

Transorfilter

Portable equipment for reclaim of SF₆ gas
FV1C Oil-less



www.transorfilter.se

Transorfilter, TFG FV1C Oil-less

Transorfilter TFG FV1C Oil-less transfers SF₆ gas between gas insulated circuit breakers and standard gas bottles.

For the field service

Transorfilter TFG FV1C Oil-less transfers SF₆ gas between gas insulated circuit breakers and standard bottles. It evacuates the breaker down to 1 mbar, cleans the gas and fills the gas bottle to high pressure. When a pre-set high-pressure value is reached, the compressor automatically stops. After performed service of the breaker the unit is used to transfer the reclaimed and cleaned gas back to the breaker.

The TFG FV1C Oil-less consists of 2 different units. First unit contains compressor and vacuum pump for SF₆ gas handling and the second unit contains SF₆ filter and accessories, like hoses and connection piece for SF₆ object. Both units are needed for the machine to work.

Necessary hoses and electrical cables are stored inside the aluminum boxes when they are not used or during transportation.

The TFG FV1C Oil-less is operated from a control panel situated inside the compressor / vacuum unit. Two different vacuum pumps are included in the TFG FV1C. One oil-free vacuum pump that handles SF₆ gas in series with the oil-less compressor 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 from particles down to 1 micron. Chemical filter can absorb moisture and chemical rest products from the breakdown of SF₆. Gas bottles for SF₆ are not included with the gas handling equipment.

Transorfilter, Technical Data

Measurements	Compressor / Vacuum Unit	Filter / Equipment Unit
Length, mm:	800	800
Width, mm:	600	600
Height, mm:	410	410
Weight, kg:	73	43

Technical data	Compressor / Vacuum Unit	Filter / Equipment Unit
Capacity oil-less SF ₆ Compressor, m ³ /h:	1,2	-
Capacity oil-free SF ₆ Vacuum pump, m ³ /h:	3,0	-
Capacity mobile air vacuum pump, m ³ /h:	-	2,6
Compressor max. outlet pressure, bar:	50	-
Oil free SF ₆ vacuum pump, mbar:	-	0,15
Mobile air vacuum pump, mbar:	-	0,005
Voltage and frequency, V/Hz*	3 x 400, 50	-
Inlet hose, SF ₆ evacuation	-	3/8" x 5m, DN8 / DN8
Outlet hose to SF ₆ gas bottle	-	1/4" x 5m, DN8 / W 21,8 x 1/14"
Inlet hose, vacuum pump for air evac.	-	3/8" x 5m, DN8 / Quick coupling
Hose between filter and compressor unit	-	3/8" x 1,5m, DN8 / DN8
Particle filtration	1 micron	1 micron
Chemical filtration	-	Moisture / chemical rest products

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

