

FRITZ EMDE INTERNATIONAL



 made
 in
 Germany

PREMIUM CATALOGUE

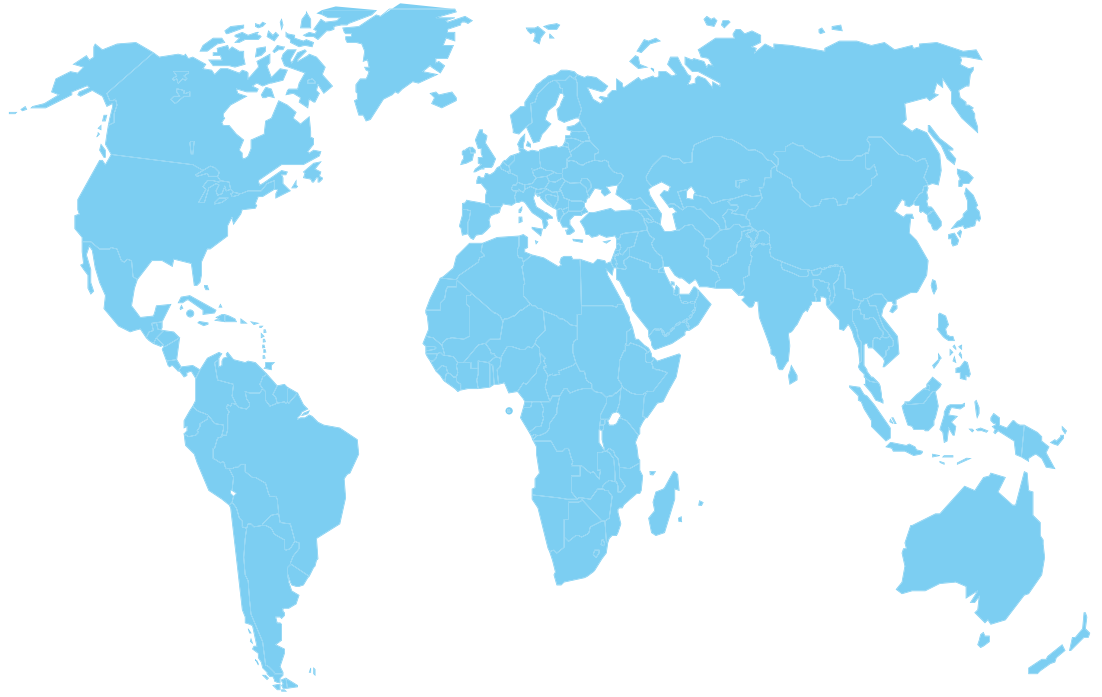
FRITZ EMDE INTERNATIONAL – THE ORIGINAL

INNOVATION – QUALITY – SERVICE – TRADITION

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Operating all over the world



PRECISION, INNOVATION AND ORGANISATION IN THE SERVICE OF THEIR CUSTOMERS ARE THE ELEMENTS OF EFFICIENT EMDE-TECHNOLOGIES.

FRITZ EMDE INTERNATIONAL stands for innovation, quality, service and tradition.

For more than 50 years of company history, these values have been deeply anchored in FRITZ EMDE's self-image all over the world.

FRITZ EMDE INTERNATIONAL is the pioneering manufacturer in the field of filling and testing technology for powder, foam and CO₂-fire extinguishers, as well as diving and breathing air cylinders. Our range of services includes both series and custom-made machines according to customer requirements, with the focus always being on the user-friendliness of the machines. Our engineer and sales team are always available to advise you.

FRITZ EMDE
INTERNATIONAL



www.fritz-emde.com

PFF-FLIPP-AIR-MATIC (No. 101 000)

Model PFF-FLIPP-AIR-MATIC for emptying, filling and sieving procedures of fire extinguishers of all makes and sizes.

- » Emptying and filling absolutely dust-free in continuous operation
- » Interstorage of extinguishing powder up to 12 kg
- » Lockable ball valves
- » Window for powder control
- » Cleaning of filter package and hopper achieved automatically
- » An advantage is the diagonally positioned, removable sieve, which retains lumps and contamination
- » Height adjustment by crank handle



TECHNICAL DATA

| | |
|------------------------|------------------------------------|
| Dimensions (l x w x h) | approx. 500 × 500 × 1200 mm |
| Max. height at work | approx. 1600 mm |
| Diameter | 250 mm |
| Hopper | metal |
| Weight | approx. 30 kg |
| Operation | WITHOUT any vibration |
| Filling capacity | 18 kg/min – 240 mbar |
| Motor | 230 V, 6 A, 50 Hz |
| Filled package | maintenance-free |
| Filter cleaning | automatically by AIR-MATIC feature |
| Colour | hammer finish painted blue |

PFF-FLIPP-AIR-MATIC with storage tank (No. 101 100)

The Mobile Powder Filling Machine model PFF-FLIPP-AIR-MATIC with movable powder storage tank, capacity 50 kg and filling adaptor P50-250N for emptying, filling and sieving procedures of fire extinguishers of all makes and sizes.

The composition of this machine with accessories is sufficient to empty and fill all portable fire extinguishers from 1 kg up to 12 kg and additionally movable 50 kg fire fighting appliances. When using a bigger powder storage tank, it is possible to empty and refilling fire fighting appliances up to 250 kg.

The set is equipped with:

- » 1 piece powder filling machine model PFF-FLIPP-AIR-MATIC
- » 1 piece filling adaptor model P50-250N
- » 1 piece suction hose 32 mm, length 2500 mm
- » 1 piece suction hose 32 mm, length 1500 mm
- » 1 set with 4 pieces suction lance, 16, 20, 25 and 32 mm, length 700 mm
- » 1 piece suction lance 32 mm, length 1200 mm
- » 1 piece powder storage container, movable, capacity 50 kg

Optional available at extra charge:

- » Powder storage tank with higher capacity (100 kg, 250 kg)
- » Powder storage tank tiltable
- » Bag inlet for powder storage tank
- » Floor scale



Starting the business with SERVICE STARTER PACKAGE from FRITZ EMDE.

The proper maintenance and testing of fire extinguishers with the right FRITZ EMDE Powder Filling Units allows you to:

- » Absolutely dust-free emptying and filling in a continuous process
- » Cleaning of filter package and hopper achieved automatically
- » Big advantage is the diagonally positioned removable sieve, which retains lumps and contamination
- » Best of all, high-quality and maintenance-free self-cleaning filter element



The Mobile Power Filling Machine model PFF-FLIPP-AIR-MATIC (No. 101 100)

storage tank, capacity 50 kg and filling adaptor P50-250N for emptying, filling and sieving procedures of fire extinguishers of all makes and sizes

Vehicle Support (No. 100 120)

An efficient and handy working process are guaranteed with the different optional features in the service vehicle.

The pull-out about 90° tilting vehicle support is suitable for:

- » PFF-FLIPP-AIR-MATIC
- » PFF-II/E

OR choose a powder filling unit for efficient work in working height

(also, to be installed in a high vehicle with a special vehicle support.)



Mobile Power Filling Unit PFF-FLIPP-EK-N (No. 103 000)

- » Motor 1,5 kW
- » Interstorage of extinguishing powder up to 30 kg
- » Filling capacity 25 kg/min





P50-250 N P50-250 N Filling adaptor (No. 100 210)

for filling mobile fire fighting appliances from 50 kg up to 250 kg, consisting of adaptor, hose (2.5 m) and suction lance (1.2 m)



Clamping device model M (No. 100 410)

Quick-action clamping device; manual operation to be mounted on a work bench



N₂-QUICK Adaptor (No. 300 150)

Nitrogen-Adaptor for fast nitrogen filling of stored pressure-extinguisher. The universal filling rubber for the filling of all established types of valves and makes.



Digital floor scale, model BW150 20XL (No. 100 520)

with integrated cylinder support without automatic cut-off

Universal key (No. 100 130)

for opening all types of extinguisher



Inspektion lamp (No. 100 140)

is used for the internal control of all types of extinguisher



PFF-FLIPP-EK (No. 103 000)

Model PFF-FLIPP-EK for emptying, filling and sieving procedures of fire extinguishers of all makes and sizes.

- » Emptying and filling absolutely dust-free in continuous operation
- » Interstorage of extinguishing powder up to 30 kg
- » Lockable ball valves
- » Window for powder control



TECHNICAL DATA

| | |
|------------------------|-----------------------------|
| Dimensions (l x w x h) | approx. 500 × 600 × 1600 mm |
| Max. height at work | approx. 2100 mm |
| Hopper | metal |
| Weight | approx. 69 kg |
| Operation | WITHOUT any vibration |
| Filling capacity | 25 kg/min |
| Motor | 230 V, 6 A, 50 Hz |
| Motor | 1.5 kW |
| Filter package | maintenance-free |
| Filter cleaning | self-cleaning |
| Colour | hammer finish painted blue |

- » Cleaning of filter package and hopper achieved electrically
- » An advantage is the diagonally positioned, removable sieve, which retains lumps and contamination
- » Motor integrated in a metal housing, which serves as a support during filling procedure

PFF-FLIPP-EK(W) (No. 105 000)

Model PFF-FLIPP-EK(W) is a low-noise, movable powder filling unit with transport trolley in compact construction.

**TOP
SELLER**



- » Window for powder control
- » Interstorage of extinguishing powder up to 30 kg
- » Height adjustment by toothed rack worm drive with hand wheel
- » High-capacity exhaustor

TECHNICAL DATA

| | |
|------------------------|---|
| Dimensions (l x w x h) | 700 x 550 x 1200 mm |
| Work height | approx. 1700 mm |
| Hopper | metal |
| Weight | approx. 72 kg |
| Noise level | 74 – 76 dB(A) (according to operation of unit) |
| Filling capacity | 25 kg/min |
| Motor | 230 V, 8 A, 50 Hz, 1.5 kW |
| Filter cleaning | self-cleaning |
| Filter package | maintenance-free |
| Colour | hammer finish painted blue |

- » Cleaning of filter package electrically achieved during filling procedure
- » Motor 1.5 kW
- » Interstorage of extinguishing powder up to 30 kg
- » Filling capacity 25 kg/min

PFF-SUMATIC V40 (No. 113 000)

World first - most low-noise powder filling on the market

PFF-SUMATIC V40 is the most low-noise machine (64 dB(A)) for emptying and filling of 1 – 12 kg extinguishers of all makes. The machine is a high filling capacity unit; it takes only a few seconds to suck an extinguisher.



- » Interstorage of max. 30 kg powder inside the machine hopper
- » Appropriate for all types of powder (ABC, BC, etc)
- » Manual height adjustment
- » Easy and convenient handling
- » Maintenance free polythene filter package
- » Construction in movable compact version
- » Emptying of extinguisher hoses from 0.6 m up to 10 m
- » High quality, very low-noise vacuum pump

The unit is equipped with:

- » Abrasion-resistant suction hose, 3 m incl. connection coupling
- » Set with 4 suction lances 16, 20, 25 and 30 mm
- » 4 wheels, 2 of them with locking brake
- » Universal rubber filling adaptor for all sizes and types of portable fire extinguisher
- » Diagonally positioned, removable sieve which retains lumps and contamination

TECHNICAL DATA

| | |
|------------------|----------------------------|
| Construction | corrosion-free aluminium |
| Unit hopper | steel |
| Motor | 230 V, 50 Hz, 10 A |
| Weight | approx. 110 kg |
| Transport height | approx. 1700 mm |
| Working height | adjustable max. 750 mm |
| Breadth | max. 520 mm |
| Length | approx. 720 mm |
| Colour | hammer finish painted blue |

PFF-SUMATIC-V 100/50 (No. 115 000)

The PFF-SUMATIC-V100/50 is a movable machine for emptying and filling of portable and mobile fire extinguishers as well as powder fire trucks.



- » Interstorage of max. 50 kg powder inside the machine hopper
- » Appropriate for all types of powder (ABC, BC, etc.)
- » Emptying and filling absolutely dust-free
- » Height adjustment by pneumatic cylinder
- » Easy and convenient handling
- » Maintenance free polythene filter package with pneumatic cleaning
- » Construction: movable compact version (optional: stationary unit)
- » Emptying of extinguisher hoses from 0.6 m to 5.0 m

- » High quality, low noise vacuum pump
- Filling capacity: 30 kg/min
(20 kg/min at a filling height of 5 m)
- » two big windows for powder control

The unit is equipped with:

- » abrasion-resistant suction hose, 3 m incl. connection coupling
- » set with 4 suction lances 15, 20, 25 and 30 mm
- » 4 wheels, 2 of them with locking brake
- » robust ball valve on filling and vacuum valve
- » universal rubber filling adaptor for all sizes and types of portable fire extinguisher
- » diagonally positioned, removable sieve (420 mm long), which retains lumps and contamination

Optional available at extra charge:

Unit equipped with storage shelf on the back side; size of shelf (l x w x h):
250 x 750 x 300 mm

TECHNICAL DATA

| | |
|------------------------|--|
| Construction | corrosion-free aluminium |
| Unit hopper | steel |
| Motor | three-phase current 380 V, 50 Hz, 16 A |
| Compressed-air | 6 – 8 bar |
| Filling capacity | 30 kg/min |
| Weight | approx. 155 kg |
| Dimensions (l x w x h) | approx. 1100 x 900 x 2000 mm |
| Colour | hammer finish painted blue |



The Mobile Service Stations are the perfect technical solution for all service workshops for fire extinguishers. All necessary units are combined using the space of an euro-pallet. It can be loaded and unloaded easily in a service vehicle by fork lifter.

