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MESSTECHNIK

Portable SF_6 filter unit
Model GPF-10

Applications

- Module for the maintenance of SF_6 gas-filled equipment
- Treatment of contaminated SF_6 gas

Special features

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

Portable SF_6 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 SF_6 filter unit, model GPF-10
- Portable SF_6 vacuum compressor, model GVC-10
- Portable SF_6 transfer unit, model GTU-10
- Portable SF_6 gas cylinder scale, model GWS-10

Efficient protection from contaminants
As research has shown, decomposition products such as HF, SO_2, SF_4 and SOF_4 can form in gas-insulated equipment with discharges or failures. The model GPF-10 SF_6 filter unit ensures reliable treatment of contaminated SF_6 gas.

The particles found in decomposed SF_6 gas, such as aluminium fluoride (AlF_3) or copper fluoride (CuF_2) 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 SF_6 gas can be reused.

Replaceable filter insert
The filter unit 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
With the design of the filter unit, a premium 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 SF_6 gas.

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Specifications

Case material
Anodised aluminium, corrosion-resistant

Filter element
Molecular sieve, aluminium oxide, particle filter 1 µm
Max. water absorption: 160 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.

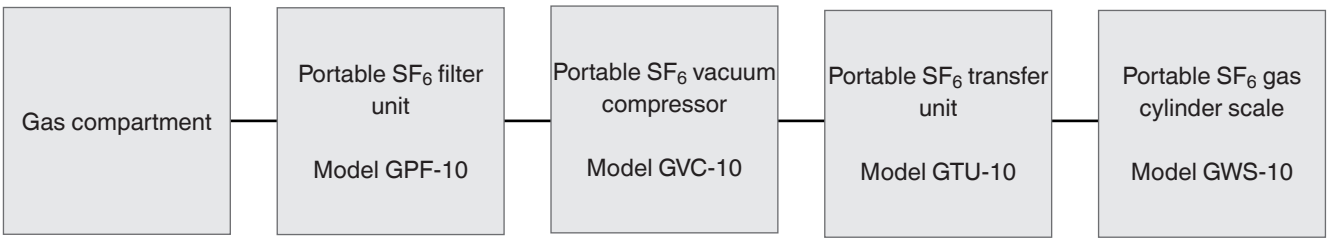
Connections

Selectable versions	
Standard	2 valves DN 8 (brass, M26 x 1.5), model GCV-08 2 protection caps from aluminium, model GCP-08
Option	2 valves DN 20 (brass, M26 x 1.5), model GCV-20 2 protection caps from aluminium, model GCP-20

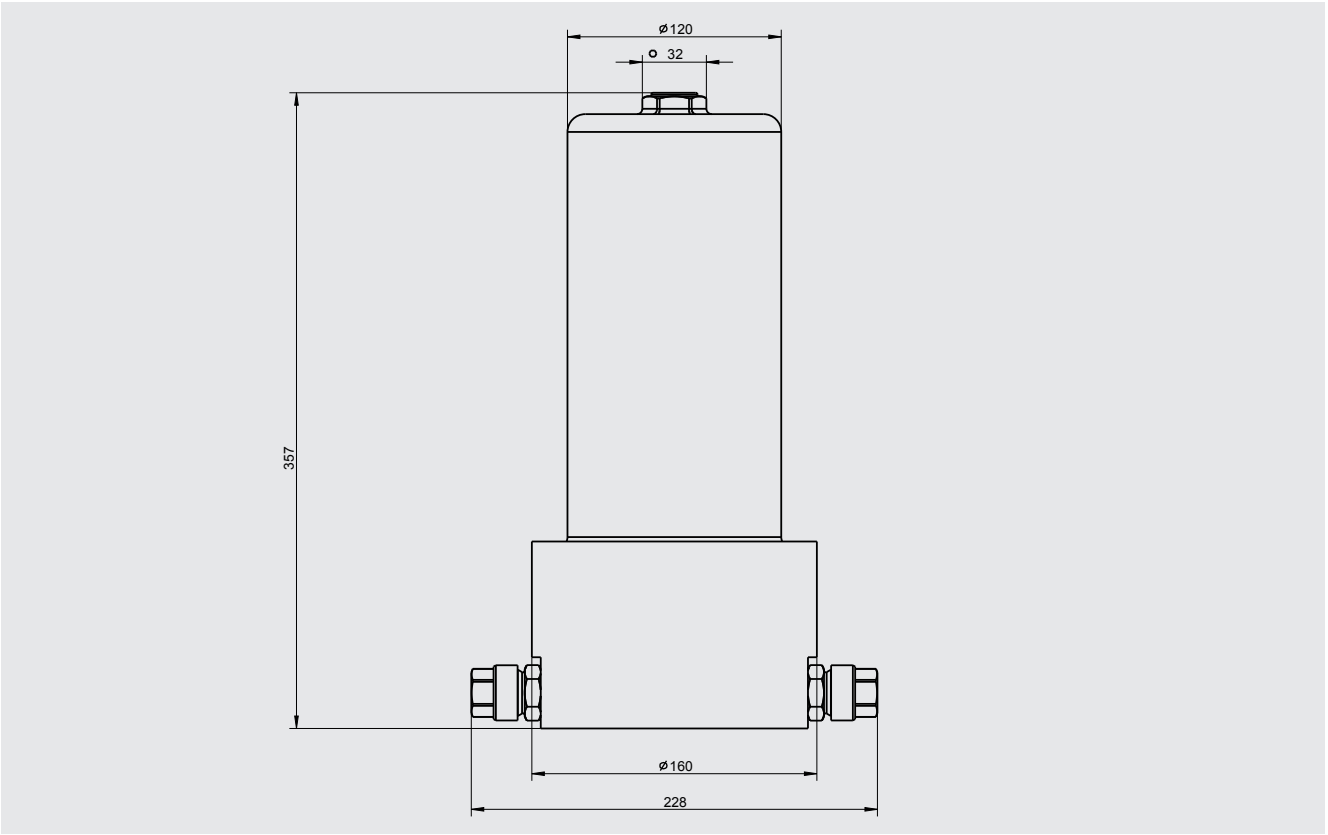
For details see data sheet SP 61.13

Weight
Approx. 8 kg (17.6 lb)

Schematic system structure of the instrument series



Dimensions in mm



Accessories

Connecting 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 insert	14118800