

**Setup details** 

Temperature range: -60...200 °C

9.5 kW @ 200...0 °C Cooling power:

8.0 kW @ -20 °C 4.8 kW @ -40 °C 1.2 kW @ -60 °C

12 kW Heating power:

M38x1,5; 2x2 m Hoses: HTF: DW-Therm

Buchi Glas Uster CR252 Reactor:

250-litre glass-lined (enameled) steel reactor

Reactor content: 200 litre Ethanol Reactor stirrer speed: 90 rpm Control: process



## Unistat® 615w

Heating and cooling a 250-litre GLSS **Buchi Glas Uster reactor** 

## Requirement

This case study shows the remarkable power transfer capabilities of the Unistat range in using a Unistat 615w to heat and cool a 250-litre Buchi Glas Uster GLSS reactor.

## Method

The Unistat was connected to the reactor using two 2-metre insulated metal hoses. The reactor was filled with 200 litre of Ethanol.

## Results

Cooling from 20 °C to -20 °C takes approximately 60 minutes and heating back to 20 °C taking approximately 40 minutes. The third curve shows a cool down time from 20 °C to -30 °C (50 K) taking approximately 110 minutes.

