

# Portable SF<sub>6</sub> vacuum compressor

## For extracting SF<sub>6</sub> gas

### Model GVC-10

WIKA data sheet SP 63.13

#### Applications

- Module of the instrument series for the maintenance of SF<sub>6</sub> gas-filled equipment.
- Extraction of SF<sub>6</sub> gas

#### Special features

- Extraction up to residual pressure < 5 mbar abs.
- Free from oil and lubricants
- High leak tightness
- Vibration resistant and quiet
- Cool running in continuous operation



Portable SF<sub>6</sub> vacuum compressor, model GVC-10

## Description

### Portable service equipment series

The model GVC-10 vacuum compressor is a module of the portable service equipment series.

Modules of the instrument series:

- Portable vacuum pump, model GVP-10
- Portable SF<sub>6</sub> filter unit, model GPF-10
- Portable SF<sub>6</sub> vacuum compressor, model GVC-10
- Portable SF<sub>6</sub> transfer unit, model GTU-10
- Portable SF<sub>6</sub> gas cylinder scale, model GWS-10

### Optimised extraction

In order to extract SF<sub>6</sub> gas compartments up to a residual pressure of 5 mbar abs., the model GVC-10 vacuum compressor is combined with the model GTU-10 transfer unit. The extracted SF<sub>6</sub> gas is pumped into a gas tank at the outlet of the module system.

### Free from oil and lubricants

A pump which has been specifically optimised for this instrument series runs in the vacuum compressor.

The pump principle is particularly suited for SF<sub>6</sub> gas, as the wetted conveying chamber is completely separated from the pump drive. As a consequence, the process remains free from oil and lubricants.

### Safe gas extraction

The self-closing valves at the inlet and outlet ensure a safe gas extraction. Thus, it can be excluded that SF<sub>6</sub> gas escapes into the atmosphere.

## Specifications

### Pump version

Free from oil and lubricants

### Gas flow rate (at reference conditions)

3.6 m<sup>3</sup>/h

### Permissible inlet and outlet pressure

≤ 12 bar abs. (174 psia)

### Starting conditions

Inlet pressure ≤ 1.2 bar abs. (17.4 psia)

### Internal bypass

Inlet pressure > 1.2 ... 12 bar abs. (17.4 ... 174 psia)  
(Pump will not start)

### Residual pressure following extraction

< 5 mbar abs. (0.07 psia)

### Power supply

Available versions	
Standard	AC 230 V, 50/60 Hz, ±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

IP 20 (per EN 60529)

### Weight

30 kg (66 lbs)

## Reference conditions

### Inlet pressure

1 bar abs. (14.5 psia)

### Outlet pressure

approx. 1 bar abs. (14.5 psia)

### Ambient temperature

20 °C (68 °F)

## CE conformity

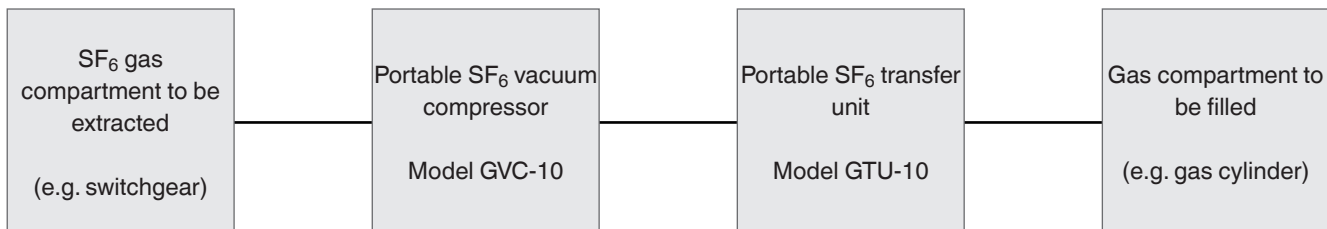
### EMC directive

2014/30/EU, EN 61326 emission (group 1, class B) and interference immunity (industrial application)