MSS-P I (No. 119 000)

The Mobile Service Station model MSS-P-I is the perfect technical solution for all service workshops for fire extinguishers. All necessary units are combined using the space of an euro-pallet. It can be loaded and unloaded easily in a service vehicle by fork lifter.

The Mobile Service Station is equipped with the following components:

- » Powder Filling Unit:
 - Filling capacity: 18 kg/min
 - Electrical filter cleaning;
 - Electrical height adjustment
- » CO₂-Filling Unit:
 - Filling capacity: 3,5 kg/min
 - Compressed air driven
 - (supply by internal compressor)
 - safety valve (130 bar)
- » Compressed air compressor:
 - 20 l storage capacity; max. 8 bar
- » Nitrogen-cylinder: 10 l capacity, 200 bar
- » Pneumatic Clamping Device
- » Cable drum: 20 m cable length
- » Bench Vice
- » Nitrogen Quick Filling Adaptor: N₂-QUICK
- » Three tool drawers: with tool boxes, removable
- » Digital Scale: 30 kg, resolution 1 g
- » Low pressure testing unit: max. 40 bar
 - Test pressure connection with quick coupling
- » Integrated water tank: capacity 40 l
- » CO₂-cylinder: capacity: 6 kg



TECHNICAL DATA

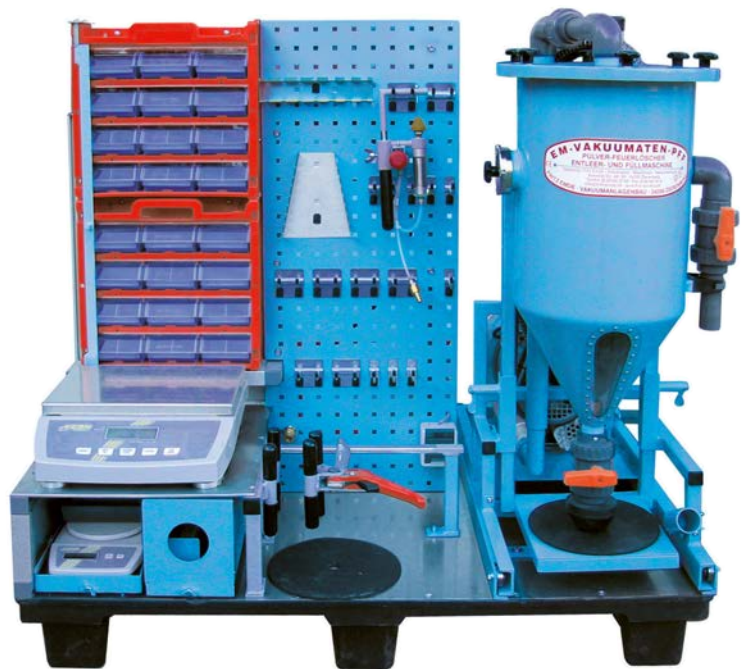
| | |
|------------------------|-----------------------------|
| Dimensions (l x w x h) | approx. 1200 x 800x 1300 mm |
| Max. working height | max. 1500 mm |
| Motor | AC 230 V, 16 A, 50 Hz |
| Weight | approx. 280 kg |
| Suction | 25 kg/min |
| Colour | hammer finish painted blue |

MSS-P II (No. 121 000)

The Mobile Service Station model MSS-P-II is the perfect technical solution for all service workshops for fire extinguishers. All necessary units are combined using the space of an euro-pallet. It can be loaded and unloaded easily in a service vehicle by fork lifter.

Mobile Service Station MSS-P-II (No. 121 000) is equipped with the following components:

- » Powder Filling Unit:
Filling capacity: 25 kg/min
Electrical filter cleaning;
Electrical height adjustment;
Internal hopper: 30 kg
- » Toolwall: perforated grid wall for tools dimensions
(l x w): approx. 500 x 340 mm
- » Nitrogen-cylinder:
capacity: 10 l, 200 bar
- » CO₂-cylinder:
capacity: 6 kg
- » Manual clamping device
- » Boxes: 8 x 3 pcs. boxes for storage of accessory
and spare parts.
Dimensions (l x w x h):
approx. 700 x 360 x 100 mm
- » Nitrogen quick filling adaptor: N₂-QUICK
- » Hose testing unit: for pressure testing of fire
extinguisher hoses and safety valves with gauge
and safety cap
- » Digital scale: 30 kg, resolution 1 g
Dimensions (l x w): approx. 300 x 310 mm



TECHNICAL DATA

| | |
|------------------------|------------------------------|
| Dimensions (l x w x h) | approx. 1200 x 800 x 1150 mm |
| Construction | aluminium |
| Motor | AC 230 V, 50 Hz, 16 A |
| Weight | approx. 230 kg |
| Colour | hammer finish painted blue |

MSS-P-II-Special (No. 121 500)

ALL-IN-ONE-SOLUTION

The Mobile Service Station model MSS-P-II-Special is the perfect technical solution for all service workshops for fire extinguishers. All necessary units are combined using the space of an euro-pallet. It can be loaded and unloaded easily in a service vehicle by fork lifter.

The Mobile Service Station is equipped with the following components:

- » Powder Filling Unit:
 - Filling capacity: 25 kg/min
 - Electrical filter cleaning;
 - Electrical height adjustment
 - Internal hopper: 30 kg
- » Toolwall: perforated grid wall for tools dimensions (l x w): approx. 500 x 340 mm
- » Nitrogen-cylinder:
 - capacity: 10 l, 200 bar
- » CO₂-cylinder: capacity: 6 kg
- » Manual clamping device
- » Boxes: 8 x 3 pcs. boxes for storage of accessory and spare parts.
 - Dimensions (l x w x h): approx. 700 x 360 x 100 mm
- » Nitrogen quick filling adaptor: N₂-QUICK
- » Hose testing unit: for pressure testing of fire extinguisher hoses and safety valves with gauge and safety cap
- » Digital scale: 30 kg, resolution 1 g
 - Dimensions (l x w): approx. 300 x 310 mm

Optional extra charge:

Mobile undercarriage



TECHNICAL DATA

| | |
|------------------------|--|
| Dimensions (l x w x h) | approx. 1200 x 800 x 1200 mm (+ 300 mm Hub) |
| Construction | aluminium |
| Motor | 230 V, 16 A, 50 Hz |
| Weight | approx. 250 kg |
| Colour | hammer finish painted blue |

MSS-P III (No. 123 000)

The Mobile Service Station model MSS-P-III is the perfect technical solution for all service workshops for fire extinguishers. All necessary units are combined using the space of an euro-pallet. It can be loaded and unloaded easily in a service vehicle by fork lifter.

Mobile Service Station MSS-P-III (No. 123 000) is equipped with the following components:

- » Powder Filling Unit:
 - Filling capacity: 20 kg/min
 - Electrical filter cleaning;
 - Internal hopper: 30 kg;
 - Manual height adjustment
- » CO₂-Filling Unit: Filling capacity: 3,5 kg/min
- Compressed air driven (supply by internal compressor) Safety valve (130 bar)
- » CO₂-Universal-Filling Rail: For filling of CO₂-cartridges of all sizes and makes
- » Compressed air compressor: Tank volume: 20 l, max.: 8 bar
- » Powder storage container: Capacity: 50 kg
- » Nitrogen-cylinder: Capacity: 10 l, 200 bar
- » CO₂-cylinder: Capacity: 6 kg
- » Manual clamping device
- » Boxes: 8 x 3 pcs. for storage of accessory and spare parts; Dimensions (l x w x h): approx. 700 x 360 x 100 mm
- » Nitrogen quick filling adaptor: N₂-QUICK
- » Hose testing unit: For pressure testing of fire extinguisher hoses and safety valves with gauge and safety cap
- » Digital scale: 30 kg, resolution 1 g
- Dimension (l x w): approx. 300 x 310 mm



TECHNICAL DATA

| | |
|------------------------|------------------------------|
| Dimensions (l x w x h) | approx. 1200 x 800 x 1300 mm |
| Construction | aluminium |
| Motor | AC 230 V, 50 Hz, 16 A |
| Weight | approx. 290 kg |
| Colour | hammer finish painted blue |

Versions of equipment for the mobile service station

The equipment herewith can be combined with each other, however not in any order as the total surface of the mobile service station should not exceed the dimensions of a euro-pallet of 1200 x 800 mm. The height is variable according to the type of vehicle.

- » Powder Storage Container 50 kg
- » Water Storage Tank 20 l
- » Nitrogen Cylinder 10 l, 200 bar
- » CO₂-cylinder 6 kg
- » Digital Scale 30 kg, 1 g Resolution
- » 18 Boxes for storage of spare parts
- » Perforated Grid Wall for tools
- » Three tool drawers with tool boxes (removable)
- » Bench Vice
- » Cable Drum
- » Nitrogen Filling Adaptor model N₂-QUICK
- » CO₂-Filling Adaptor model CO₂-QUICK
- » Compressed-air pistol incl. 1.5 m airhose
- » P50-250 Adaptor for Filling of 50 kg Powder Extinguisher Trolleys
- » Nitrogen Pressure Reducer incl. connecting Hose
- » Powder Filling Unit model FLIPP-E (electrical height adjustment)
- » Powder Filling Unit model FLIPP-EK(W)-N
- » CO₂-Filling Unit (electrical pump)
- » Low Pressure Testing Unit 0 – 40 bar (compressed air driven)
- » High Pressure Testing Unit 0 – 40 bar (compressed air driven)
- » Compressed Air Compressor max. 10 bar, 20 l storage
- » Hose & Safety Valve Testing Unit
- » Universal Filling Rail for Filling of CO₂-cartridges
- » Manuel Clamping Device
- » Pneumatical Clamping Device

WWZ-F (No. 131 000)

The Mobile Workshop Trolley model WWZ-EKWN is a perfect combination of a mobile working place of deposit and unit-supported working. It is equipped with a removable, manual quick-action clamping device and a removable powder filling unit with manual height adjustment.



- » Universal filling adaptor for all sizes and types of powder extinguishers
- » Non-expendable filling and vacuum ball valves
- » Big, removable, diagonally positioned powder sieve (240 mm length) which retains lumps and contamination
- » Separate rack for powder filling unit is provided

Trolley:

- » 2 guide-brake rolls, 2 fixed rollers for heavy loads (Ø 125 mm)
- » Place of deposit (l x w) approx. 700 x 450 mm
- » Set with 4 suction lances Ø 15, 20, 25 and 32 mm, 700 mm length incl. lance support
- » Abrasion-proof suction hose with connection 1500 mm length
- » Corrosion-free aluminium profile construction
- » Lockable doors

Powder filling unit:

- » Absolutely dust-free emptying and filling in continuous operation and interstorage of powder in a tank
- » Appropriate for all types of powder (ABC, BC etc.)
- » Interstorage of extinguishing powder up to 12 kg
- » Big inspection glass for control of powder and filling level
- » Manual height adjustment
- » High-capacity suction motor with 1200 W
- » Maintenance-free polyethylene filter package with automatic filter cleaning during filling procedure by opening of AIR-MATIC flap

Optional available at extra charge:

- » Equipped with bench vice

TECHNICAL DATA (WWZ-F No. 131 000)

| | |
|------------------------|---|
| Dimensions (l x w x h) | with clamping device: approx. 2150 x 620 x 1350 mm without clamping device: approx. 1600 x 620 x 1350 mm |
| Motor | AC 230 V, 6 A, 50 Hz |
| Max. height at work | max. 1800 mm |
| Operation | without any vibration |
| Weight | approx. 75 kg |
| Filling capacity | 18 kg/min |
| Colour | hammer finish painted blue |

TECHNICAL DATA (WWZ-EKWN No. 132 000)

| | |
|------------------------|---|
| Dimensions (l x w x h) | with clamping device: approx. 2100 x 500 x 1300 mm without clamping device: approx. 1500 x 500 x 1300 mm |
| Max. height at work | max. 1500 mm |
| Motor | AC 230 V + N + PE, 10 A, 50 Hz |
| Noise level | 74 – 76 dB(A) (according to operation of the unit) |
| Operation | without any vibration |
| Weight | approx. 90 kg |
| Filling capacity | 25 kg/min |
| Colour | hammer finish painted blue |

WWZ-EKWN (No. 132 000)

The Mobile Workshop Trolley model WWZ-EKWN is a perfect combination of a mobile working place of deposit and unit-supported working. It is equipped with a removable, manual quick-action clamping device and a powder filling unit with electric height adjustment.



