

L057R01V1
Economy Series

The model range for universal applications

This series for liquid gas storage not only captivates with its compact construction and modern design, but also combines state-of-the-art technology with ergonomics. It is a real all-rounder and covers all practical requirements on a user-friendly device: ranging from the integrated drawer for tools, adapters and hoses to the digital weighing scales. Modern control technology in conjunction with a user-friendly interface in several languages make device operation simple and convenient. Operation via mobile devices such as smartphones, tablets or laptops is available as an option. The external cover of the device protects the integrated components and considerably reduces noise. This series offers fully automated operation via a 10" touch screen with protective cover shielding from sunlight and dust. The swivelling touch screen allows ergonomic working at the optimum working height. For data exchange additional USB and Ethernet connections are integrated. Thanks to the automated special functions the devices can be easily maintained without emissions.



The actual product may differ slightly from the image.

Standard version

- B280R51 oil-free DILO compressor; delivery rate: [6.5 m³/h (at 50/60 Hz)] at medium suction pressure with SF₆
- oil-free suction pump for recovery of SF₆ gas [16,7 m³/h (at 50 Hz); 20 m³/h [at 60 Hz], final vacuum 1 mbar)
- vacuum pump for evacuation of air; delivery rate (configurable)
- evaporator (max. flow rate 200 kg/h)
- dry filter (water absorption capacity: 175 g at a dew point of -36 °C)
- particle filter 1 µm
- operation and indication of the important process parameters via 10" 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 (configurable)
- drawer for tools and accessories
- 2 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: anthracite-orange

Special features

- Gas type: SF₆
- Gas recovery: < 1 mbar
- Filling of gas: 0 - 10 bar
- Evacuation of air: < 1 mbar
- Maximum storage pressure: 50 bar
- Recommended gas quantity: < 300 kg
- Operation: automatic
- DILO couplings: DN20

Advantages & functions

- SF₆ gas recovery down to 1 mbar
- optional remote control via mobile devices
- reversing switch for correcting the direction of rotation
- integrated special functions for easy maintenance and safe transport
- all versions are available with pressure vessels (integratable features) with CE marking or optionally with SQL or ASME approval
- the service carts can also be mounted onto a trailer

Technical data

Dimensions (W x H x D)	950 x 1,350 x 1,850 mm - Standard version
Weight	755 kg above-mentioned version
Dimensions (W x H x D)	950 x 1,860 x 1,850 mm - Version: 300 l pressure vessel, with electronic weight indication, fixing and steerable rollers
Weight	1,120 kg above-mentioned version
Dimensions (W x H x D)	950 x 1,985 x 1,850 mm - Version: 600l pressure vessel, with electronic weight indication, fixing and steerable rollers
Weight	1,340 kg above-mentioned version
Dimensions (W x H x D)	1,050 x 1,945 x 2,500 mm - Version: 300l pressure vessel, with electronic weight indication, chassis with solid tyre wheels
Weight	1,350 kg above-mentioned version
Dimensions (W x H x D)	1,050 x 2,075 x 2,500 mm - Version: 600 l pressure vessel, with electronic weight indication, chassis with solid tyre wheels
Weight	1,650 kg above-mentioned version
Dimensions (W x H x D)	1,050 x 2,075 x 2,500 mm - Version: stowage including 5 SF ₆ cylinders with electronic weight indication, chassis with solid tyre wheels
Ambient temperature	0 to +45 °C
Operating temperature	0 to +45 °C
Storage temperature	-20 to +60 °C
Protection class	IP54
Sound level	< 70 dB
Maximum delivery capacity compressor	14,6 m ³ /h at suction pressure with SF ₆ and a back pressure of 26 bar (50 Hz)
Maximum delivery capacity compressor	15,5 m ³ /h at suction pressure with SF ₆ and a back pressure of 26 bar (60 Hz)
Medium delivery capacity compressor	6.5 m ³ /h at suction pressure with SF ₆ and a back pressure of 50 bar (50/60 Hz)

