

MOBILE TANKS 2024 / 2025



RIETBERGCONTAINER

Collection • Storage • Transport





Rietbergcontainer
Showroom

READY FOR THE DIGITAL REVOLUTION?

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





Self exploration



24/7 availability



Detailed depiction



Comprehensive services



Location-independent



360° exploration



Informative captions

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

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

01 TANK MANAGEMENT

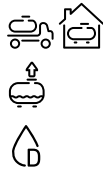


RIETBERG SMART FUEL (RSF)

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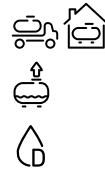
02 MOBILE REFUELLING STATIONS

Diesel tank systems



QUADRO-DV

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QUADRO-D

>> PAGE 26



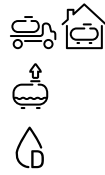
QUADRO-BLUE

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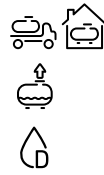
KC-K

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KC-S

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KC 995

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QUADRO-C-E

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CONTY-B

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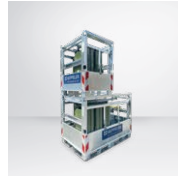
CONTY-ECO

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TRAILER

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CANISTRO

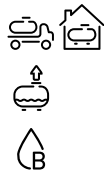
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EQUIPMENT DIESEL TANK SYSTEMS

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Petrol tank systems



QUADRO-DV 330

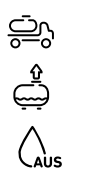
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CONTY-B 330

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AdBlue® tank systems



CONTY-BLUE

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SIMPLY-BLUE

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QUADRO-PLUS-BLUE

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Oil storage tanks



QUADRO-OEL

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Universal tanks



QUADRO-PLUS

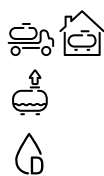
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QUADRO-GREEN

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03 MOBILE SUPPLY TANKS



QUADRO-AG

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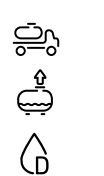
QUADRO-AG 2000

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QUADRO-TA 700

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KC-AG

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GROUP IBC EXPERTISE COURSE
















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



DATES, INFORMATION
AND REGISTRATION

LEGEND

General symbols

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

Approval symbols

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

Safety and information symbols

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



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RIETBERGCONTAINER. THE ORIGINAL!

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

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

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

Product innovation

Quick solutions for new requirements

Consulting competence.

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

Production and inspection of IBCs

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

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

Specialised company according to the German Federal Water Act

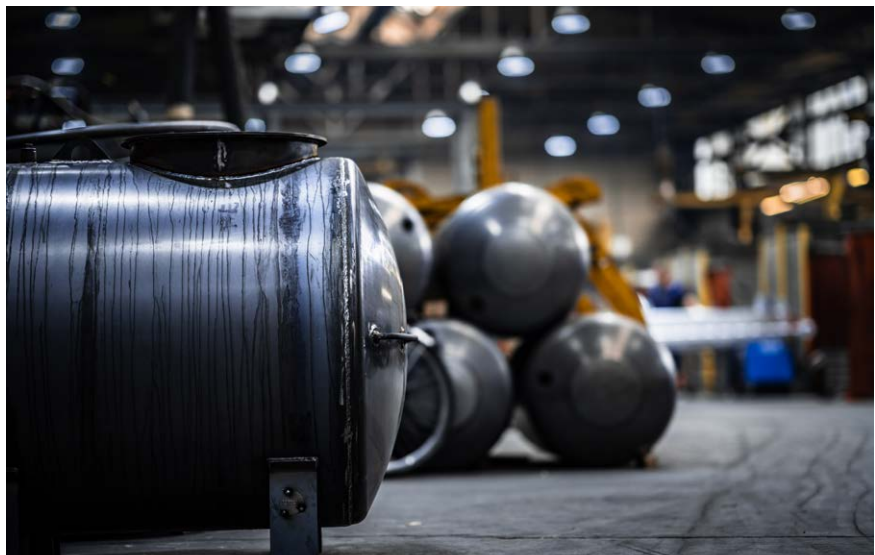
We are certified to carrying out work on systems to handle substances hazardous to water.

Competence and certification

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

Durability guarantee

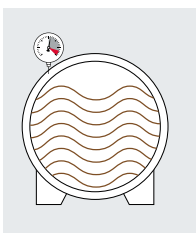
10-year guarantee on hot dip galvanized containers in appropriate applications according to intended use.





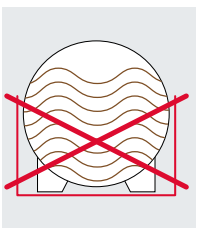
^
Welding – one of the main competences in our container technology. MMA, SAW, TIG, MAG/MIG welding

Rietberg containers – traditionally double-walled



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

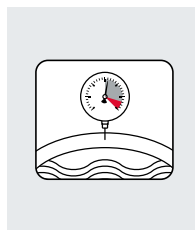
is designed as a monitoring space with an approved leakage indication system that ensures that both container walls are monitored at the same time. This way, a possible leakage can be detected and displayed before any fluid can leak and cause environmental damage.



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

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

Rietberg vacuum leakage indicator



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

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

Rietberg containers – traditionally hot dip galvanized

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

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

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

Rietberg containers – traditionally fitted ready for use

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



THE FUELS OF THE FUTURE

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

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

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

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



Reduced CO2 emissions

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



Flexibility

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



Legally compliant transportation and storage

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



High performance and efficiency

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



Simple integration and usage

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



Future-oriented technology

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



WEB-BASED CLOUD SYSTEM



DIESEL TANK SYSTEM



01 TANK MANAGEMENT



APP

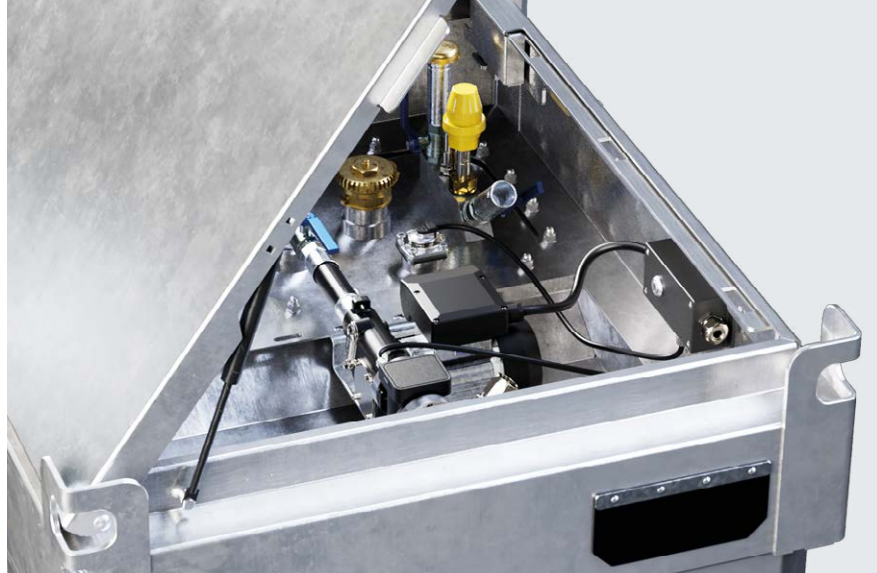
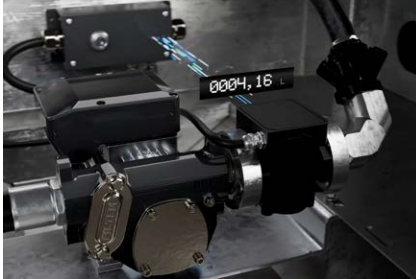


