; max. flow 220 l/h. Prevents unintended discharge of the container; max. installation height 4 m above floor level	97612
1 1/4" siphon protection valve	Adjustable 0.15 to 0.30 bar siphon protection valve, 1 1/4" port; prevents unintended discharge of the container; max. installation height 3 m above floor level	50605



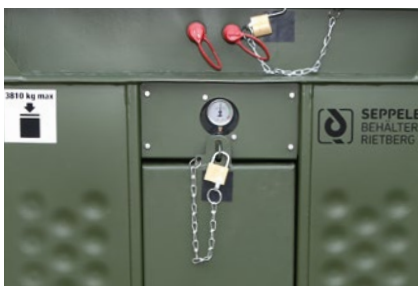
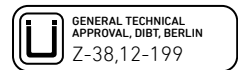
< 5 KC-AG 5500-1
The displayed arrangement of the ladder is a special version

< 6 KC-AG 5500-1
Equipment R80 230 pump, flow meter (see page) Important legal regulations (s. S. 71)

UNIVERSAL SUPPLY TANKS

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 in the sense of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls
- › Approved for outdoor installations 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 to maximum 1,000 l, petrol to maximum 333 l per vehicle
- › Storage without additional collection tray

Space saving

- › Fuel container can also be stacked 3-fold in a filled condition

Durable and sustainable

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

Secure and safe transport

- › Ventilation pipe with shut-off stop cock
- › 2 DN 10 suction pipes with shut-off stop cock and foot 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 209-0209-013
- › 4 lashing lugs for load securing

Comfortable and safe operating

- › Liquid-tight storage box with divided equipment compartment
- › Lockable, spring-supported lid with integrated document compartment
- › Fold-out storage compartment in the niche on the front of the container for hose package or other accessories
- › Easy and safe to lash down
- › The storage box and storage compartment can also be accessed with 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
- › Two G 2" reserve collars for attaching optional accessories, such as e.g. for a tank heater
- › Earth connection according to VG 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	B	H			Art. 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	Art. no.
Flameproof fittings QUADRO-TA	Consisting of filling tube with flame arrester (approval no, PTB Ex 12-42028) and deflagration arrester (approval no, IBExU08ATEX2122 X) for the ventilation line; required for use as storage container for media with a flash point below 55 °C	98784
Tank heating	Screw-in heater with fixed-position pipe heating element made of stainless steel; Control head made of painted 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
NW 8 hose line	Consisting of 2 hoses with 9,0 m each, NW 8x2, metal mesh-coated, with coupling on one end and plug connection on the other end, NW 9, non-drip (FIRG 38, 3/8" port), including dust protection caps	74705
Fuel oil bleeder	Fully mounted with the necessary connection lines and couplings or plug connections for application in combination with hose line kit, art, no, 74705	74709
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
Water absorber/ environmental protection kit	Water absorber including screen cylinder for the absorber pad, suspension chain and sealing plug, 10 water absorber pads, PE bag for disposal; Environmental protection kit including 2 oil binding agent cloths with PE bag for disposal	98799
C4M Coating	Coating on the outside (scope: 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	98785
C5M coating	Complete coating on the outside (scope: 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	98787
Coating	Complete coating on the outside of the tank on the hot-dip galvanized surface; scope and applied materials according to customer requirements	98786



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

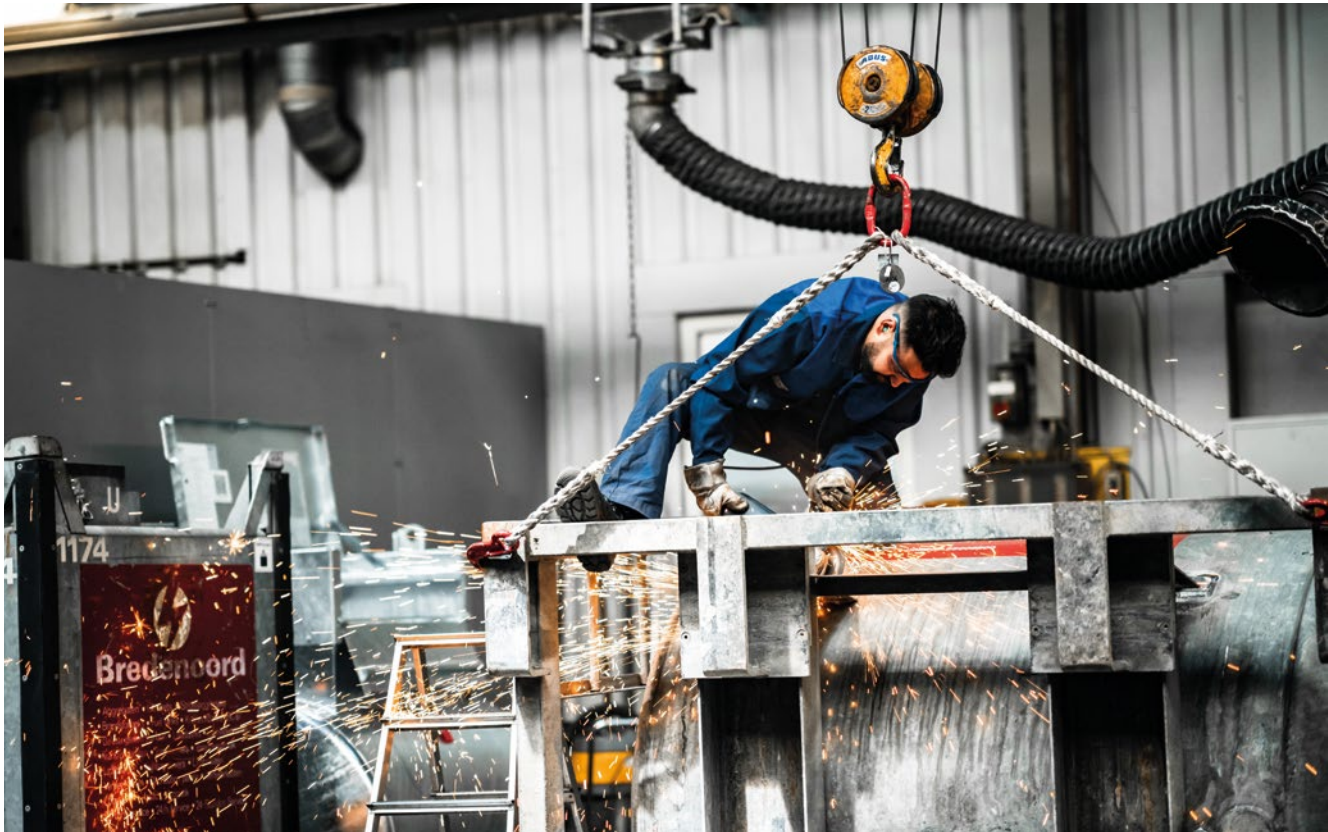
- ADR** International agreement on transport of dangerous goods by road
- RID** International agreement on transport of dangerous goods by railway
- ADN** International agreement on transport of dangerous goods by inland shipping
- IMDG code** International agreement on transport of dangerous goods by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

required. 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

For transport of hazardous substances, type-tested and approved containers like tankers, tank containers and packaging including intermediate bulk containers (IBCs) are generally



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

Inspection 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:

SERVICE AFTER 2½ YEARS

Implemented by a BAM registered servicing body II, according to BAM-GGR 002 – Part B, Paragraph B 1.2.1, B 2.1 and B 3.1

Scope of servicing:

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

SERVICE AFTER 5 YEARS

Implemented by a BAM registered servicing body I, according to BAM-GGR 002 – Part A, Paragraph A 1.2.1, AB 2.1 and A 3.1

Scope of servicing:

- › Scope of the servicing after 2 ½ years
- › Inspecting the concordance with the construction sample
- › Internal inspection



For packaging, no repeated inspection and testing is required.



Every tested and inspected BIC must correspond with the construction sample. A test and/or inspection report must be created for every service and leakage test. This report must be retained by the owner at least until the next service.

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.
- > A shipping document (ADR section 5.4.1) must be carried.
- > Instruction for those involved according to ADR Section 8.2.3, in connection with chapters 1.3 and 1.10.

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

- > is technically intact
- > is tightly sealed during transport and, as applicable,
- > that repeated inspection and testing 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 systems to handle substances hazardous to water (AwSV).

SHIPPING DOCUMENT

What is a shipping document?

A shipping document is generally a shipping note with the following mandatory information according to ADR section 5.4.1.

The transport document 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 transport item	[1 unit, IBC]
f) The total quantity of hazardous goods	[950 litres]
g) The name and address of the sender	[Subconstruction company]
h) The name and address of the recipient	[Subconstruction company – construction site X]
i) A declaration according to the provisions of a special agreement. (Naturally, this is only demanded 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 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 the container is approved for. (e.g. 17 = road)
This is no longer specified for newer approvals
- 4 Approval serial number
- 5 Tank container

Marking

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 x 250 mm, example for diesel: no. 3, flame, black or white on red surface) have to be attached to both sides)

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 sides.

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.

Inspection and testing



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

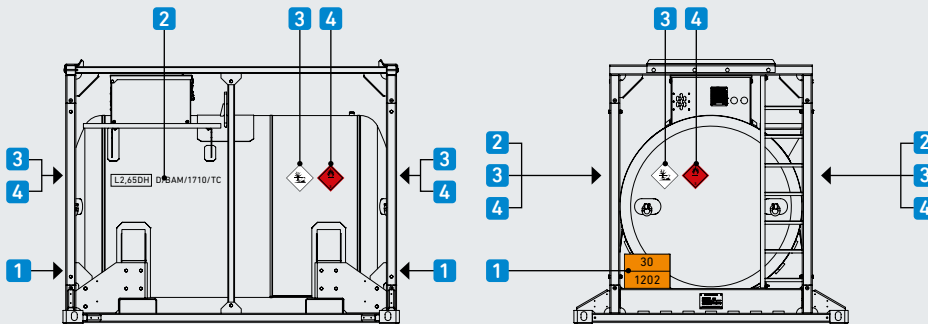
- › Water pressure leakage testing with an overpressure according to the approval
- › Inspection on the inside
- › Function check of all equipment components

Transport

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

Transport under simplified conditions like for IBCs and packaging is not possible for tank containers.