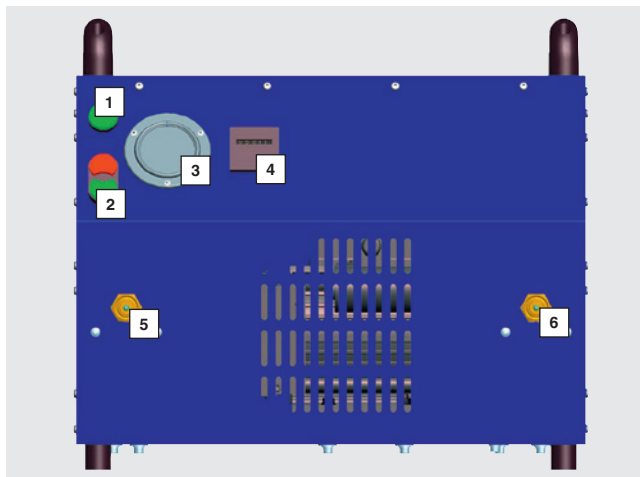
### Machinery directive

2006/42/EC

## System structure in schematic form

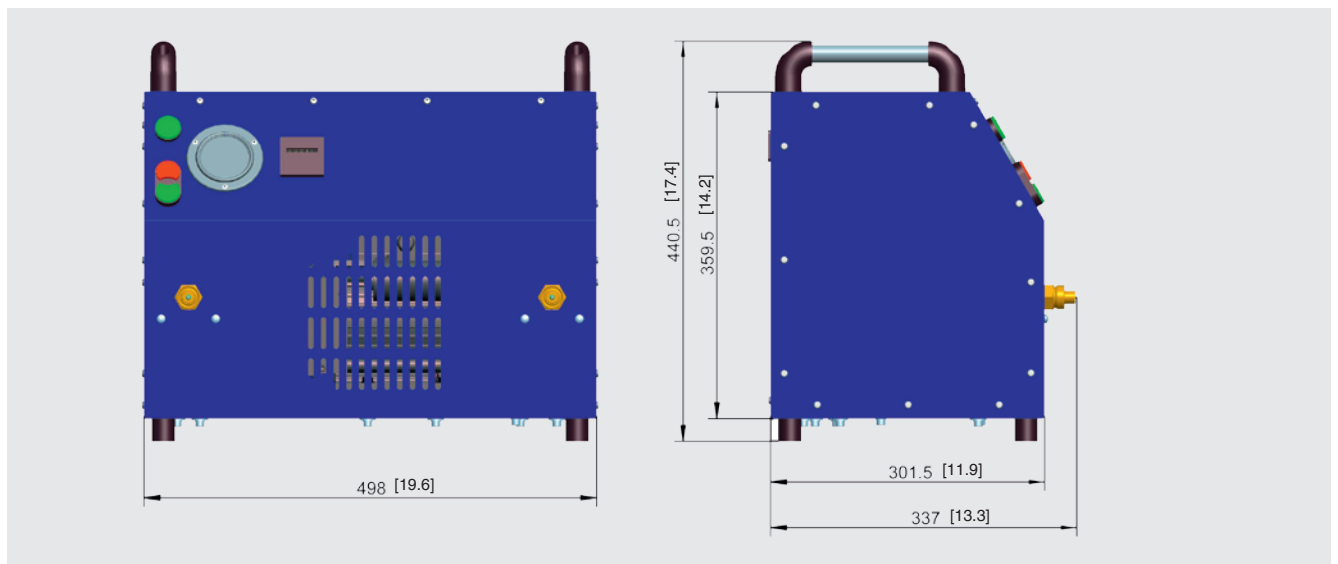


## Lettering and controls



- 1 Signal lamp (green), pump in service
- 2 ON/OFF switch (white signal lamp signals readiness for operation)
- 3 Pressure display, inlet pressure
- 4 Operating hours counter
- 5 Valve coupling, inlet, DN 8
- 6 Valve coupling, outlet, DN 8

## Dimensions in mm [inch]



## Accessories

Designation	Order no.
<b>Connecting hose with self-closing valves, DN 8</b>	
Stainless steel, length 3 m (9.8 ft)	14225424
Stainless steel, length 6 m (19.7 ft)	14225507
Stainless steel, length 12 m (39.4 ft)	14225513
Stainless steel, length 15 m (49.2 ft)	14225522
Rubber, length 3 m (9.8 ft)	14064928
Rubber, length 6 m (19.7 ft)	14064929
Rubber, length 12 m (39.4 ft)	14064931
Rubber, length 15 m (49.2 ft)	14064933
<b>Adapter for gas cylinder</b>	
DN 8 to W21.8 x 1/14" per DIN 477 No. 6	14074524
DN 8 to CGA590 0.960" 15/16"	14074523
DN 8 to 1" per DIN 477 No. 8	14074521
DN 8 to G 5/8" per BS 341 No. 6	14074525
<b>Maintenance set vacuum compressor</b>	14100021
Sealing elements for pump room	

## Ordering information

Model / Power supply / Accessories

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