



## Setup details

Unistat® 830 & Buchi Glas Uster reactor

Temperature range: -85...200 °C 3.6 kW @ 100 °C Cooling power:

3.5 kW @ 0 °C

Heating power: 3 kW

2x1.5 m; M30x1.5 (#6386) Hoses: HTF: DW-Therm (#6479) Reactor: 20-litre un-insulated

jacketed metal pressure reactor

Reactor contents: 15 litre M90.055.03

(#6259)

Reactor stirrer speed: 400 rpm Control: process

# Unistat® 830

Cooling a Buchi Glas Uster 20-litre metal reactor from 100 °C to 20 °C

## Requirement

This case study looks at the performance of a Unistat 830 cooling a Buchi Glas Uster 20-litre metal jacketed reactor from 100 °C to 20 °C.

### Method

The Unistat and reactor are connected using two 1.5-metre insulated metal hoses. The reactor is filled with 15 litre of "M90.055.03", a Huber supplied silicon based HTF.

### Results

The process temperature cools smoothly and exactly to its new set-point of 20 °C after ramping through 80 K (100 °C to 20 °C).