Exemplary illustration for the identification marking of a tank container



No.	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 self-heating capable liquid material
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 the panel)



RESERVOIR WITH PUMP TECHNOLOGY FOR ADDITIVES

04

STATIONARY STORAGE TANKS

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 heavily (e.g. heating oil) or lightly (e.g. ethanol) flammable.

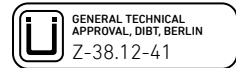
Rietberg storage containers provide a legally compliant, secure and appropriate solution for every application. They are available in cubic or cylindrical design and in sizes of 400 to 16,000 litres of volume.

The surface design depends on the application and the medium to be stored. Completely, i.e. internally and externally, hot-dip galvanized containers, painted 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 delivered.

STORAGE TANKS FOR FIRE-RESISTANT FLUIDS

MT-SE

[FIRE-RESISTANT FLUIDS]



Legally compliant storage

- › Valid general construction approval as a storage container for flammable and other liquids or fluids which are hazardous to water
- › For old oil up to an operating temperature of 95 °C
- › Approved for outdoor installations and in buildings
- › **Container for fire-resistant fluids** are approved for media with a flash point above 55 °C, such as e.g. fresh oil or diesel/heating oil, but also used oil of known origin
- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls

Individually configurable

- › Variable height tanks 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. 120)

Simple handling, cost-saving and reduced time

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

Space saving

- › Optimal space utilisation by utilising a cubed-shaped construction
- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) so that limited spacing is required between them when numerous tanks are installed below each other

Durable and sustainable

- › Manufactured entirely of steel
- › Internal as raw and externally painted¹ in RAL 7035 light grey. Other RAL colour shades are possible
- › MT 900 and MT 1300 can also be delivered as hot-dip galvanized internally and externally
- › 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-company, empty 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

Comfortable and safe operating

- › 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 built on it
- › Continuous, mechanical and easily readable fuel gauge
- › Dome with 500 mm diameter and 6 free threaded sockets

¹ Coating for outdoor installation upon request

Available models

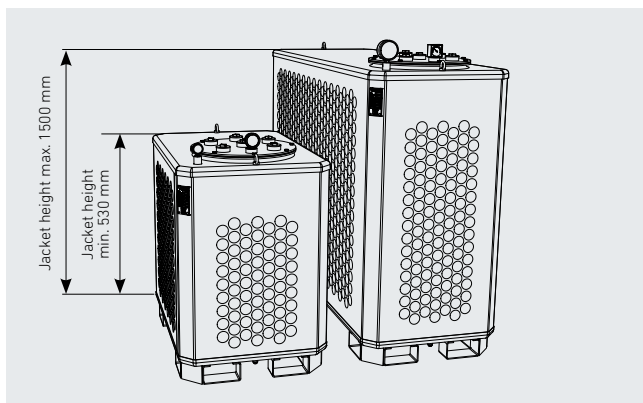
STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Art. no.	
	L	B	H			Hot-dip galvanized	Coated RAL 7035
FIRE-RESISTANT FLUIDS							
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
DESIGN FIRE RESISTANT FLUIDS MOBILE¹							
MT-se 900	1200	800	1290	200	Z-38.12-41	72123	72121
MT-se 1300	1200	800	1750	260	Z-38.12-41	72124	84411
MT-se 2000	1800	800	1750	370	Z-38.12-41	-	84731
MT-se 2400	2200	800	1750	420	Z-38.12-41	-	83426

MATERIAL DESIGNS

Designation	Internal wall	External wall
Steel, Basic 1	Steel, raw	Steel, painted
Steel, Premium 2	Steel, galvanized	Steel, galvanized
Steel, Premium+	Steel, galvanized	Steel, galvanized and painted
Stainless steel Kombi	Stainless steel 1,4301, brushed seams	Steel, painted
Stainless steel Basic	Stainless steel 1,4301, pickled	Stainless steel 1,4301, pickled
Stainless steel Premium 3	Stainless steel 1,4571, pickled	Stainless steel 1,4571, pickled
Special coating	Additional external painting for a stainless steel container in RAL colour shades according to customer request (Corrosion Protection Class C3)	

MULTI-TANK WITH VARIABLE HEIGHT

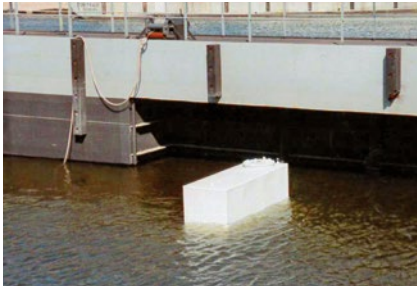


For adjustment to structural conditions like the utilization of recesses, multi-tanks are available with a variable jacket height between 530 and 1500 mm. With a constant surface area, the total height and the capacity of the container are adjusted. With a constant surface area, the total height and 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	Art. no.	
	L	B	H			Hot-dip galvanized	Coated RAL 7035
FIRE-RESISTANT FLUIDS							
MT-VH-se 1300	1200	800	92	92	Z-38.12-41	71304	83980
MT-VH-se 2000	1800	800	140	140	Z-38.12-41	-	83981
MT-VH-se 2400	2200	800	170	170	Z-38.12-41	-	83982
DESIGN FIRE-RESISTANT FLUIDS MOBILE¹							
MT-VH-se 1300	1200	800	92	92	Z-38.12-41	510513	510514
MT-VH-se 2000	1800	800	140	140	Z-38.12-41	-	510515
MT-VH-se 2400	2200	800	170	170	Z-38.12-41	-	510516

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

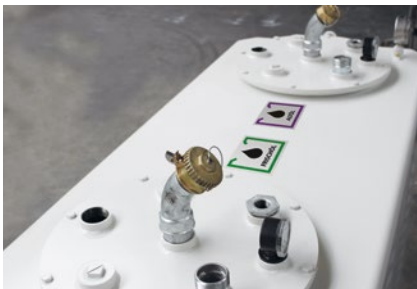
MULTI-TANK FOR FLOOD AREAS



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

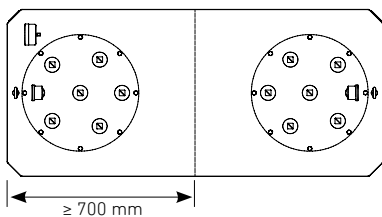
Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Art. no.	
	L	B	H			Hot-dip galvanized	Coated RAL 7035
FIRE-RESISTANT FLUIDS							
MT-Ü-se 900	1200	800	1290	200	Z-38.12-41	96596	72543
MT-Ü-se 1300	1200	800	1750	260	Z-38.12-41	96597	72544
MT-Ü-se 2000	1800	800	1750	370	Z-38.12-41	-	72546
MT-Ü-se 2400	2200	800	1750	420	Z-38.12-41	-	72547
ACCESSORIES							
Anchoring element	Basic unit for the first container					72516	72516
	Extension for each additional container 72588					72588	72588

MULTI-CHAMBER MULTI-TANK

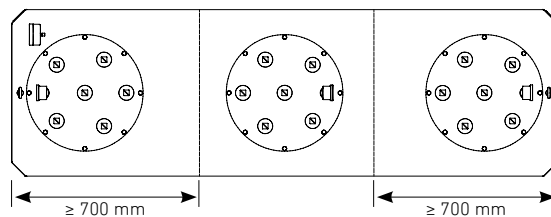


Multi-tanks with multiple chambers are the perfect solution for storage of different fluids in restricted spaces. Depending on the surface area of the container, models with 2 or 3 chambers are available. Each chamber is equipped with a separate dome and respective connection options. The containers feature a standard single-walled partitions. Double-walled partitions are available on request.

Type / Capacity	Description	Dimensions [mm]			Weight [kg]	Approval	Coated RAL 7035
		L	B	H			Art. no.
FIRE-RESISTANT FLUIDS							
MT-2K-se 2000	2-chamber Multitank	1800	800	1750	430	Z-38.12-41	73346
MT-2K-se 2400	2-chamber Multitank	2200	800	1750	500	Z-38.12-41	73347
MT-3K-se 2400	3-chamber Multitank	2200	800	1750	520	Z-38.12-41	73348
ACCESSORIES							
Double-walled partition	A double-walled partition offers additional safety						-



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



3-chamber partition
MT-3K-se 2400



Accessories

Type / Capacity	Description	Art. no.
Special coating C3	MT/MS: Coating for in RAL 7035 (corrosion protection class C3) or in different RAL colours	–
Fittings set Supply MT	1 For all MT: Filler line with 2/2 1/2 MS screw fitting, 2" ventilation nozzle with cap, suction line with 1" external thread for line connection	75700
Fittings set Waste MT	2 For all MT Filler line with 2" external thread port, 2" ventilation nozzle with cap, suction line with 2/2 1/2 MS screw fitting	81779
Fitting set for Diesel fuel MT	3 For all MT: Consisting of a filler line with lockable MS screw fitting, suction line with pump port (SAE flange) and base filter, fill limit indicator, ventilation nozzle with ventilation cap 2"	84074
Discharge valve bracket	Discharge nozzle bracket with lockable return line for drip volumes	300504
Swing door cabinet	Swing door cabinet including adapter ring and assembly material for assembling, Dimensions (L x W x H): Dimensions (L x W x H): 650 x 650 x 800 mm	505209
Limit value transmitter	KA, MT: To prevent container overfilling when filling from a fuel tanker with fixed, coupled up 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

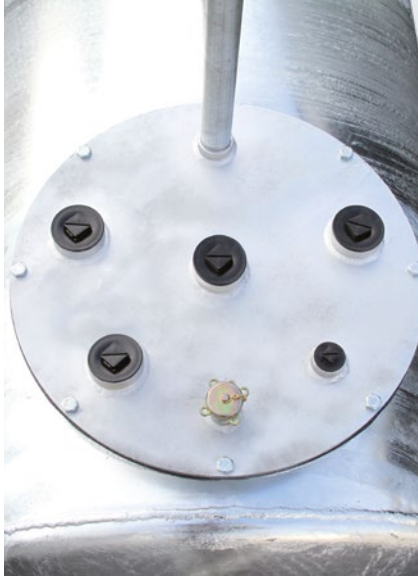
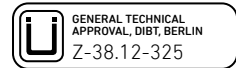


For additional equipment such as overfill protection, please refer to P.132, diesel pumps on P.71 and oil pumps on P.90.

