

Chili

Chili controls a 20 liter reactor

Requirement

This Case Study demonstrates the process temperature control abilities of Chili when it is connected to a Chemglass 20 liter glass reactor.

Method

The 20 liter Chemglass reactor was connected to Chili using 1 meter metal insulated hoses M16. The thermofluid used in the system was "M20.195/235". Process control was carried out. Stirrer speed was set to 150 rpm.

Setup details

Temperature range: +65°C...+300°C

Heating power: 3.0 kW

1 m metal insulated M16 Hoses:

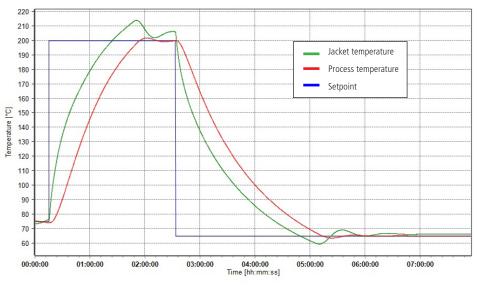
HTF: M20.195/235 Reactor: Chemglass 20 liter 17.0 | M20.195/235 Reactor content:

Stirrer speed: 150 rpm Control: process Amb. temperature: +24°C

Results

The graphic shows the speed, accuracy and stability of the Chili as each as it reaches and maintains +200°C.

	Start T	End T	Approximate Time	Av. Ramp Rate		
	+75°C	+200°C	99 minutes	1.3 K/min		
220 †						
	210					





2. Stability:

The graphic shows the Chili continually adjusting the jacket temperature to hold the process under a tight and stable control at a temperature of +150°C.

