



EVACUATING AND REFILLING DEVICE

For evacuation of air and refilling of gas compartments from SF₆ gas bottles by overpressure

3-001-4-R002

Evacuating and refilling device

Mobile as cylinder cart

3-001-4-R022

Evacuating and refilling device with electronic weighing scales 0 - 120 kg

Mobile as cylinder cart

3-001-4-R122

Evacuating and refilling device with electronic weighing scales 0 - 150 kg

Mobile as cylinder cart

In practice the device covers two important functions. The integrated vacuum pump is the core component of the device. This vacuum pump evacuates the air down to < 1 mbar so that no air/gas mixture is produced during the subsequent filling process. The well proven DILO coupling principle ensures safe handling without emission.

Using the 3-001-4-R022 version, the filling weight can be registered comfortably by means of a weighing scale. The weight is indicated on the illuminated display which switches off automatically if the scales are not used for a certain time. Thanks to the tare function high precision quantification of gas inputs and outputs is possible.



- Stable frame
- Accuracy of the weighing scales ±20 g (±50 g only for 3-001-4-R122), 10 g increments
- Integrated serial interface for data exchange or monitoring
- No emissions by self-closing couplings
- Available as accessories for the world's most commonly used bottle connections
- Hose reel
- Couplings can be exchanged without any gas loss
- Primary gauge NG63, class 1.6 / Secondary gauge NG100, class 1.0

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3-001-4-R002 / R022 / R122

Evacuating and refilling device

Technical data 3-001-4-R002:

Dimensions: L 540 mm, W 570 mm, H 1,360 mm
Weight: 63 kg
Operating voltage: 220 - 240 V / 50 - 60 Hz alternating current

Technical data 3-001-4-R022:

Dimensions: L 720 mm, W 570 mm, H 1,510 mm
Weight: 73 kg
Operating voltage: 220 - 240 V / 50 - 60 Hz alternating current
Weighing range: 0 - 120 kg with tare function / accuracy: ± 20g (only for 3-001-4-R022)
Weighing range: 0 - 150 kg with tare function / accuracy: ± 50g (only for 3-001-4-R122)
Digital display with internal battery (IP65)
Integrated serial interface for data exchange or monitoring
Weight indication reversible from kg to lbs
Power supply: internal battery (12 V / 2.5 Ah) with battery charger / running time in continuous operation up to 20 hours
Protection class: IP65
Operating temperature: +5 to +40 °C

Standard equipment:

vacuum pump for air (16 m ³ /h [at 50 Hz]; 19m ³ /h [at 60 Hz]), final vacuum < 1 mbar
Ball valve with hand wheel
Gauge 0 to -1,200 mbar
Two 6 m long wire-braided hoses DN8
DILLO coupling tongue parts DN8 and DN20
SF ₆ bottle connection W 21.8 x 1/14"
Pressure reducer for SF ₆ (0 up to 10 bar), indication in bar / psi / kPa
Paint: orange (RAL 2004)
Electrical connecting cable 3 m
operating manual

Optional equipment (mounted) at an extra charge:

Additional price for electrical special voltage 100 V / 50 - 60 Hz or 110 - 120 V / 60 Hz	6-0005-R030
Additional price for electrical special voltage 127 V / 50 Hz or 200 V / 50 - 60 Hz	6-0005-R138



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Optional accessories at an extra charge:

American SF ₆ bottle connection with 0.96" Whitworth left-handed thread	3-334-R002 P
Chinese SF ₆ bottle connection with G 5/8 thread	3-643-R002 P
English SF ₆ bottle connection with G 5/8 thread	3-245-R004 P
4 m long cable with M12 plug connectors for serial data exchange	05-1602-R304
Electrical connecting cable 3 x 1.5 AWG 13 (available lengths 5 - 50 m)	6-1053-R001
operating manual	6-0004-R213

Spare parts kit:

Annual maintenance package for vacuum pump	6-1048-R111
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Packing:

Packing for 3-001-4-R002	3-262-R001-C
Packing for 3-001-4-R022 / R122	3-262-R006-C