STORAGE TANKS FOR FIRE-RESISTANT FLUIDS

LT-SE

[FIRE-RESISTANT FLUIDS]



Legally compliant storage

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

Can be configured for user-compliant solutions

- › Stable, removable dome lid with 500 mm and/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 assembled

Simple handling, cost-saving and reduced time

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

Space saving

- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) 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
- › When requested for the design, internally raw, externally painted¹ (all RAL colour shades 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

Comfortable and safe operating

- › Permanently opened ventilation and extraction pipes
- › 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.

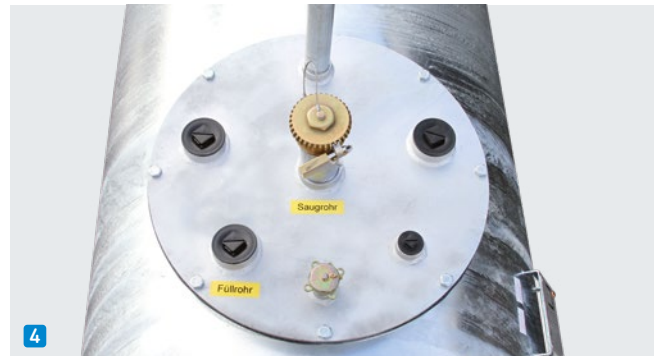
¹ Coating for outdoor installation upon request

¹ Figure similar

Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Hot-dip galvanized
	L	B	H			Art. 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	510419
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	Art. no.
Fitting set for LT-se/elh supply	3 For LT ≥ 1000 l: Filler line with 2"/2½ MS safety screw fitting, suction line with port 1" external thread	98096
Fitting set for Disposal for LT-elh	4 For LT ≥ 1000 l: Filler line with 2" external thread port, suction line with MS safety screw fitting 2/2½"	98097
Cleaning dome DOM	5 Cleaning dome for fire-resistant fluid containers, 500 mm diameter, plain dome cover screw-connected to the dome flange	88942
Pressure sensor-se (fire-resistant)	6 Pressure sensor for remote monitoring of the leakage indicator	79195

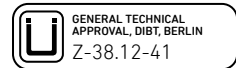


For additional equipment such as overfill protection, please refer to P. 132.

STORAGE TANKS FOR FLAMMABLE FLUIDS

MT-ELH

[FLAMMABLE FLUIDS]



Legally compliant storage

- › Valid general construction approval as a storage container for flammable and other liquids or fluids which are hazardous to water
- › For old oil up to an operating temperature of 95 °C
- › Approved for outdoor installations and in buildings
- › **Container for flammable fluids** are approved for flammable media of all kinds, such as petrol or paraffin but also for old oil of known origin
- › Double-walled in the sense 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 tanks 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
- › Smaller construction method for simpler installation in buildings, rooms and through doors

Space saving

- › Optimal space utilisation by utilising a cubed-shaped construction
- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) so that limited spacing is required between them when numerous tanks are installed below each other

Durable and sustainable

- › Manufactured entirely of steel
- › Internal as raw and externally painted¹ in RAL 7035 light grey. Other RAL colour shades are possible
- › MT 900 and MT 1300 can also be delivered as hot-dip galvanized internally and externally
- › 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-company, empty 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

Comfortable and safe operating

- › 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 built on it
- › Dipstick
- › Dome with 500 mm diameter and 6 free threaded sockets

¹ Coating for outdoor installation upon request

Available models

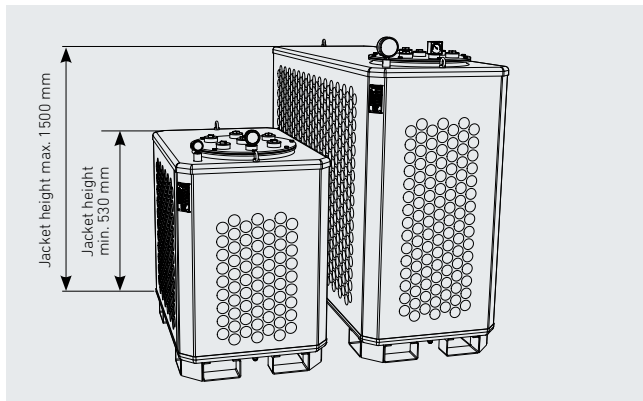
STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Art. no.	
	L	B	H			Hot-dip galvanized	Coated RAL 7035
FLAMMABLE FLUIDS							
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
DESIGN FLAMMABLE FLUIDS MOBILE¹							
MT-elh 900	1200	800	1290	240	Z-38.12-41	509170	99151
MT-elh 1300	1200	800	1750	300	Z-38.12-41	510501	502679
MT-elh 2000	1800	800	1750	410	Z-38.12-41	-	510502
MT-elh 2400	2200	800	1750	460	Z-38.12-41	-	510503

MATERIAL DESIGNS

Designation	Internal wall	External wall
Steel Basic 1	Steel, raw	Steel, painted
Steel Premium 2	Steel, galvanized	Steel, galvanized
Steel Premium+	Steel, galvanized	Steel, galvanized and painted
Stainless steel Kombi	Stainless steel 1,4301, brushed seams	Steel, painted
Stainless steel Basic	Stainless steel 1,4301, pickled	Stainless steel 1,4301, pickled
Stainless steel Premium 3	Stainless steel 1,4571, pickled	Stainless steel 1,4571, pickled
Special coating	Additional external painting for a stainless steel container in RAL colour shades 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]		Volumen/100 mm Jacket height [l]	Approval	Art. no.		
	L	B			Hot-dip galvanized	Coated RAL 7035	
FLAMMABLE FLUIDS							
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	
DESIGN FLAMMABLE FLUIDS MOBILE							
MT-VH-elh 1300	1200	800	92	Z-38.12-41	510509	510510	
MT-VH-elh 2000	1800	800	140	Z-38.12-41	-	510511	
MT-VH-elh 2400	2200	800	170	Z-38.12-41	-	510512	

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





Accessories

Type / Capacity	Description	Art. no.
Special coating C3	MT/MS: Coating in RAL 7035 for outdoor installation (corrosion protection class C3) or in different RAL colours	–
Fittings set Supply MT	1 For all MT: Filler line with 2/2 ½ MS screw fitting, 2" ventilation nozzle with cap, suction line with 1" external thread for line connection	75700
Fittings set Disposal MT	2 For all MT: Filler line with 2" external thread port, 2" ventilation nozzle with cap, suction line with 2/2 ½ MS 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 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 assembling, Dimensions (L x W x H): 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
Limit value transmitter	KA, MT: To prevent container overfilling when filling from a fuel tanker with fixed, coupled up pipe Only approved for diesel/heating oil and petrol	31825
Pressure sensor - elh (flammable)	Pressure sensor for remote monitoring of the leakage indicator with ATEX approval	76539



For additional equipment such as overfill protection, please refer to P. 132, petrol pumps on P. 33 and oil pumps on P. 93

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 installations and in buildings
- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls

Can be configured for user-compliant solutions

- › **Design LT-ELH**
 - › Stable, removable dome lid with 5 free threaded sockets (1 x 1½", 4 x 2")
 - › All commercially available equipment such as e.g. overfill safety devices or heavy pumps can be assembled
- › **Design LT-B-ELH**
 - › 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 in the sense of AwSV (plant ordinance for materials hazardous to water) 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
- › When requested for the design, internally raw, ¹externally painted (all RAL colour shades are possible) or stainless steel can be delivered

Secure and safe transport

- › Closed base construction for safe, occasional in-company, empty container transport with fork-lift truck or industrial pallet truck
- › Also with strengthened base construction for safe, regular in-company, empty 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

Comfortable and safe operating

- › Permanently opened ventilation and extraction pipes
- › 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.

¹ Coating for outdoor installation upon request

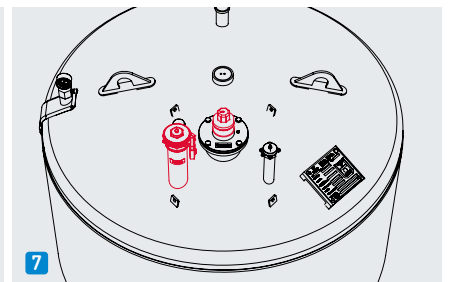
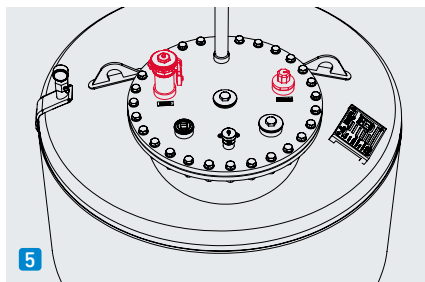
Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Galvanized
	L	B	H			
DESIGN LT-ELH						
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 ¹	1250	1250	1450	310	DIN 6623-2	98659
DESIGN LT-B-ELH						
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 ²	1250	1250	1450	310	DIN 6623-2	71345
DESIGN LT-ELH MOBILE ¹						
LT-elh 400	1000	1000	1100	220	DIN 6623-2	510408
LT-elh 600	1000	1000	1360	260	DIN 6623-2	510409
LT-elh 995	1250	1250	1450	310	DIN 6623-2	510410
DESIGN LT-B-ELH						
LT-B-elh 400	1000	1000	1100	220	DIN 6623-2	510411
LT-B-elh 600	1000	1000	1360	260	DIN 6623-2	510412
LT-B-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	Art. no.
DOM III ²	³ Cleaning dome for GS / GD / LT 995/40, 0 mm diameter, domed folding cover secured with 4 eye screws	85996
Additional sleeve 2" I	For collection containers type AS / GS / GD / LT, for overfill protection installation	83674
Additional sleeve 2" II	For collection containers type AS / GS / GD / LT, with filler line for filling via an additional fixed line	83673
Fittings set Supply for LT-ELH	⁵ For LT < 1000 l: Filler line with 2 1/2" MS safety screw fitting, suction line with port 1" external thread	98661
Fittings set Disposal for LT-elh	⁶ For LT < 1000 l: Filler line with 2" external thread port, suction line with MS safety screw fitting 2 1/2"	98660
Fittings set Supply for LT-B-elh	⁷ Filler line with 2 1/2" MS safety screw fitting, suction line with port 1" external thread	98853
Fittings set LT-B-elh	⁸ Filler line with 2" external thread port, suction line with MS safety screw fitting 2 1/2"	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 page 132.

