

Portable SF₆ filter unit

Model GPF-10

WIKA data sheet SP 63.11

Applications

- Module for the maintenance of SF₆ gas-filled equipment
- Treatment of contaminated SF₆ gas

Special features

- 3-in-1 filter cartridge for filtering out particles, reactive decomposition products and humidity
- Easily replaceable filter cartridge
- High gas flow rate through flow optimisation
- Robust and reliable sealing construction
- Corrosion protection through anodised filter case



Portable SF₆ filter unit, model GPF-10

Description

Portable service equipment series

The model GPF-10 filter unit is a module of the portable service equipment series.

Modules of the instrument 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 scales, model GWS-10

Efficient protection from contaminants

As research has shown, decomposition products such as HF, SO₂, SF₄ and SOF₄ can form in gas-insulated equipment with discharges or failures. The model GPF-10 SF₆ filter unit ensures reliable treatment of contaminated SF₆ gas.

The particles found in decomposed SF₆ gas, such as aluminium fluoride (AlF₃) or copper fluoride (CuF₂) are effectively retained by the integrated particle filter, so that the operator does not come into contact with these substances.

The filter unit is arranged upstream of the GVC-10 and GTU-10 modules and prevents these from being damaged through particles, humidity and decomposition products. Following filtration, in the best case, the SF₆ gas can be reused.

Replaceable filter cartridge

The filter cartridge can be replaced easily and within a few minutes. Thus the service equipment is operational again and fully effective within the shortest of time.

Optimised design

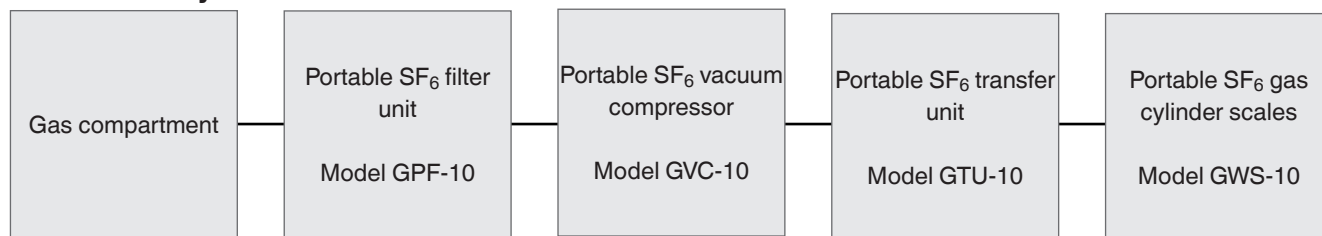
When designing the filter unit, emphasis was placed on a high gas flow rate and a robust construction. The anodised aluminium case makes the GPF-10 suitable for outdoor use and resistant against corrosion.

The case reseals securely after a filter change and prevents any emission of environmentally harmful SF₆ gas.