Powder filling unit:

- » Absolutely dust-free emptying and filling in continuous operation and interstorage of powder in a tank
- » Appropriate for all types of powder (ABC, BC etc.)
- » Interstorage of extinguishing powder up to 30 kg
- » Big inspection glass for control of powder and filling level
- » Electric height adjustment
- » High-capacity exhaustor with 1,5 kW
- » Maintenance-free polyethylene filter package with electric filter cleaning during filling procedure
- » Universal filling adaptor for all sizes and types of powder extinguishers
- » Non-expendable filling and vacuum ball valves
- » Big, removable, diagonally positioned powder sieve (275 mm length) which retains lumps and contamination

Trolley:

- » 2 guide-brake rolls, 2 fixed rollers for heavy loads (Ø 125 mm)
- » Place of deposit (l x w) approx. 700 x 450 mm
- » Set with 4 suction lances Ø 15, 20, 25 and 32 mm, 700 mm length incl. lance support
- » Abrasion-proof suction hose with connection 1500 mm length
- » Corrosion-free aluminium profile construction
- » Lockable doors

Optional available at extra charge:

- » Equipped with bench vice

SPANN-BOY (No. 133 000)

The Mobile Workshop Trolley SPANN-BOY serves the operator for comfortable assembly of fire extinguishers.

The trolley is equipped with an infinitely 360° rotatable manual quick-action clamping device. The exactly coordinated, ergonomic working height facilitates the handling of the extinguisher. A large tool box is included and another one can be mounted at surcharge. The robust construction ensures an additional stability of the trolley.

Optional available at extra charge:

- » Trolley equipped with stair rolls
- » Additional support for tools



TECHNICAL DATA

| | |
|------------------------|-----------------------------|
| Dimensions (l x w x h) | approx. 600 x 450 x 1000 mm |
| Construction | aluminium |
| Weight | approx. 9 kg |
| Colour | hammer finish painted blue |

PFF-SUMATIC-SV-100-W (No. 151 000)

TOP-Selling Powder Filling Unit: PFF-SUMATIC-SV-100-W

SPS-controlled powder emptying and filling unit for the exact filling of portable extinguishers of all makes and sizes. Filling takes place out of a bag or a fire extinguisher as well as out of an EMDE storage tank (e.g. 250 kg – accessory). The extinguisher is filled directly through the powder filling unit in continuous operation on setting the requested weight.

The PFF-SUMATIC-SV-100-W is equipped with an electronic scale which switches off on reaching the preset filling weight. The scale can be programmed with filling weights which can be activated according to weight required.

The weights are indicated on operating panel. The filling of movable extinguishers is to be carried out with the help of a special filling adaptor.

The unit is equipped with:

- » High-quality, self-cleaning filters
- » Programmable digital scale, 10 g resolution for automatic cut-off on reaching the filling weight
- » Powder tank for interstorage of extinguishing powder up to 30 kg
- » Lockable ball valves
- » Pneumatic height adjustment
- » An advantage is the diagonally positioned, removable sieve, which retains lumps and contamination
- » Window for powder control
- » Powder suction hose 32 mm, length 2 m with couplings
- » Connection for fluidisation to aerate the powder inside the storage silo
- » Sound absorber for sound insulation
- » Powerful, low-maintenance vacuum pump





SV-100-W with powder silos and filling rack for old powder

Optional available at extra charge:

- » Silo 250 kg movable (No. 100 330)
- » External floor scale with automatic cut-off feature for filling of movable extinguishers
- » Unit with more silos for different types of powder with manifold and shut-off device

TECHNICAL DATA

| | |
|------------------------|--|
| Filling capacity | 6 kg / 15 – 30 sec (according to powder quality) |
| Compressed-air | 5 bar |
| Motor: | 1.5 kW |
| | 400 V, 50 Hz |
| | (optional three-phase current 230 V, 50 Hz) |
| Filling capacity | 30 kg/min |
| Dimensions (l x w x h) | approx. 700 x 800 x 1800 mm |
| Work height | max. 2250 mm, lift 4500 mm |
| Colour | hammer finish painted blue |



ABF-1000 (No. 118 000)

The filling rack, model ABF-1000 is for filling the old powder into BIG-BAGs or storage container in a dustless and fast way.



The unit is equipped with:

- » a high quality self-cleaning filter package
- » a powerful, low-maintenance vacuum pump
- » a manually operated shutting flap
- » four robust BIG-BAG loops- fastener
- » High quality steel lance 1200 mm

The emptying of the extinguisher is effected manually directly into the tank by using a suction lance.

Demand for the sucking material:

The filter unit is only appropriate for totally dried and non-aggressive dusts and powder.

Optional available at extra charge:

- » Equipped with pneumatic shutting flap
- » Adaptor for filling of plastic material barrel
- » High quality steel lance with earthed hose

TECHNICAL DATA

| | |
|------------------------|-------------------------------|
| Construction | aluminum construction |
| Hopper | metallic glass |
| Voltage | 230/400 V, 50 Hz, 12 A |
| Capacity | 35 kg/min |
| Compressed-air | 6 – 8 bar |
| Weight | approx. 390 kg |
| Dimensions (l x w x h) | approx. 2000 x 1100 x 2800 mm |
| Colour | hammer finish painted blue |

PFF-SUMATIC-SWS-600 (No. 117 000)

The PFF-SUMATIC-SWS-600 is a powder suction unit
with bag emptying to dispose old powder.

- » Absolute dust free emptying
- » Interstorage up to 100 kg powder
- » Closable ball valve
- » Inspection window for powder control
- » Cleaning of the tank and the filter
package effected electrically
- » Guaranteed high capacity in continuous
operation
- » Height adjustment by rack worm
drive with hand wheel for different
dimensions of bags
- » Manually operated butterfly valve

Accessories available at extra charge:

- » Adaptor for filling of plastic material
barrel
- » High quality steel lance with earthed
hose

Optional:

The PFF-SUMATIC-SWS-600-W is a
powder suction unit with bag emptying to
dispose old powder for wall installation.

PFF-SWS-600-W (No. 117 100)



TECHNICAL DATA

| | |
|------------------------|---------------------------------------|
| Dimensions (l x w x h) | approx. 1300 x 780 x 1800 mm |
| Motor | 230 V, 8 A, 50 Hz optional 400 V, 6 A |
| Max. height | 2500 mm |
| Weight | approx. 79 kg |
| Operation | WITHOUT any vibration |
| Filling capacity | 25 kg/min |
| Hopper | metal |
| Filter package | maintenance-free |
| Filter cleaning | self-cleaning |
| Colour | hammer finish painted blue |

Model M (No. 100 410)

Quick-action clamping device; manual operation to be mounted on a work bench.

Optional: Tilting clamping Device 360°



TECHNICAL DATA

| | |
|------------------------|----------------------------|
| Dimensions (l x w x h) | approx. 400 x 300 x 240 mm |
| Clamping surface (Ø) | 80 – 220 mm |
| Colour | hammer finish painted blue |

Model M-D (No. 100 420)

Quick-action clamping device; manual operation to be mounted on a work bench. The clamping device is tiltable of 360°.



TECHNICAL DATA

| | |
|------------------------|----------------------------|
| Dimensions (l x w x h) | approx. 400 x 400 x 280 mm |
| Clamping surface (Ø) | 80 – 220 mm |
| Weight | approx. 3kg |
| Colour | hammer finish painted blue |

Model PW-D (No. 100 440)

Pneumatic clamping device for powder extinguishers to be mounted on a work bench. The clamping device is tiltable of 360°.



TECHNICAL DATA

| | |
|------------------------|----------------------------|
| Dimensions (l x w x h) | approx. 350 x 750 x 280 mm |
| Clamping surface (Ø) | 80 – 220 mm |
| Compressed-air | 6 – 8 bar |
| Colour | hammer finish painted blue |

Model PT (No. 100 450)

Pneumatic clamping device for CO₂- and powder extinguishers with pneumatic clamping cylinder.

Optional available at extra charge:

- » Equipped with adjustable clamping pressure (used for powder extinguisher)



TECHNICAL DATA

| | |
|------------------------|-----------------------------|
| Dimensions (l x w x h) | approx. 300 x 850 x 1000 mm |
| Clamping surface (Ø) | 80 – 220 mm |
| Compressed-air | 6 – 8 bar |
| Colour | hammer finish painted blue |

Wheeled storage tank to interstore extinguishing powder, 50 kg tank (No. 100 310)

Appropriate for EMDE-powder filling units in connection with filling adaptor P50-250.

TECHNICAL DATA

| | |
|------------------------|----------------------------|
| Dimensions (l x w x h) | approx. 600 x 750 x 800 mm |
| Weight (empty) | approx. 32 kg |
| Capacity | approx. 50 kg |
| Colour | hammer finish painted blue |



Wheeled storage tank to interstore extinguishing powder, 100 kg tank (No. 100 320)

tiltable and optional with inlet for bags

TECHNICAL DATA

| | |
|------------------------|----------------------------|
| Dimensions (l x w x h) | approx. 600 x 750 x 800 mm |
| Weight (empty) | approx. 36 kg |
| Capacity | approx. 100 kg |
| Colour | hammer finish painted blue |



Wheeled powder silo to interstore 250 kg extinguishing powder (No. 100 330)

Incl. inspection window for powder control, lance support, powder sieve, fluidization and connections for powder removal and filling.

TECHNICAL DATA

| | |
|------------------------|-----------------------------|
| Dimensions (l x w x h) | approx. 650 x 750 x 1900 mm |
| Weight (empty) | approx. 65 kg |
| Capacity | approx. 250 kg |
| Colour | hammer finish painted blue |



Tools needed for maintenance of fire extinguishers



Inspektion lamp (No. 100 140)

is used for the internal control of all types of extinguisher



Test gauge (No. 100 166)

for inside pressure control, inside and outside thread



Turning tool (No. 100 172)

opening and closing tool for powder fire extinguishers for torque wrenches



Torque wrench (No. 100 170)

(20 – 200 Nm)



Universal key (No. 100 130)

for opening all types of extinguisher



Relief Valve Screwer (No. 100 168)

for depressurizing of stored pressurized extinguisher



Special adaptor (No. 100 150)

for filling of portable fire extinguisher with an opening diameter up to 24 mm

MORE ACCESSORIES

| | |
|------------|---------------------------|
| 100161-010 | Corner pipe pliers 1 1/2" |
| 100161-020 | Plastic hammer |
| 100161-030 | Engineer's hammer 500 g |
| 100161-040 | Side cutter |
| 100161-050 | Combination pliers |
| 100161-060 | Ring spanner set 6 – 32 |
| 100161-070 | Screwdriver set 6 pieces |
| 100161-080 | Allen key set |

N₂B (No. 301 000)



TECHNICAL DATA

| | |
|------------------------|----------------------------|
| Construction | steel construction |
| Weight | approx. 4,5 kg |
| Safety valve: | 18 bar |
| Dimensions (l x w x h) | approx. 350 x 330 x 150 mm |
| Colour | hammer finish painted blue |

Nitrogen Filling Unit for safe and exact pressurizing of extinguishers with nitrogen.

The unit consists of:

- » Inlet pressure gauge
- » Outlet pressure gauge
- » Air hose 1 m
- » Adaptor: 1/4"

Accessories available at extra charge:

- » N₂-pressure reducer
- » N₂-bottle
- » N₂-hose
- » Adaptor: 12 x 1,0 mm
- 12 x 1,5 mm
- 14 x 1,5mm
- 16 x 1,5 mm
- » Further sizes available on request

N₂B-Z (No. 303 000)



TECHNICAL DATA

| | |
|------------------------|----------------------------|
| Construction | steel construction |
| Weight | approx. 8.5 kg |
| Safety valve | 18 bar |
| Dimensions (l x w x h) | approx. 800 x 350 x 300 mm |
| Colour | hammer finish painted blue |

Nitrogen Filling Unit for safe and exact pressurizing of extinguishers with nitrogen.

The unit consists of:

- » Inlet pressure gauge
- » Outlet pressure gauge
- » Air hose 1m
- » Adaptor: 1/4"

Accessories available at extra charge:

- » N₂-pressure reducer
- » N₂-bottle
- » N₂-hose
- » Adaptor: 12 x 1,0 mm
- 12 x 1,5 mm
- 14 x 1,5 mm
- 16 x 1,5 mm
- » Further sizes available on request

Nitrogen Filling Adapter N₂-QUICK (No. 300 150)

Nitrogen-Adaptor N₂-QUICK for fast nitrogen filling of stored pressure extinguisher.



The universal filling rubber for the filling of all established types of valves and makes.

Optional available at extra charge:

» Full-Set of:

N₂-QUICK filling adaptor
with 2 m air hose

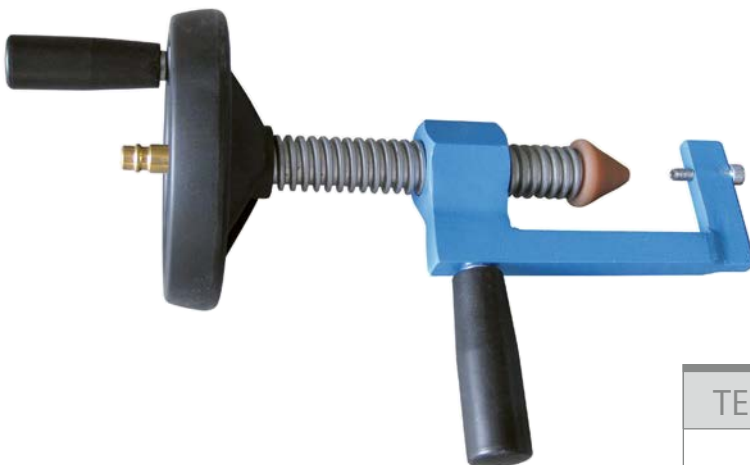
Nitrogen Pressure reducer 40 bar

TECHNICAL DATA

| | |
|--------------------------------|----------------------------|
| Dimensions approx. (l x w x h) | 300 x 100 x 150 mm |
| Weight | approx. 1.5 kg |
| Colour | hammer finish painted blue |

N₂-ADAPTOR (No. 300 160)

Nitrogen-Adaptor N₂-QUICK for fast nitrogen filling of stored pressure extinguisher. The universal filling rubber for the filling of all established types of valves and makes.