TANK DATA MANAGEMENT SYSTEM

RIETBERG SMART FUEL (RSF)



[DIESEL]



Flexibility

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

Easy to use

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

Clear data recording and evaluation

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

Authentication and warning system

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

Safe and reliable

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

Compact design

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



App Store



Google Play


Technical data

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

Services



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

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

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

02

MOBILE REFUELLING STATIONS



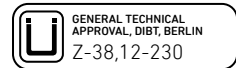




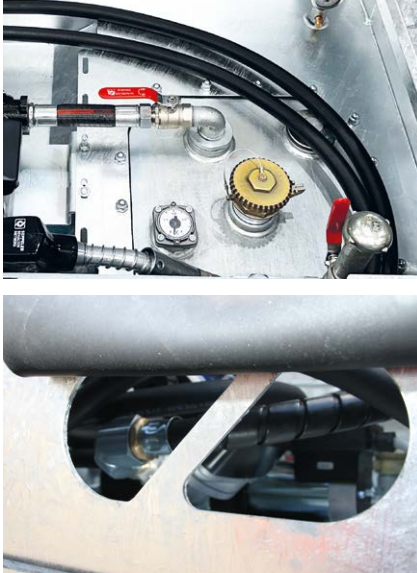
DIESEL
TANK SYSTEMS

DIESEL TANK SYSTEMS

QUADRO-DV



[DIESEL]



Legally compliant transportation and storage

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

Simple handling, cost-saving and reduced time

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

Space saving

- › Fuel container can also be stacked 3-fold when filled
- › EURO pallet dimensions¹

Durable and sustainable

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

Secure and safe transport

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

Convenient and safe operation

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

Increased anti-theft protection

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

¹ 1200 x 800 mm



Technical data

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

Available models

COMPLETE PACKAGE

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



- > Tank systems with diesel-urea combination can be found on P. 32
- > Tank systems for petrol can be found on P. 60, 64

1 Indicated nominal power of the manufacturer with free outlet

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



Accessories¹

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

¹ Cannot be combined with QUADRO complete packages

² Cannot be combined with the integrated hose reel

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

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



- > Tandem diesel pumps package can be found on P. 30
- > Additional pumps, flow meters and other equipment can be found from P. 53

Special models

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

SURFACE MODELS



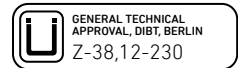
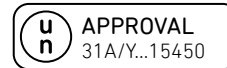
| Surface designation | Internal wall | External wall |
|--|--------------------|-------------------------------|
| Hot dip galvanized | Hot dip galvanized | Hot dip galvanized |
| Coated | Untreated | Coated |
| Coated stainless steel | Stainless steel | Coated |
| Hot dip galvanized with additional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

DIESEL TANK SYSTEMS

QUADRO-D



[DIESEL]



Legally compliant transportation and storage

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

Simple handling, cost-saving and reduced time

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

Space saving

- › Fuel containers can also be stacked 3-fold (up to 1,000 l) or 2-fold (2,000 – 3,000 l) when filled.
- › Pallet dimensions up to QUADRO-D 1000¹

Durable and sustainable

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

Secure and safe transport

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

Convenient and safe operation

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

Increased anti-theft protection

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

¹ 1200 x 800 or 1200 x 1000



Available models

STANDARD

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

COMPLETE PACKAGE

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



- > Tank systems with diesel-urea combination can be found on P. 32
- > Tank systems for petrol can be found on P. 60, 64

1 Indicated nominal power of the manufacturer with free outlet

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



Accessories¹

| Type | Description | Item no. |
|--|---|----------|
| Assembly kit | Comprising the following bracket for battery, 12 V / 85 Ah battery and battery charger: | 97719 |
| 12 V / 85 Ah battery | Battery bracket: Full steel, hot dip galvanized, for secure mounting of the battery in a QUADRO; maximum battery dimensions; L x W x H = 350 x 180 x 236 mm | 98043 |
| | 12 V / 85 Ah battery: High power 12 V/85 Ah (20h) gel battery, 950 Wh, maintenance-free, cold start current (EN): 450 A, flashback and leakage-proof, internal gas return line, low self-discharge, long service life, temperature-resistant, high vibration resistance and safety against tilting; L x W x H: 330 x 171 x 236 mm, weight: 30 kg | 45747 |
| | 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 |
| 24 V / 85 Ah battery ² | Battery bracket: Full steel, hot dip galvanized, for secure mounting of the battery in a QUADRO; maximum battery dimensions; L x W x H = 350 x 180 x 236 mm | 300704 |
| | 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 |
| 12 V / 85 Ah battery box NEW | Battery box made of hot dip galvanized steel, for suspending a battery on a QUADRO-D. Not for use during transportation on public roads | 516031 |
| Suction line & return line | Special dome lid with additional suction pipe with ½" male fitting shut-off stop cock and additional return pipe with ½" male fitting shut-off stop cock | 508532 |
| External hose reel | Hose reel with NW25 x 15 m hose, spring return and outlet window; incl. mounting material and pump connection hose | 98044 |
| | Hot dip galvanized steel bracket for secure mounting of a hose reel on a KA diesel fuel storage tank | 300728 |

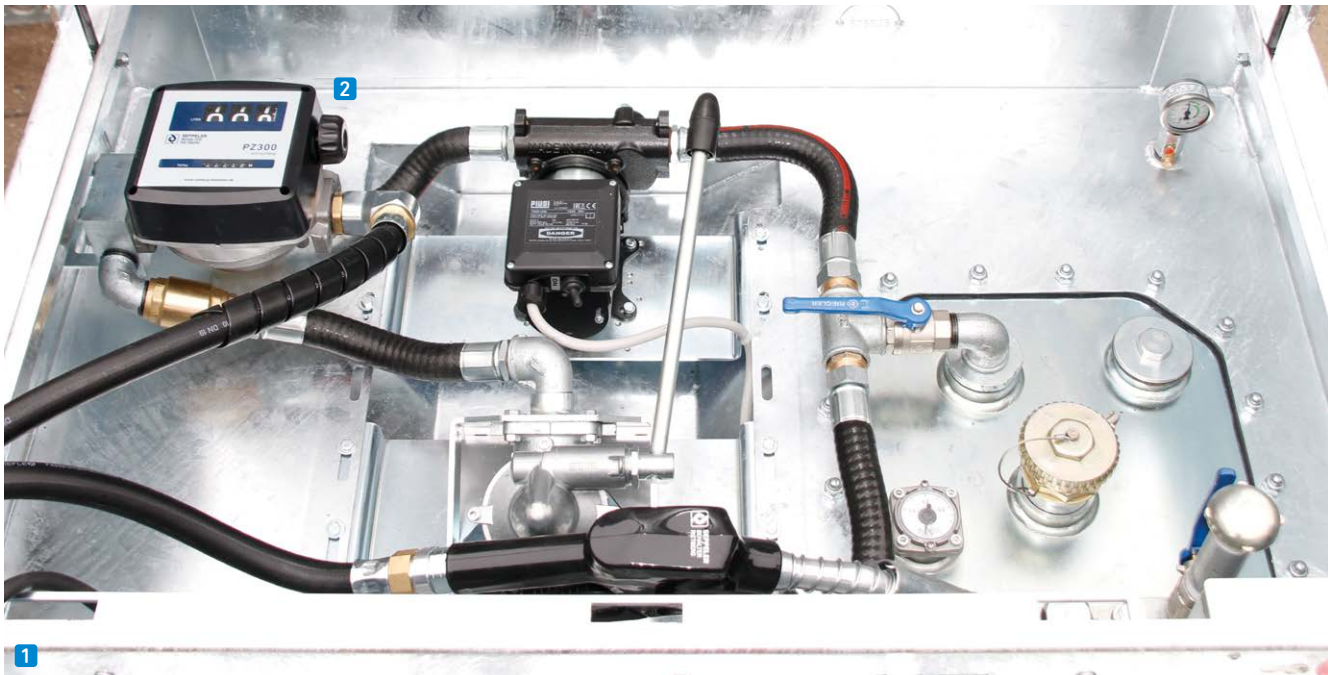
¹ Cannot be combined with QUADRO complete packages

² In combination with the integrated hose reel only on QUADRO-D 1000



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

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

TANDEM DIESEL PUMPS PACKAGE¹

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

1 Cannot be combined with the integrated hose drum and battery

2 Indicated nominal power of the manufacturer with free outlet

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



Additional pumps, flow meters and other equipment can be found from P. 53.

