



NESS *Electric thermal oil heater (EWE)*

The electrical alternative to fired heaters

The electric thermal oil heater (EWE) is a real alternative to fired heaters and, in addition to continuous operation, it is also suitable for bridging peak loads and during retrofits to the system.

EWE has a very small footprint and can be easily integrated into most thermal oil systems. Another big advantage is the purely electrical heating. Since the heater does not include a firing system, there are no exhaust fumes that may require a firing permit procedure. Since it does not consume fossil fuels, it also eliminates the need for fuel storage or connection to the gas supply as well as the supply and handling costs. In addition, other infrastructure such as chimney is not needed.

With our electric heaters, the power can be regulated in multiple stages or alternatively steplessly.

Your advantages at a glance

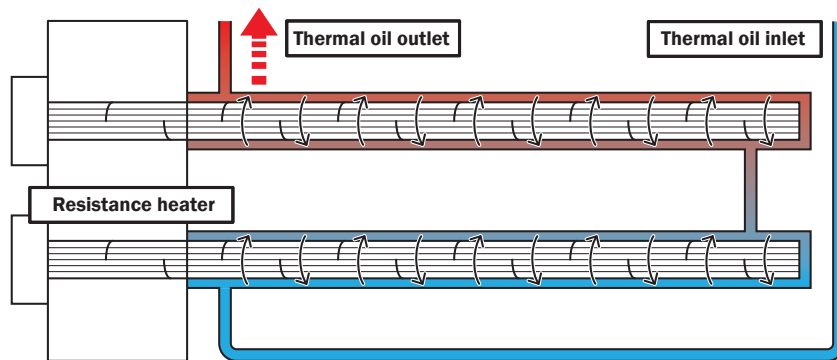
- Demand-based activation
- Low space requirement
- No fuel stock
- Fast installation due to Skid construction



Heating flanges of EWE with 50 kW each

Functionality Electric thermal oil heater (EWE):

Gentle heating by heating rods



#1 Optimal temperature control

#2 Gentle oil heating by heating rods, with low surface load

Flexible and demand-based applications

On-demand performance for the right time

The NESS EWE can also be optimally integrated in plants in conjunction with fired heaters. Especially when fuel prices or their availability fluctuate (for example in the case of biomass) or capacity utilization varies, the integration of an EWE into the thermal oil system is recommended.

In some regions, where electricity is generated mainly from renewable sources, electricity over-production sometimes occurs.

The networks are so overloaded there, that the price of electricity drops massively to encourage companies to use it. The price sometimes drops to a very low level. Occasionally even a „negative electricity price“ arises, in which money is paid for the use.

Also in such regions, the use of an EWE is recommended to relieve the local power grid.

The need for flexibility increases with increasing renewable energies: Evaluation of the hours with "negative electricity prices" 2017

Source: www.agora-energiewende.de