Accessory inclusive:

2 m air hose

Accessories available at extra charge:

Nitrogen pressure reducer 0 – 20 bar

TECHNICAL DATA

| | |
|------------------------|----------------------------|
| Dimensions (l x w x h) | approx. 300 x 200 x 200 mm |
| Weight | approx. 3 kg |
| Colour | hammer finish painted blue |

TOOLS

Torque wrench (No. 100 170)
20 – 200 Nm, calibrated



Check gauge (No. 100 166)
inside pressure control, 0 – 25 bar,
for male and female thread valves



Relief Valve Screwer (No. 100 168)
for depressurizing of stored pressurized
extinguisher



Stamping punch (No. 100 135)
6 mm, Numbers 0 – 9



Stamping punch (No. 100 136)
6 mm, letters A – Z



Thread Inspection Mirror (No. 410 030)
Set of 4 sizes (10 mm, 12 mm, 14 mm,
16 mm), made from stainless steel



KUD1 (No. 201 000)

The KUD1 is a small mobile CO₂-Filling Unit to fill CO₂ directly on the spot. For filling CO₂-bottles from 150 g up to 45 kg in combination with a Digital Floor Scale (not included-optional). It is especially appropriate for service offices and service vehicles to fill CO₂ directly on-site.

The unit is equipped with:

- » 1 compressed-air driven pump
- » 2 pcs. CO₂-hose (160 bar)
- » Pressure reducer
- » Compressed-air hose
- » 1 Safety valve (130 bar)



TECHNICAL DATA

| | |
|------------------------|----------------------------------|
| Filling capacity | 3,5 kg/min |
| Motor | compressed-air-driven 8 – 10 bar |
| Dimensions (l x w x h) | approx. 270 x 220 x 480 mm |
| Pump | 1-piston-pump |
| Weight | approx. 15 kg |
| Colour | hammer finish painted blue |

KU3 No. (251 000) · KUD3 (No. 203 000) · KUS3 (No. 231 000)

The KU3 is a compact, mobile CO₂-Filling Unit. It is especially appropriate for service offices and service vehicles to fill CO₂ directly on-site.

The unit is equipped with:

- » 2 pcs. CO₂-hose (160 bar)
- » Pressure gauge (160 bar)
- » Electric cable 230 V



TECHNICAL DATA

KU3 (No. 251 000)

| | |
|------------------------|--------------------------------------|
| Construction | steel construction with sheet casing |
| Pump | 3-piston-pump |
| Motor | 230 V, 16 A |
| Weight | approx. 34 kg |
| Capacity | max. 3.5 kg/min |
| Dimensions (l x w x h) | approx. 550 x 400 x 340 mm |
| Colour | hammer finish painted blue |



TECHNICAL DATA

KUD3 (air compressed) (No. 203 000)

| | |
|------------------------|----------------------------------|
| Construction | aluminium |
| Motor | Compressed-air driven 8 – 10 bar |
| Weight | approx. 25 kg |
| Capacity | max. 3.5 kg/min |
| Dimensions (l x w x h) | approx. 550 x 400 x 340 mm |
| Colour | hammer finish painted blue |

TECHNICAL DATA

KUS3 (No. 231 000)

| | |
|------------------------|----------------------------|
| Construction | aluminium |
| Pump | 3-piston-pump |
| Motor | 380 V, 12 A |
| Weight | approx. 36 kg |
| Capacity | max. 3.5 kg/min |
| Dimensions (l x w x h) | approx. 550 x 400 x 340 mm |
| Colour | hammer finish painted blue |

KU4 (No. 253 000) · KUD4 (No. 205 000) · KUS4 (No. 233 000)

CO₂-Filling Unit, model KUD4 for filling CO₂-bottles from 150 g up to 45 kg.



Unit consists of:

- » Steel casing
- » Compressed-air driven pump
- » Electrical switchboard
- » Safety valve
- » Wiring
- » CO₂-filter

Control panel consists of:

- » CO₂-inlet pressure gauge
- » CO₂-outlet pressure gauge
- » Relief ball valve
- » CO₂-filling ball valve
- » Control buttons

TECHNICAL DATA

KU4 (No. 253 000)

| | |
|------------------------|-----------------------------|
| Dimensions (l x w x h) | approx. 500 x 700 x 1000 mm |
| Motor | 230 V, 50 Hz |
| Capacity | max. 4.5 kg/min |
| Weight | approx. 59 kg |
| Colour | hammer finish painted blue |

TECHNICAL DATA

KUD4 (No. 205 000)

| | |
|------------------------|----------------------------------|
| Dimensions (l x w x h) | approx. 500 x 700 x 1000 mm |
| Motor | compressed-air driven 8 – 10 bar |
| Capacity | max. 4.5 kg/min |
| Weight | approx. 45 kg |
| Colour | hammer finish painted blue |

TECHNICAL DATA

KUS4 (No. 233 000)

| | |
|------------------------|-----------------------------|
| Dimensions (l x w x h) | approx. 500 x 700 x 1000 mm |
| Motor | 3 phase, 400V, 50 Hz |
| Capacity | max. 4.5 kg/min |
| Weight | approx. 65 kg |
| Colour | hammer finish painted blue |

KU1-WA (No. 252 500) · KUD1-WA (No. 202 000)

Compressed air driven CO₂-Filling Unit for filling CO₂-cartridges from 20 g to 6 kg CO₂-bottles.

Large cylinders weighing from 6 kg can be filled with CO₂ using a hose with an additional adapter (No. 200 105). This hose is then connected to the filling head. The device must then be switched off manually and a separate balance must be used.

The unit is extra equipped with:

- » Digital scale, max. 30 kg, 10 g resolution
- » continuous speed regulation of the pump
- » automatic shutdown
- » CO₂ disposal hose
- » set of socket wrench

Available at extra charge:

- » EXTRA CO₂ Filter



TECHNICAL DATA KU1-WA (No. 252 500)

| | |
|------------------------|---|
| Dimensions (l x w x h) | approx. 1100 x 500 x 600 mm |
| Construction | aluminium |
| Pump | 3-pistons-pump |
| Motor | 230 V, 50 Hz, 10 A or 3 x 230/400 V, 50 Hz, 16 A |
| Capacity | approx. 3 kg/min |
| Weight | approx. 90 kg |

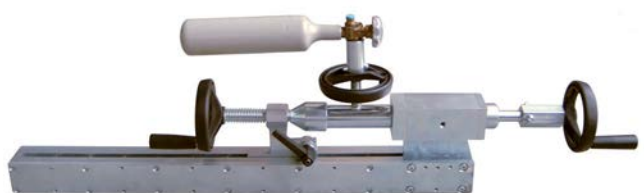
TECHNICAL DATA KUD1-WA (No. 202 000)

| | |
|------------------------|---|
| Construction | aluminium |
| Pump | 1-piston-pump |
| Motor | compressed air 10 bar (approx. 800 NL/min) |
| Capacity | approx. 3 kg/min |
| Dimensions (l x w x h) | approx. 1100 x 500 x 600 mm |
| Weight | approx. 70 kg |

KU5-DI (No. 255 000) · KUD5-DI (No. 207 000) · KUS5-DI (No. 235 000)



KUS5-LW (No. 235 100)



CO₂-Filling Unit KUD5Di suitable to fill any size, shape or make of CO₂-cartridges (from 20 g) and CO₂-bottles (up to 6 kg) with the universal filling head.

The unit is equipped with:

- » Compressed-air driven CO₂-pump
- » Integrated digital scale up to 30 kg weighing range with automatic cut-off feature. Resolution 10 g or optional
- » Filling of large bottles more than 6 kg has to be carried out on a separate floor scale with automatic cut-off feature (optional accessory)

Optional available at extra charge:

- » Equipped with mechanical sliding weight scale
- » Electric supply with 230/380 V, 60 Hz
- » Equipped with label printer

TECHNICAL DATA

KU5-DI (No. 255 000)

| | |
|------------------------|--|
| Motor | 230 V, 50 Hz |
| Dimensions (l x w x h) | approx. 900 x 700 x 600 mm |
| Colour | hammer finish painted blue |
| Standard accessories | <ul style="list-style-type: none"> » 3 adaptors for filling of CO₂ cartridges, 18 mm, 25 mm and 32 mm diameter » 1 CO₂ high-pressure hose, 2 m » 1 rotary filling valve "DF 1" to fill CO₂-bottles » 1 height adjustable support, KS-6 » 1 set of sealings for filling adaptors » CO₂ steel filter |

TECHNICAL DATA

KUD5-DI (No. 207 000)

| | |
|------------------------|--|
| Motor | compressed-air from 8 bar 800 ltr. air/min |
| Dimensions (l x w x h) | approx. 900 x 700 x 600 mm |
| Colour | hammer finish painted blue |
| Standard accessories | <ul style="list-style-type: none"> » 3 adaptors for filling of CO₂-cartridges, 18 mm, 25 mm and 32 mm diameter » 1 CO₂ high-pressure hose, 2 m » 1 rotary filling valve "DF 1" to fill CO₂-bottles » 1 height adjustable support, KS-5 » 1 set of sealings for filling adaptors » CO₂-steel filter |

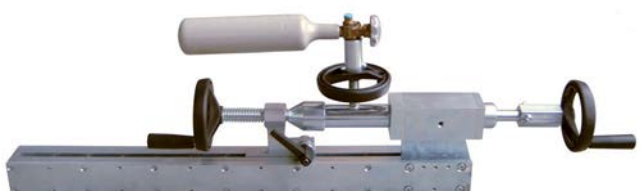
TECHNICAL DATA

KUS5-DI (No. 235 000)

| | |
|------------------------|--|
| Motor | 380 V, 50 Hz |
| Dimensions (l x w x h) | approx. 900 x 700 x 600 mm |
| Colour | hammer finish painted blue |
| Standard accessories | <ul style="list-style-type: none"> » 3 adaptors for filling of CO₂-cartridges, 18 mm, 25 mm and 32 mm diameter » 1 CO₂ high-pressure hose, 2 m » 1 rotary filling valve "DF 1" to fill CO₂-bottles » 1 height adjustable support, KS-5 » 1 set of sealings for filling adaptors » CO₂-steel filter |

KU6-DI (No. 256 000) · KUD6-DI (No. 209 000) · KUS6-DI (No. 237 000)

CO₂-Filling Unit KU6 suitable to fill any size, shape or make of CO₂-cartridges (from 20 g) and CO₂-bottles (up to 6 kg) with the universal filling head. CO₂-unit with integrated digital scale 30 kg in table form with 40 mm thick wooden board.



The unit is equipped with:

- » Silent directly flanged CO₂-pump
- » Filling speed control for slow filling of cartridges and fast filling of large bottles
- » Fine regulation for small cartridges
- » Fast filling for large cylinders
- » Digital scale (30 kg weighing range) with automatic cutoff feature – resolution 5 g or 10 g optional
- » Operation by electrovalves
- » Filling of large bottles more than 6 kg has to be carried out on a separate floor scale with automatic cut-off feature (scale not included)
- » No pre-cooling system for CO₂ source bottle required
- » Emptying of CO₂ master bottle up to 95%

Optional available at extra charge:

- » Digital scale (30 kg weighing range) with automatic cut-off feature: resolution: 2 g or 5 g
- » Electric supply with 230/380 V, 60 Hz
- » Equipped with label printer



TECHNICAL DATA

KU6-DI (No. 256 000)

| | |
|------------------------|---|
| Capacity | max. 5 kg/min |
| Operating pressure | max. 130 bar |
| Safety valve | 130 bar |
| Motor | AC 230 V, 50 Hz |
| Dimensions (l x w x h) | approx. 1000 x 750 x 850 mm |
| Colour | hammer finish painted blue |
| Standard accessories | <ul style="list-style-type: none"> » 3 adaptors for filling of CO₂-cartridges, Ø 18, 25, 32 mm » 1 CO₂ high-pressure hose, 2 m » 1 rotary filling valve "DF 1" to fill CO₂-bottles » 1 height adjustable support, KS-6; 1 set of sealings for filling adaptors » CO₂-steel filter |

TECHNICAL DATA

KUD6-DI (No. 209 000)

| | |
|------------------------|--|
| Capacity | max. 5 kg/min |
| Operating pressure | max. 130 bar |
| Safety valve | 130 bar |
| Motor | AC 230 V, 50 Hz |
| Air pressure | 8-10 bar 800 l/Air/min |
| Dimensions (l x w x h) | approx. 1000 x 750 x 850 mm |
| Colour | hammer finish painted blue |
| Standard accessories | <ul style="list-style-type: none"> » 3 adaptors for filling of CO₂-cartridges, Ø 18, 25, 32 mm » 1 CO₂ high-pressure hose, 2 m » 1 rotary filling valve "DF 1" to fill CO₂-bottles » 1 height adjustable support, KS-6 » 1 set of sealings for filling adaptors » CO₂-steel filter |

TECHNICAL DATA

KUS6-DI (No. 237 000)

| | |
|------------------------|--|
| Capacity | max. 5 kg/min |
| Operating pressure | max. 130 bar |
| Safety valve | 130 bar |
| Motor | 3 phase 400 V, 50 Hz |
| Dimensions (l x w x h) | approx. 1000 x 750 x 850 mm |
| Colour | hammer finish painted blue |
| Standard accessories | <ul style="list-style-type: none"> » 3 adaptors for filling of CO₂-cartridges, Ø 18, 25, 32 mm » 1 CO₂ high-pressure hose, 2 m » 1 rotary filling valve "DF 1" to fill CO₂-bottles » 1 height adjustable support, KS-6 » 1 set of sealings for filling adaptors » CO₂-steel filter |

KUD6-DI-N₂ (No. 261 000)

Combined Filling Unit for Carbon Dioxide (CO₂) and Nitrogen (N₂) for small cartridges fire extinguishers and cylinders of all makes and sizes with the FRITZ EMDE universal filling rail.