Special models

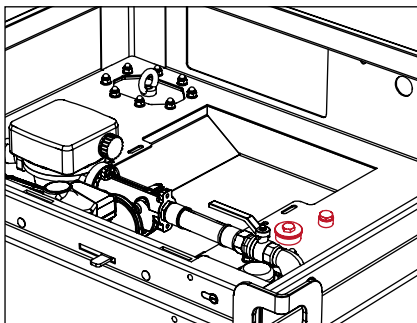
For optimum response to customer requests, QUADRO-D offers a variety of optional special models:

SURFACE MODELS



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

BUSHINGS



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



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

DIESEL TANK SYSTEMS

QUADRO-BLUE

[DIESEL & ADBLUE®]



Legally compliant transportation and storage

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

Simple handling, cost-saving and reduced time

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

Space saving

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

Durable and sustainable

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

Secure and safe transport

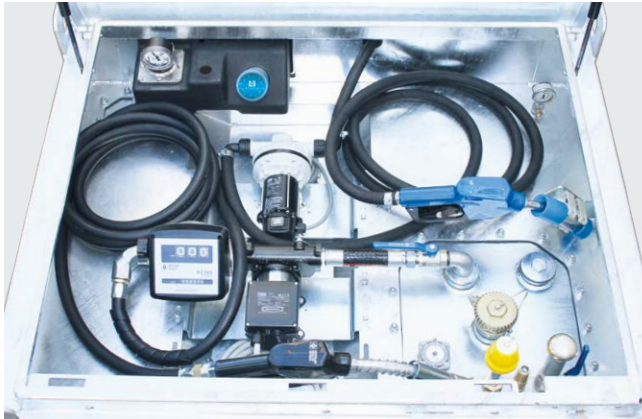
- › Ventilation pipe with shut-off ball valve
- › Suction pipe with shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

Convenient and safe operation

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

Increased anti-theft protection

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



Available models

STANDARD

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

COMPLETE PACKAGE

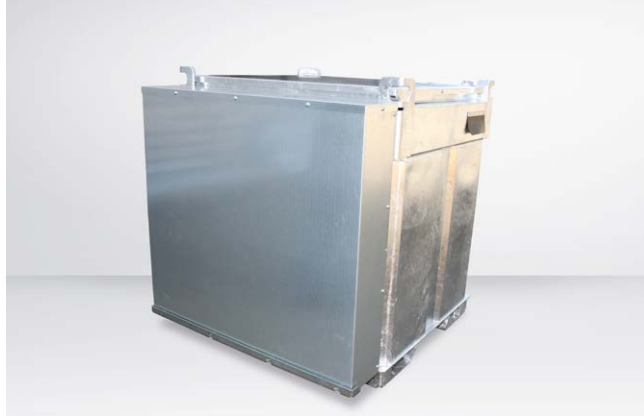
| Type / Capacity | Description | Flow-rate [l/min] | | Item no. |
|--------------------------|--|----------------------|------------------------|----------|
| | | Nominal ¹ | Effective ² | |
| QUADRO-BLUE 450-12/24 | Complete package equipped with diesel fittings : 12/24 V pump, 6 m connection cable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

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

1 Indicated nominal power of the manufacturer with free outlet

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

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



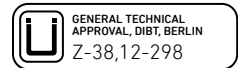
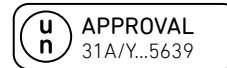
Accessories

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

DIESEL TANK SYSTEMS

KC-K

[DIESEL]



Legally compliant transportation and storage

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

Simple handling, cost-saving and reduced time

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

Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours are possible)
- › Explosion-pressure resistant¹
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

Secure and safe transport

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

Convenient and safe operation

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

Increased anti-theft protection

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

¹ The containers are designed to withstand an explosion on the inside.



Available models

STANDARD

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

COMPLETE PACKAGE

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

Accessories

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



Pumps, flow meters and additional equipment can be found from P. 53.

1 Indicated nominal power of the manufacturer with free outlet

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

DIESEL TANK SYSTEMS

KC-S



[DIESEL]



Legally compliant transportation and storage

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

Simple handling, cost-saving and reduced time

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

Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours are possible)
- › Explosion-pressure resistant¹
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

Secure and safe transport

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

Convenient and safe operation

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

Increased anti-theft protection

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

¹ The containers are designed to withstand an explosion on the inside.



Available models

STANDARD

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

COMPLETE PACKAGE

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



Pumps, flow meters and additional equipment can be found from P. 53.

1 Height including swing door cabinet

2 Indicated nominal power of the manufacturer with free outlet

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

DIESEL TANK SYSTEMS

KC 995

[DIESEL]



Legally compliant transportation and storage

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

Simple handling, cost-saving and reduced time

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

Durable and sustainable

- › Manufactured entirely of steel
- › Decades of corrosion protection by utilising high-quality hot dip galvanizing (inside and outside)
- › When requested, can be delivered untreated on the inside, coated on the outside (all RAL colours are possible)
- › Explosion-pressure resistant¹
- › Spiral flex sheathing and angular swivel joint on hose connection prevents kinking on the hose

Secure and safe transport

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

Convenient and safe operation

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

Increased anti-theft protection

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

¹ The containers are designed to withstand an explosion on the inside.



Available models

STANDARD

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

COMPLETE PACKAGE

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



Pumps, flow meters and additional equipment can be found from P. 53.

1 Height including swing door cabinet

2 Indicated nominal power of the manufacturer with free outlet

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

DIESEL TANK SYSTEMS

QUADRO-C-E

[DIESEL]



Legally compliant transportation

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

Simple handling, cost-saving and reduced time

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

Space saving

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

Durable and sustainable

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

Secure and safe transport

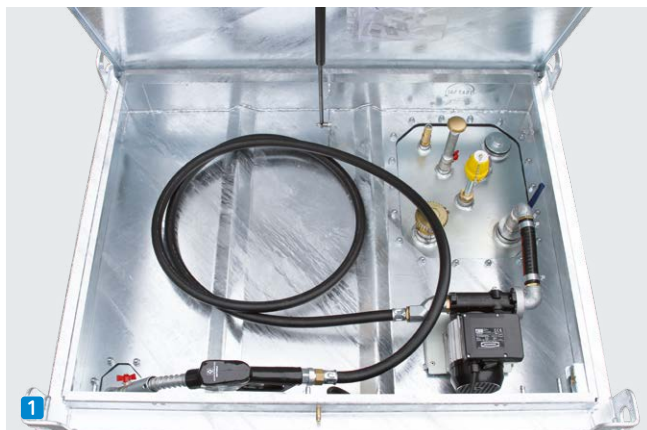
- › Ventilation pipe with shut-off ball valve
- › Suction pipe with shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

Convenient and safe operation

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

Increased anti-theft protection

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



Available models

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



Pumps, flow meters and additional equipment can be found from P. 53.

