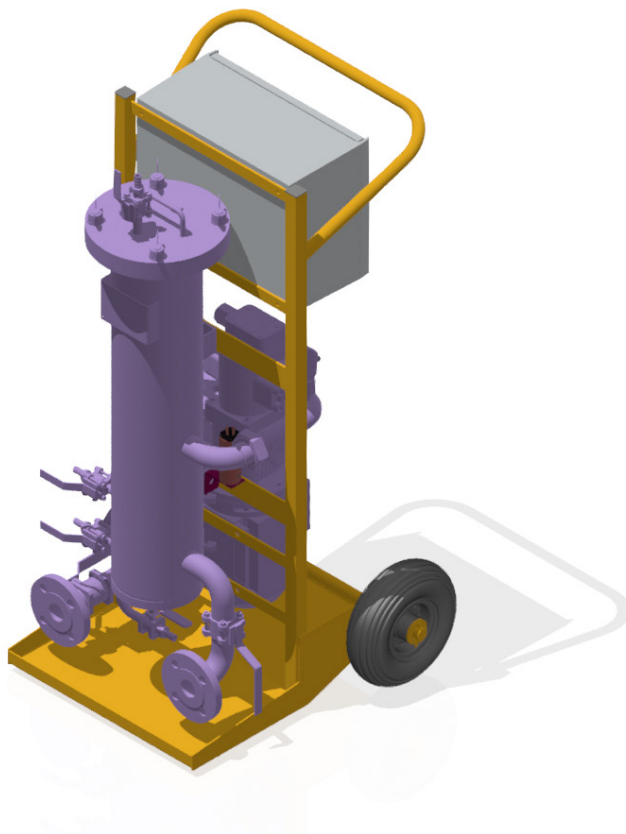


# Filtration Systems

Technical information type OFP  
Catalogue 2024



## Benefits and Applications:

- Removal of dirt and sludges
- Removes free and emulsified water
- Differential pressure alerts

- Easy and safe operation
- No effect on oil additives
- Flexibility in application

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# APPLICATION OF THE PLANT

## GENERAL INFORMATION

Micafil technology conditioning equipment for insulating oil has offered excellent service on the world market for well over 85 years. Regular servicing of transformers with our equipment can substantially improve their lifetime and performance and on top helps to save money.

The Micafluid oil filtration plants "OFP", with different flow capacity, is designed for economical on-site conditioning and filtering of up to middle sized transformers.

The plant is designed for the following applications:

- Heating and filtering of transformer oil with different oil through put in one or several passes
- First filling of electrical apparatuses with insulating oil.

Expectations of an oil filtration plant for insulating oil:

- Particles filtration.
- Non hygroscopic filter cartridges.
- Filter finesse 1 or 5 micron.
- Easy and safe operation.
- Flexibility in application (various oil types and oil quantities)

## WORKING PRINCIPALS

The insulating oil will flow through specially sealed feeding pump over the heater into the filter housing and back to transformer.

Oil is heated in a \*PID (proportional-integral-differential) controlled heater, thus avoiding hot spots and over-swinging of the pre-selected operating temperature.

The special filter cartridges resulting most effective maximum filtration, whereby the characteristic of the oil is not be changed.

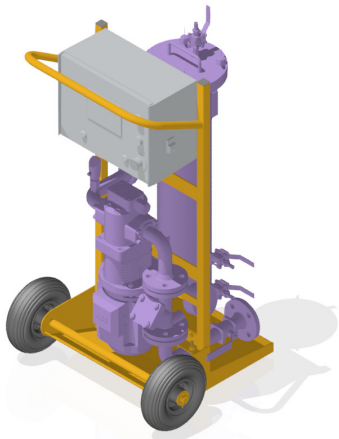
## SPECIAL FEATURES

- The plant is delivered ready for operation.
- Continuously filtration with oil flow rate of 100-300 lt/h.
- Automatic control of dirtiness of filter cartridges
- The plant is equipped with built-in control and safety devices, which guarantee a maximum operating security.
- Minimised power consumption through optimised degassing (excellent efficiency factor).
- Unit size filter housing for 1 micron or 5

micron filter cartridges.

- All electric drive motors, as well as the separator is air-cooled. No external cooling water connection is required.

## **OFP**



The Micafluid's oil filtration plant type OFP030 is for oil filtering with a filling quantity of approx. oil contents 1 to 10 tons. This value is only depending on the treatment time in function of the total oil content

**Variable oil throughput:** 100 - 30.000lt/h

**Operating pressure:** 3bar

**Total heating capacity of oil heater (PID control):** 7,5kW

**Power supply standard:** 3ph 400V, 50 Hz

**Total power consumption approx.:** 25kW

**Electrical equipment according to:** IEC Standards

 **Driven by Swiss Technology since 1913**

[www.micafluid.com](http://www.micafluid.com)

**MICAFLUID**

**Headquarters**

Micafluid AG  
Gaswerkstrasse 6 CH-8952 Schlieren  
Switzerland

+41 44 739 44 66

**Subsidiary**

Micafluid, SA  
Rua Álvaro Pedro Gomes 9 Lj 3  
2685-138 Sacavém, Portugal

+351 21 053 40 57