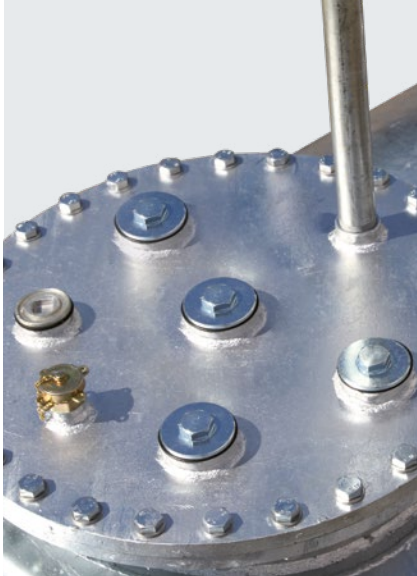
1 Durable base construction designed for in-house transport of the filled container with forklift equipment

2 Cannot be combined 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 installations and in buildings
- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls

Can be configured for user-compliant 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 assembled

Simple handling, cost-saving and reduced time

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

Space saving

- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) 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
- › When requested for the design, internally raw, ¹externally painted (all RAL colour shades 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

Comfortable and safe operating

- › Permanently opened ventilation and extraction pipes
- › 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.

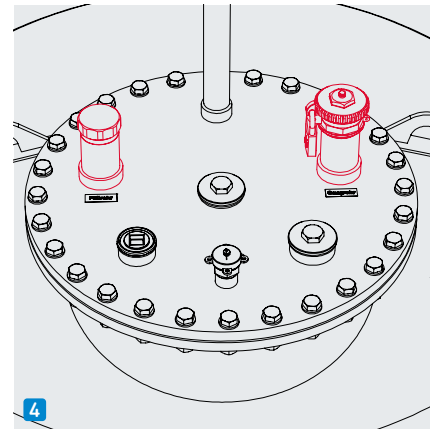
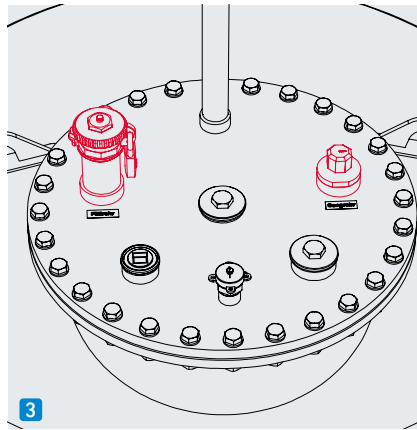
¹ Coating for outdoor installation upon request

Available models


Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Hot-dip galvanized
	L	B	H			Art. 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 1	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	Art. no.
DOM I	2 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	3 For LT ≥ 1000 l: Filling pipe with safety fitting 2 / 2½" and suction pipe with 1" male thread connection	98096
Fittings set Disposal for LT-elh	4 For LT ≥ 1000 l: Filling pipe with 2" male thread connection and suction pipe with safety fitting 2 / 2½"	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.132.

OVERFILL PROTECTION

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 generally includes the following two components:

- > Level sensor permanently mounted in the container with a PTC thermistor changing 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 stopped

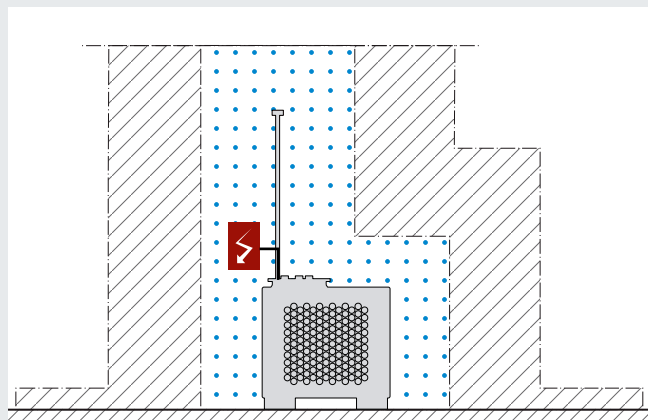
For type-specific differences, please refer to the following table.

Scope of delivery:
Level sensor, transducer, mounted at ordered Rietberg container

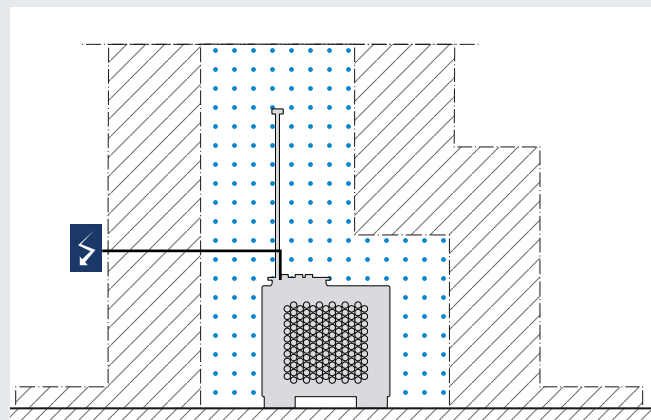
Type	Description	Art. no.
FIRE-RESISTANT FLUIDS		
SE-Ü-40	Transducer, protection type IP 40, with simple bracket. Input/output for signal to external control	86286
TW plug	Tanker vehicle connector for wall assembly; to prevent overfilling when filling from a fuel tanker with fixed, coupled on pipe	44687
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 assembled in 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 is the interior of a storage container including feed and ventilation lines.** In this area in the vicinity of openings, dangerous explosive atmospheres may occur occasionally during operation.
-  **Zone 2:** In this area at a larger distance to a container, dangerous explosive atmospheres do not 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 (GERMANY)

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 AI, All 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 fuel 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 (m ³)	Weight (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 tight, stable and sufficiently resistant against mechanical, thermal and chemical loads to be expected.

Any leakage has to be identified quickly and reliably and leaking substances have to be retained. Operating-related occurring 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 withheld 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 consist 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 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 inspection every five years for: Recurring inspection every five years for hazardous level facilities C and D, in protected areas B to 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 discharge nozzle). Rietberg collection containers with filling funnel may be intermittently filled with low volumes without overfill protection. Operating-related occurring drip losses must be collected.

Obligations for the operator

- > Competent planning and design, ideally by utilising a specialised company in collaboration with competent local authority
- > Obligation to notify in the case of plants and/or systems with a volume of more than 1,000 l or in general in protected areas
- > Building application for plants and/or systems with a volume of more than 10,000 l
- > Creating an explosion protection documentation where necessary
- > Creating and managing the plant and documentation
- > Expert assessor inspection before commissioning and recurring every 5 years for plants and/or systems with a volume of more than 10 m³ and generally in protected areas (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 a lateral 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 were 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 heavily (e.g. waste oil) or lightly (e.g. cleaning petrol) flammable.

Rietberg collection containers comprise 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 firmly 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, painted 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 delivered.

COLLECTION TANK FOR FIRE-RESISTANT FLUIDS

AS-T-SE

[FIRE-RESISTANT FLUIDS]



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 installations and in buildings
- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls

Can be configured for user-compliant solutions

- › On request, can be delivered with additional sleeves, e.g. for the installation of an additional fixed filling line and / or an additional overfill safeguard

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
- › When requested for the design, internally raw, externally painted¹ (all RAL colour shades are possible) or stainless steel can be delivered

Space saving

- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) 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-company, empty container transport with fork-lift truck or industrial pallet truck
- › Also with strengthened base construction for safe, regular in-company, empty 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

Comfortable and safe operating

- › Design as hydraulic, overfill safeguard 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 pipes
- › Suction pipe with lockable safety 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.

¹ Coating for outdoor installation upon request

² AS-T-se 400 special design: painted on galvanized surface finish

Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Hot-dip galvanized
	L	B	H			Art. no.
AS-T-se 400 ¹	1000	1000	1000	155	DIN 6623-2	72573
AS-T-se 990 ²	1250	1250	1335	235	DIN 6623-2	72647
AS MOBIL¹						
AS-T-se 400	1000	1000	1000	155	DIN 6623-2	97180
AS-T-se 990	1250	1250	1335	235	DIN 6623-2	73933

Accessories

Type	Description	Art. no.
Additional sleeve 2" I	For collection containers type AS / GS / GD / LT, for overfill protection installation	83674
Additional sleeve 2" II	For collection containers type AS / GS / GD / LT, with filler line for filling via an additional fixed line	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

[FIRE-RESISTANT FLUIDS]



Legally compliant storage

- › Manufactured according to DIN 6624-2/DIN 6616 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 installations and in buildings
- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) with permanent and energy-independent vacuum-leakage monitoring for both walls

Can be configured for user-compliant solutions

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

Simple handling, cost-saving and reduced time

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

Space saving

- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) 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
- › When requested for the design, internally raw, externally painted¹ (all RAL colour shades 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

Comfortable and safe operating

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



Do you require special equipment which we do not stock? Do you require special equipment which we do not stock?

¹ Coating for outdoor installation upon request

Available models

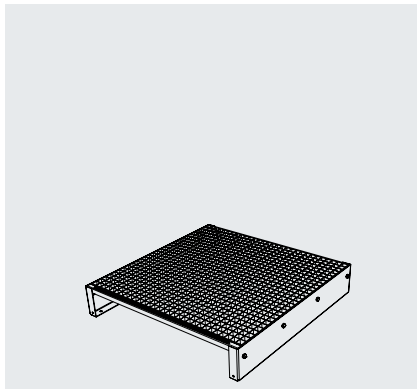
Type / Capacity	Dimensions [mm]				Weight ⁴ [kg]	Approval	Hot-dip galvanized
	BL ¹	GL ²	B	H ³			Art. no.
AS-TP-se 1500	2300	3200	1000	1400	450	Z-38.12-325	506677
AS-TP-se 2000	3000	3850	1000	1400	540	Z-38.12-325	506678
AS-TP-se 3000-100	4230	5000	1000	1400	700	Z-38.12-325	506679
AS-TP-se 3000-125	2800	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 liters or greater and a diameter of 1400 mm can be found in chapter „GS-TP-elh“ auf S. 146