1 Equipment: R50 230 pump, fill limit indicator

DIESEL STORAGE TANKS

CONTY-B

[DIESEL]



Legally compliant transportation

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

Simple handling, cost-saving and reduced time

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

Space saving

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

Durable and sustainable

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

Secure and safe transport

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

Convenient and safe operation

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

Increased anti-theft protection

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



Technical data

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

Available models

COMPLETE PACKAGE

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

Accessories

FLOW METERS

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

2 Available as an option

1 Indicated nominal power of the manufacturer with free outlet

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

DIESEL TANK SYSTEMS

CONTY-ECO

[DIESEL]



Legally compliant transportation

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

Simple handling, cost-saving and reduced time

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

Space saving

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

Durable and sustainable

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

Secure and safe transport

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

Convenient and safe operation

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

Increased anti-theft protection

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



Technical data

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

Available models

COMPLETE PACKAGE

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

Accessories

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

1 Indicated nominal power of the manufacturer with free outlet

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

TANK TRAILER TRAILER



Simple handling, cost-saving and reduced time

- › Maintenance-free rubber spring axles

Space saving

- › Wheels on the outside

Durable and sustainable

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

Safety

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

Convenient and safe operation

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



QUADRO-DV/-D/-BLUE fuel containers suitable for the TRAILER can be found on P. 22 – 32.



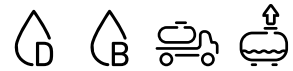
Available models

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

Accessories

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

TRANSPORT PALLET CANISTRO



[DIESEL & PETROL]



Legally compliant storage

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

Simple handling, cost-saving and reduced time

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

Space saving

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

Durable and sustainable

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

Secure and safe transport

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

Convenient and safe operation

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



Technical data

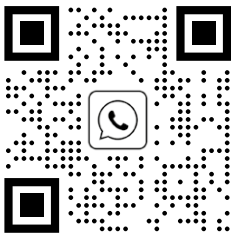
| Type / Capacity | Dimensions [mm] | | | Weight [kg] | Description | Art. Art. |
|----------------------------|-----------------|-----|-----|-------------|---|-----------|
| | L | W | H | | | |
| CANISTRO 100 NEW | 800 | 600 | 915 | 140 | 5 jerry cans of 20 l each | 516028 |
| CANISTRO 220 NEW | 1200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

Accessories

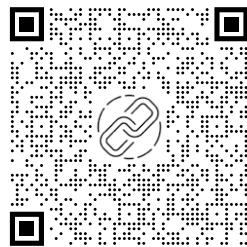
| Type | Description | Item no. |
|------------------------------|---|----------|
| Fuel canister 20 l | Jerry can, coated, olive green RAL 6003 Welded design. Secure seal. With split pin securing device. TÜV-/UN-approved. Suitable for liquid fuels. Capacity 20 l; L x W x H 345 x 165 x 468 mm; Weight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



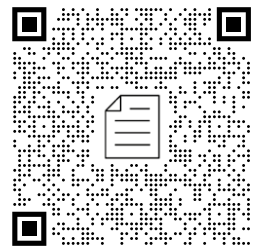
RIETBERG CONTAINERS SERVICE:



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MAINTENANCE CONTRACT
CONCLUDE

EQUIPMENT DIESEL TANK SYSTEMS

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

Pumps

ELECTRIC PUMPS FOR DIESEL



Design:

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

Scope of delivery:

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

| Type | Delivery rate [l/min] | | Voltage [V] | Special features | Hose | Item no. |
|-----------|-----------------------|------------------------|-------------|---|------|----------|
| | Nominal 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 1m and equipped with 4 m discharge hose and automatic discharge nozzle

TANDEM DIESEL PUMPS PACKAGE¹

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



Additional pumps, flow meters and other equipment can be found from P. 53.

MANUAL PUMPS FOR DIESEL



Design:

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

Scope of delivery:

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

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

FLOW METERS

Pump accessories

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

1 Indicated nominal power of the manufacturer with free outlet

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

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

FUEL DATA RECORDING FOR DIESEL



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

| Type | Description | Item no. |
|-----------|---|----------|
| RSF 12/24 | The tank data management system can be operated with both 12/24 V and combined with corresponding dispensing pumps up to a maximum of 30 A. More information and accessories on P. 16 | 510708 |
| RSF 230 | The tank data management system can be operated with 230 V direct current and combined with corresponding dispensing pumps up to a maximum of 30 A. More information and accessories on P. 16 | 510709 |

DISCHARGE HOSES

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

AUTOMATIC DISCHARGE NOZZLES



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

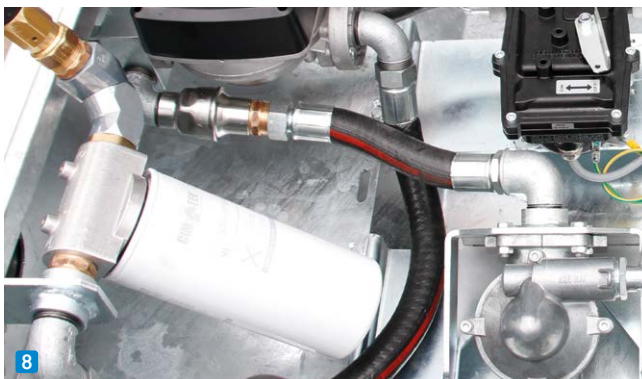


DIRECT CURRENT CONNECTIONS (ONLY IN CONNECTION WITH DIESEL PUMPS)



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

FILTER



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





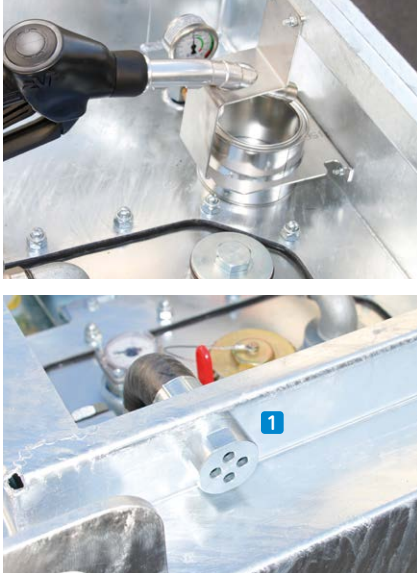
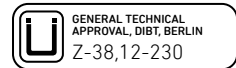
B PETROL
TANK SYSTEMS

PETROL TANK SYSTEMS

QUADRO-DV 330



[PETROL]



Legally compliant transportation and storage

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

Simple handling, cost-saving and reduced time

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

Space saving

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

Durable and sustainable

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

Secure and safe transport

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

Convenient and safe operation

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

Increased anti-theft protection

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



QUADRO-DV 330 for petrol are equipped with flame-proof fittings as standard for your safety¹. This prevents flames, which could trigger an explosion, from entering the containers (German Technical Regulations on Industrial Safety BetrSichV, TRGS and TRBS).

Technical data

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



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

Available models

COMPLETE PACKAGE

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



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

Accessories




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

FLOW METERS



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

 Tank systems for petrol and tandem pumps available on request.

