

Transorfilter

Automatic equipment for reclaim of SF₆ gas
FV4C-A Oil-less



Transorfilter, TFG FV4C-A Oil-less, Automatic

Transorfilter TFG FV4C-A Oil-less transfers SF₆ gas between gas insulated circuit breakers and standard gas bottles.

For the field service

Transorfilter TFG FV4C-A Oil-less transfers SF₆-gas between gas insulated circuit breakers and standard bottles. It evacuates the breaker down to below 1 mbar, cleans the gas and fills the gas bottle to high pressure. When a pre-set high-pressure value is reached, the compressors automatically stop. After performed service of the breaker the unit is used to transfer the reclaimed and cleaned gas back to the breaker. When a program is finished the machine will automatically stop.

The TFG FV4C-A is built as a single unit with different PLC controlled programs. Evacuation, Filling, Pressure Equalization etc. Necessary hoses and electrical cables are stored inside the unit when they are not used or during transportation. The TFG FV4C-A is conveniently operated from a control panel situated at the front side of the unit. Pressure is monitored by different gauges and vacuum instrument.

Two different vacuum pumps are included. One oil-free vacuum pump that handles SF₆ gas in series with the oil-less compressors and one mobile oil lubricated vacuum pump used for air evacuation. This way mixture of SF₆ and air is avoided.

Particle filters in the filter unit filtrates the gas according to ISO 4406:1999, code 16/14/12. A built in chemical filter can be regenerated and dried out to remove moisture using the heater element in combination with the oil-free vacuum pump.

Gas bottles for SF₆ are not included with the gas handling equipment.

Measurements	FV4C-Automatic
Length x Width x Height, Weight:	1200 x 800 x 1100 mm, approx. 450 kg
Oil-less SF₆ compressors capacity:	3.5 m ³ /h, Max outlet pressure ~ 50 bar (abs)
Oil-free SF₆ vacuum pump capacity:	6.8 m ³ /h, Final vacuum 2x10 ⁻² mbar
Mobile air vacuum pump capacity:	7.6 m ³ /h, Final vacuum 5x10 ⁻³ mbar
Connection hoses, DN8 connections:	2 pcs 3/8" x 7 m (inlet, air evacuation), 1 pcs 1/4" x 5 m (outlet)
Heater in chemical filter:	0,6 kW
Particles in purified gas:	Code 16/14/12 (According to ISO 4406:1999)
Voltage and frequency:	3x400 V, 50 Hz *

* Other voltage and frequency specifications at your request.
Subject to changes without notice.

