

Unistat® 925w

Heating a Buchi Glas Uster CR252 GLSS reactor filled with water to 100 °C (12 kW heater)

Requirement

This case study examines the tightness and speed of control when a Unistat 925w is used with a Buchi Glas Uster CR252 reactor filled with 200 litre of water.

Method

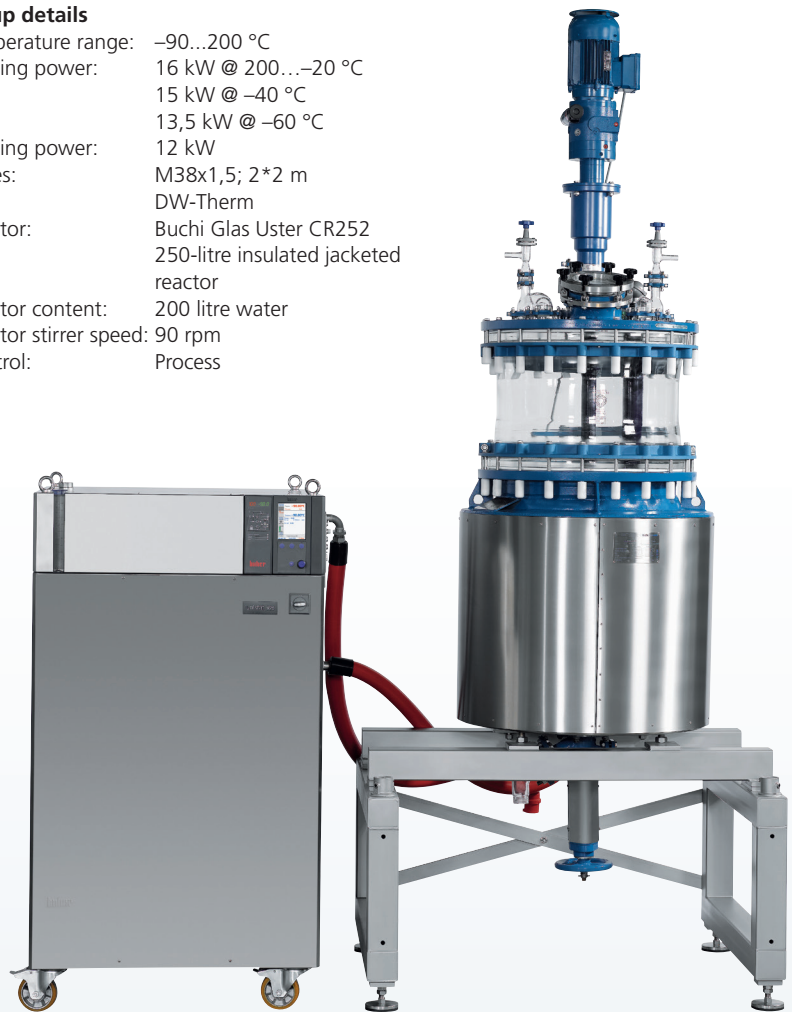
The Unistat and reactor are connected using two 2-metre insulated metal hoses. The reactor is filled with 200 litre of water.

Results

It can be seen that the heat up curve is linear for almost the entire process before reaching and stabilising exactly at the set-point of 100 °C.

Setup details

Temperature range:	-90...200 °C
Cooling power:	16 kW @ 200...-20 °C 15 kW @ -40 °C 13,5 kW @ -60 °C
Heating power:	12 kW
Hoses:	M38x1,5; 2*2 m
HTF:	DW-Therm
Reactor:	Buchi Glas Uster CR252 250-litre insulated jacketed reactor
Reactor content:	200 litre water
Reactor stirrer speed:	90 rpm
Control:	Process



Heat up curve with 12 kW heating power