DISCHARGE HOSES & HOSE REELS

| Type | Description | NW19 |
|------------------------------|--|--------|
| Hose reel | Hose reel, explosion-protected, with 10 m electrically conductive hose NW 19, spring return and outlet window; including fixing material and connection hose to pump | 512449 |
| Bracket for petrol hose reel | Hot dip galvanized steel bracket for secure mounting of a hose reel on a QUADRO-DV petrol tank system | 300728 |

FILTER

| Type | Description | Item no. |
|-----------------------|--|----------|
| Fuel filter | 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 |
| Grounding package | Earthing clamps for controlled grounding and discharging static charge from containers, for application in areas at risk of explosion, incl. 2.50 m grounding cable, fitted on the container ready for use | 500260 |

PETROL TANK SYSTEMS

CONTY-B 330

[PETROL]



Legally compliant transportation

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

Simple handling, cost-saving and reduced time

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

Space saving

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

Durable and sustainable

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

Secure and safe transport

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

Convenient and safe operation

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

Increased anti-theft protection

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



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

Technical data

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

Available models

COMPLETE PACKAGE

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



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

Accessories

POWER CONNECTION

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

FLOW METERS

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

1 Indicated nominal power of the manufacturer with free outlet

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





AUS AdBlue®
TANK SYSTEMS

ADBLUE® TANK SYSTEMS

CONTY-BLUE



[ADBLUE®]



Simple handling, cost-saving and reduced time

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

Space saving

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

Durable and sustainable

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

Secure and safe transport

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

Convenient and safe operation

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

Increased anti-theft protection

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



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

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



Technical data

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

Available models

COMPLETE PACKAGE

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

Accessories

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

¹ Similar to illustration

¹ Indicated nominal power of the manufacturer with free outlet

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

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

ADBLUE® TANK SYSTEMS

SIMPLY-BLUE



[ADBLUE®]



Simple handling, cost-saving and reduced time

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

Space saving

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

Durable and sustainable

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

Secure and safe transport

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

Convenient and safe operation

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

Easy and safe to lash down

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

Increased anti-theft protection

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



Technical data

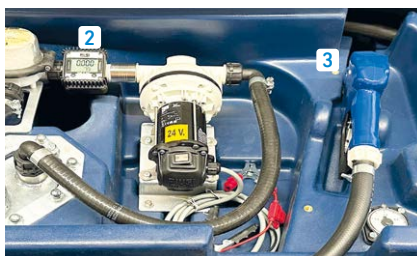
| Type / Capacity | Dimensions [mm] | | | Weight [kg] |
|-----------------|-----------------|-----|-----|-------------|
| | L | W | H | |
| SIMPLY-BLUE 400 | 1070 | 790 | 740 | 31 |

Available models

COMPLETE PACKAGE

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

Accessories



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

¹ Indicated nominal power of the manufacturer with free outlet

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

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

ADBLUE® TANK SYSTEMS

QUADRO-PLUS-BLUE

[ADBLUE®]



Legally compliant transportation and storage

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

Simple handling, cost-saving and reduced time

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

Space saving

- › Fuel container can also be stacked 3-fold when filled
- › Pallet dimensions¹

Durable and sustainable

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

Secure and safe transport

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

Convenient and safe operation

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

Increased anti-theft protection

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

¹ 1200 x 800 or 1200 x 1000

¹ Figures are similar

Technical data

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

Available models

COMPLETE PACKAGE

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

Accessories

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

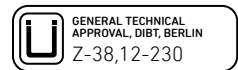
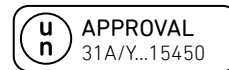




TANK SYSTEMS

OIL TANK SYSTEMS

QUADRO-OEL



[OILS]



Legally compliant transportation and storage

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

Simple handling, cost-saving and reduced time

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

Space saving

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

Durable and sustainable

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

Secure and safe transport

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

Convenient and safe operation

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

Increased anti-theft protection

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



Additional sizes and designs available on request.



Available models

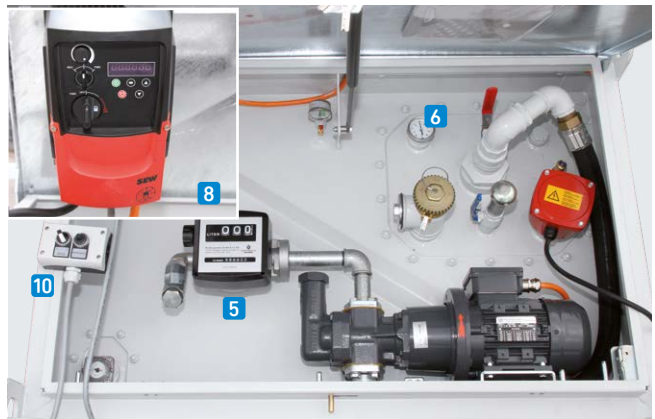
| Type / Capacity | Dimensions [mm] | | | Weight [kg] | Approval | Coated |
|-----------------|-----------------|------|------|-------------|--------------------------------|----------|
| | L | W | H | | | Item no. |
| QUADRO-OEL 330 | 800 | 1200 | 807 | 219 | D/BAM/15450/31A // Z-38,12-230 | 506298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



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

Accessories

PUMPS



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

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

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

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

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



Flow meters with higher viscosities are available on request.



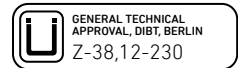
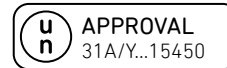


UNIVERSAL STORAGE TANKS

UNIVERSAL STORAGE TANKS

QUADRO-PLUS

[E-FUELS, BIO-DIESEL]



Legally compliant transportation and storage

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

Simple handling, cost-saving and reduced time

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

Space saving

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

Durable and sustainable

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

Secure and safe transport

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

Convenient and safe operation

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

Increased anti-theft protection

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



Available models

STANDARD

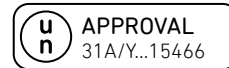
| Type / Capacity | Dimensions [mm] | | | Weight [kg] | Approval | Item no. |
|--------------------------------|-----------------|------|------|-------------|---------------------------------|----------|
| | L | W | H | | | |
| QUADRO-PLUS 330 NEW | 1200 | 800 | 807 | 219 | D/BAM 15600/1A2W Z-38,12-230 | 510506 |
| QUADRO-PLUS 450 NEW | 1200 | 800 | 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 |

1 Figures are similar

UNIVERSAL TANK SYSTEMS

QUADRO-GREEN

[ETHANOL, METHANOL, ADBLUE® ETC.]



Legally compliant transportation and storage

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

Simple handling, cost-saving and reduced time

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

Space saving

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

Durable and sustainable

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

Secure and safe transport

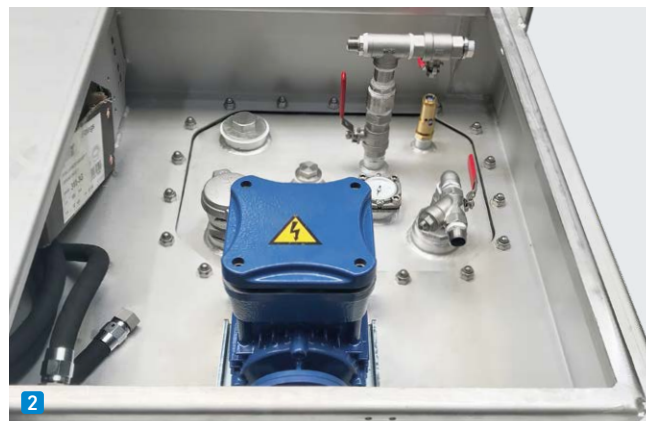
- › Ventilation pipe with shut-off ball valve
- › Suction pipe with shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

Convenient and safe operation

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

Increased anti-theft protection

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



Technical data

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

Available models

MATERIAL VERSIONS

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



All sizes and designs available on request.