Configuration

Screen	
10" touch screen	Operation of the device and indication of the process parameters via 10" colour touch screen
10" touch screen + WiFi	Operation of the device and indication of the process parameters via 10" colour touch panel, including WIFI connection for the operation via mobile devices
10" touch screen+WiFi+Cosy NA	
10" touch screen+WiFi+Cosy EU	
Operating voltage range	
208-240V 60Hz	208 - 240 V / 60 Hz, three-phase current
380-460V 50Hz; 380-480V 60Hz	380 - 460 V / 50 Hz or 380 - 480 V / 60 Hz, three-phase current
200V 50/60Hz	200 V / 50 - 60 Hz, three-phase current
208-240V 50Hz	208 - 240 V / 50 Hz, three-phase current
600V 60Hz	600 V / 60 Hz, three-phase current
208-240V 60Hz (USA)	208 - 240 V / 60 Hz, three-phase current
480V 60Hz (USA)	480 V / 60 Hz, three-phase current
Vacuum pump	
Without vacuum pump	
40m ³ /h; <1mbar(S01-03+S06+S07)	Vacuum pump for evacuation of air (40 m ³ /h at 50 Hz, 48 m ³ /h at 60 Hz, final vacuum < 1 mbar)
40m ³ /h; <1mbar (S04)	Vacuum pump for evacuation of air (40 m ³ /h at 50 Hz, 48 m ³ /h at 60 Hz, final vacuum < 1 mbar)
40m ³ /h; <1mbar (S05)	Vacuum pump for evacuation of air (40 m ³ /h at 50 Hz, 48 m ³ /h at 60 Hz, final vacuum < 1 mbar)
63m ³ /h; <1mbar(S01-03+S06+S07)	Vacuum pump for evacuation of air (63 m ³ /h at 50 Hz, 76 m ³ /h at 60 Hz, final vacuum < 1 mbar)
63m ³ /h; <1mbar (S04)	Vacuum pump for evacuation of air (63 m ³ /h at 50 Hz, 76 m ³ /h at 60 Hz, final vacuum < 1 mbar)
63m ³ /h; <1mbar (S05)	Vacuum pump for evacuation of air (63 m ³ /h at 50 Hz, 76 m ³ /h at 60 Hz, final vacuum < 1 mbar)
100m ³ /h;<1mbar(S01-03+S06+S07)	Vacuum pump for evacuation of air (100 m ³ /h at 50 Hz, 120 m ³ /h at 60 Hz, final vacuum < 1 mbar)
100m ³ /h; <1mbar (S04)	Vacuum pump for evacuation of air (100 m ³ /h at 50 Hz, 120 m ³ /h at 60 Hz, final vacuum < 1 mbar)
100m ³ /h; <1mbar (S05)	Vacuum pump for evacuation of air (100 m ³ /h at 50 Hz, 120 m ³ /h at 60 Hz, final vacuum < 1 mbar)
60m ³ /h; <0,0067mbar(S01-04;07)	Vacuum pump for evacuation of air, two-stage vacuum pump with exhaust filter, type RH0060, nominal suction capacity: 55 m ³ /h at 50 Hz, 65 m ³ /h at 60 Hz, final vacuum 0.0067 mbar
60m ³ /h; <0,0067mbar (S05)	Vacuum pump for evacuation of air, two-stage vacuum pump with exhaust filter, type RH0060, nominal suction capacity: 55 m ³ /h at 50 Hz, 65 m ³ /h at 60 Hz, final vacuum 0.0067 mbar
Automatic control + exhaust monitoring	