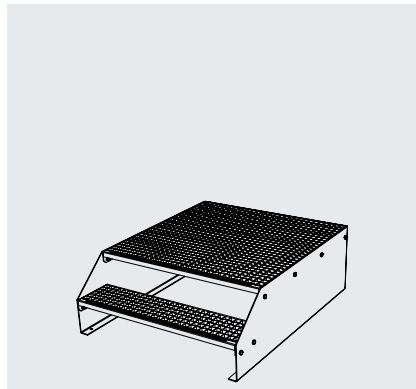
Accessories

Type	Description	NW19 NW25
Additional sleeve 2" I	For collection containers type AS / GS / GD / LT, for overfill protection installation	83674
Additional sleeve 2" II	For collection containers type AS / GS / GD / LT, with filler line for filling via an additional fixed line	83673
Without foot pedal	Price reduction	83675
Without	Price reduction, container diameter of 1000 mm	77468
control platform	Price reduction, container diameter of 1250 mm	77469



Control platform I

One-step control 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



Control platform II

Two-step control 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 control platform

3 With opened cover + 500 mm

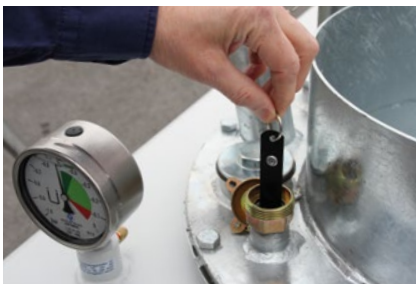
4 Weight including control platform

5 General building authority approval (abZ) 8

COLLECTION TANK FOR FIRE-RESISTANT FLUIDS

MS-T-SE

[FIRE-RESISTANT FLUIDS]



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 old oil up to an operating temperature of 95 °C
- › Approved for outdoor installations and in buildings
- › Double-walled in the sense 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 fixed connected filling pipe or an additional overfilling safety 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 utilising a cubed-shaped construction
- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) so that limited spacing is required between them when numerous tanks are installed below each other

¹ Coating for outdoor installation upon request

Durable and sustainable

- › Manufactured entirely of steel
- › Internal as raw and externally painted¹ in RAL 7035 light grey. Other RAL colour shades are possible
- › MT 900 and MT 1300 can also be delivered as hot-dip galvanized internally and externally
- › All containers available in stainless steel on request

Secure and safe transport

- › Closed base construction for safe, occasional in-company, empty container transport with fork-lift truck or industrial pallet truck
- › Also with strengthened base construction for safe, regular in-company, empty 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

Comfortable and safe operating

- › Design as hydraulic, overfill safeguard for protection against overfilling
- › 400 mm filling funnel with locking, manually actuated lid
- › Easy to read dipstick for filling level control
- › Permanently opened ventilation and extraction pipes
- › Suction pipe with lockable safety fitting
- › Operator landing is optionally available for easier operability



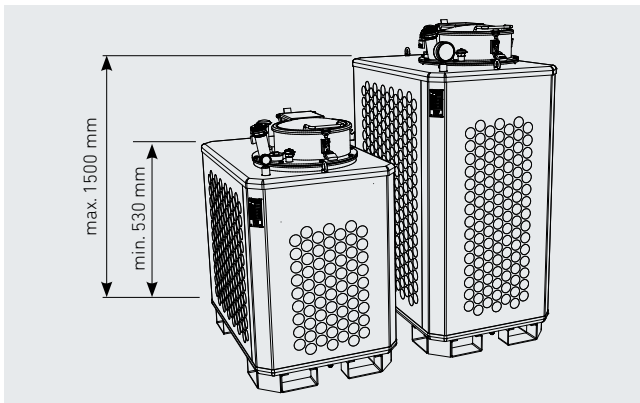
Do you require special equipment which we do not stock? Please do not hesitate to contact us, we can always take care of the corresponding components and deliver the correct product according to your requirements.

Available models

STANDARD

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Art. no.	
	L	B	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
MS MOBILE ¹							
MS-T-se 900	1200	800	1330	220	Z-38.12-41	72123	72121
MS-T-se 1300	1200	800	1780	260	Z-38.12-41	72124	84411
MS-T-se 2000	1800	800	1780	370	Z-38.12-41	-	84731
MS-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.

With 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	Art. no.	
	L	B			Hot-dip galvanized	Coated RAL 7035
MS-TVH-se 1300	1200	800	92	Z-38.12-41	71329	71324
MS-TVH-se 2000	1800	800	140	Z-38.12-41	-	71326
MS-TVH-se 2400	2200	800	170	Z-38.12-41	-	71327

Accessories

Type	Description	Art. no.
Control platform MS I	One-step control platform for MS 900, full steel design, hot-dip galvanized 600 x 500 x 275 mm	72125
Control platform MS II	Three-step control 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
Special coating C3	MT/MS: Coating for outdoor installation (corrosion protection class C3) or in different RAL colours	-



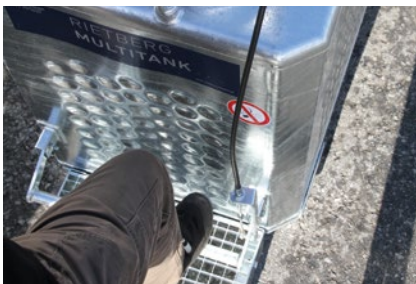
For additional equipment such as overfill protection, please refer to P. 152

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

COLLECTION TANK FOR FLAMMABLE FLUIDS

MS-TP-ELH

[FLAMMABLE FLUIDS]



Legally compliant storage

- › Valid general construction approval as a storage container and therefore approved throughout Germany for storing flammable fluids (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 old oil up to an operating temperature of 95 °C
- › Approved for outdoor installations and in buildings
- › Double-walled in the sense 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 fixed connected filling pipe or an additional overfilling safety 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 utilising a cubed-shaped construction
- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) so that limited spacing is required between them when numerous tanks are installed below each other

1 Coating for outdoor installation upon request

Durable and sustainable

- › Manufactured entirely of steel
- › Internal as raw and externally painted ¹in RAL 7035 light grey. Other RAL colour shades are possible
- › MT 900 and MT 1300 can also be delivered as hot-dip galvanized internally and externally
- › All containers available in stainless steel on request

Secure and safe transport

- › Closed base construction for safe, occasional in-company, empty container transport with fork-lift truck or industrial pallet truck
- › Also with strengthened base construction for safe, regular in-company, empty 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

Comfortable and safe operating

- › Design as hydraulic, overfill safeguard for protection against overfilling
- › 400 mm filling funnel with manually actuated shut-off stop cock as well as actuated via foot pedal and with self-closing lid
- › Easy to read dipstick for filling level control
- › Permanently opened ventilation and extraction pipes
- › Suction pipe with lockable safety fitting
- › Explosion-pressure shock resistant design, which can even withstand an explosion inside itself.
- › Operator landing 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.

Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Art. no.	
	L	B	H			Hot-dip galvanized	Coated RAL 7035
MS-TP-elh 900 ¹	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
MS MOBILE ¹							
MS-TP-elh 900 ¹	1200	800	1480	200	Z-38.12-41	97059	510404
MS-TP-elh 1300	1200	800	1940	350	Z-38.12-41	510403	510405
MS-TP-elh 2000	1800	800	1940	460	Z-38.12-41	-	510406
MS-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	Art. no.
Control platform MS I ²	One-step control platform for MS 900, full steel design, hot-dip galvanized 600 x 500 x 275 mm	72125
Control platform MS II	Three-step control 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
Special coating C3	MT/MS: Coating for outdoor installation (corrosion protection class C3) or in different RAL colours	-
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

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

COLLECTION TANK FOR FLAMMABLE FLUIDS

GS-TP-ELH



Legally compliant storage

- › Valid general construction approval as a storage container and therefore approved throughout Germany for storing flammable fluids (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 installations and in buildings
- › Double-walled in the sense 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
- › When requested for the design, internally raw, externally painted¹ (all RAL colour shades are possible) or stainless steel can be delivered

Space saving

- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) 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-company, empty container transport with fork-lift truck or industrial pallet truck
- › Also with strengthened base construction for safe, regular in-company, empty 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

Comfortable and safe operating

- › Design as hydraulic, overfill safeguard for protection against overfilling
- › 400 mm filling funnel with manually actuated shut-off stop cock as well as actuated via foot pedal and with self-closing lid (manual cover for GS-T-elh 250/400)
- › Easy to read dipstick for filling level control
- › Permanently opened ventilation and extraction pipes
- › Suction pipe with lockable safety fitting
- › Explosion-pressure shock resistant design, which can even withstand an explosion inside itself.




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.

¹ Coating for outdoor installation upon request

Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Hot-dip galvanized
	L	B	H			Art. 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
GS MOBILE ¹						
GS-T-elh 250	750	750	1050	170	Z-38.12-288	71396
GS-T-elh 400	1000	1000	1025	200	Z-38.12-288	71397
GS-TP-elh 600	1200	1000	1210	230	Z-38.12-288	71398
GS-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	Art. no.
Additional sleeve 2" I	For collection containers type AS / GS / GD /LT, for overfill protection installation	83674
Additional sleeve 2" II	For collection containers type AS / GS / GD / LT, with filler line for filling via an additional fixed line	83673
Cleaning dome DOM	Cleaning dome for GS / GD / LT 950/995, 400 mm diameter, domed folding cover secured with 4 eye screws	85996
Ventilation and extraction pipes, Ex-area	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

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

COLLECTION TANK FOR FLAMMABLE FLUIDS

GS-TP-ELH

[FLAMMABLE FLUIDS]



Legally compliant storage

- › Valid general construction approval as a storage container and therefore approved throughout Germany for storing flammable fluids (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 installations and in buildings
- › Double-walled in the sense 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 overfilling safety device

Simple handling, cost-saving and reduced time

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

Space saving

- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) 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
- › When requested for the design, internally raw, externally painted ¹(all RAL colour shades are possible)

¹ Coating for outdoor installation upon request

Secure and safe transport

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

Comfortable and safe operating

- › Design as hydraulic, overfill safeguard for protection against overfilling
- › 400 mm filling funnel with manually actuated shut-off stop cock as well as actuated via foot pedal and with self-closing lid
- › Easy to read dipstick for filling level control
- › Permanently opened ventilation and extraction pipes
- › Suction pipe with lockable safety fitting
- › Explosion-pressure shock resistant design, which can even withstand an explosion inside itself.
- › Operator landing 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]				Gewicht ³ [kg]	Approval	Hot-dip galvanized
	BL ¹	GL ²	B	H			Art. 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



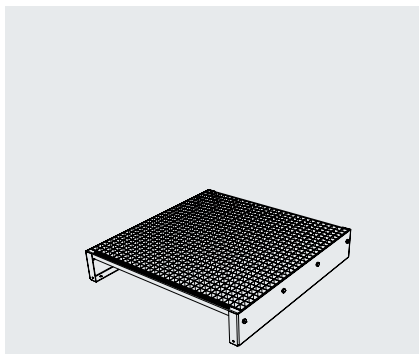
The height, including ventilation line, is 4 m above floor level for all container dimensions.