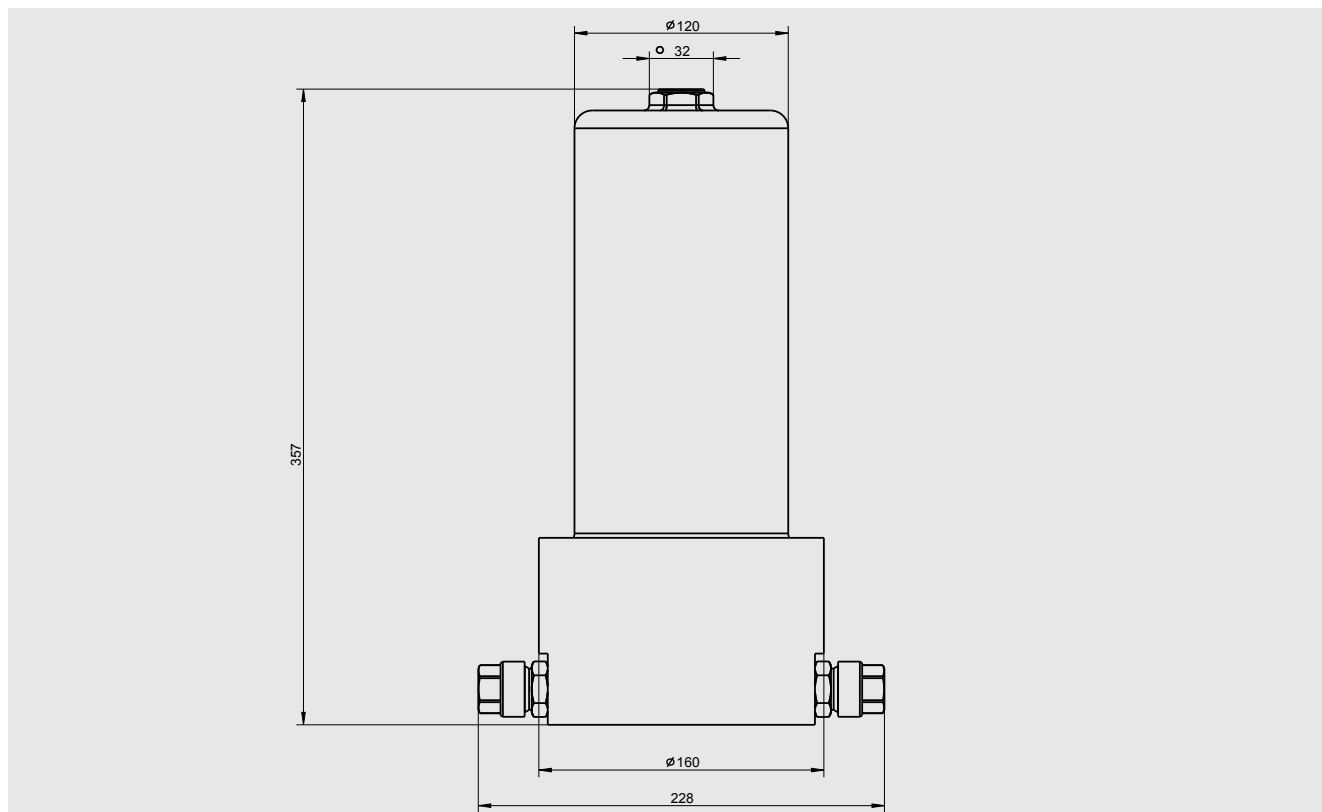
Specifications

Specifications	
Case material	Anodised aluminium, corrosion-resistant
Filter element	<ul style="list-style-type: none"> ■ Molecular sieve, aluminium oxide, particle filter 1 µm ■ Max. water absorption: 75 g
Permissible operating pressure	Max. 50 bar
Permissible ambient temperature	
Storage	-20 ... +50 °C [-4 ... +122 °F]
Operation	0 ... 50 °C [32 ... 122 °F]
Permissible air humidity	< 80 % r. h.
Connections	
Standard	2 valves DN 8 (brass, M26 x 1.5), model GCV-08 2 protective caps from aluminium, model GCP-08
Option	2 valves DN 20 (brass, M26 x 1.5), model GCV-20 2 protective caps from aluminium, model GCP-20 → For details, see data sheet SP 61.13
Weight	Approx. 8 kg [17.6 lb]

Schematic system structure of the instrument series



Dimensions in mm



Accessories

Connection hoses

Designation	Order number	
	Stainless steel	Rubber
Hose with self-sealing valves, DN 8		
Length 3 m [9.8 ft]	14064922	14064928
Length 6 m [19.7 ft]	14064923	14064929
Length 12 m [39.4 ft]	14064924	14064931
Length 15 m [49.2 ft]	14064927	14064933
Hose with self-sealing valves, DN 20		
Length 3 m [9.8 ft]	14225543	on request
Length 6 m [19.7 ft]	14225579	on request
Length 12 m [39.4 ft]	14225594	on request
Length 15 m [49.2 ft]	14225602	on request

Consumables

Designation	Order number
Filter cartridge	14118800

Ordering information

Model / Connections / Accessories

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We reserve the right to make modifications to the specifications and materials.

