

## **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 200 litre Ethanol

Reactor content: Reactor stirrer speed: 90 rpm Control: process



# Unistat® 615w

Heating and cooling a 250-litre GLSS reac-

## 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

The graph shows the close control and rapid response of the jacket to change the process temperature from 20 °C to -10 °C and back again. It takes approximately 60 minutes to cool the process through 30 K from 20 °C to -10 °C.