Accessories

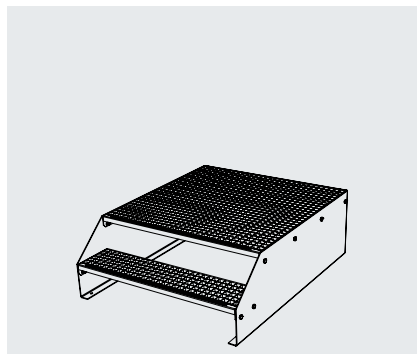
Type	Description	Art. no.
Additional sleeve 2" I	For collection containers type AS / GS / GD /LT, for overfill protection installation	83674
Additional sleeve 2" II	For collection containers type AS / GS / GD / LT, with filler line for filling via an additional fixed line	83673
Ventilation and extraction 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



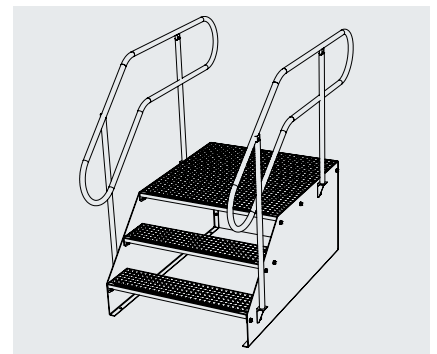
For additional equipment such as overfill protection, please refer to P. 152



Control platform I
One-step control 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



Control platform II
Two-step control 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



Control platform III
Three-step control platform, suitable for containers with a diameter of 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 control platform
3 Weight including control platform 6

COLLECTION TANK FOR FLAMMABLE FLUIDS

GD-TP-ELH

[FLAMMABLE FLUIDS]



Legally compliant storage

- › Valid general construction approval as a storage container and therefore approved throughout Germany for storing flammable fluids (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 installations and in buildings
- › Double-walled in the sense 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

Space saving

- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) 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
- › When requested for the design, internally raw, externally painted¹ (all RAL colour shades are possible) or stainless steel can be delivered

Secure and safe transport

- › Closed base construction for safe, occasional in-company, empty container transport with fork-lift truck or industrial pallet truck
- › Also with strengthened base construction for safe, regular in-company, empty 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

Comfortable and safe operating

- › Design as hydraulic, overfill safeguard 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 pipes
- › Suction pipe with lockable safety fitting
- › Explosion-pressure shock resistant design, which can even withstand an explosion inside itself.



Operated by everyone.

¹ Coating for outdoor installation upon request

Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Approval	Hot-dip galvanized
	L	B	H			Art. 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 1	1450	1250	1230	290	Z-38.12-288	73356
GD MOBILE¹						
GD-TP-elh 400	1000	1000	1025	200	Z-38.12-288	73810
GD-TP-elh 600	1200	1000	1210	230	Z-38.12-288	300076
GD-TP-elh 995 3	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	Art. no.
Additional sleeve 2" I	For collection containers type AS / GS / GD /LT, for overfill protection installation	83674
Additional sleeve 2" II	For collection containers type AS / GS / GD / LT, with filler line for filling via an additional fixed line	83673
DOM III 2	Cleaning dome for GS / GD / LT 950/995, 400 mm diameter, domed folding cover 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. 152



◀ 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 cleaning dome, rear view

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

COLLECTION TANK FOR FLAMMABLE FLUIDS

GD-D-ELH

[FLAMMABLE FLUIDS]



AD 2000 REGULATIONS
PRESSURE CONTAINER



Legally compliant storage

- › TÜV approval as a pressure vessel according to the pressure devices guideline and therefore approved for collection and storage of chemicals
- › Double-walled in the sense 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 material contents
- › Different connection options for use-compliant design

Simple handling, cost-saving and reduced time

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

Space saving

- › Hazardous substance depots in stacking frame for simpler stacking
- › Double-walled in the sense of AwSV (plant ordinance for materials hazardous to water) 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
- › When requested for the design, internally raw, externally painted ¹ (RAL colour shades are possible) or stainless steel can be delivered

Secure and safe transport

- › Closed base construction for safe In-company 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

Comfortable and safe operating

- › 400 mm inspection dome
- › Earthing strap
- › Holders for identification panels
- › Conductive, explosion-resistant design, which can even withstand an explosion inside itself
- › 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.

¹ Coating for outdoor installation upon request

Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Pressure container			Art. no.
	L	B	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, raw	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
Filling funnel	For manual filling with lockable cover
Cover plate for upper base	For easy cleaning
Control platform	Folding, with grating



Additional sizes, equipment and connections on request.

OVERFILL PROTECTION

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 generally includes the following two components:

- > Level sensor permanently mounted in the container with a PTC thermistor changing 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 stopped

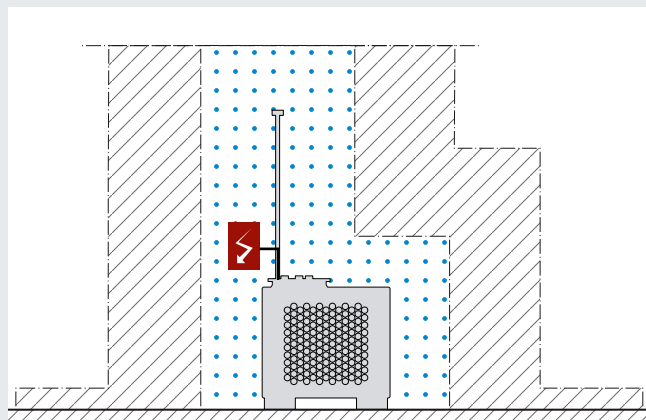
For type-specific differences, please refer to the following table.

Scope of delivery:
Level sensor, transducer, mounted at ordered Rietberg container

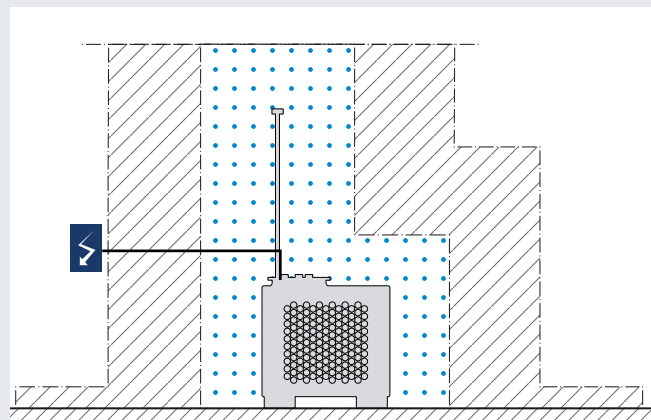
Type	Description	Art. no.
FIRE-RESISTANT FLUIDS		
SE-Ü-40	Transducer, protection type IP 40, with simple bracket. Input/output for signal to external control	86286
TW plug	Tanker vehicle connector for wall assembly; to prevent overfilling when filling from a fuel tanker with fixed, coupled on pipe	44687
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 assembled in 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 is the interior of a storage container including feed and ventilation lines.** In this area in the vicinity of openings, dangerous explosive atmospheres may occur occasionally during operation.
-  **Zone 2 is the interior of a storage container including feed and ventilation lines.** In this area at a larger distance to a container, dangerous explosive atmospheres do not 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 AI, All 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 fuel 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 ³)	Weight (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 tight, stable and sufficiently resistant against mechanical, thermal and chemical loads to be expected.

Any leakage has to be identified quickly and reliably and leaking substances have to be retained. Operating-related occurring 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 withheld 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 consist 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 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 inspection every five years for: Recurring inspection every five years for hazardous level facilities C and D, in protected areas B to 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 discharge nozzle). Rietberg collection containers with filling funnel may be intermittently filled with low volumes without overfill protection. Operating-related occurring drip losses must be collected.

Obligations for the operator

- > Competent planning and design, ideally by utilising a specialised company in collaboration with competent local authority
- > Where necessary, applying for permits and building applications
- > Building application for plants and/or systems with a volume of more than 10,000 l
- > Creating an explosion protection documentation where necessary
- > Creating and managing the plant and documentation
- > 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

