SF₆ service equipment For filling, cleaning and recovery of SF₆ gas Models GPU-B-2000 and GPU-B-3000

WIKA data sheet SP 63.15

Applications

Filling, cleaning, recovery, evacuation and venting of SF_6 gas-filled switchgear, linear accelerators and other SF_6 gas-filled equipment

Special features

- Oil-free compressor and vacuum compressor
- Option for on-site gas filtration to the desired humidity
- Low maintenance effort
- Operation via 10" touchscreen



SF₆ service equipment with 300-litre tank

Description

The right instrument for each application -The GPU platform

The gas-handling equipment of the GPU platform enable the complete process from initial filling to processing to be carried out safely and intuitively.

The platform is available in 4 versions.

- Model GPU-B-2000
 SF₆ service equipment in fully automated basic version
- Model GPU-S-2000
 SF₆ service equipment with additional SIL 2 safety control
- Model GPU-B-3000 SF₆ service equipment at the highest performance level
- Model GPU-S-3000
 SF₆ service equipment with additional SIL 2 safety control and the highest performance level

High standards and quality - model series B

Like the entire product series, the fully automated basic model offers high-performance components and an optimum design. The products have a USB port and an Ethernet port for remote maintenance. The 10" IntelliTouch touchscreen promises a comfortable and intuitive handling.

All models of the GPU platform are available with a filter process that allows the SF_6 gas to be brought to a lower humidity value directly on-site. Optionally, the GPU can be equipped with a WIKA gas humidity sensor, model GDHT-20, which enables filtering to a target value.

The SF₆ service equipment is an efficient and reliable solution that exceeds the current IEC standards for handling SF₆ gas. Low downtimes through long service intervals of more than 2,000 hours, or two years with a max. running time of 600 hours per year, make them an extremely durable product that is always ready for use.

WIKA data sheet SP 63.15 $\,\cdot\,$ 01/2022



Page 1 of 5

Specifications

Voltage supply

- AC 400 V, 3-phase, 50/60 Hz ±10 %
- AC 240 V, 3-phase, 50/60 Hz ±10 %
- AC 208 V, 3-phase, 50/60 Hz ±10 %

Oil-free compressor (SF ₆ gas)		
Gas flow rate	Output pressure	
 6 m³/h at 50 Hz 7.3 m³/h at 60 Hz 	50 bar abs.	
 10.2 m³/h at 50 Hz 12.3 m³/h at 60 Hz 	50 bar abs.	
 15 m³/h at 50 Hz 18.5 m³/h at 60 Hz 	50 bar abs.	

Oil-free vacuum compressor (SF ₆ gas)		
Gas flow rate	Final vacuum	
 4.8 m³/h at 50 Hz 5.8 m³/h at 60 Hz 	< 5 mbar abs.	
10 m³/h at 50/60 Hz	< 1 mbar abs.	
 15 m³/h at 50 Hz 18 m³/h at 60 Hz 	< 1 mbar abs.	
 35 m³/h at 50 Hz 42 m³/h at 60 Hz 	< 1 mbar abs.	

Vacuum pump (air) ¹⁾		
Gas flow rate	Final vacuum	
 25 m³/h at 50 Hz 30 m³/h at 60 Hz 	< 0.1 mbar abs.	
 40 m³/h at 50 Hz 48 m³/h at 60 Hz 	< 0.1 mbar abs.	
 63 m³/h at 50 Hz 76 m³/h at 60 Hz 	< 0.1 mbar abs.	
 100 m³/h at 50 Hz 120 m³/h at 60 Hz 	< 0.1 mbar abs.	

1) Oil-free on request

Integrated tank, storage capacity

- Without tank
- 300 litres
- 600 litres
- Stowage for 6 gas cylinders
- Stowage for 10 gas cylinders

Integrated gas cylinder scales

Without scales

- Without scales with pull-out. fixed to the GPU Measuring range: 0 ... 120 kg Accuracy: ±50 g
- Mobile scales
 Measuring range: 0 ... 136 kg
 Accuracy: ±68 g

Connections		
GIS	1 valve DN 20, pressure range 0 10 bar abs.	
Gas cylinder	2 valves DN 20, pressure range 0 50 bar abs.	
Atmosphere (optional)	1 valve DN 20, pressure range 0 1.2 bar abs.	