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



IMPORTANT LEGAL REGULATIONS FOR MOBILE REFUELLING STATIONS

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

National:

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

International

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

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

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

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

PACKAGING AND IBC

Approval and type testing

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



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

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

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

1 2 3 4 5 6 7 8

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

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

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

1 2 3 4 5 6 7

- Manufactured, tested and approved according to UN packaging regulations

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

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

Marking

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

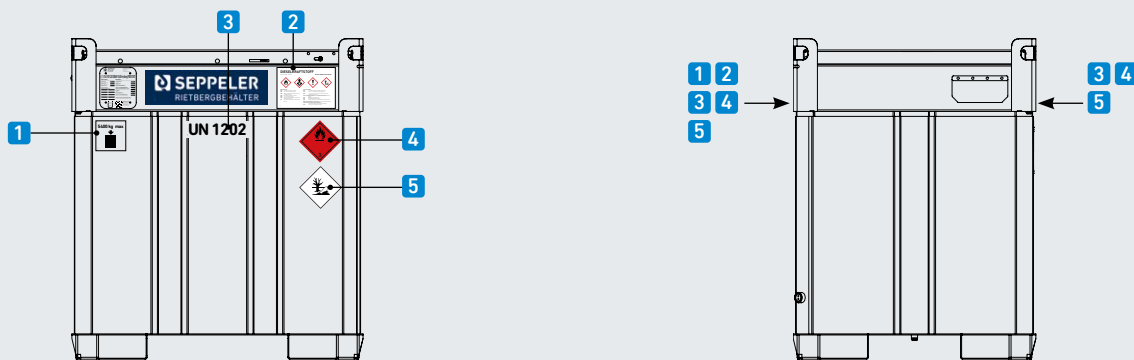
- > The UN no. of the transported substance (e.g. diesel: UN 1202)
- > The marking for environmentally hazardous substances (fish and tree, black on white surface)
- > Hazard label (e.g. diesel: no. 3, flame, black or white on red surface)

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

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



Exemplary illustration for the identification marking on an IBC for diesel



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



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

Inspections and testing

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

INSPECTION AFTER 2 ½ YEARS

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

Scope of inspection:

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

INSPECTION AFTER 5 YEARS

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

Scope of inspection:

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



For packaging, no repeat inspections are required.



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

The inspections can be additionally documented in the service plan.

Simplified transport

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

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

is not exceeded.

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

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

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

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

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

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

TRADESPERSON REGULATION

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

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

What does that mean?

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

Paragraph 1-6.1

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

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

Paragraph 1-6.2

Intermediate supplies for tank systems do not fall under the

exemption regulation of subsection 1.1.3.1 c).

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

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

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

Notes on the use of the different container types can be found on page 90.

STATIONARY USAGE

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

WAYBILL

What is a waybill?

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

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

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

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

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

MOBILE REFUELLING STATIONS

FUELLING ANYWHERE AND AT ANY TIME!

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

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

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

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

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

are **either**

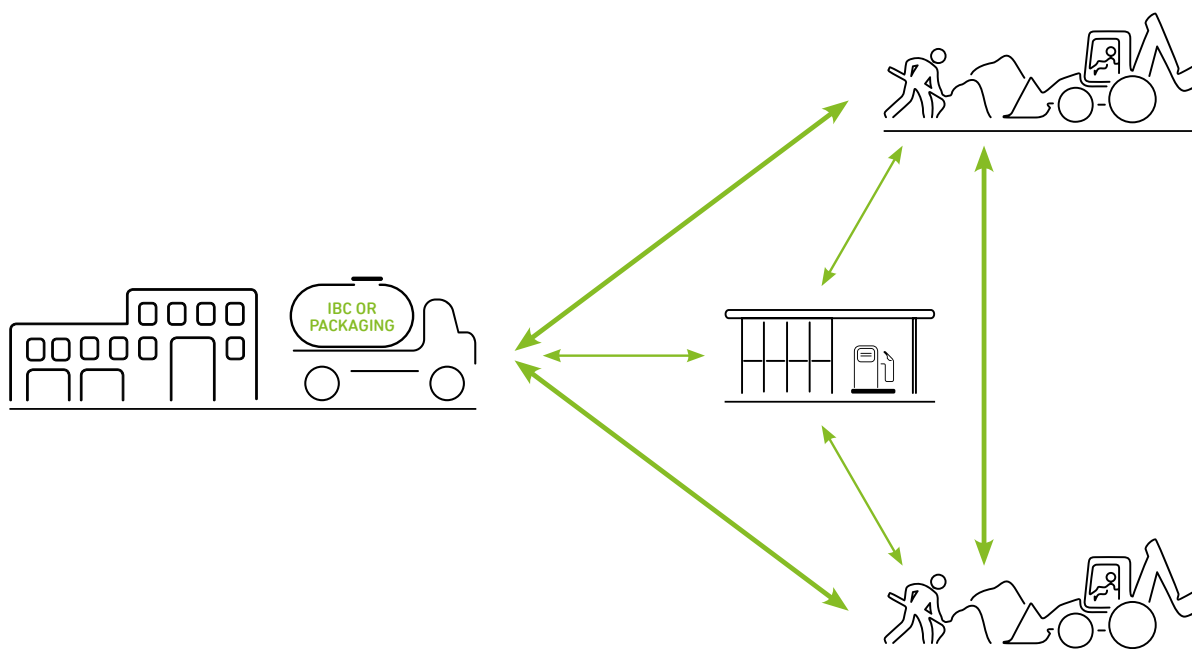
- › made of steel like all Rietberg tank systems and type-tested and have a UN approval as IBCs (code:UN 31A...) or packaging (code UN 1A1 or 1A2...), i.e. transport containers for hazardous goods and can therefore be used **universally and without any time limits or**
- › they are type-tested and UN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

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

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

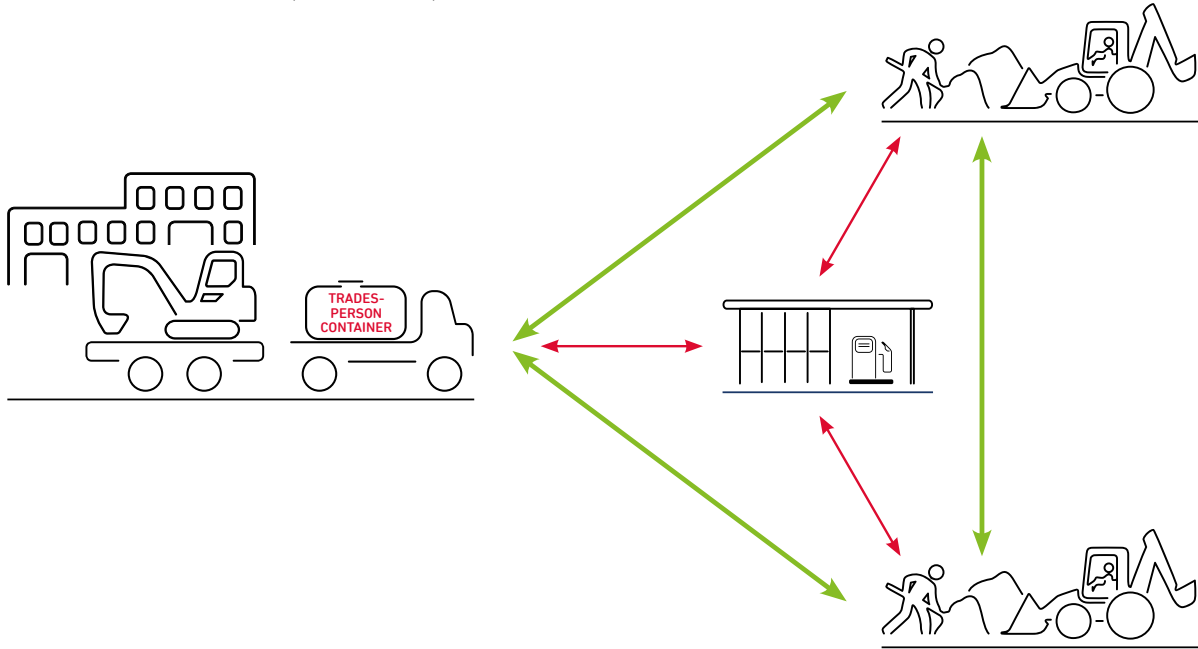
All Rietberg tanks systems with approval as **IBCs or packaging** can be universally utilised and may therefore be used for all operations which might be necessary for mobile fuelling. Neither the supply of multiple construction sites nor the drive to

