

Technical Specification

➤ SMART SF6 CUSTOMER SPECIFIED

- Adopts internationally advanced high-pressure liquefaction design principle.
- Equipped with self-regenerating drying filter.
- Fully automatic control with 10-inch PLC touch screen displaying the working process
- Display units: mbar, bar.
- Power phase-sequence changeover switch
- Air-cooled, mobile design – can be used without a water source
- External weighing device: cylinder weight displayed on the touch screen; supports tare weighing and automatic shut-off
- Tool kit included
- Swivel casters and fixed wheels
- Paint colour: RAL 2004.



Equipment Performance Parameters

Parameter	Value
Type/Model	Fully automatic, high-pressure Liquefaction, air-cooled, hand-push Mobile
Operating ambient temperature	-10° C ~ +40° C
Recovery – Initial pressure (bar)	8
Recovery – Final pressure (mbar)	≤ 1
Filling – Initial pressure (mbar)	≤ 1
Filling – Final pressure (bar)	≤ 10
Vacuum extraction – Ultimate vacuum (Pa)	≤ 1
Post – recovery SF6 moisture content (ppm/v)	≤ 60
Gas purity	
Oil content (ppm/g)	0
Liquefaction method	High-pressure liquefaction
Drying filter regeneration method	Vacuum- heated activation regeneration
Power supply	Customer specified
Total power (Kw)	≤ 7
Noise level dB(A)	≤ 70
Overall dimensions (LxWxH, mm)	1200 x 800 x 1200
Equipment weight (kg)	≤ 350

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Main Component Specifications

Oil- Free Compressor

Parameter	Value
Theoretical displacement (m ³ /h)	6
Maximum discharge pressure (bar)	50

Vacuum Compressor

Parameter	Value
Theoretical displacement (m ³ /h)	5.8
Ultimate vacuum (mbar)	≤ 1

Vacuum Pump

Parameter	Value
Pumping speed (m ³ /h)	25
Ultimate vacuum (mbar)	≤ 1

Touch Screen

10-inch colour touch screen.

Moisture Filter

Self-regenerating drying filter for moisture removal.

Particulate Filter

Removes particulate matter from SF6 gas.

External Weighing Device

Range: 0-120 kg; it is independent.

Accessories

- DN8 liquid-charging hose, 3 m, one end with G5/8 threads for cylinder connection.
- DN20 high-pressure hose, 5 m x 2 pcs, with DN20 self-sealing valves.
- Operation manual (Chinese , English and Spanish)

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➤ **SF6 Gas Refilling Device**



Technical Specification

Component	Specification
Pressure Regulator	1-unit Chinese Brand
High-Precision Gauge	0.25- class accuracy, 0-10 bar range
Inflatable connector	DN8 Self-sealing coupling
Inflatable connector	DN20 Self-sealing coupling
DN8 Inflation Hose	5m length, reinforced rubber
Portable Protection Case	Impact-resistant, foam-lined interior (DILO :3-393-R002)

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➤ **SF6 Leakage Detector LF-03-FR**



Technical Specification

Power Source	AC 100 – 240 V / 50 – 60 Hz
Detection Principle	NDIR non-dispersive infrared (dual-beam), infrared sensor
Range	0-1000 PPM (customizable)
Accuracy	≤± 2% F.S. (full-scale)
Sensitivity	0.1 ppm
Response Time	≤ 4 seconds
Preheat Time	≤ 3 minutes
Operation	Handheld suction design
Humidity Resistance	≤ 90% RH
Display	Dual-screen setup: 800 x 480 main LCD, 320 x 240 handle LCD
Interface	Resistive touchscreen control
Wooden Carton Packing	57 x 42 x 21 cm
Gross Weight	12 kgs

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➤ SF6GasAnalyzer

Technical Specification

SF6 Gas Decomposition Product Detection Module

Parameter	Value
Measurement range (SO2)	0 ~ 100 µl/l
Accuracy (SO2)	± 10%
Resolution (SO2)	0.1 µ/L
Response time	≤ 60 s



Overall Instrument Parameters

Parameter	Value
AC power Supply	AC 100 – 240 V / 50 – 60 Hz
Charger specification	DC 28 V / 5 A
Battery	18650 lithium battery, 21.6 V / 20 Ah
Operating time	>10 h
Display	7 inch color touch screen
Pump back function	Yes
Inlet pressure	0.1-0.7 MPa
Backfill pressure	Max: 0.7 MPa
Dimensions (LxWxH)	562 x 440 x 240 mm
Weight	Approx. 27 kg

SF6 Purity Detection Module

Parameter	Value
Measurement range	0 ~ 100%
Accuracy	≤ ± 0.5%
Repeatability	≤ ± 0.2%
Resolution	0.01 %
Response time	≤ 60 s

SF6 Moisture (Dew Point) Detection Mode

Parameter	Value
Dew point range	-60° C ~ +20° C
Measurement accuracy	± 2° C
Response time (+20° C)	-60° c -> +20° C: 30 s (60 s) +20° C -> -60°: 60 s (600 s)
Resolution	Dew point: 0.1° C
Repeatability	± 1° C

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