Filter element

Molecular sieve, aluminium oxide, particle filter 1 μm Max. water absorption: 75 g

Control element

10" touchscreen

Permissible ambient temperature

Operation: -10 ... +40 °C [14 ... 104 °F] Storage: -20 ... +60 °C [-4 ... +140 °F]

Permissible air humidity

< 95 % r. h. (non-condensing)

Ingress protection

IP42

Weight	
Without tank	Approx. 665 kg
With empty 300-litre tank	Approx. 1,000 kg
With empty 600-litre tank	Approx. 1,300 kg
With empty stowage for 6 gas cylinders	Approx. 1,050 kg
With empty stowage for 10 gas cylinders	Approx. 1,175 kg

Tyres

Solid rubber, Ø 200 mm, with rollover protection

Options

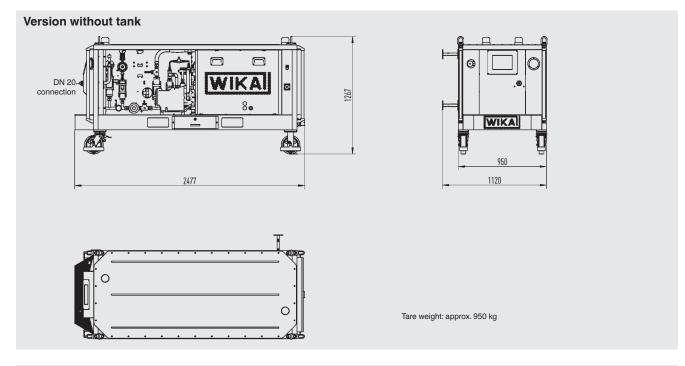
- Humidity sensor to measure the humidity content and filtering to a target humidity value
- Additional process connection for the simultaneous evacuation and recovery or filling
- Evaporators

Approvals

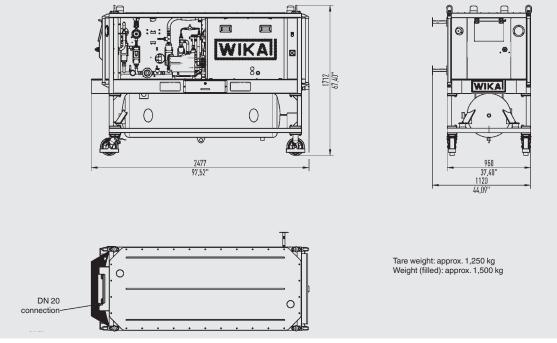
Logo	Description	Country
CE	EU declaration of conformity	European Union
	EMC directive, EN 61326 emission (group 1, class B) and immunity (industrial application)	
	RoHS directive	
	Machinery directive	

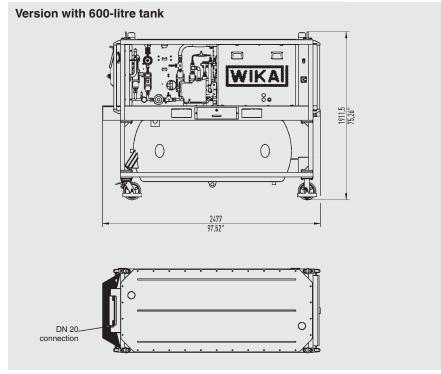
 \rightarrow For approvals and certificates, see website

Dimensions in mm



Version with 300-litre tank

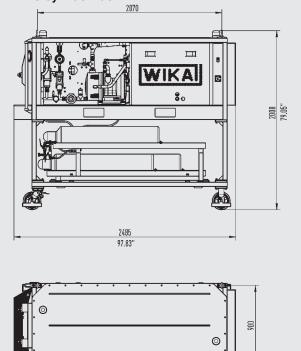




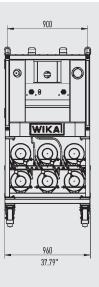


Tare weight: approx. 1,500 kg Weight (filled): approx. 2,000 kg

Version with 6-cylinder-rack



2068



Tare weight: approx. 1,050 kg

Accessories

Hoses		Order number	
Nominal width	Length	Stainless steel	Rubber
DN 8	3 m	14294449	On request
	5 m	14330878	On request
	10 m	14335098	On request
	15 m	14307929	On request
DN 20	3 m	14290070	On request
	5 m	14307900	On request
	10 m	14327574	On request
	15 m	14307926	On request

Adapter	Order number
DN 8 (male) to DN 20 (female), brass	14096583
DN 8 (female) to DN 20 (male), brass	14284870

Spare parts and service kits	Order number
Oil for vacuum pump, 1 litre	On request
GPU-x-x000 filter set	14418175
Service kit for compressor (SF ₆ gas)	On request (serial number of the equipment is required)
Service kit for vacuum compressor (SF ₆ gas)	On request (serial number of the equipment is required)
Service kit for vacuum pump (air)	On request (serial number of the equipment is required)
Tarpaulin GPU-x-x000	14182499 (only for version with 300-litre tank)
Pavilion with side pieces for outdoor use	14182512
Trailer	On request

Ordering information

Model / Oil-free vacuum compressor (SF₆ gas) / Vacuum pump (air) / Integrated tank, storage capacity / Accessories

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Page 5 of 5