

# Unistat® 830

# Heating a DDPS 25-litre glass reactor

## Requirement

The diagram shows the temperature profile of a Unistat 830 working with a DDPS 25-litre reactor within a temperature range from 20 °C to 100 °C.

#### Method

The Unistat and reactor are connected using two 1.5-metre insulated metal hoses. The reactor is filled with 18.75 litre of "M90.055.03", a Huber supplied silicon based HTF.

## Results

The Unistat takes 28 minutes to heat the process temperature up to 100 °C an average ramp rate > 2 K/min. and the jacket temperature > 3 K/min.

# Setup details

Unistat® 830 & DDPS reactor

Temperature range: -85...200 °C Cooling power: 3.6 kW @ 0 °C

2.2 kW @ -60 °C

Heating power: 3 kW

2x1.5 m; M38x1.5 Hoses:

(#6656)

DW-Therm (#6479) HTF: 25-litre vacuum Reactor:

insulated glass reactor 18.75 litre M90.055.03

(#6259)

Reactor stirrer speed: 70 rpm Control: process

Reactor contents:



