

L030R02V2

Piccolo Series

Service carts for small gas compartments

The service carts of the Piccolo series for liquid gas storage have been specially designed for modern switchgear with small gas compartments. Equipped with the well-proven DILO components these service carts enable the recovery, filling and purification of SF₆ gas as well as the evacuation and venting of small gas compartments. The Piccolo series allows gas recovery down to < 1 mbar and thus considerably exceeds the demanded values of IEC guideline 62271-4.

Due to its compact construction these devices fit conveniently onto a euro pallet for transport and are easily movable even in the very narrow passage ways of gas-insulated switchgear. Modern control technology in conjunction with a user-friendly interface in several languages make device operation simple and convenient. Operation via mobile end devices such as smartphones, tablets or laptops is available as an option. This series offers semi-automated operation via a 3.5" touch screen with protective cover shielding from sunlight and dust. A smart device for "smart grids".



Standard version

- B100R40 oil-free DILO compressor (3.2 m³/h, [at 50 Hz], 50 bar; 3.8 m³/h [at 60 Hz], 50 bar)
- oil-free suction pump for recovery of SF₆ (3 m³/h [at 50 Hz]; 3,6 m³/h [at 60 Hz], final vacuum < 1 mbar)
- vacuum pump for evacuation of air; delivery rate (configurable)
- dry filter (water absorption capacity: 60 g at a dew point of -36 °C)
- particle filter 1 µm
- operation and indication of the important process parameters via 3.5" touch screen with protective cover
- indication units in bar / mbar, kPa or psi / torr to be selected on the touch screen
- forklift slots
- crane eyelets
- fixing and steerable rollers
- 3 m long storage connecting hose DN8 with DILO coupling tongue part DN20
- most common global cylinder connections
- digital weighing scales for SF₆ cylinders (with automatic switch-off function), 0 - 120 kg with tare function, accuracy ± 0.02 %
- wrenches for DILO couplings and filters
- paint: orange

Special features

- Gas recovery: < 1 mbar
- Filling of gas: 0 - 10 bar
- Evacuation of air: < 1 mbar
- Maximum storage pressure: 50 bar
- Recommended gas quantity: < 100 kg
- Operation: semi-automatic
- DIL0 couplings: DN20

Advantages & functions

- SF₆ gas recovery down to < 1 mbar
- reversing switch for correcting the direction of rotation
- integrated special functions for easy maintenance and safe transport
- stowage tray for accessories

Technical data

Dimensions (W x H x D)	800 x 1,170 x 1,200 mm - Standard version
Weight	300 kg above mentioned version
Ambient temperature	0 to +45 °C
Operating temperature	0 to +45 °C
Storage temperature	-20 to +60 °C
Sound level	< 82 dB
Protection class	IP54



Configuration

Screen	
3,5" touch panel	
3,5" touch panel + WLAN	
Operating voltage	
208-240V 60Hz	
380-460V 50Hz or 380-480V 60Hz	
200V 50/60Hz	
600V 60Hz	
210-240V 50Hz	
Delivery rate of vacuum pump	
without vacuum pump	
25m ³ /h, < 1mbar (S01-S03)	
25m ³ /h, < 1mbar (S04)	
25m ³ /h, < 1mbar (S05)	
Device covering	
without device covering	
with tarpaulin	
Dew point control + automatic operation	
w/o dew point / w/o automatic	
with dew point / w/o automatic	Dew point control for dry filter integrated into service carts, type L030R02V1 or special versions dew point sensor FA415/FA545 with power outlet 4..20mA
w/o dew point / with automatic	Automatic switch-off function when reaching the corresponding final values for the functions: Recovery of SF ₆ , Filling of SF ₆ and Evacuation of air, incl. solenoid valve into the filling line
with dew point/with automatic	Dew point control for dry filter integrated into service carts, type L030R02V1 or special versions dew point sensor FA415/FA545 with power outlet 4..20mA and automatic switch-off function when reaching the corresponding final values for the functions: Recovery of SF ₆ , Filling of SF ₆ and Evacuation of air, incl. solenoid valve into the filling line

Optional accessories

6-1017-R050	5 m long rubber hose DN20 with DILO coupling tongue part DN20 on both ends
6-1017-R100	10 m long rubber hose DN20 with DILO coupling tongue part DN20 on both ends
6-1365-R050	5 m long wire braided hose DN20 with DILO coupling tongue part on both ends PN 64 bar
6-1365-R100	10 m long wire-braided hose DN20 with DILO coupling tongue part on both ends PN 64 bar
6-1048-R302	Annual maintenance package for SF ₆ dry filter, particle filter and vacuum pump (25 m ³ /h)
6-1081-R020	Spare parts kit for compressor
6-1101-R111	Spare filter kit (SF ₆ dry and particle filter)
6-1053-R002/1M	Electrical connecting cable 5x2,5 AWG13 (available lengths 5 - 30 m)

Packaging

3-751-R013-C	Packing for L030R02
--------------	---------------------



Note

For the 380 - 480 V voltage range the following cable is required: 6-1053-R002

For the 208 - 240 V voltage range the following cable is required: 6-1053-R002