without K141R11 and K203R01	Without automatic switch-off function (SF ₆ gas recovery, evacuation of air, filling of SF ₆) when reaching the corresponding final values, without exhaust monitoring for vacuum pump (additional SF ₆ sensor at the vacuum pump which terminates the function "Evacuation of air / N ₂ " automatically when detecting SF ₆ gas in the exhaust air for avoiding an inadvertent loss of SF ₆ gas).
with K141R11; without K203R01	With automatic switch-off function (SF ₆ gas recovery, evacuation of air, filling of SF ₆) when reaching the corresponding final values, without exhaust monitoring for vacuum pump (additional SF ₆ sensor at the vacuum pump which terminates the function "Evacuation of air / N ₂ " automatically when detecting SF ₆ gas in the exhaust air for avoiding an inadvertent loss of SF ₆ gas).
without K141R11; with K203R01	Without automatic switch off function (SF ₆ gas recovery, evacuation of air, filling of SF ₆) when reaching the corresponding final values, with exhaust monitoring for vacuum pump (additional SF ₆ sensor at the vacuum pump which terminates the function "Evacuation of air / N ₂ " automatically when detecting SF ₆ gas in the exhaust air for avoiding an inadvertent loss of SF ₆ gas).
with K141R11; with K203R01	With automatic switch-off function (SF ₆ gas recovery, evacuation of air, filling of SF ₆) when reaching the corresponding final values, with exhaust monitoring for vacuum pump (additional SF ₆ sensor at the vacuum pump which terminates the function "Evacuation of air / N ₂ " automatically when detecting SF ₆ gas in the exhaust air for avoiding an inadvertent loss of SF ₆ gas).
Filling pressure + emptying of storage vessel	
K205R01 (10 bar) w/o K204R01	Filling of gas compartment with SF ₆ up to max. pa 10 bar. The storage vessel connected for filling (cylinder, internal / external pressure vessel) can be recovered down to atmospheric pressure.
K205R02 (15 bar) w/o K204R01	Filling of gas compartment with SF ₆ up to max. pa 15 bar. The storage vessel connected for filling (cylinder, internal / external pressure vessel) can be recovered down to atmospheric pressure.
K205R01 (10 bar) with K204R01	Filling of gas compartment with SF ₆ up to max. pa 10 bar. The storage vessel connected for filling (cylinder, internal / external pressure vessel) can be recovered down to < 1 mbar.
K205R02 (15 bar) with K204R01	Filling of gas compartment with SF ₆ up to max. pa 15 bar. The storage vessel connected for filling (cylinder, internal / external pressure vessel) can be recovered down to < 1 mbar.
Device covering	
Standard sheet-metal covering	With sheet-metal covering for the complete device
K029R67	With tarpaulin
Integrateable features (pressure vessel, chassis and rollers)	
Without rollers	
steerable and fixing rollers	With fixing and steerable rollers
chassis with solid tyre wheels	Chassis with solid tyre wheels, diameter 400 mm
300l / 50bar CE / rollers	B179R01L057 300 l / 50 bar pressure vessel in accordance with Directive 2014/68/EU and CE marked with electronic weight indication and fixing and steerable rollers
600l / 50bar CE / rollers	B179R02L057 600 l / 50 bar pressure vessel in accordance with Directive 2014/68/EU and CE marked with electronic weight indication and fixing and steerable rollers

300l / 50bar CE / chassis	B179R11L057 300 l / 50 bar pressure vessel in accordance with Directive 2014/68/EU and CE marked with electronic weight indication and chassis with solid tyre wheels
600l / 50bar CE / chassis	B179R12L057 600 l / 50 bar pressure vessel in accordance with Directive 2014/68/EU and CE marked with electronic weight indication and chassis with solid tyre wheels
Stowage w/o cylinders, chassis	B175R60L057 Stowage with electronic weight indication, without SF ₆ cylinders, with chassis with solid tyre wheels
Stowage w. 5 cylinders, chass.	B175R61L057 Stowage with electronic weight indication, with 5 SF ₆ cylinders and chassis with solid tyre wheels
Trailer without stowage	B088R19 Service cart mounted on a car trailer, without stowage for cylinders
Trailer w. storage,w/o cylind.	B175R72L057 2-axle car trailer, TÜV-approved, stowage with weighing device without SF ₆ cylinders, including tarpaulin, side and back walls opened by pneumatic springs
300l / 50bar SQL;CN / rollers	300 l / 50 bar pressure vessel with SQL approval (Made in China), electronic weight indication and fixing and steerable rollers
Trailer w. stowage w. 4 cylin.	B175R71L057 2-axle car trailer, TÜV-approved, stowage with weighing device with 4 SF ₆ cylinders, including tarpaulin, side and back walls opened by pneumatic springs
600l / 50bar SQL;CN / rollers	600 l / 50 bar pressure vessel with SQL approval (Made in China), electronic weight indication and fixing and steerable rollers
300l / 50bar SQL;CN / chassis	300 l / 50 bar pressure vessel with SQL approval (Made in China), electronic weight indication and chassis with solid tyre wheels
600l / 50bar SQL;CN / chassis	600 l / 50 bar pressure vessel with SQL approval (Made in China), electronic weight indication and chassis with solid tyre wheels
300l / 50bar SQL;GE / rollers	300 l / 50 bar pressure vessel with SQL approval (Made in Germany), electronic weight indication and fixing and steerable rollers
600l / 50bar SQL;GE / rollers	600 l / 50 bar pressure vessel with SQL approval (Made in Germany), electronic weight indication and fixing and steerable rollers
300l / 50bar SQL;GE / chassis	300 l / 50 bar pressure vessel with SQL approval (Made in Germany), electronic weight indication and chassis with solid tyre wheels
600l / 50bar SQL;GE / chassis	600 l / 50 bar pressure vessel with SQL approval (Made in Germany), electronic weight indication and chassis with solid tyre wheels
300l / 50bar ASME / rollers	300 l / 50 bar pressure vessel with ASME approval, electronic weight indication and fixing and steerable rollers
600l / 50bar ASME / rollers	600 l / 50 bar pressure vessel with ASME approval, electronic weight indication and fixing and steerable rollers
Stowage w. 5 bottles, rollers	B175R62L057 Stowage with electronic weight indication, with 5 SF ₆ cylinders and fixing and steerable rollers
300l/50bar Austr.st. / chassis	300 l / 50 bar pressure vessel in accordance with Australian standard with electronic weight indication and chassis with solid tyre wheels

