Portable vacuum pump
For preparing the filling of SF₆ gas compartments
Model GVP-10

Applications
Evacuation of air or nitrogen for preparing the filling of SF₆ gas compartments

Special features
■ Suction capacity up to 10 m³/h
■ Final pressure ≤ 0.02 mbar abs. achievable
■ Low weight and compact design
■ Built-in oil back flow prevention and oil mist return
■ Precision vacuum measuring instrument (optional)

Portable vacuum pump, model GVP-10

Description

Portable service equipment series
The model GVP-10 vacuum pump 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 scale, model GWS-10

High suction capacity
The GVP-10 is used to prepare the filling of SF₆ gas compartments. A low final pressure following evacuation guarantees low percentages of humidity and air in the SF₆ gas compartment. This creates ideal conditions for a long-term high-quality SF₆ filling. Thus the operational safety of the plants is ensured.

High-quality pump
The GVP-10 operates on the oil-lubricated rotary vane principle. During pump standstill, a non-return valve prevents oil from the pump from entering the SF₆ gas compartment. The oil mist occurring during long-time operation condenses at the outlet and is led back into the pump.

User-friendly
The product design combines easy operation with high suction capacity. The GVP-10 is a lightweight and can be transported and stored in a space-saving manner.

The vacuum pump can be securely separated from the gas compartment by means of the fitted ball cock. For determining the residual pressure, a digital precision vacuum measuring instrument can be used (see accessories). The inlet is designed with an DN 8 valve for the connection of hoses.
Specifications

Principle of operation
Rotary vane pump

Suction capacity
9.0 m³/h (5.3 cfm) (50 Hz)
10.8 m³/h (6.4 cfm) (60 Hz)

Inlet pressure
≤ atmospheric pressure

Final pressure at inlet
≤ 2 x 10⁻² mbar abs. (15 microns)
At 20 °C (68 °F) and gas ballast valve closed.

Connections
1 inlet with self-sealing DN 8 valve

Filling capacity oil
0.5 litres

Motor specifications
Power: 0.37 kW
Speed: 2,800 rpm (50 Hz), 3,300 rpm (60 Hz)

Power supply

Selectable versions
<table>
<thead>
<tr>
<th>Standard</th>
<th>Option</th>
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<tr>
<td>AC 230 V, 50/60 Hz, ±10 %</td>
<td>AC 115 V, 60 Hz, ±10 %</td>
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Permissible ambient temperature
Storage: 0 ... 70 °C (32 ... 158 °F)
Operation: 5 ... 40 °C (41 ... 104 °F)

Permissible humidity
≤ 90 % r. h. (non-condensing)

Ingress protection
IP 20 (per EN 60529)

Dimensions
L x W x H: 360 x 220 x 415 mm / 14.2 x 8.7 x 16.4"

Weight
approx. 13 kg (28.7 lb)

CE conformity

EMC directive
2004/108/EC, EN 61326 emission (group 1, class B) and interference immunity (industrial application)

Machinery directive
2006/42/EC

Schematic system structure

Gas compartment filled with air/nitrogen under atmospheric pressure

Portable vacuum pump
Model GVP-10

Outlet leads to ambient air
Ordering information
Model / Power supply / Accessories

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

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