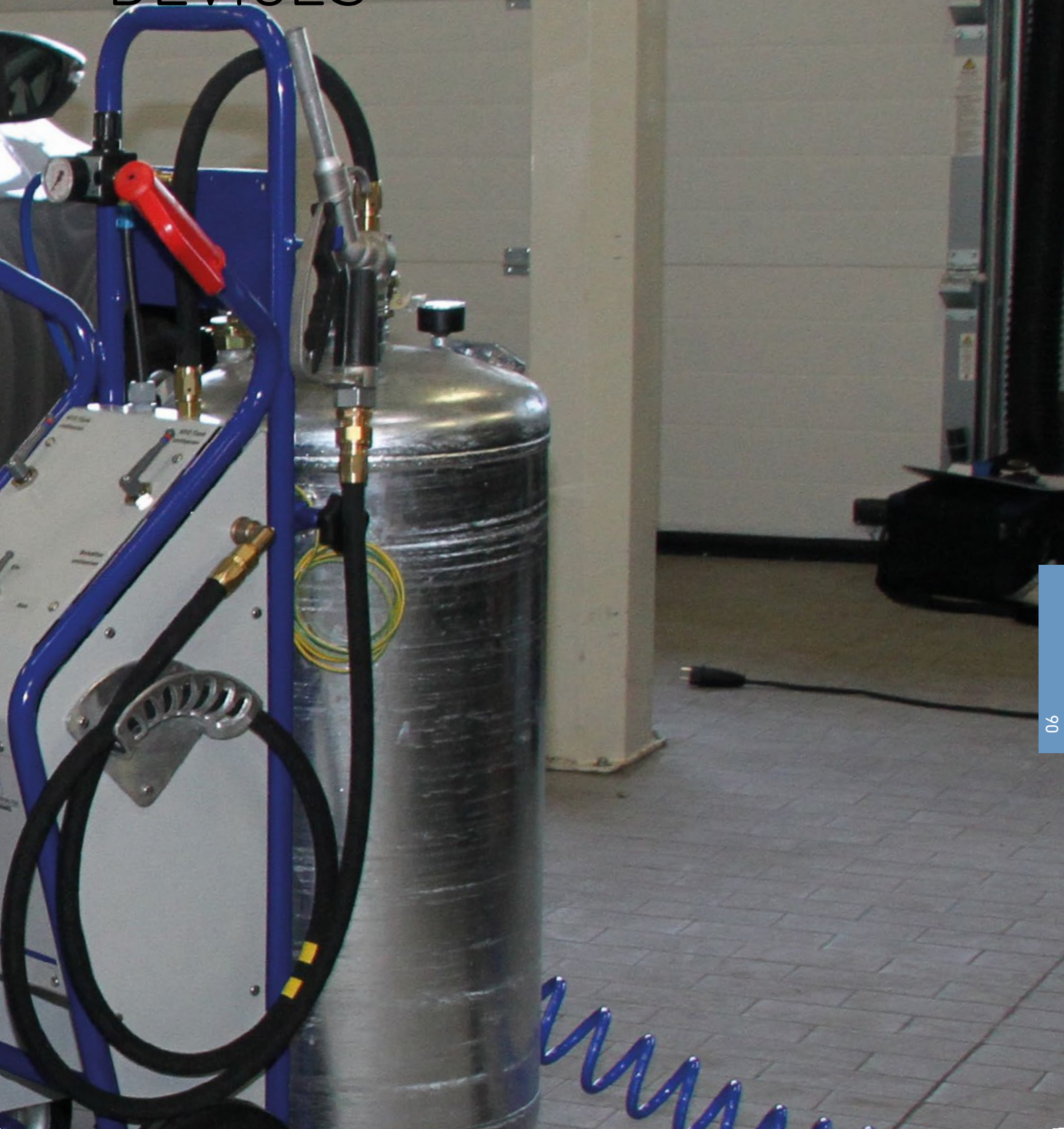


Automotive workshops are often confronted with the problem of draining and refilling the fuel tanks of vehicles. This may be the welding work on the vehicle, repairs to the fuel tank or simply the wrong fuel being used. But fire and other emergency services or industrial plants also often have to pump 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. Mobilus equipment complies with all applicable technical and legal regulations. They are ex-proof, comply with ATEX regulations and the Machinery Directive and can be used for diesel and petrol. CE marking is a matter of course.

06

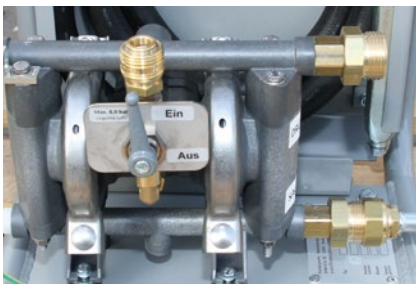
MOBILE REFUELLING DEVICES



FUEL EXTRACTION AND FUELLING EQUIPMENT

MOBILUS-COMPACT

[FUELS]



Individually configurable

- › Use-compliant accessories such as e.g. larger suction hose for sucking out HGVs, pressure reduction valve or also suction hose with automatic discharge valve
- › On request with Storz couplings (fire brigade couplings) for easy assembly and dismantling of the hose pipes

Simple handling

- › Connection on 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
- › Lower dead weight

Space saving

- › Compact and safe construction design for simple storage in work vehicles and/or device trolley

Durable and sustainable

- › Manufactured entirely of steel
- › Corrosion protection provided by high-quality zinc primer coat and powder coating (RAL 7037)
- › High-quality, explosion-protection compressed air diaphragm pump for commercially available fuel

Comfortable and safe operating

- › 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-fabric sheathed and electrically conductive (with suction through openings from Ø 15 mm)
- › 2.5 m long DN 19 suction 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
- › Discharge valve holder for safe removal of the automatic discharge valve (optional)
- › Conveying rate 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.

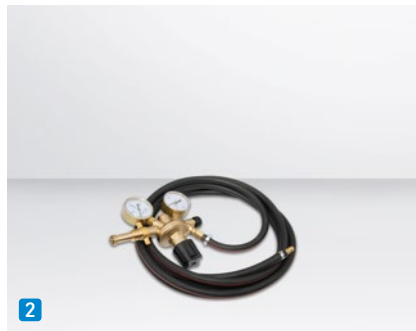
Available models

Type / Capacity	Dimensions [mm]			Weight [kg]	Description	Art. no.
	L	B	H			
MOBILUS-COMPACT	350	320	465	11.5	Compressed air diaphragm pump for the safe pumping of fuels, mounted 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	Art. no.
Support frame	1 Support frame for 2 gas cylinders à 6 litres, 300 bar (cylinders are not included in the scope of delivery) with T-fitting for parallel operation	502913
Pressure reduction val	2 300-10 bar, incl, 4 m compressed air hose and connection coupling	72511
Suction hose	3 DN 19 x 4 suction hose, 2,5 m long, electrically conductive; for extraction from containers with larger openings	72492
Storz couplings	4 D-Storz-Fixed coupling G 1" For fast connection, release and bonding of hoses with large diameters.	99570
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	DN 19 x 4 discharge hose, 4 m long, electrically conductive, coupling nut for pump connection at one end, the other end with mounted automatic petrol discharge nozzle (Elaflex)	72622

5 Figures are similar

FUEL SUCTION AND REFUELLING DEVICES

MOBILUS

[FUELS]



Individually configurable

- › Use-compliant accessories such as e.g. flow meter for recording the conveying rate, gas displacement pipe for recirculation gas during refuelling or a dirt trap to protect the pump against foreign bodies

Simple handling

- › Connection on stationary workshop compressed air network or on compressor
- › Universal and quickly ready for operation
- › Installed on practical, mobile transport carriage and therefore easily transportable
- › Approved for intermediate storage
- › Interchangeable containers 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 construction design
- › Requires less than half a 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 transport carriage
- › Decades of corrosion protection for the container by utilising high-quality hot-dip galvanizing (internally and externally)
- › High-quality explosion protected compressed air diaphragm pump for commercially available fuel

Secure and safe transport

- › Mobile, movable transport carriage with container securing for safe, in-company transport

Comfortable and safe operating

- › 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 inside itself
- › Design as hydraulic, overfill safeguard for protection against overfilling in the container
- › Easy to read dipstick for filling level control
- › Lockable filling spout
- › 2.5 m long DN 8 suction probe, metal-fabric sheathed and electrically conductive (with suction 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 NW 16 discharge valve
- › Discharge valve holder for safe removal of the automatic discharge valve
- › Hose holders for winding up and storage for the hose pipes



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	Hot-dip galvanized Art. no.
	L	B	H			
MOBILUS 1	500	720	1320	86	Complete with interchangeable container with a capacity of 100 litres, with filler neck and overflow protection; separate extraction and discharge hose, pump capacity approx, 10 l/min	97038
Interchangeable container	400	400	925	35	Additional interchangeable container with a capacity of 100 litres	84414

Accessories



Type	Description	Art. no.
Inspection glass 3	Inspection glass for checking the media flow for installation into the suction line	37999
Dirt filter 4	For installation into the suction line and protection of pump and fittings from foreign objects	83677
Adapter 5	Cone-shaped special adapter for attachment to the intake hose of fuel extraction equipment and connection of the intake probe to the fuel line of the mobile vehicle	97840
Compressed air filter	For safe supply of fuel extraction equipment with clean compressed air	39169
Gas balance equipment 6	For return direction of gases from the container to be filled into the extracted container	71301
Suction probe 7	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]		Art. no.
		Min.	Max.	
Mechanical counter MOBILUS	Securely installed ring piston counter, centrally positioned on the MOBILUS 100 operating element	0.2	15	73873

UREA SOLUTION REFUELLING DEVICES

MOBILUS-BLUE

[UREA SOLUTION (AUS 32)]



Individually configurable

- › Utilisation-compliant accessories such as e.g. receipt printer in connection with tankautomats, active carbon filter for venting or hoses in special lengths

Simple handling

- › Installed on practical, mobile transport carriage and therefore easily transportable
- › Easy to operate device controlling
- › Hazard-free and clean refuelling of urea solution tanks in vehicles

Space saving

- › Compact and safe construction design
- › Requires less than one metre of surface area
- › Durable and sustainable
- › Transport carriage manufactured entirely of steel
- › Corrosion protection provided by high-quality zinc primer coat and powder coating (RAL 5003) for the transport carriage
- › High-quality electric diaphragm pump

Secure and safe transport

- › Mobile, movable transport carriage with 2 rigid fixing castors and 2 flexible steering castors with parking brakes for safe, in-company transport

Comfortable and safe operating

- › Design as hydraulic, overfill safeguard for protection against overfilling in the container
- › **MOBILUS-BLUE-A / -B** – Tankautomat with easily readable display and the following, freely-configurable values:
 - › Release code for authorising a refuelling procedure
 - › Maximum preset quantity; can be overwritten individually for every refuelling procedure
 - › Maximum discharge quantity and discharge time per refuelling procedure
 - › Maximum number of zero refuelling (1 – 100) before the device is disabled
 - › Refuelling code for authorising a refuelling procedure
 - › Order number issuing
- › **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 valve made of stainless steel
- › Discharge valve holder for safe removal of the automatic discharge valve
- › Hose holders for winding up and storage for the hose pipes



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]	Additional technical characteristics	Art. no.
	L	B	H			
MOBILUS-BLUE-C 200 1 (without automatic fuel terminal)	1060	715	1340	95	including LCD display for indication of the current flow and the discharged volume; 4 m discharge hose with stainless steel automatic discharge nozzle; 2 m intake hose with CDS coupling for IBCs for self-filling; ball valve for switching of the pump from fuelling to self-filling; extraction function for draining of AdBlue® tanks with 3,5 m intake hose, D = 15 mm and stainless steel tip	98144
MOBILUS-BLUE-A 200 (with automatic fuel terminal) 2	1060	715	1340	100	Additional technical characteristics: 4 m discharge hose with stainless steel automatic discharge nozzle; 2 m intake hose with CDS coupling for IBCs for self-filling; ball valve for switching of 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 (e.g. delivery systems page 131); isolated ground receptacle for power supply of the external pump; float switch for deactivation of the power supply of the external pump on reaching the maximum filling capacity of the Mobilus container	98142

Accessories

Type	Description	Art. 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	46125
Activated carbon filter	Activated carbon filter assembly kit for ventilation	97892
Special length hose	Discharge and intake hose NW 19, 2,5 m long, without discharge nozzle	97893
	Surcharge per discharge or intake hose metre; available in lengths 2,5 to 10 m; please specify length on order!	97893-1

A close-up photograph of industrial machinery. The top part shows a smooth, metallic surface with a horizontal groove. Below this, four hexagonal bolts are visible, spaced evenly across the width. The bottom part of the image shows a darker, heavily textured surface, possibly a conveyor belt or a workpiece, with some faint markings. The lighting is dramatic, highlighting the metallic sheen and the texture of the lower surface.