The unit is equipped with:

- » digital scale (resolution 5 g) with automatic cut-off
- » Compressed-air driven CO₂-pump
- » Compressed-air driven N₂-pump
- » Filling speed regulator
- » Electrically relief valve
- » Universal FRITZ EMDE filling rail
- » CO₂-filter
- » Safety valve (130 bar)

Standard accessory:

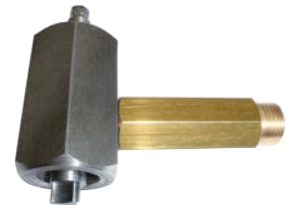
- » 3 adaptors for CO₂-cartridges: 18 mm, 25 mm und 32 mm
- » 1 CO₂-High-Pressure hose 2 m
- » 1 DF1-adaptor for filling of CO₂-cylinders
- » 1 KS 5 support
- » 1 set of socket wrenches, 10 – 32 mm
- » 1 CO₂-steel filter

Accessories available at extra charge:

- » Floor scale with automatic cut-off 200 kg, 20 g resolution display integrated in filling unit scale platform approx. 600 x 400 mm incl. cylinder bracket
- » CO₂-QUICK fast filling adaptor
- » Raisable safety guard for filling rail
- » Label printer



KUD6-DI-N₂ PROTECT (No. 263 000)



TECHNICAL DATA

| | |
|----------------------------------|------------------------------|
| Filling capacity CO ₂ | max. 5 kg/min |
| Working pressure | max. 130 bar |
| Safety valve | 130 bar |
| Motor | 230 V, 10 A, 50 Hz |
| Dimension (l x w x h) | approx. 1300 x 750 x 1250 mm |
| Working height | 850mm |
| Colour | hammer finish painted blue |

KR04 (No. 269 000)

ALL-IN-ONE-SOLUTION

The Kyoto Protocol of the United Nations Framework Convention on Climate Change is an amendment to the international treaty on climate change, assigning mandatory emission limitations for the reduction of greenhouse gas emissions to the signatory nations.

The reduction of greenhouse gas, particularly CO₂ will play a decisive role in the future. You have the change to make a contribution to our climate, by utilize the FRITZ EMDE CO₂-Recycling Unit, KR04 to reduce the greenhouse effect.

When discharging of the cylinder 99% of the carbon dioxide is recaptured. Germany is precursor in the climate protection with the climate protection technology of FRITZ EMDE products.



Dual-Machine

The CO₂-Recycling Unit, KR04 is used for the total discharging of CO₂ -extinguisher, -cart-ridges and -cylinders up to a residual pressure under 7 bar. Therefore it is consequently guaranteed that no CO₂ disappears in the environment.

The CO₂-Recycling Unit, KR04 is used for refilling of extinguisher and cylinders along with a digital floor scale.

By achievement of the programming weight the KR04 cuts off automatically.

TECHNICAL DATA

| | |
|-------------------------|--|
| Motor | AC 230 V, 50 Hz, 10 A |
| Filling capacity | CO ₂ fluid: approx. 15 l/min |
| CO ₂ gaseous | approx. 6 l/min |
| Compressed-air | 6 – 8 bar |
| Weight | approx. 70 kg |
| Safety valve | 130 bar |
| Evacuation | up to 7 bar |
| Dimension (l x w x h) | approx. 1000 x 500 x 1000 mm (without floor scale) |
| Colour | hammer finish painted blue |

The unit is equipped with:

- » safety valve 130 bar
- » CO₂-filter
- » floor scale 200 kg with digital display
- » manual ball valve for relief
- » inlet and filling gauge
- » 2 CO₂-hoses, 2 m each

Accessories available at extra charge:

- » CO₂-QUICK adaptor
- » CO₂-cartridge device for the emptying of cartridges

SUM-20-MP-DL (No. 353 500)

Mobile Filling Unit for liquid extinguisher maintenance of foam and water extinguishers to 12 liters. The filling and emptying takes place below the liquid level, therefore, foaming of the medium is avoided. Switching between filling and emptying via ball valve.

The unit is equipped with:

- » compressed air driven foam pump
- » stainless steel lance
- » tank for liquid (approx. 20 liters), with window for controlling the foaming agent
- » volume scale for reading the level
- » continuous speed regulation of the pump
- » 4 wheels



TECHNICAL DATA

| | |
|------------------------|---|
| Voltage | 230 V, 50 Hz, 10 A |
| Compressed air | approx. 10 bar (self-supply through built-in compressor) |
| Dimensions (l x w x h) | approx. 600 x 400 x 1000 mm |
| Weight (empty) | approx. 35 kg |
| Capacity | approx. 10 l/min |
| Construction | aluminium |
| Colour | hammer finish painted blue |

SUM-ACTIVE (No. 357 000)

Stationary Unit for the filling and maintenance of extinguishers of foam and water. Effective and clean installation appropriate for service offices.



The unit is equipped with:

- » Flow-rate tester with pistol handle and automatic cut-off
- » Water connection 1/2"
- » Two lifting motors to regulate the height of the manual clamping device and the testing box.
- » Transparent testing box with scale.
- » Collecting tray made from stainless steel with dripping lattice

Accessories available at extra charge:

- » Digital scale, model 36K 10, (weighing range 36 kg, resolution 10 g)
- » Pump for filling of foam with suction lance
- » Boxes for storage of spare parts
- » Perforated grid wall for tools Nitrogen-Adaptor N₂-QUICK
- » Filling adaptor with ascending pipe

TECHNICAL DATA

| | |
|------------------------|------------------------------|
| Construction | aluminium |
| Dimensions (l x w x h) | approx. 1000 x 600 x 2000 mm |
| Motor | AC 230 V, 50 Hz, 10 A |
| Colour | hammer finish painted blue |

SUM-Auto-4 (No. 354 400)

Automatic Filling Unit for foam (ready mix and concentrate) to fill extinguishers from 1 to 12 liters.

Equipped with 4 pcs. of foam tanks (model SUM-Auto-4) or 2 pcs. of foam tanks (model SUM-Auto-2)

The unit is equipped with:

- » 4 pcs. foam tanks, 50 liters storage capacity each for different foams
- » special barrel pump to fill the foam storage tanks
- » special filling lance to fill from bottom up to avoid foaming of the material
- » different valves for the storage tanks can be selected on the control panel
- » floor scale with automatic cut off to measure the filling weight
- » separate connection for fresh water to fill water extinguishers and to mix concentrate
- » separate cleaning connection to wash the inside of the tubings
- » pneumatic cylinder to lift the scale up and down for filling process



TECHNICAL DATA

| | |
|------------------------|---|
| Current supply | 230 V, single phase, 50 Hz, 10 A |
| Dimensions (l x w x h) | approx. 1500 x 500 x 2400 mm |
| Filling capacity | approx. 4 – 6 liters / min. (depending on the foam material) |
| Accuracy | approx. +/- 20 ml |
| Compressed air | approx. 6 – 8 bar |
| Construction | aluminium |
| Colour | hammer finish paint blue |

AFF (No. 351 000)

Foam Filling Unit AFF for filling of foam and water extinguishers from 1 to 12 liters. Exact filling according to EN-3 standard. The unit is suitable for foam extinguishers which are filled with water and foam concentrate.



The filling capacity depends on the size of the extinguisher and the quality of the foam concentrate. To avoid the foaming inside the filled extinguisher, the filling takes part from the bottom up. For example the complete filling of a 6 liter foam extinguisher with water and foam concentrate takes on average approximately 30 seconds.

The unit is equipped with:

- » Digital scale 30 kg, resolution 10 g
- » Automatic cut-off feature on reaching of the filling volume
- » Valve for dosing of the foam concentrate
- » 1000 liter PE tank for foam concentrate
- » Different pipe diameters for bottom up filling
- » Separate barrel pump for filling of the foam tank
- » Barrel pump for foam tank:
- » Connection: AC 230 V, 50 Hz
- » Filling capacity: 20 liters per minute

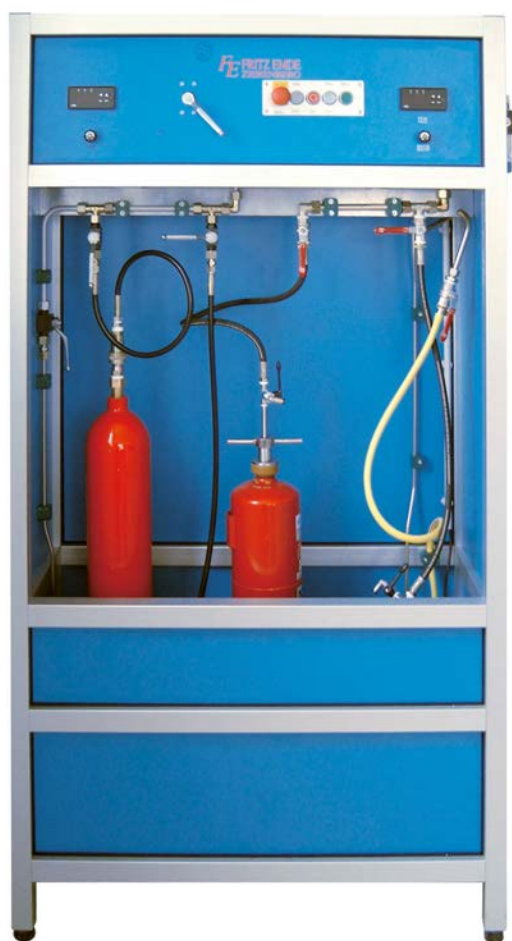
TECHNICAL DATA

| | |
|------------------------|-----------------------------------|
| Voltage | 230 V, 50 Hz, 10 A |
| Dimensions (l x w x h) | approx. 1200 x 1200 x 2900 mm |
| Weight (empty) | approx. 350 kg |
| Compressed-air | 8 – 10 bar |
| Water connection | 1/2" coupling or British Standard |
| Construction | aluminium |
| Colour | hammer finish painted blue |

HD-ND2+2 (No. 471 000)

Stationary High- and Low-Pressure Testing Unit, model HD-ND2+2 for testing of fire extinguishers and pressure units.

With integrated water tank for filling of fire extinguishers or pressure tanks by using submersible pump.



In High-Pressure with 2 testing connections to test: CO₂-bottles/-cartridges and -fire extinguishers, breathing air apparatus, diving bottles, gas-bottles.

Unit consisting of:

- » 2 High-Pressure hoses (0.8 m)
- » Plug-in coupling with 2 plug-in adaptors each with large or small conical CO₂-thread
- » Lockable valves for individual testing
- » Relief valve to relieve the testing line
- » Pipework made of High-Pressure Ermetho pipes
- » Compressed-air driven High-Pressure pump
- » Disconnectable pressure display with pressure gauge (600 bar)
- » Automatic disconnection when reaching the requested test pressure by pressure gauge

In Low-Pressure with 2 testing connections to test: fire extinguishers as well as cylinders up to max. 30 bar.

Unit consisting of:

- » 2 Low-Pressure hoses (0.8 m) with plug-in coupling
- » 2 universal Low-Pressure adaptors
- » Lockable valves for individual testing
- » Relief valve to relieve the testing line
- » Compressed-air driven Low-Pressure pump
- » Disconnectable pressure display with pressure gauge (40 bar)
- » Test pressure 0 – 40 bar
- » Automatic disconnection when reaching the requested test pressure by pressure gauge

Optional available at extra charge:

- » Digital gauge
- » Equipped with safety protection cover

TECHNICAL DATA

| | |
|--|---|
| Dimensions (l x w x h) | approx. 450 x 1000 x 1900 mm |
| Dimensions of the cylinder to be tested | max. height: 730 mm; Ø max.: 210 mm |
| Connection for water supply of pressing pump | 1/2" thread with ball valve |
| Motor | AC 230 V, 50 Hz, 10 A |
| Compressed-air | 8 – 10 bar (depending on test pressure) |
| Colour | hammer finish painted blue |

HND-W-3* (No. 445 000)

Combined stationary High- and Low-Pressure Testing Unit for wall assembly with 3 connections, model HND-W-3.

