



Setup details

Unistat® 830 & Radleys 10-litre glass reactor

Temperature range: -85...200 °C
 Cooling power: 3.8 kW @ 100 °C
 3.6 kW @ 0 °C
 Heating power: 3 kW
 Hoses: 2x1.5 m; M30x1.5 (#6386)
 HTF: DW-Therm (#6479)
 Reactor: 10-litre jacketed glass reactor
 Reactor contents: 7.5 litre M90.055.03 (#6259)
 Reactor stirrer speed: 80 rpm
 Control: process

Unistat® 830

Heating a Radleys 10-litre glass reactor from 20 °C to 60 °C

Requirement

This short test measures the heating time of Unistat 830 from 20 °C to 60 °C in a Radleys 10-litre glass reactor.

Method

The Unistat and reactor are connected using two 1.5-metre insulated metal hoses. The reactor is filled with 7.5 litre of "M90.055.03", a Huber supplied silicon based HTF.

Results

The internal temperature provides a heating rate of 5.4 K/min. to the process. As a result the process temperature reaches 60 °C in 28 minutes.