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



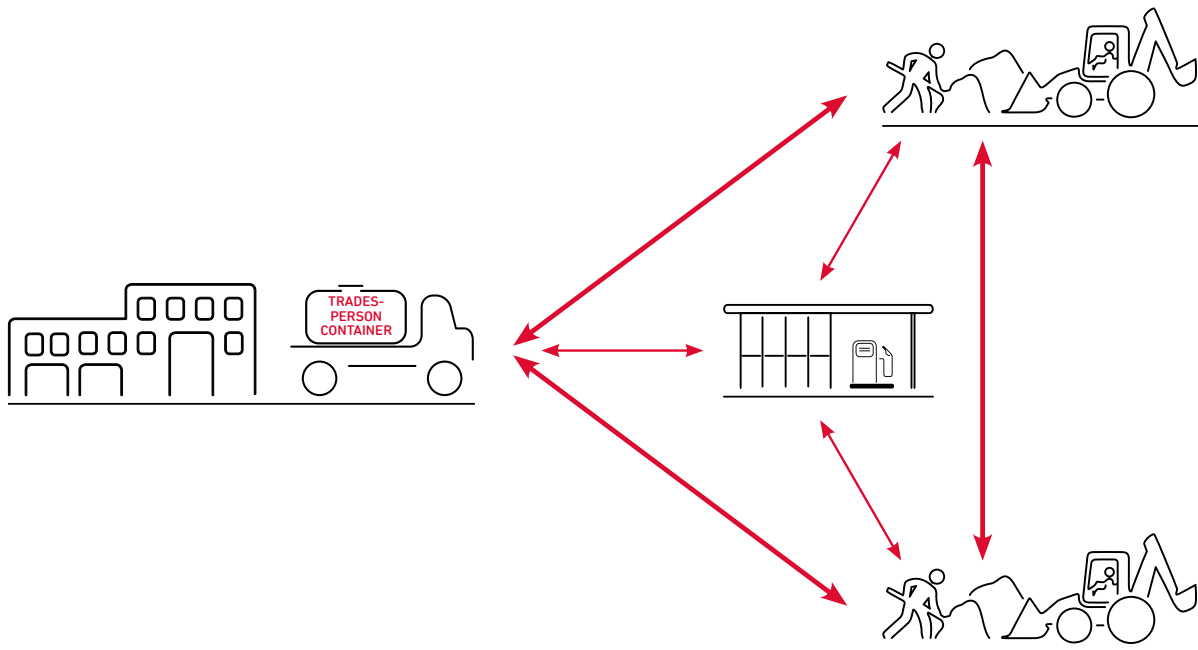
Containers according to the so-called tradesperson regulations have not been officially tested and do **not** have **UN transport approval**. Their use for the transport of hazardous substances is only permitted within the scope of the exemption rule ADR 1.1.3.1 c). There is an exception for companies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

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



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

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



MOBILE FUELLING IS NOT DIFFICULT IF DONE RIGHT!



Further legal framework conditions for mobile refuelling stations can be found starting on this p. 86.

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

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

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

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

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

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



03

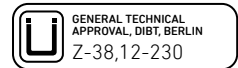
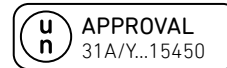
MOBILE SUPPLY TANKS



HEATING OIL SUPPLY TANKS

QUADRO-AG

[DIESEL]



Legally compliant transportation and storage

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

Simple handling, cost-saving and reduced time

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

Space saving

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

Durable and sustainable

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

Secure and safe transport

- › Ventilation pipe with shut-off ball valve
- › Suction pipe with ½" male fitting shut-off ball valve
- › Closed base construction for safe fork-lift truck transportation
- › 4 crane lifting lugs for safe and secure crane transport according to DGUV Information Sheet 209-013

Convenient and safe operation

- › Lateral opening for hose pipes and/or power cable in case of closed container
- › Easy and safe to lash down
- › Storage space can still be accessed even when the container is lashed down
- › Continuous, mechanical and easily readable fuel gauge
- › 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



Available models

STANDARD

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



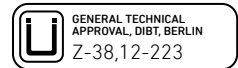
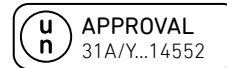
Accessories can be found on P. 98.

1 QUADRO-AG 2000 with dimensions (L x W x H) 2215 x 815 x 1620 mm can be found on P. 96

HEATING OIL SUPPLY TANKS

QUADRO-AG 2000

[DIESEL]



Legally compliant transportation and storage

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

Simple handling, cost-saving and reduced time

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

Space saving

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

Durable and sustainable

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

Secure and safe transport

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

Convenient and safe operation

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

Increased anti-theft protection

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



Available models

STANDARD

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

Accessories

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



Accessories can be found on P. 98.

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



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

HOSE LINE SETS



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

HEATING OIL SUPPLY TANKS

KC-AG

[DIESEL]



Legally compliant transportation and storage

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

Simple handling, cost-saving and reduced time

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

Space saving

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

Durable and sustainable

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

Secure and safe transport

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

Convenient and safe operation

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

Increased anti-theft protection

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



Available models

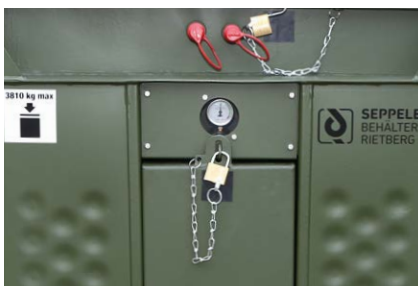
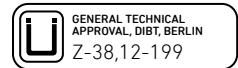
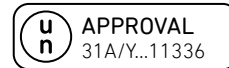
| Type / Capacity | Description | Dimensions [mm] | | | Weight (kg) | Approval | Item no. |
|---------------------------|---|-----------------|------|------|-------------|---------------|----------|
| | | L | W | H | | | |
| KC-AG 5500-1 | 1 Cannot be stacked, ladder on the side or front | 2940 | 1900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

Accessories

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

UNIVERSAL SUPPLY TANK QUADRO-TA 700

[PETROL, DIESEL & KEROSENE]



Legally compliant transportation and storage

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

Simple handling, cost-saving and reduced time

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

Space saving

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

Durable and sustainable

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

Secure and safe transport

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

Convenient and safe operation

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

Increased anti-theft protection

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

Available models

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



Minimum order quantity 25 units

Accessories

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



IMPORTANT LEGAL REGULATIONS FOR MOBILE TANKS

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

National:

