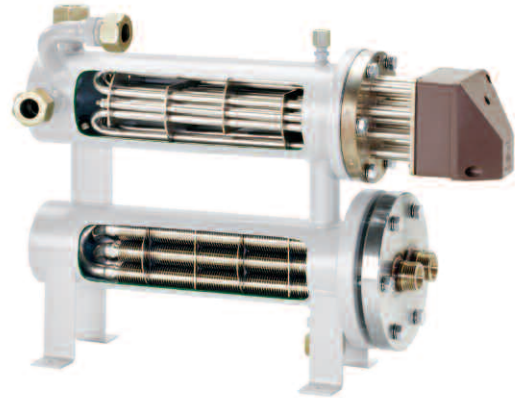


TEMPERATURE CONTROL UNITS



Type 300S

Small high temperature control unit for thermal oil up to 570°F

Controlling Shot Sleeve Temperatures with Oil

As shot sleeves become larger, the need to control thermal expansion becomes increasingly critical. The amount that a shot sleeve expands due to change in temperature is a function of its diameter as well as the temperature differential. With the same change in temperature, therefore, a six inch shot sleeve will expand twice as much as a three inch sleeve.

For large shot sleeves, cooling is usually required to reduce the maximum temperature. Preheating the shot sleeve before the pour will also reduce the amount of temperature differential. This can be done best by circulating oil at a temperature of about 400°F (205°C).

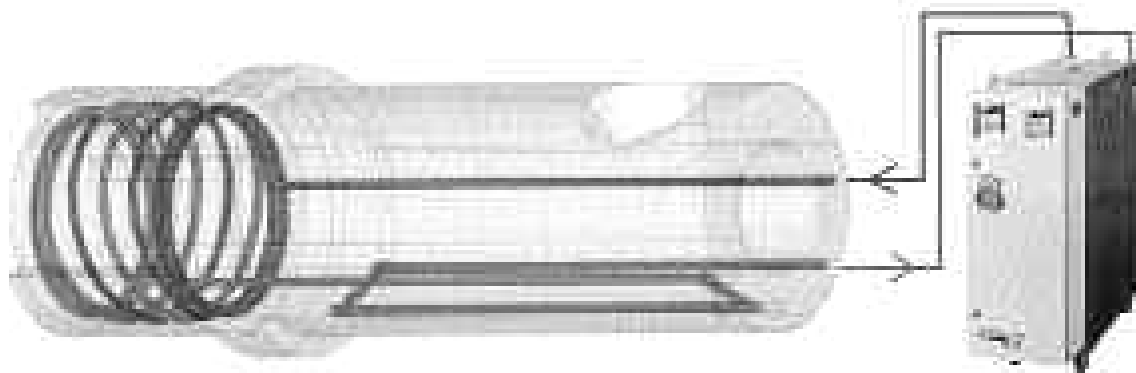
To maintain a constant oil temperature, Castool provides the Regloplas Type 300S Thermal Oil Temperature Control Unit. This can be regulated either by the temperature of the oil itself, or by thermocouples in the sleeve.

The Regloplas Thermal Oil Temperature Control Unit

For 40 years, Regloplas of Switzerland have been industry leaders in the technology of temperature control by means of fluid media.

The 300S small high temperature control unit for thermal oil is their newest unit, and the one best suited for shot sleeve application.

(over)



Oil Thermal Controlled Shot Sleeve

Specifications

Outlet Temperature	max. 570°F (300°C)
Heating capacity	6 kW
Cooling Capacity	70 kW
Pump capacity	max. 14.3 gpm at 73 psi

FACTS about Temperature Control Units

- Microprocessor-controlled system provides excellent control accuracy, good regulating behavior, and fully automatic function sequences
- Simultaneous readout of temperature set point and actual values
- Low energy consumption
- Pump has magnetic drive for leak-free operation
- Minimum thermal load of oil due to forced flow heater
- Complete range of extra optional features for every application

