

Chili

Chili controls a 10 liter vacuum insulated reactor



Requirement

This Case Study demonstrates the process temperature control abilities of Chili when it is connected to an Asahi 10 liter vacuum insulated glass reactor.

Method

The 10 liter Asahi vacuum insulated 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
 Hoses: 1 m metal insulated M16
 HTF: M20.195/235
 Reactor: Asahi 10 liter vacuum insulated
 Reactor content: 7.0 l M20.195/235
 Stirrer speed: 150 rpm
 Control: process
 Amb. temperature: +24°C

Results

Performance:

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

Start T	End T	Approximate Time	Av. Ramp Rate
+65°C	+200°C	58 minutes	2.3 K/min

