



## Setup details

Unistat<sup>®</sup> 830 & HWS reactor

Temperature range:	-85200 °C
Cooling power:	3.6 kW @ 0 °C
	2.2 kW @ -60 °C
	3.6 @ 0 °C
	3.5 @ -2040 °C
	2.2 @ -60 °C
	0.7 @ -80 °C
Heating power:	3 kW
Hoses:	2x1.5 m; M30x1.5 (#6386)
HTF:	DW-Therm (#6479)
Reactor:	5-litre jacketed glass
	reactor
Reactor contents:	3.75 litre M90.055.03
	(#6259)
Reactor stirrer speed:	200 rpm
Control:	process

# Unistat<sup>®</sup> 830

Consistent and reproducible results with a 5-litre reactor

#### Requirement

The graphic illustrates two identical segments which are designed to test the capability of the machine to produce consistent result.

#### Method

The Unistat and reactor are connected using two 1.5-metre insulated metal hoses. The reactor is filled with 3.75 litre of "M90.055.03", a Huber supplied silicon based HTF.

### Results

The heating and cooling curves are identical demonstrating the consistency of control. For heating processes the machine needs 28 minutes to reach 60 °C from 20 °C. The cooling process takes 25 minutes to cool back to 20 °C.