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

International

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

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

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

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

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

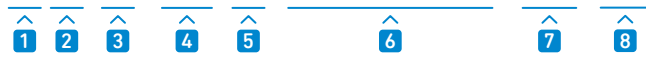
IBC

Approval and type testing

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

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

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



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

Labelling

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

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

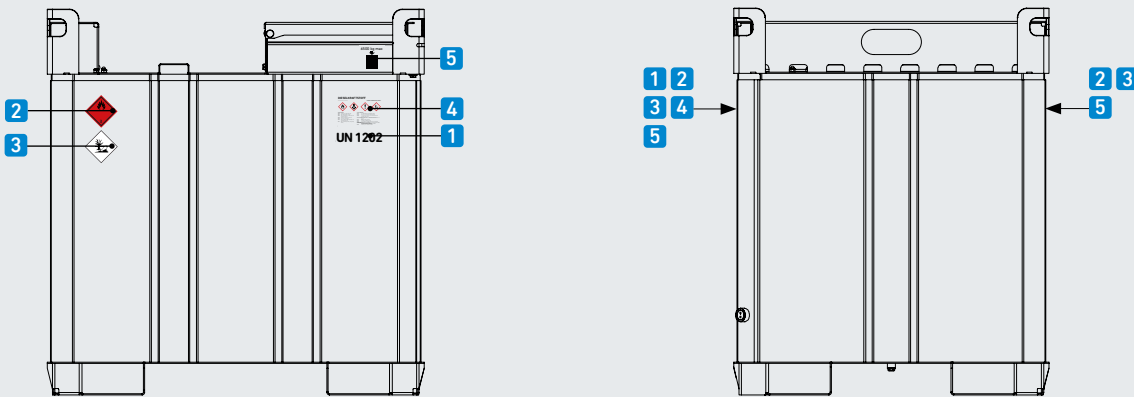
The specified markings have to be attached on two opposite sides of IBCs with a capacity of more than 450 litres and on one side of smaller packaging.

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

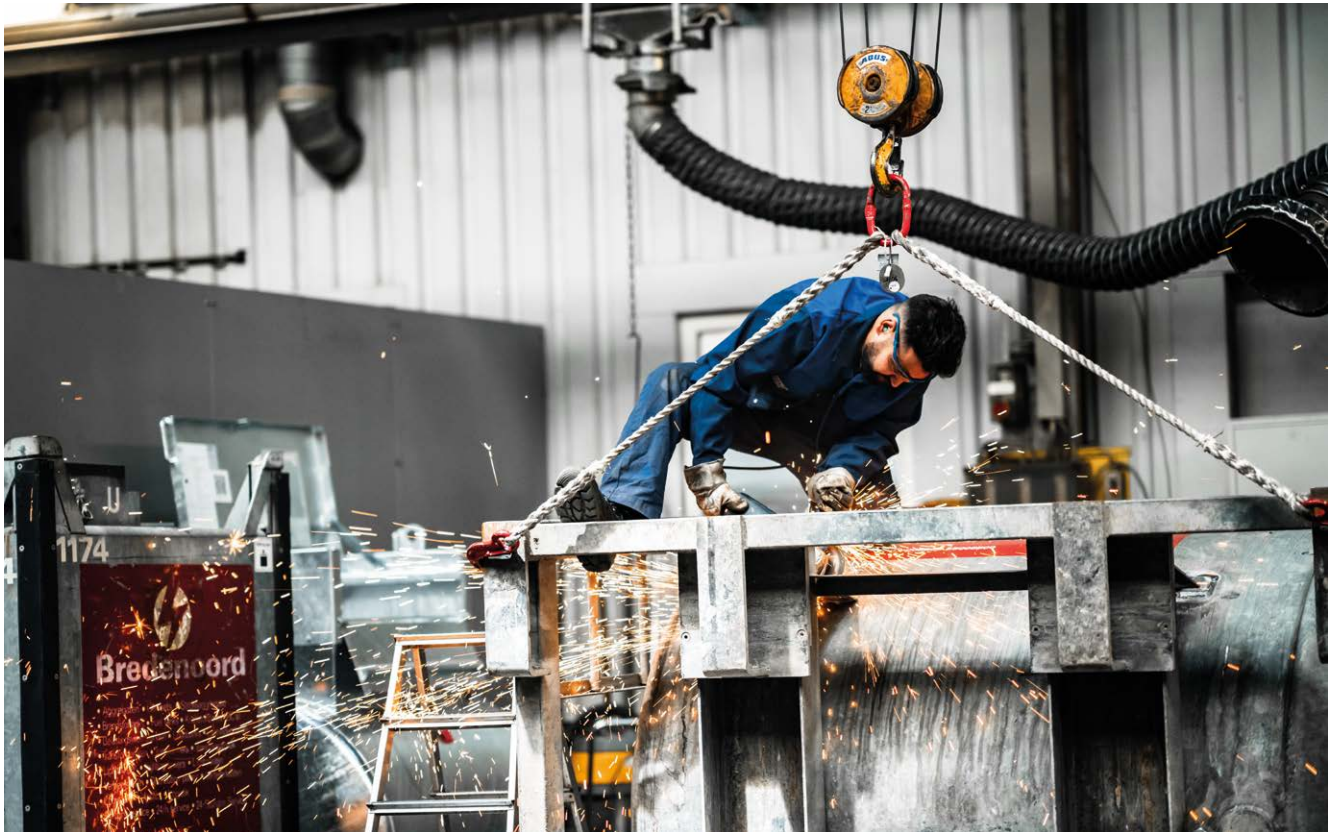
In addition to the container, we provide a set of adhesive labels for initial marking.

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

Exemplary illustration for the identification marking on an IBC for diesel



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



^

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

Inspections and testing

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

INSPECTION AFTER 2½ YEARS

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

Scope of inspection:

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

INSPECTION AFTER 5 YEARS

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

Scope of inspection:

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



For packaging, no repeat inspections are required.



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

Simplified transport

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

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

is not exceeded.

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

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

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

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

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

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

STATIONARY USAGE

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

WAYBILL

What is a waybill?

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

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

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

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

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

TANK CONTAINER

Type testing and approval

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

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

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

Labelling

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

L 2.65 D H
 1 2 3 4

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

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

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

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

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



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

Inspections and testing

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

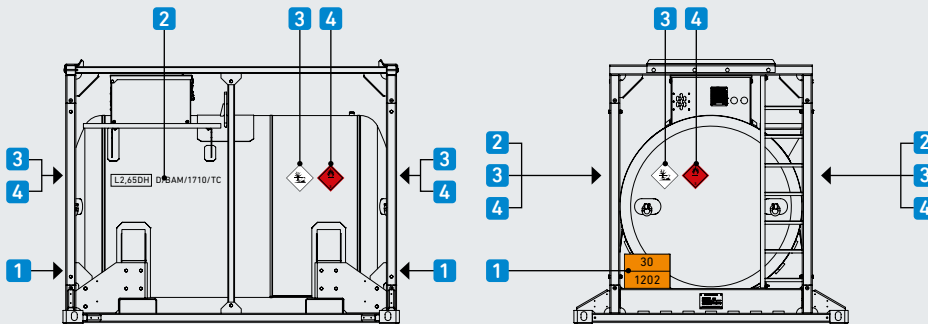
- > Water pressure leakage testing with an overpressure according to the approval
- > Inspection on the inside and
- > Functional check of all equipment components

Transport

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

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

Exemplary illustration for the identification marking of a tank container



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

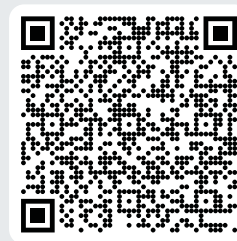
USE OUR SERVICE AND DOWNLOAD AREA



CONTAINER REGISTRATION



RIETBERGCONTAINER
SERVICE



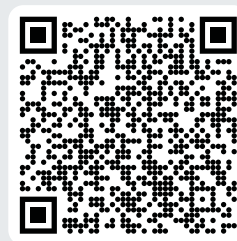
REQUEST INSPECTION
CERTIFICATE (COPY)



REQUEST SPARE
PARTS



VIEW/REQUEST PRODUCT
DOCUMENTATION



IBC EXPERTISE COURSE



SPECIAL CONTAINER
REQUEST

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