The High- and Low-Pressure testing unit, model HND-W-3 is a testing unit with 3 connections for wall assembly. It is suitable for testing of powder- and CO₂-fire extinguishes, CO₂ bottles, breathing air apparatus, diving bottles, N₂ cylinders etc. of all sizes, dimensions and types.

Unit consists of:

- » 3 testing connections à 1,5 m equipped with quick-type coupling
- » 3 plug-in adaptors large conical and 3 plug-in adaptors small conical) further adaptors with different sizes on demand as extra
- » 3 universal Low-Pressure adaptors
- » Lockable valves for separate test
- » Relief valve
- » High-Pressure Ermetho piping
- » Compressed air driven High-Pressure pump

- » Pressure gauge 0 – 600 bar (High-Pressure)
- » Pressure gauge 0 – 60 bar (Low-Pressure)
- » Safety valve 40 bar (Low-Pressure)

Optional available at extra charge:

- » Further testing connections
- » Water bassin
- » Safety protection cover automatic cut-off



TECHNICAL DATA

| | |
|------------------------|--|
| Dimensions (l x w x h) | approx. 1600 x 400 x 2000 mm |
| Mounting height | approx. 1700 mm |
| Water connection | 1/2" |
| Compressed-air | 8 – 9 bar (according to max. test pressure for High-Pressure) |
| Colour | hammer finish painted blue |

* Available with any numbers of connections

HD-TA-CFK-1-W (No. 407 100)

High-pressure Testing Unit for pressure test of fibre carbon cylinder.
Equipped with digital scale for measuring the volumetric expansion.
Resolution of the scale: 0,1g



The pressure test procedure takes place in the Water Jacket method. In this case, the volumetric expansion of the bottle to be tested is measured and the expansion in the measuring cup is collected and displayed on a balance. The system is equipped with a high-pressure pump and a manometer with switching contact for automatic pressure shut-off as well as optionally an electrically operable crane for placing the bottle in the test chamber.



Maximum permissible dimensions of the pressure vessels:

Max. Diameter: 300 mm
Max. Length: 600 mm
Max. Content: 18 liters
(larger bottle sizes available on request)

TECHNICAL DATA

| | |
|---------------------------|------------------------------|
| Dimensions (l x w x h) | approx. 1400 x 500 x 1100 mm |
| Construction | aluminium |
| Pressure test chamber | aluminium |
| Weight | approx. 125 kg |
| Operating pressure | max. 450 bar |
| Water connection | 1/2" external thread |
| Compressed air connection | 6 – 8 bar |

The module is equipped with:

- » equipped with scale, 0.1 g resolution
- » 1 piece lid with quick-release fastener
- » 1 piece screw-in adapter large conical
- » 1 piece screw-in adapter M18 x 1.5

Optional:

- » Manual / Electric Crane
- » Stationary module for wall installation
- » Screw-in adapter, eg. small-conical, M25 x 2, etc.

HSP-F (No. 488 000)

HSP-F Mobile Hydrant Testing Unit is a flexible and manually operated pump for TESTING of wall hydrants, risers and pressure hoses of the resting flow and pressure.

The HSP-F is equipped with a 50 liter water collection tank and is available via a ball valve at the bottom easy and quick to empty.

The unit is equipped with:

- » input / output C-52 Storz Pressure auge
- » operating pressure max. 16 bar
- » connection hose 1.6 m



TECHNICAL DATA

| | |
|------------------------|--|
| Dimensions (l x w x h) | approx. 1000 x 400 x 400 mm |
| Test pressure | max. 16 bar |
| Weight | approx. 9 kg (empty) |
| Connection | Storz-C, Barcelona, BSP, BS 336, UNI, etc. according to National Standard |
| Colour | hammer finish paint blue |

TR-K-1 (No. 501 000) · Modul M3 (No. 501 100)

The movable drying installation is for drying pressure-tested hoses of different diameters and lengths. Adaptation has to be made to the STORZ solid fire hose coupling C.

Furtheron, internal drying of steel cylinders and extinguishers of different sizes can be made by using optional accessory M3.

The unit consists of:

- » Compact construction made of square metal pipe 25 x 25 mm with height adjustable handle
- » Fan and heater are placed behind a sheet covering in a space saving and protected way
- » Fan and blower are switched separately by two-stage switch. Therefore, the fan is always disconnected after the heater
- » Heating up to max. 100 °C, adjustable by potentiometer
- » Electric connection by CEE reversing plug with 3 m cable

TR-F-1 Modul M3 (Nr. 501 100)

The M3 module can be expanded with additional drying mandrels at an additional cost according to customer requirements.



TECHNICAL DATA

| | |
|------------------------|--|
| Dimensions (l x w x h) | approx. 420 x 380 x 500 mm |
| Fan motor | 230 V AC, 1.1 kW |
| Heater | 230 V, max. 2200 W, 0°C – 100°C, continuously adjustable |
| Transportation height | approx. 865 mm |
| Weight | approx. 34 kg |
| Colour | hammer painted finish blue |

TECHNICAL DATA

TR-F-1 module M3 (No. 501 100)

| | |
|------------------------|----------------------------|
| Dimensions (l x w x h) | approx. 700 x 400 x 650 mm |
| Weight | approx. 10 kg |
| Colour | hammer painted finish blue |

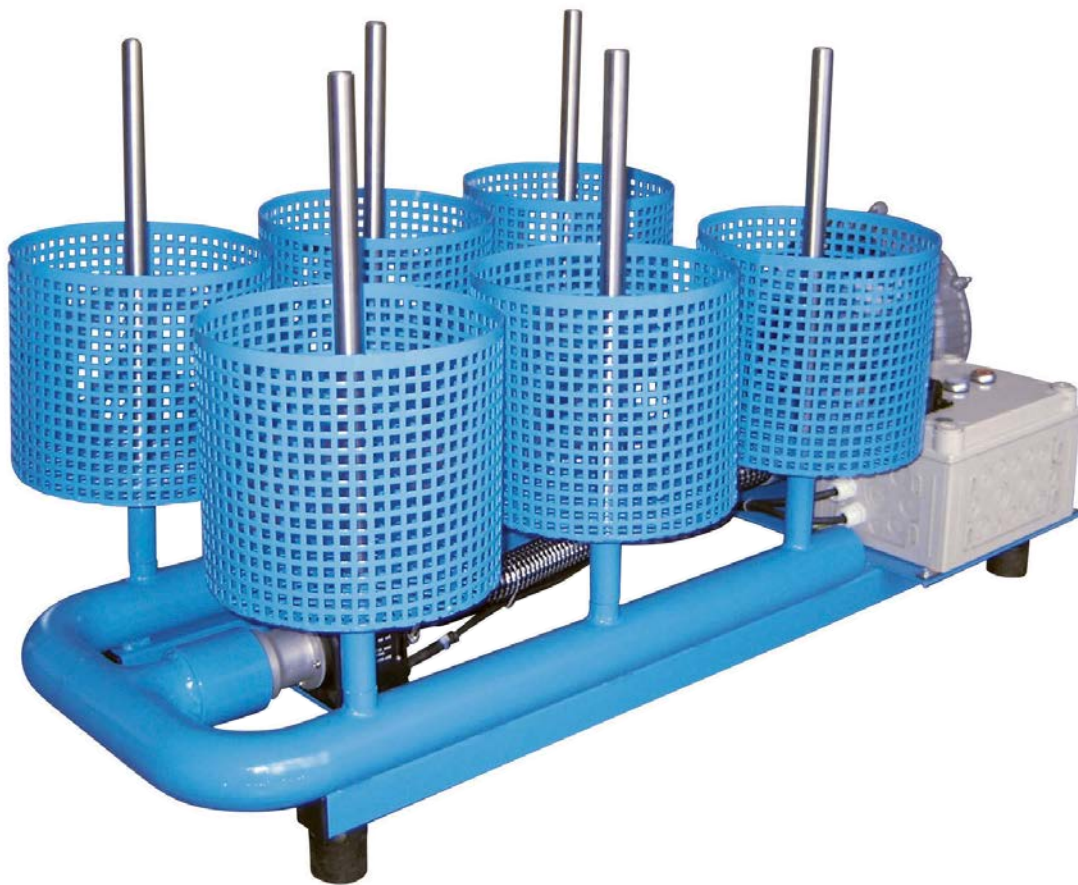
TR-K-6 (No. 505 000)

Stationary Drying Unit with six connections, model TR-K-6

The stationary drying unit TR-K-6 dries CO₂-cylinders, CO₂-extinguishers, breathing apparatus and diving bottles of all sizes.

The unit consists of:

- » Continuously adjustable heating blower up to max. 600°C
- » Heating frame with six connections
- » Six metal baskets as supporting element



TECHNICAL DATA

| | |
|------------------------|-----------------------------|
| Current supply | 230 V, 16 A, 50 Hz |
| Heating | adjustable from 0°C – 600°C |
| Dimensions (l x w x h) | approx. 1200 x 600 x 660 mm |
| Weight | approx. 39 kg |
| Colour | hammer finish painted blue |

EA-150 (No. 603 000)

The Screwing Unit EA150 screws and unscrews bottle valves from pressure cylinders having a volume of up to 80 ltr.

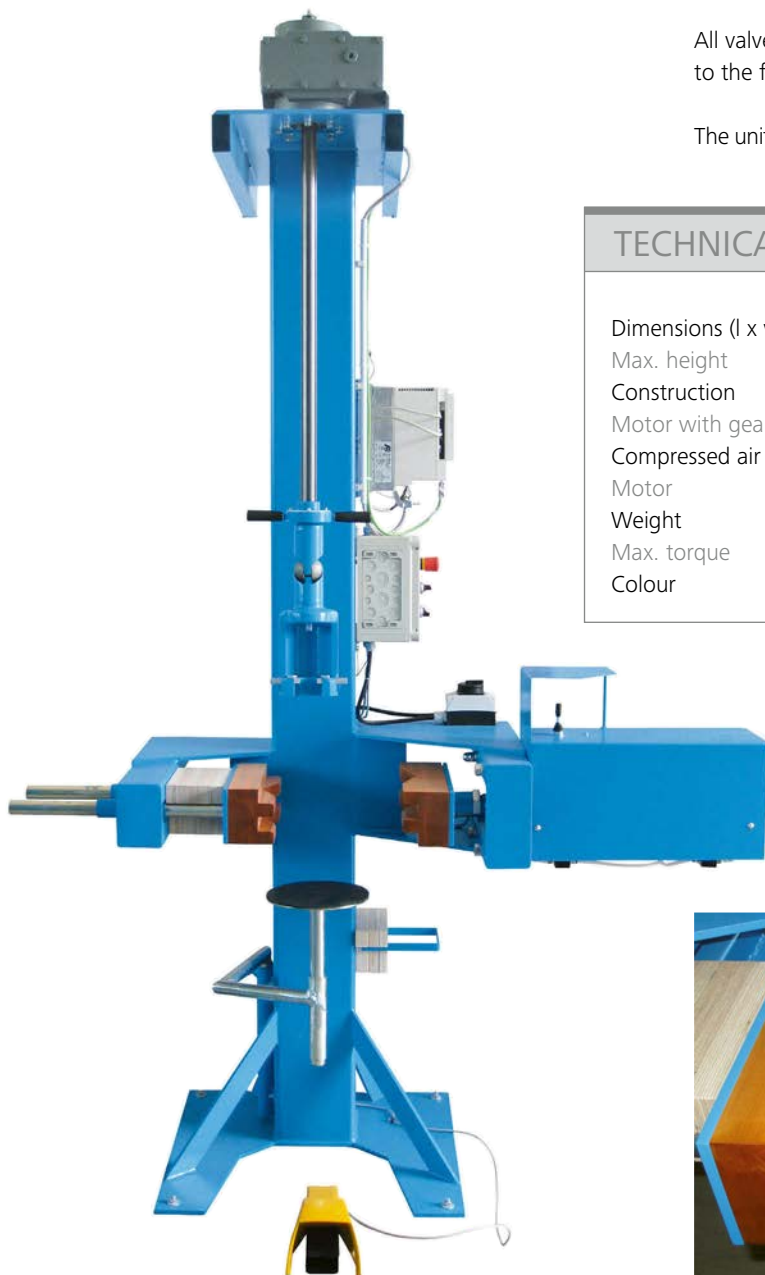
The unit disposes of a torque adjustment (0 – 925 Nm) and speed regulation (0 – 30 rpm). Cutoff is effected by torque control.

- » max. cylinder diameter: 350 mm
- » max. cylinder height: 1800 mm

The unit is equipped with a pneumatic clamping device. The clamping force is mutually adjustable and therefore appropriate for different cylinder materials. The clamping jaws are made of softwood which makes sure that the paint of the cylinder is not defected. A height adjustable support provides a comfortable working height even for smaller cylinders. The support is covered with rubber plates to avoid any defect in paint work at the bottom of the cylinder. The robust construction of the unit makes sure that the appearing forces are disposed optimally while screwing and unscrewing.

