

# Heating Systems With Thermal Oil



# HEATING SYSTEMS WITH THERMAL OIL



## Heating Units up to 350 °C

For over 15 years, Unopex has been building and qualifying thermal oil heaters up to 350 °C. Our company leads the field in terms of reliability and quality.

Unopex Heating Systems with Thermal Oil are electrically heated and produce a temperature controlled liquid flow and are supplied as compact, completely insulated, ready-to-use systems with a control cabinet.

The systems consist of the electrical heating module, circulating pump and expansion tank. They are simple and quick to install and need only a slight amount of maintenance.

### Application Examples

- Use in the laboratories for R&D and pilot scale productions
- Temperature control of heat exchangers, evaporators, extractors.
- Temperature control of reactors in food, chemical and pharmaceutical industries.
- Temperature control of stirred tanks

### Benefits

- Due to the large operating temperature range, the systems are very flexible in use.
- Designed to customer requirements, trial run already before shipment.
- Once delivered, the system only has to be connected and can be put into operation immediately.
- There is no risk of freezing, thus simplifying siting outdoors.



## Technical Specifications

model	Unopex MHU 6	Unopex MHU 12	Unopex MHU 24	Unopex MHU 50	Unopex MHU 75	Unopex MHU 100
heater power (kW)	3...6	9...12	18...24	30...50	60...75	80...100
heat transfer fluid	thermal oil					
pump flowrate range	between 1 and 30 m <sup>3</sup> /h					
max. working temperature	standard: upto 250 °C					
	available: upto 350 °C					

## Key Features

- modular construction
- ready for connection
- protected type by means of sheet steel panelling and painting.
- control cabinet on the units
- internal or external expansion tank
- safety equipment with tested components
- graphite gaskets
- variable PID parameter sets, different limits
- calibrated temperature probes
- control box in IP54 mounted at the unit
- HMI touchscreen display of the set and actual temperature
- automatic temperature control
- indication of the pump pressure
- leak free high temperature pump
- heating switchable in stages
- hot oil circulation with by-pass, which ensures internal circulation if valves are closed

### Safety devices

- temperature limiter in the controller
- separate mechanical safety thermostat
- audible warning in case of failure
- all failures are visually indicated





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