

Unistat® 615w

Ramping a 250-litre Buchi Glas Uster GLSS 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

The closeness of control can be seen as the Unistat ramps the process temperature between 20 °C to 0 °C and back at differing preprogrammed ramp rates.

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

Heating power: 12 kW

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

Buchi Glas Uster CR252 Reactor:

> 250-litre glass-lined (enameled) steel reactor

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