Dew point control + parallel operation

w/o K129R08, w/o parallel ope.	Without dew point control for dry filter, without additional coupling DN20 for evacuation of air and recovery or filling of SF ₆ gas at the same time
K129R08 - w/o parallel operat.	With dew point control for dry filter, without additional coupling DN20 for evacuation of air and recovery or filling of SF ₆ gas at the same time
w/o K129R08, with K177R12	Without dew point control for dry filter, with additional coupling DN20 for evacuation of air and recovery or filling of SF ₆ gas at the same time
K129R08 and K177R12	With dew point control for dry filter, with additional coupling DN20 for evacuation of air and recovery or filling of SF ₆ gas at the same time
Transport lock	
without transportation lock	Without transportation lock for fixing and steerable rollers.
with transportation lock	With transportation lock for fixing and steerable rollers to store the device in a safe way (e.g. on a truck) and to relieve the load from the fixing- and steerable rollers.
Vacuum indication	
Standard indication	0 - 100 mbar, resolution 0.1 mbar
High-precision indication A	Vacuum sensor for gas compartment A, indicating range 1x10-5 mbar
High-precision indication B	Vacuum sensor for gas compartment B, indicating range 1x10-5 mbar
High-precision indication A+B	Vacuum sensor for gas compartment A and gas compartment B, indicating range 1x10-5 mbar

Optional accessories

B077R22	Portable pre-filter unit (p _e 50 bar)
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-R435	Annual maintenance package for SF ₆ dry and particle filter and 6-1048-R401 vacuum pump
6-1048-R436	Annual maintenance kit with 6-057VP-R001 / R002 vacuum pump
6-1048-R437	Annual maintenance kit for L057R01 with 2-stage 6-057VP-R007 vacuum pump
6-1373-R013	Spare parts kit for compressor (piston rings)
6-1373-R004	Spare parts kit for compressor (valve seats)
6-1101-R123	Spare parts kit (SF ₆ dry and particle filters)
6-1053-R003/1M	Electrical connecting cable 5x6 AWG9 (available lengths 5 - 30 m)
6-1053-R004/1M	Electrical connecting cable 5x16 AWG5 (available lengths 5 - 30 m)

Packaging

3-751-R010-C	Packing for all devices without pressure tank
3-788-R023-C	Packing for L057R01 with 6-057FG-R001 as option (chassis)
3-751-R001-C	Packing for devices with 300 l, 600 l (steerable and fixing rollers)
3-788-R011-C	Packing with stowage and weighing device/pressure tank with chassis
3-688-R005-C	Transport pallet mounted on a trailer

Note

For the 380 - 480 V voltage range the following cable is required: 6-1053-R003

For the 200 - 240 V voltage range the following cable is required: 6-1053-R004