All valves available on the market can be screwed and unscrewed due to the fully galvanized screwing bell.

The unit is operated easily by foot switch.



TECHNICAL DATA

| | |
|---------------------------|------------------------------|
| Dimensions (l x w x h) | approx. 1700 x 750 x 3100 mm |
| Max. height | approx. 3800 mm |
| Construction | steel construction |
| Motor with gear | 230/400 V, 50 Hz, 16 A |
| Compressed air connection | 5 bar |
| Motor | 3 kW |
| Weight | approx. 370 kg |
| Max. torque | 500 Nm |
| Colour | hammer finish painted blue |

Optional available at extra charge:

- » Two-hand operating of the clamping device
- » Extended shaft for cylinder height more than 1800 mm



ARM-1800-A (No. 709 000)

The machine for external cleaning, model ARM removes labels, stickers and varnishes from the top surface of steel bottles.

The machine is equipped with a soundproof cabine. The cleaning process of the steel bottles is effected by two rotating steel brushes. Due to the integrated height adjustment, steel bottles can be cleaned from 500 mm up to 1900 mm height. The diameter of the steel bottles can be 110 mm to 230 mm.

Through the inspection window on top of the front door, you are able to observe the whole cleaning process. Dust and abrasion will be extracted from the cabine with a separate suction feature.

The filter integrated in the suction feature is to eliminate the dust. Filter cleaning is effected pneumatically. Sucked materials are collected in a drawer.



TECHNICAL DATA

| | |
|------------------------|--|
| Dimensions (l x w x h) | approx. 1200 x 1100 x 3200 mm (+ control panel) |
| Max. height at work | 4200 mm |
| Construction | steel construction with aluminium casing |
| Motor | 230/400 V, 32 A |
| Compressed-air | 8 bar |
| Colour | hammer finish painted blue |

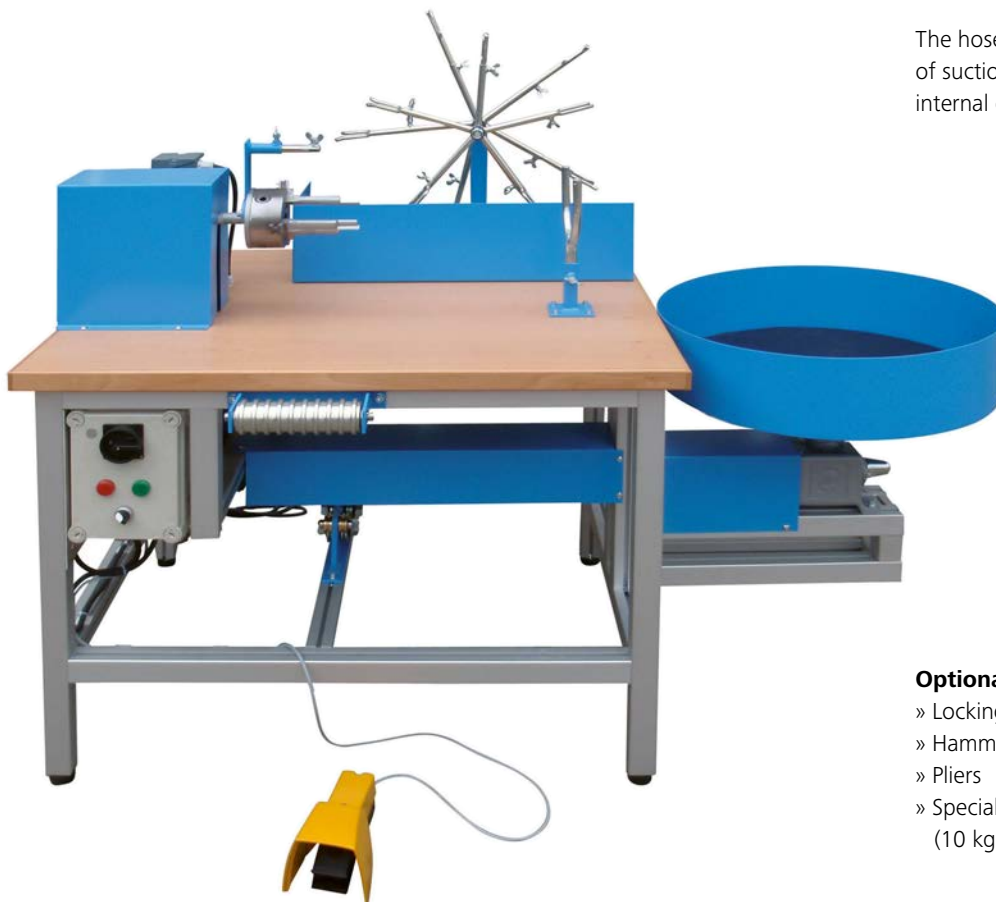
SEM-A (No. 801 000)

The Hose Binding Unit binds couplings of pressure and suction hoses with a coupling internal diameter of 34 – 110 mm. (A-D)

The unit consists of:

- » Three-jaw chuck
- » Height adjustable wire windlass
- » Wire guidance
- » Height adjustable hose guidance
- » Hose drum
- » Binding motor

The hose binding unit binds couplings of suction and pressure hoses with a coupling internal diameter of 38 – 110 mm.



Optional available at extra charge:

- » Locking ring removal tool
- » Hammer
- » Pliers
- » Special binding wire-in rings of (10 kg each) Ø 1.4 or 1.8 mm

TECHNICAL DATA

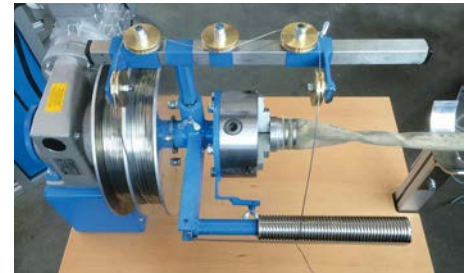
| | |
|------------------------|-------------------------------|
| Motor | 230/400 V, 10 A, 50 Hz |
| Construction | steel construction |
| Dimensions (l x w x h) | approx. 1750 x 1000 x 1550 mm |
| Weight | approx. 94 kg |
| Colour | hammer finish painted blue |

SEM-A-25/150 (No. 801 500)

The Hose Binding Unit binds couplings of pressure and suction hoses with a coupling internal diameter of 25 – 150 mm (A-F).

The unit consists of:

- » Three-jaw chuck
- » Height adjustable wire windlass
- » Wire guidance
- » Height adjustable hose guidance
- » Hose drum
- » Binding motor
- » Extendable, height-adjustable support for suction hoses
- » Engine with forward / reverse



Optional:

The hose binding machine SEM-A-25/150-T (No. 801 600) is equipped with a hinged hose tray.

The hose binding machine is available with wooden plate as well as with robust metal plate.



TECHNICAL DATA

| | |
|------------------------|-----------------------------|
| Motor | 230 V, 50 Hz, 10 A |
| Construction | aluminium |
| Dimensions (l x w x h) | approx. 800 x 600 x 1300 mm |
| Weight | approx. 94 kg |
| Colour | hammer finish painted blue |

S-SV (No. 803 000)

The universal Hose- and Safety Valve Testing Machine is characterized by high efficiency, easy handling and effectiveness in LEAKAGE and PRESSURE testing.



Universal testing unit for the testing of:

- » Fire extinguisher hoses with nozzle
- » Safety valves

The leakage and pressure testing procedure of safety valves for extinguishers (6 – 250 kg) is carried out with the help of adaptors selected according to make and type of safety valve.

For testing hoses with nozzle, you only require a nitrogen bottle as accessory.

The unit consists of:

- » Casing – steel construction
- » Cover – macrolone
- » Safety control valve – Pressure is relieved when the cover is open
- » N₂ hose 0 – 25 bar, 1.5 m
- » Fittings: 1 pc.
1 x M 15 x 1.5
Further fittings after customer need and against surcharge.

Optional accessory:

For testing of safety valves, adaptors according to the type of extinguisher are necessary.

TECHNICAL DATA

| | |
|------------------------|----------------------------|
| Dimensions (l x w x h) | approx. 800 x 200 x 400 mm |
| Weight | approx. 8 kg |
| Colour | hammer finish painted blue |

Trolley „FEUERLÖSCHER“ A8 (No. 920 100) · A10 (No. 920 150)

The EMDE Trolley model „Feuerlöscher“ A8 and A10 is used to hold fire extinguishers. The trolley is equipped with two steering/brake wheels and two fixed wheels.

Due to their aluminum rims with solid rubber tires, the wheels have hardly any rolling resistance and, despite their weight, guarantee easy mobility of the car even on rough terrain. The single wheel load is 400 kg.



Roll container fire extinguisher Model A8 (No. 920 100)

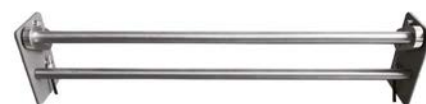
Transport trolley for holding 8 P12 fire extinguishers, P6 fire extinguishers and CO₂-extinguishers.

Roll container fire extinguisher Model A10 (No. 920 150)

Transport trolley for holding 10 pieces P12, P6 fire extinguishers 10 x CO₂-extinguishers

Licences and guidelines:

- » Complies with GGVSE (German regulations for the transportation of dangerous goods by road and rail)
- » Complies with "Guidelines for the design and use of non-powered trolleys by fire services" (Expert recommendation No. 2/2014 from the DFV (German Fire Service Association))



Options available at extra charge:

- » Kill switch (pull) (No. 950 999)
- » Kill switch (push) (No. 950 998)



TECHNICAL DATA

| | |
|------------------------|------------------------------|
| Dimensions (l x w x h) | approx. 1200 x 800 x 1000 mm |
| Construction | aluminium profile |
| Weight (empty) | approx. 40 kg |
| Loading | max. 500 kg |

Trolley for Bottles AT-28 (No. 900 400)

The EMDE Cylinder Trolley, model AT-28 is used for the storage and transportation of up to 28 steel cylinders of air for use with breathing apparatus. The cylinders (DIN 3171-1:2000-02) are stored in separate compartments.



The compartments are made from scratch-resistant plastic to guarantee good protection of the cylinders during storage. The trolley is fitted with 2 steering/ braking wheels and two fixed wheels. The wheels have Aluminium rims and solid rubber tyres to ensure the trolley has minimal rolling resistance and is easy to manoeuvre despite its weight even on rough ground. The single wheel load is 400 kg. The trolley doors can be locked. The 4 retaining rods are secured at both sides and prevent the air cylinders slipping during transportation.

The trolley is fitted with:

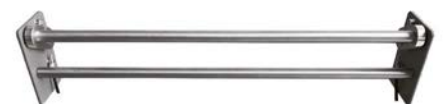
- » Lockable doors
- » 2 handles
- » 28 compartments for the storage of air cylinders for breathing apparatus with max. diameter of 150 mm

Licences and guidelines:

- » Complies with GGVSE (German regulations for the transportation of dangerous goods by road and rail)
- » Complies with "Guidelines for the design and use of non-powered trolleys by fire services" (Expert recommendation No. 2/2014 from the DFV (German Fire Service Association))

Options available at extra charge:

- » Kill switch (pull) (No. 950 999)
- » Kill switch (push) (No. 950 998)
- » Rubberised shelf as work surface (No. 905 505)



TECHNICAL DATA

| | |
|------------------------|------------------------------|
| Construction | aluminium profile |
| Weight | approx. 72 kg |
| Dimensions (l x w x h) | approx. 1200 x 800 x 1150 mm |
| Colour | hammer finish painted blue |

Available on request:

Cylinder trolley with larger compartments for the storage of composite cylinders (in accordance with DIN 3171-2:2000-02)

Trolley for Bottles AT-24-C (No. 900 450)

The EMDE Cylinder Trolley, model AT-24-C is used for the storage and transportation of up to 24 composite cylinders of air for use with breathing apparatus. The cylinders (DIN 3171-2:2000-02) are stored in separate compartments.

The compartments are made from scratch-resistant plastic to guarantee good protection of the cylinders during storage. The trolley is fitted with 2 steering/braking wheels and two fixed wheels. The wheels have Aluminium rims and solid rubber tyres to ensure the trolley has minimal rolling resistance and is easy to manoeuvre despite its weight even on rough ground. The single wheel load is 400 kg. The trolley doors can be locked. The 4 retaining rods are secured at both sides and prevent the air cylinders slipping during transportation.



The trolley is fitted with:

- » Lockable doors
- » 2 handles
- » 24 compartments for the storage of air cylinders for breathing apparatus with max. diameter of 180 mm

Licences and guidelines:

- » Complies with GGVSE (German regulations for the transportation of dangerous goods by road and rail)
- » Complies with "Guidelines for the design and use of non-powered trolleys by fire services"
- (Expert recommendation No. 2/2014 from the DFV (German Fire Service Association))

Options available at extra charge:

- » Kill switch (pull) (No. 950 999)
- » Kill switch (push) (No. 950 998)
- » Rubberised shelf as work surface (No. 905 505)



Available on request:

Cylinder trolley with larger compartments for the storage of composite cylinders (in accordance with DIN 3171-2:2000-02)

TECHNICAL DATA

| | |
|------------------------|------------------------------|
| Construction | aluminium profile |
| Weight | approx. 72 kg |
| Dimensions (l x w x h) | approx. 1200 x 800 x 1150 mm |
| Colour | hammer finish painted blue |

Cage Trolley (No. 903 000)

The Cage Trolley is used for the safe transportation and storage of various materials. It is fitted with two steering/braking wheels and two fixed wheels.

