# SF<sub>6</sub> service equipment For filling, cleaning and recovery of SF<sub>6</sub> gas Model GPU-B-3000



WIKA data sheet SP 63.17

# 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-less compressor and vacuum compressor
- Option for on-site gas filtration to the desired humidity
- Low maintenance effort
- Fast recovery of SF<sub>6</sub> gas for large gas compartments thanks to high-performance components



#### SF<sub>6</sub> service equipment with 300-litre tank

### Description

#### The right equipment for each application -The GPU platform

The gas-handling equipments 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
   SF<sub>6</sub> service equipment in fully automated basic version
- Model GPU-S-2000
   SF<sub>6</sub> service equipment with additional SIL2 safety control
- Model GPU-B-3000 SF<sub>6</sub> service equipment at the highest performance level
- Model GPU-S-3000
   SF<sub>6</sub> service equipment with additional SIL2 safety control and the highest performance level

#### High standards and quality - model series B

Like the entire product range, 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 optionally available with a filter process that allows the  $SF_6$  gas to be brought to the desired humidity directly on site.

The SF<sub>6</sub> service equipment is an efficient and reliable solution that exceeds the current IEC standards for handling SF<sub>6</sub> gas. Low downtimes through long service intervals of more than 2,500 hours make them an extremely durable product that is always ready for use.



# Specifications

#### Voltage supply

Voltage supply	
Option 1	AC 360 440 V, 3-phase, 50/60 Hz
Option 2	AC 220 265 V, 3-phase, 50/60 Hz
Option 3	AC 190 230 V, 3-phase, 50/60 Hz

#### Oil-less compressor (SF<sub>6</sub> gas)

Oil-less compressor (SF <sub>6</sub> gas)		
Gas flow rate	19 m <sup>3</sup> /h (with medium suction pressure)	
Output pressure	50 bar abs.	

#### Oil-less vacuum compressor (SF<sub>6</sub> gas)

Oil-less vacuum compressor (SF <sub>6</sub> gas)		
	Gas flow rate	Final vacuum
Option 1	15 m³/h	< 1 mbar abs.
Option 2	35 m³/h	< 1 mbar abs.

#### Vacuum pump (air)

Vacuum pump (air)			
	Gas flow rate	Final vacuum	
Option 1	25 m³/h	< 1 mbar abs.	
Option 2	40 m <sup>3</sup> /h	< 1 mbar abs.	
Option 3	63 m³/h	< 1 mbar abs.	
Option 4	100 m <sup>3</sup> /h	< 1 mbar abs.	

#### Integrated tank, storage capacity

Integrated tank, storage capacity		
Option 1	without tank	
Option 2	300 litres	
Option 3	600 litres	
Option 4	Stowage for 6 gas cylinders	

#### Integrated gas cylinder scales

Integrated gas cylinder scales		
Option 1	without scales	
Option 2	Measuring range 0 136 kg Tare function Accuracy ±30 g	

#### Connections

Connections		
Standard	1 valve DN 20, pressure range 0 10 bar abs.	
	2 valves DN 20, pressure range 0 50 bar abs.	
Option (additi- onal coupling)	1 valve DN 20, pressure range 0 1.2 bar abs. Simultaneous evacuation, recovery or filling	

#### Filter element

Molecular sieve, aluminium oxide, particle filter 1  $\mu m$  Max. water absorption: 75 g

#### **Control element**

10" touchscreen

#### Permissible input and output pressure

 $\leq$  10 bar abs.  $\leq$  50 bar abs. at high-pressure connection

#### Permissible ambient temperature

Operation: -10 ... 40 °C Storage: -20 ... +60 °C

#### Permissible air humidity

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

#### Ingress protection IP42

#### Weight

approx. 665 kg without tank approx. 1,000 kg with empty 300-litre tank approx. 1,300 kg with empty 600-litre tank approx. 1,050 kg with empty gas cylinder stowage

#### Tyres

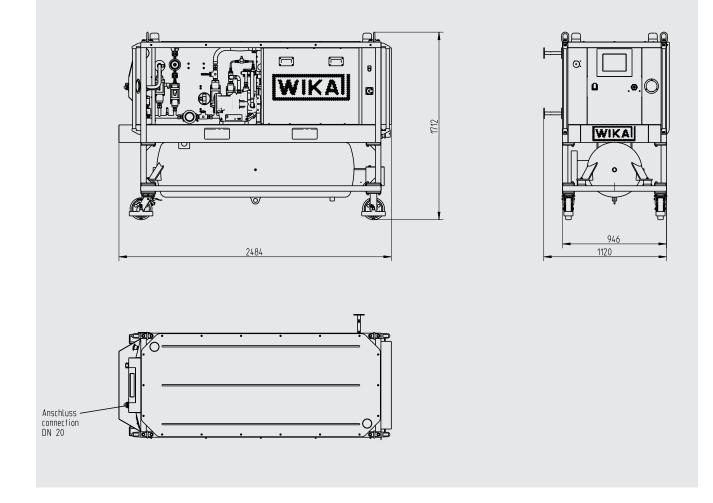
Solid rubber, Ø 200 mm, with rollover protection

# Approvals

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

Approvals and certificates, see website

### **Dimensions in mm**



### 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	14199926
Filter cartridge for GPF-10	14118800
Filter cartridge for particle filter	14140385
Service kit for compressor (SF <sub>6</sub> gas)	on request (serial number of the system is required)
Service kit for vacuum compressor (SF <sub>6</sub> gas)	on request (serial number of the system is required)
Service kit for vacuum pump (air)	on request (serial number of the system is required)
Rain cover GPU-x-x000	14182499
Pavillion with side pieces for outdoor applications	14182512
Trailer	on request

**Ordering information** 

Model / Oil-less vacuum compressor (SF<sub>6</sub> gas) / Vacuum pump (air) / Integrated tank, storage capacity / Accessories

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