



# Ministat® 125

Ministat® 125 cooling a 1-liter glass jacketed reactor

### Requirement

This Case Study demonstrates the stability of the process temperature control of the Ministat 125 when it is connected with a Chemglass 1-liter reactor.

#### Method

The Chemglass 1-liter reactor was connected to Ministat® 125 using 1-meter metal insulated hoses. The thermofluid used in the system was "M60.115/200.05". "Process" control was carried out via a Pt100 sensor located in the "process" mass. Stirrer speed was set to 150 rpm.

# **Setup details**

Temperature range: -25°C...+150°C Cooling power: 0.30 kW @ +20°C

0.21 kW @ 0°C 0.05 kW @ -20°C

Heating power: 1.0 kW

Hoses: 2\*1 m metal insulated HTF: M60.115/200.05
Reactor: 1-liter glass jacketed

reactor

Reactor content: 0.7 | M60.115/200.05

Stirrer speed: 150 rpm Control: process Amb. temperature: +25°C

## Results

### Stability:

The graphics show the stability of +/- 0.01K at both 100°C and 20°C.







