



MINI SERIES SERVICE CART

The compact and mobile unit meets all requirements for efficient gas handling in the medium voltage range. An ergonomic, compact design along with fast SF₆ recovery were the main focus during research and development of the Mini Series Service Cart.

The maintenance unit allows gas recovery down to a final vacuum of < 5 mbar and keeps pace with large devices. All necessary functions are integrated including gas purification via dry filter and particle filters as well as gas storage in liquid form. Operation of the device via color touch panel sets a new standard in this device category as icons are clearly displayed for a quick overview of the entire process.

Equipped with four solid tires, the unit can be conveniently moved on uneven ground and gravel. The integrated tool box keeps hoses and accessories neatly stored. Thus the B143R11 is a compact, efficient and user-friendly device complying with the requirements in the MV field.

- Device for liquid storage of SF₆ gas
- SF₆ gas recovery down to < 5 mbar
- Semi-automatic control and 3.5" color touch panel
- DN20 coupling for recovery, evacuation and filling operations
- Digital weighing scales for SF₆ bottles
- Residual gas recovery down to 5 mbar during filter change
- Reduction to transport pressure as integrated special function
- Remote connection ability (w/router and DILO Direct Connect services)



Technical Data:

Dimensions:	27" L, 30" W, 51" H (L 690 mm, W 750 mm, H 1,300 mm)
Weight:	397 lbs/180 kg (without storage bottle)

Standard Equipment:

Oil-free compressor (1.6 m ³ /h [at 50 Hz], 50 bar; 1.9 m ³ /h [at 60 Hz], 50 bar)
Vacuum compressor for SF ₆ gas recovery (3.3 m ³ /h, final vacuum < 5mbar)
Vacuum pump for air [19 m ³ /h (at 60 Hz), final vacuum < 1 mbar]
Dryer and particle filter
Pressure reducer
Digital weighing scales for SF ₆ bottles (with automatic switching off), 0 - 120 kg with tare function, accuracy ± 20 g
Indication in bar / mbar, Pa, psi / torr (reversible on the touch panel)
(2) Aluminum storage cylinders (Approximate capacity 47 lbs SF ₆)
5m service hose with 3-1121-R003 (DN20 quick coupling) attached
Wireless operation via mobile device
Router
Two (2) year DILO Direct Connect service plan for remote maintenance
Virtual Operational Equipment Training*



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Operating Voltage (compatible with):

220 - 240 V (-5% / +0%) 50/60 Hz AC single phase power (standard)
110-127 V / 50-60 Hz single phase power (with included transformer)

Hose Options:

5 foot (1.5 m) stainless steel braided DN8 hose with DN8 couplings on one end and ball valve with CGA590 bottle connection on the other	6-1376-R015
16 foot (5 m) stainless steel wire braided DN20 hose with DN8 couplings on one end and DN20 on the other PN40 bar	6-1359-R050
33 foot (10 m) stainless steel wire braided DN20 hose with DN8 couplings on one end and DN20 on the other PN40 bar	6-1359-R100
16 foot (5 m) rubber DN20 hose with DN20 couplings on both ends	6-1017-R050
33 foot (10 m) rubber DN20 hose with DN20 couplings on both ends	6-1017-R100
16 foot (5 m) stainless steel wire braided DN20 hose with DN20 couplings on both ends PN40 bar	6-1024-R050
33 foot (10 m) stainless steel wire braided DN20 hose with DN20 couplings on both ends PN40 bar	6-1024-R100
16 foot (5 m) stainless steel braided hose with DN20 couplings on both ends PN64 bar	6-1365-R050
33 foot (10 m) stainless steel braided hose with DN20 couplings on both ends PN64 bar	6-1365-R100

Accessories:

Adapter Kit	<ul style="list-style-type: none"> • Connection adapters for common breaker types. • Watertight, crushproof, and dust proof case with custom cut foam for each fitting and a second layer for additional storage 	Testing & Filling DN8 Adapter Kit
High Capacity Pre-Filter Unit:	<ul style="list-style-type: none"> • Drier filter for processing of moisture and arc byproducts • Particle filter • DILo DN20 self-sealing connections 	B077R22
Pre-Filter Cores For B077R22	Particle filter core	B077-06
Pre-Filter Cores For B077R22	Moisture and decomposition core	B077-10
Additional 6.6ft. Wire-Braided Service Hose	<ul style="list-style-type: none"> • Can be used in conjunction with the above listed pre-filter • DN20 female couplers 	6-1365-R020
External Cylinder Weight Scale	<ul style="list-style-type: none"> • Resolution: 0.1lbs. Digital display with upper set-points • Accuracy +/- 0.1lbs (Exceeding the accuracy requirements by EPA & CARB minimum standard of +/- 2 lbs) • Small, lightweight and stable with AC power supply or batteries 	K091R165
Optional Cylinder Weight Scale Case	Transport case for the K091R165 Cylinder Weight Scale	K091R165-Case
Tarp Cover for B143	Protective / removable tarp cover	05-0885-R080
Automatic Shutdown Software	For recovery and evacuation functions	K141R21

Spare Parts Kit:

Annual maintenance package for SF ₆ dry filter, particle filter and vacuum pump (16 m ³ /h)	6-1048-R203
Spare parts kit for compressor	6-1081-R010
Spare parts kit for vacuum compressor	05-1489-R200
Spare part kit (SF ₆ dry and particle filter)	6-1101-R101