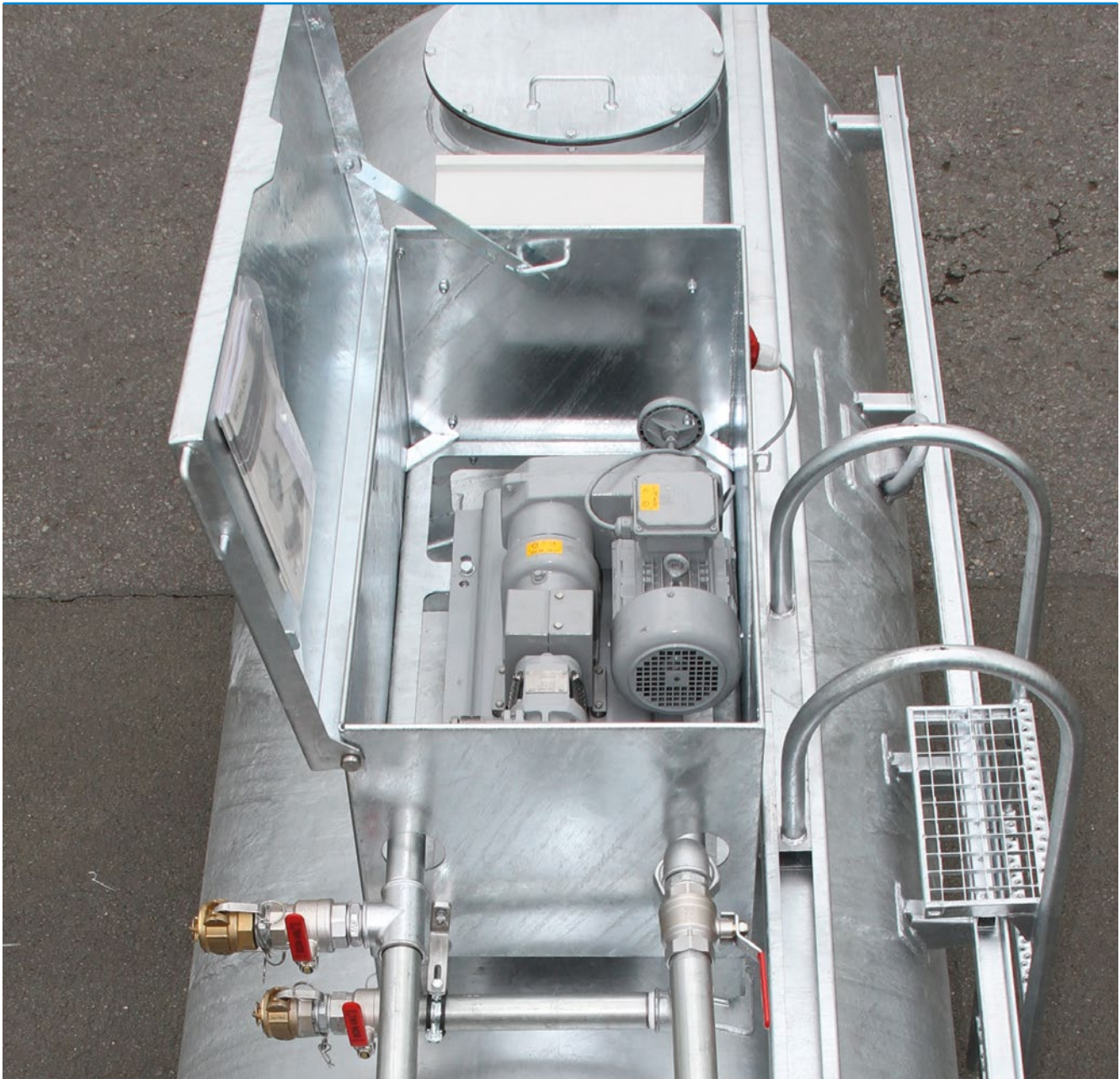
Rietbergwerke have decades of experience in the design of containers and surface treatment. Thanks to our flexible manufacturing structure and our competent and motivated employees, we are able to quickly react to special requirements.

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

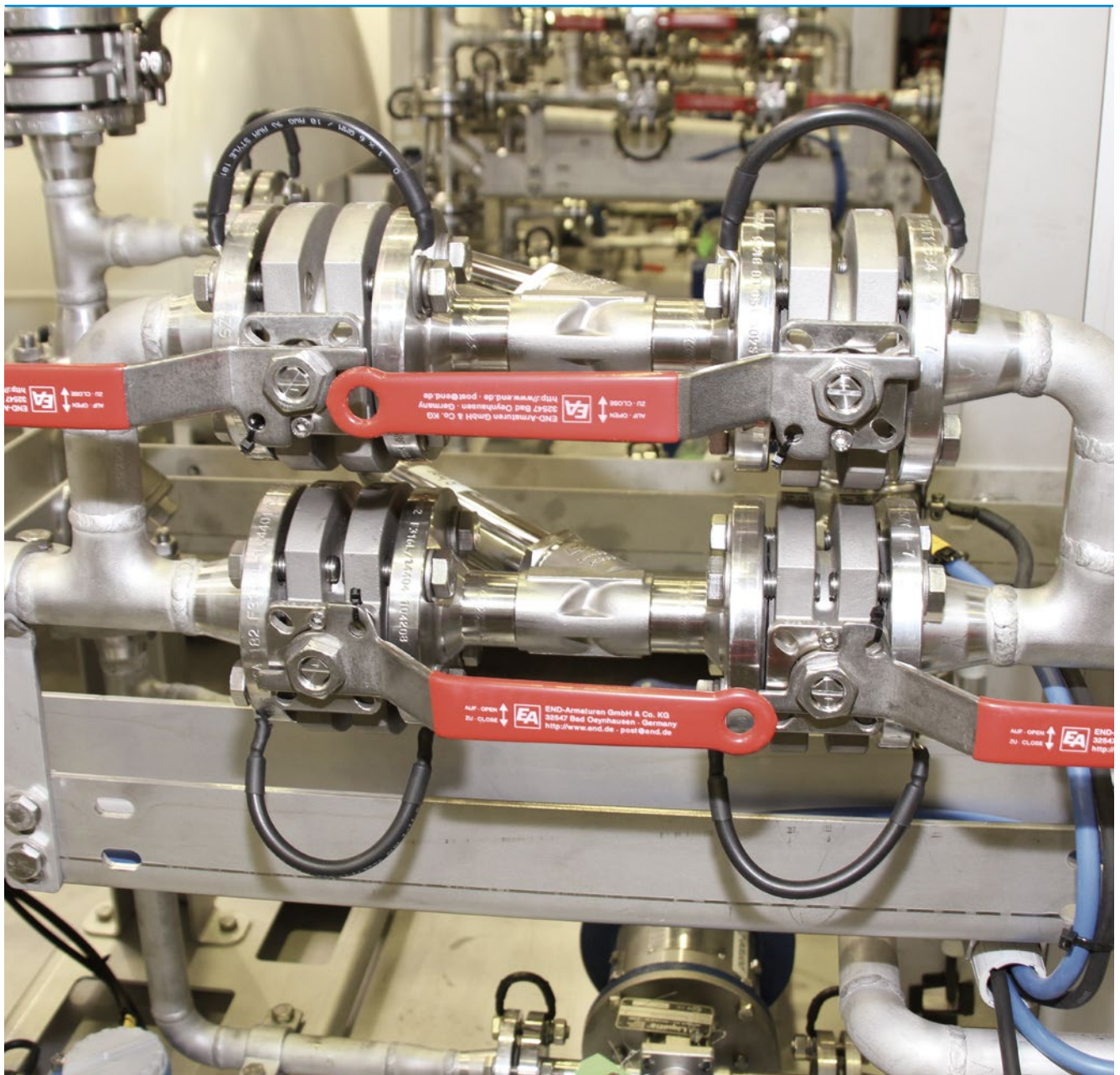
CUSTOMER-SPECIFIC SOLUTIONS





WASTE OIL COLLECTOR **AS-TP-SE 5000**

Collection container made from hot-dipped 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 combustible liquid with back up pump technology. Including pressure monitoring and circulation pipework.



MULTI TANK MT-ELH

Used by a German foil manufacturer for the ethanol supply. The storage container with a volume of 2000 litres is equipped with flame arrestor fittings, explosion protected control cabinet and suitable overfill safeguard.



MULTI TANK MT MOBILE

Mobile, in-house fresh oil supply for the use at a globally leading manufacturer for shredders and recycling technology. Equipped with a fresh dispensing pump including dispensing unit and a special support frame for moving the storage container with bridge cranes.



SPECIAL TANKS

DB

Rietbergwerke manufacture special tanks according to customer specifications including factory approval and according to AD 2000 datasheet HP0. The tanks are also available in single quantities or small series.

Applications include road marking machinery of a global manufacturer for example.



SPECIAL TANKS

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 lacquer.



FUEL SYSTEM KA 7500

Storage tank with a capacity of 7,500 litres stored in a maritime container. Thanks to reinforcements in the floor of the container, the system can be relocated in an empty state.

Since the system has been installed in a harbour, the version has been implemented with a corresponding level of ruggedness.

Relocation is required e.g. in the event of a possible flooding of the harbour area. The system has been 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 of down to -20°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, at a blowout of a gas pipeline. The connections on the dome cover are designed with flanges as requested by the customer.



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 drum according to EN 14208: 2004, for the transport of hydrogen fluoride. Equipped with gas cylinder valves according to DIN 477. In use at a global metal and plastic processor.

USE OUR SERVICE AND DOWNLOAD AREA



CONTAINER REGISTRATION



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REQUEST SPARE PARTS



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DOCUMENTATION



IBC EXPERTISE COURSE

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