The wheels have Aluminium rims and solid rubber tyres to ensure the trolley has minimal rolling resistance and is easy to manoeuvre despite its weight. The single wheel load is 150 kg. The cage trolley has the same dimensions as a euro pallet and a total load capacity of 600 kg. The trolley is fitted with four lifting eyes, each with a single load capacity of 250 kg.



Version:

- » Without flap gate (No. 903 100)
- » Half flap gate, right (No. 903 000)
- » Half flap gate, left (No. 903 001)
- » Full flap gate, right (No. 903 200)
- » Full flap gate, left (No. 903 201)
- » Half flap gate, both sides (No. 903 400)
- » Full flap gate, both sides (No. 903 401)

Licences and guidelines:

- » Complies with GGVSE (German regulations for the transportation of dangerous goods by road and rail)
- » Complies with "Guidelines for the design and use of non-powered trolleys by fire services" (Expert recommendation No. 2/2014 from the DFV (German Fire Service Association))

Options available at extra charge:

- » Kill switch (pulling) (No. 950 999)
- » Kill switch (pressing) (No. 950 998)
- » Rail-bound undercarriage DB (No. 903 150)
- » Zinc plating (No. 903 500)
- » Cage trolley tank (No. 903 010)



TECHNICAL DATA

| | |
|------------------------|----------------------------------|
| Construction | powder-coated steel construction |
| Weight (empty) | approx. 90 kg |
| Finishing | powder coating |
| Dimensions (l x w x h) | approx. 1200 x 800 x 1150 mm |
| Colour | hammer finish painted blue |

Trolley for Cylinders RGW-15 (No. 900 100) · RGW-24 (No. 900 110)

The EMDE Frame Trolley for Cylinders, models RGW-15 and RGW-24 are used for the safe transportation of 15 or 24 air cylinders (up to 6.8 l) for use with breathing apparatus.

It is fitted with two steering/braking wheels and two fixed wheels. The wheels have plastic rims and solid rubber tyres to ensure the trolley has minimal rolling resistance and is easy to manoeuvre despite its weight. The single wheel load is 100 kg.



TECHNICAL DATA

RGW-15 (No. 900 100)

| | |
|------------------------|----------------------------|
| Construction | steel construction |
| Weight | approx. 25 kg |
| Dimensions (l x w x h) | approx. 800 x 600 x 850 mm |
| Colour | hammer finish painted blue |

TECHNICAL DATA

RGW-24 (No. 900 110)

| | |
|------------------------|-----------------------------|
| Construction | steel construction |
| Weight | approx. 29 kg |
| Dimensions (l x w x h) | approx. 1200 x 800 x 850 mm |
| Colour | hammer finish painted blue |

Big Box Trolley KU-K (No. 902 500) · KU-KK (No. 902 600)

The EMDE BIG BOX Trolley, model KU-K is used for the safe transportation of liquid and solid media up to a total weight of 500 kg. The trolley is fitted with two steering/braking wheels and two fixed wheels.

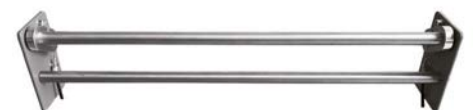
The wheels have Aluminium rims and solid rubber tyres to ensure the trolley has minimal rolling resistance and is easy to manoeuvre despite its weight even on rough ground. The single wheel load is 400 kg.



Also available as the model KU-KK with a flap gate at half height. (No. 902 600)

Licences and guidelines:

- » Complies with GGVSE (German regulations for the transportation of dangerous goods by road and rail)
- » Complies with "Guidelines for the design and use of non-powered trolleys by fire services" (Expert recommendation No. 2/2014 from the DFV (German Fire Service Association))



TECHNICAL DATA

| | |
|------------------------|--------------------------------------|
| Construction | aluminium substructure with HDPE box |
| Weight (empty) | approx. 45 kg |
| Load capacity | approx. 500 kg |
| Volume | approx. 530 l |
| Dimensions (l x w x h) | approx. 1200 x 800 x 950 mm |
| Colour | grey |

Options available at extra charge:

- » Kill switch (pulling) (No. 950 999)
- » Kill switch (pressing) (No. 950 998)
- » Plastic lid (No. 902 610)
- » Ball valve outlet (No. 902 615)

Breathing Apparatus Trolley AT BOX (No. 900 800)

The EMDE Trolley model AT-BOX is used to hold respiratory protection equipment in three levels stored in plastic boxes *. The trolley is made of aluminum and has two steering / braking and two fixed wheels.

* The boxes or the sizes of the boxes are available according to customer requirements.



The trolley is fitted with 2 steering/braking wheels and two fixed wheels. The wheels have Aluminium rims and solid rubber tyres to ensure the trolley has minimal rolling resistance and is easy to manoeuvre despite its weight even on rough ground. The single wheel load is 400 kg.

Licences and guidelines:

- » Complies with GGVSE (German regulations for the transportation of dangerous goods by road and rail)
- » Complies with "Guidelines for the design and use of non-powered trolleys by fire services" (Expert recommendation No. 2/2014 from the DFV (German Fire Service Association))



Options available at extra charge:

- » Kill switch (pull) (No. 950 999)
- » Kill switch (push) (No. 950 998)

TECHNICAL DATA

| | |
|-------------------------|--------------------------------|
| Construction | aluminium profile |
| Weight (empty) | approx. 65 kg |
| Dimensions (l x w x h) | approx. 1310 x 800 x 1450 mm |
| Dimension BOX (outside) | 810 x 400 x 340 mm incl. cover |
| Colour | hammer finish painted blue |

 made
in
Germany

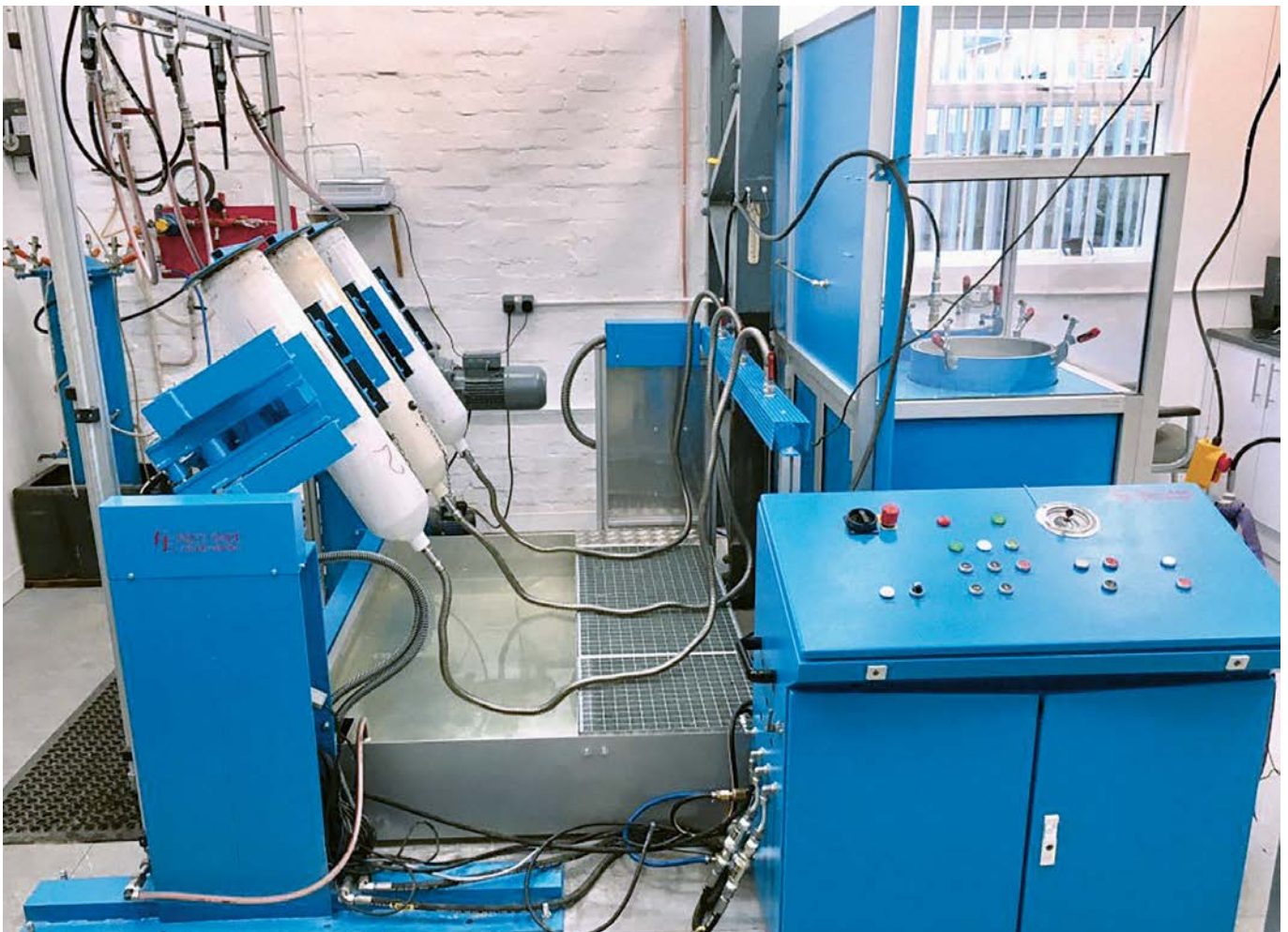
We are specialized in manufacturing equipment for Ships Service Companies. Due to our high requirements for quality, we are represented in service stations all over the world.

Call us: +49 1709358028 (Mr. Maik Syborg) – info@fritz-emde.de

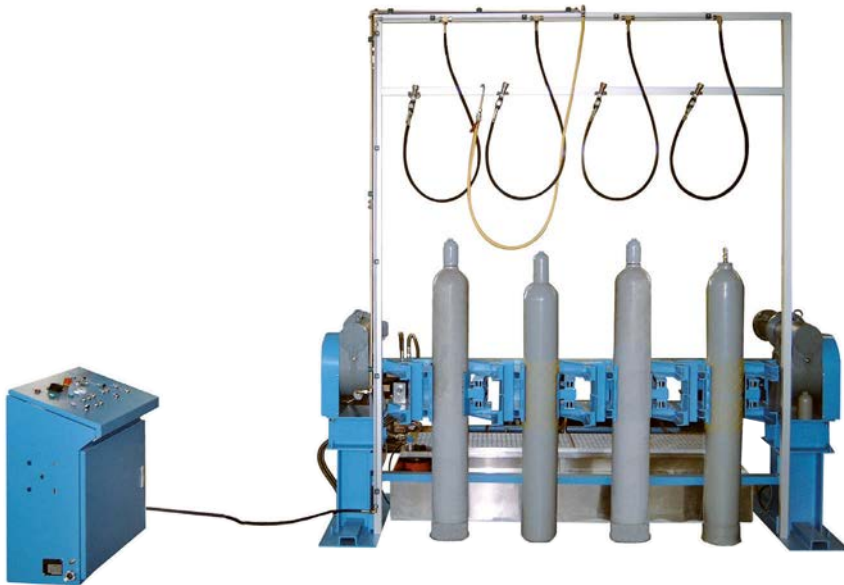
A workshop in a Ship Service Company should be equipped as follows:

- » Hydro Testing and Tilting Unit for Big Cylinders
- » Hydro Testing and Tilting Unit for Small Cylinder (Fire Extinguishers)
- » Drying Unit
- » Waterjacket Unit for Expansion Testing up to 450 bar
- » Valve Screwing Unit
- » CO₂ and N₂-Filling Unit for Life Raft Cylinders and CO₂-Extinguishers
- » CO₂-Filling Station
- » DCP Filling Unit for Powder Fire Extinguishers
- » N₂-Booster





Tilting Unit · No. 431 000



Mobile Drying Unit TR-F-6S · No. 503 000



High-Pressure Testing Unit
HD-TA-CFK · No. 407 000



Stationary High- and Low-Pressure Testing Unit
HD-ND3+3 · No. 473 000



Valving and Devalving Unit for Industrial Gas Cylinders
EA-150-PROTECT · No. 605 000



Combined Filling Unit for CO₂ and N₂
KUD6-DI-N2 · No. 261 000



Mobile Powder Filling Unit
PFF-SUMATIC-V40 · No. 113 000



CO₂-Control Station CO2-BS-2W · No. 271 000



FRITZ EMDE INTERNATIONAL



Kasseler Str. 48-50
34289 Zierenberg
Germany

Phone: + 49 (56 06) 56 159 – 8
Fax: + 49 (56 06) 56 159 – 99

Email: info@fritz-emde.de
Web: www.fritz-emde.com