

ES 2000

- Drying of the insulating oil
- Cleaning of particles and residues
- Reduction of the acid content



- Bypass filtration takes place online while the transformer is in operation.
- The ESU 2000 draws in the insulating oil at the lowest point. Slowly and at a constant speed, the oil flows through the filter and drying cartridges
- The long contact time between oil and filter material ensures an extremely high filter efficiency. The insulating oil is returned either to the conservator or to another point on the transformer.
- The clean oil is able to dissolve residues already deposited on the components or in the tank, so that ultimately the entire oil system is cleaned.

Depending on the application, the units use one or several filter cartridges or a mix of different filter cartridges.



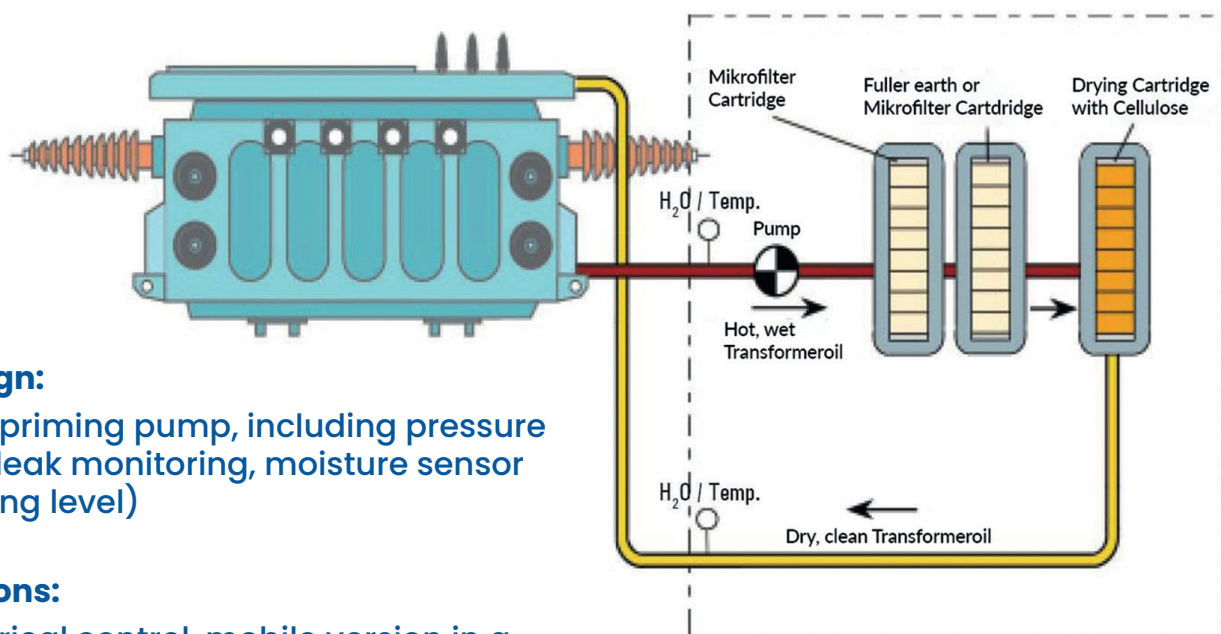
Filter and drying cartridge set CFP 1000, heat-treated
Drying capacity:
 1,500 ml incl. set of seals



Micro-filter cartridge TFP 1000 heat-treated
Dirt holding capacity:
 2,000 g, filter fineness 3 μm absolute
 incl. set of seals



Combined micro-filter and drying cartridge CTFP 1000 heat-treated
Dirt holding capacity: 1,100 g
Moisture: 1,300 ml
Filter fineness 3 μm absolute
 incl. set of seals



Design:

Self-priming pump, including pressure and leak monitoring, moisture sensor (drying level)

Options:

Electrical control, mobile version in a housing or mounted on a pallet with swivel and fixed castors

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Example:

Trend of an installation (10 m³ of oil with unit variant ESU 4000 with 4 filter cartridges). It shows that the critical value of over 20 ppm falls below 10 ppm residual moisture within just three days. The level stabilises well below 5 ppm. During stabilisation, moisture from the winding gradually passes into the oil and is then dried immediately by the drying unit. In this example, the transformer tem-

perature was approx. 20 °C. During transformer operation and with rising temperature, moisture passes from the insulating material into the oil and is absorbed and separated by cellulose cartridges.

