



Secondary heating circuits for thermal oil and hot water

Precise temperature control. Output 10 kW up to 20 000 kW.

Precise temperature control in supplying heat to a consumer, e.g. a press or tool, is ensured by a minimal temperature difference between the inlet and outlet of the thermal medium in the consumer and by an accurate control valve.

Advantages:

- Constant primary volume flow and primary pressure loss, independent of the current heating capacity of the secondary circuit, thereby ensuring that parallel secondary circuits do

not influence each other and that a constant flow rate is maintained in the primary system.

- Automatic venting of the secondary circuit in the primary circuit.
- High-quality workmanship by licensed welders with approved welding methods.
- We produce according to European Pressure Equipment Directive, CSA or ASME. Other codes upon request.
- Reliable and long-lived systems – several decades of experience.

Design:

The control and pump unit of the secondary circuit is fully assembled and supplied ready for connection. The secondary circuits of large plants, particularly when there are several parallel pumps, can be dismantled for transport.

The pipes are conducted and supported in such a manner that the thermal expansion is taken into account.

The secondary circuit stations feature closed oil tanks, which are easy to clean. Pumps, motors, controllers, dirt traps, valves and instruments are all readily accessible.

The secondary circuits are designed and manufactured according to Pressure Equipment Directive, DIN 4754, VDI-Guideline 3033, VDE 100 and the requisite accident prevention rules. Alternatively the circuits can be designed according to ASME or other codes.



Picture 1: Secondary circuits for heat supply of presses

NESS



Picture 2: Hot water - heating- and cooling system

Accessory equipment:

Electric controls for individual secondary circuits or complete secondary heating installation, process control system for control from a central control room.

Heating and cooling version for tempering.

Medium:

Thermal oil or hot water.

Control:

Electronic control of the inlet temperature or return flow temperature.

Temperature:

Standard versions for inlet temperatures up to 300 °C or 350 °C with thermal oil – up to 230 °C with hot water. Higher temperatures upon request.

Temperature difference:

Selectable – the circulating volume is determined accordingly.

Please contact us for details.

Ness Wärmetechnik GmbH
Remsstr. 24, 73630 Remshalden
Tel. +49 7181 96 75- 1
Fax +49 7181 42 61 2
E-Mail: nesswt@ness.de
www.ness-energysystems.de

