

Portable SF₆ transfer unit Model GTU-10

WIKA data sheet SP 63.07

EAC

Applications

- Pumping SF₆ gas out of equipment into gas cylinders
- Consolidating part-filled SF₆ gas cylinders
- Filling of SF₆ gas-insulated equipment

Special features

- High compressor performance
- Compact dimensions
- Robust version for the service
- Clear display of the working pressure



Portable SF₆ transfer unit, model GTU-10

Description

Portable service equipment series

The model GTU-10 SF₆ transfer unit is a module of the portable service equipment series.

Modules of the series:

- Portable vacuum pump, model GVP-10
- Portable SF₆ filter unit, model GPF-10
- Portable SF₆ vacuum compressor, model GVC-10
- Portable SF₆ transfer unit, model GTU-10
- Portable SF₆ gas cylinder scale, model GWS-10

The model GTU-10 is an instrument developed specifically for SF₆ gas. Due to the selection of the oil-free running compressors, contamination of the SF₆ gas by lubricant is eliminated.

The compact dimensions of the model GTU-10 are ideal for mobile use. The fields of application range from the storage of SF₆ gas in gas tanks to the filling of SF₆ gas-insulated switches.

During storage of the SF₆ gas, the compressor can liquefy the gas in the storage vessel. Thus, the maximum storage capacity of a gas cylinder can be used. The connected storage vessels and supply lines must therefore be designed and approved for at least 50 bar pressure.

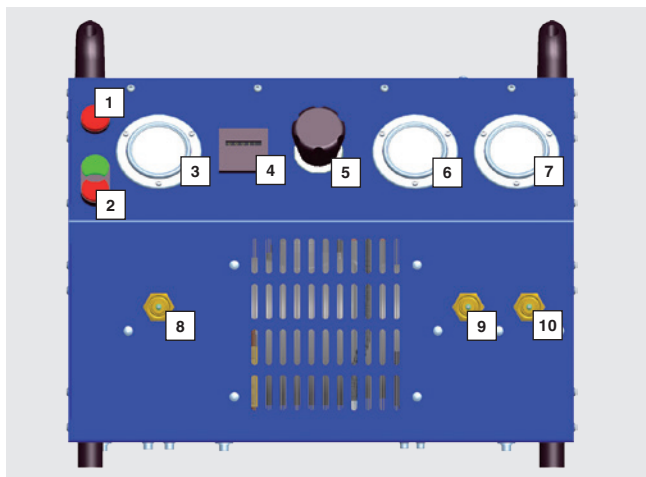
Functionality

The compressor is connected to the input and output sides with appropriate fittings and hoses.

After switching on the compressor, the SF₆ gas is transported from the input to the output. With rising filling pressure, the SF₆ gas is liquefied in the storage vessel with minimum space requirements. The compressor automatically switches off when reaching 40 bar abs., and the overpressure warning lamp illuminates.

Switching on again is only possible once the pressure at the output has dropped below 36 bar abs.

Depending on the selection of the output valve (10 = output not pressure-reduced, 9 = output pressure-reduced) the gas drawn in is pumped into the connected vessel via the output hose. The desired filling pressure can thus be set exactly at the built-in pressure reducer.



- 1 Overpressure warning lamp
- 2 On/Off switch
- 3 Pressure display, inlet pressure
- 4 Operating hours counter
- 5 Pressure reducer
- 6 Pressure display, output pressure reducer
- 7 Pressure display output pressure
- 8 Valve coupling, inlet, DN 8
- 9 Valve coupling, outlet pressure reducer, DN 8
- 10 Valve coupling, outlet, DN 8

Specifications

Gas flow rate

1.1 m³/h

Permissible inlet and outlet pressure

≤ 40 bar abs. (580 psia)

Pressure reducer, outlet pressure

0 ... 16 bar (0 ... 232 psig)

Power supply

Available versions	
Standard	AC 230 V, 50 Hz/60Hz, ±10 %
Option	AC 115 V, 60 Hz, ±10 %

Permissible ambient temperature

Storage: -20 ... +60 °C (-4 ... +140 °F)

Operation: 5 ... 40 °C (41 ... 104 °F)

Permissible humidity

≤ 90 % r. h. (non-condensing)

Ingress protection

IP20 (per EN 60529)

Weight

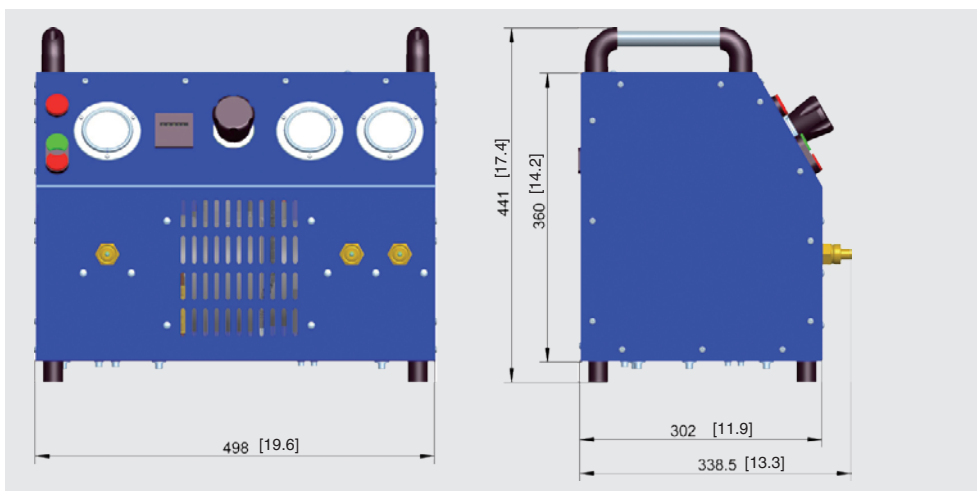
approx. 30 kg (66 lbs)

Approvals

Logo	Description	Country
CE	EU declaration of conformity <ul style="list-style-type: none"> ■ EMC directive EN 61326 emission (group 1, class B) and interference immunity (industrial application) ■ Machinery directive ■ RoHS directive 	European Union
EAC	EAC <ul style="list-style-type: none"> ■ EMC directive ■ Low voltage directive ■ Machinery directive 	Eurasian Economic Community

Approvals and certificates, see website

Dimensions in mm [inch]



Accessories

Connecting hoses

Designation	Order number	
	Stainless steel	Rubber
Hose with self-sealing valves, DN 8		
Length 3 m (9.8 ft)	14225424	14064928
Length 6 m (19.7 ft)	14225507	14064929
Length 12 m (39.4 ft)	14225513	14064931
Length 15 m (49.2 ft)	14225522	14064933

Adapter

Designation	Order number
Adapter for GA45 gas recovery bag	
DN8 to quick connector	14068883
Adapter for gas cylinder	
DN8 to W21.8 x 1/14" per DIN 477 No. 6	14074524
DN8 to 0.96" 15/16" CGA 590	14074523
DN8 to 1" per DIN 477 No. 8	14074521
DN8 to G 5/8" per BS 341 No. 6	14074525

Gas recovery bag

Designation	Order number
Gas recovery bag, model GA45 For specifications see data sheet SP 62.08	14013015

Ordering information

Model / Power supply / Accessories

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