



NESS *Fine filter station (FF300 / FF500)*

Thermal oil filtration for improved system performance

Thermal oil contains small solid particles, e.g. shavings and metal particles from the internal pipe surfaces, wear from pumps and valves as well as oxidation and reaction products of the oil itself. Many of these particles are too small for the strainers in front of pumps and control valves.

In the long term, these small particles in the oil affect operational safety and efficiency of the thermal oil system. Contaminations and deposits reduce the flow and increase wear. In the worst case, this results in defective heaters, pumps, seals and valves. In addition, the core function – heat transfer – is massively impaired.

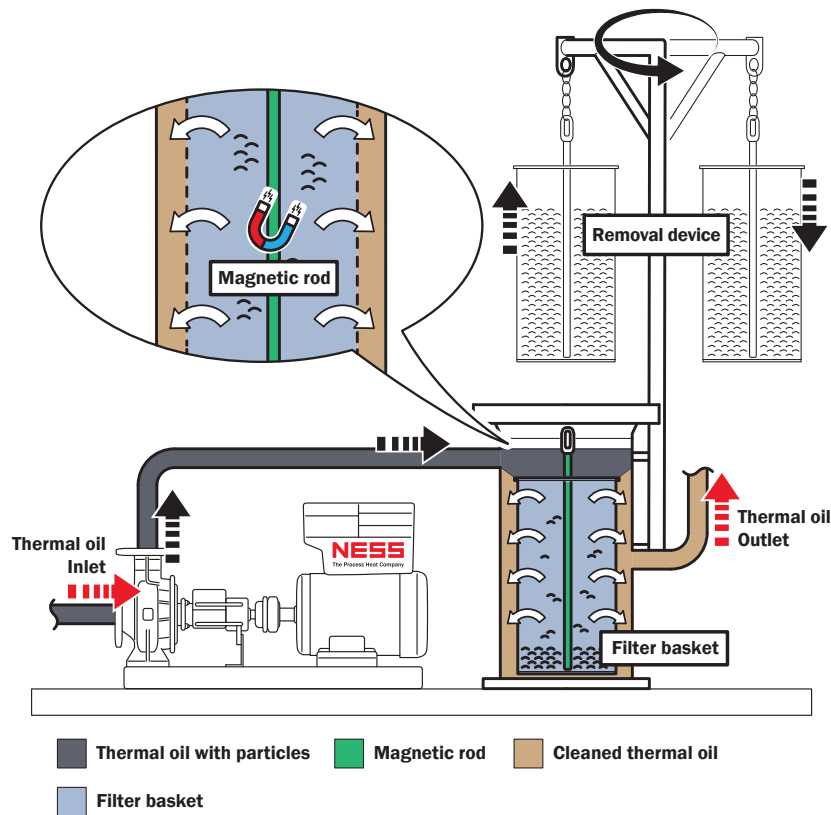
Your advantages at a glance

- Increased efficiency of heat transfer
- Reduced operating costs
- Less wear
- User-friendly



Pipe deposits

Functionality Fine filter station:



Wear in the vital lines of the plant

#1 Very small particles increase wear, deposit in the system and impair flow and function

#2 The heat transfer suffers massively from deposits in the system

Reduce operational costs through optimal filtration

The degree of contamination can be determined with an oil analysis according to DIN 51551. In the analysis, the carbon residue (Conradson value) is measured. This is a very good indicator for the contamination of the oil and the plant with fine particles.

Apart from carbon-like residues, production-related metal particles from the inner walls of the pipes can come loose, especially in new systems. Therefore, it is advisable to install a fine filter system from the beginning.

Due to the filtration in a side stream, existing systems can be retrofitted easily and without much effort, since no interference with existing processes occurs.

The NESS Fine filter stations continuously remove small particles in a side stream and increase the service life of the thermal oil, as well as the operational safety and effectiveness of the system.



Installed Fine filter station FF300