



Setup details

Unistat® 830 & DDPS reactor

Temperature range:	-85 200 °C
Cooling nower:	36 kW @ 0 °C
cooling power.	
	2.2 KV @ -00 C
Heating power:	3 KVV
Hoses:	2x1.5 m; M38x1.5 (#6656)
HTF:	DW-Therm (#6479)
Reactor:	25 litre vaccum insulated
	jacketed glass reactor
Reactor contents:	18.75 litre M90.055.03
	(#6259)
Reactor stirrer speed:	70 rpm
Control:	internal

Unistat[®] 830

Jacket heating from -80 °C to 180 °C in a **DDPS 25-litre reactor**

Requirement

A simple test is conducted to measure the time taken by the Unistat 830 to heat the DDPS's reactor's minimum achievable temperature with the Unistat 830 (-80 °C) to 180 °C.

Method

The Unistat and reactor are connected using two 1.5-metre insulated metal hoses. The reactor is filled with 18.75 litre of "M90.055.03", a Huber supplied silicon based HTF.

Results

With a heating power of 3.0 kW the Unistat takes under 1 hour 40 minutes to ramp through 260 K.

