



Setup details

Unistat® 825w & Buchi Glas Uster «miniPilot» 10

Temperature range: -85...250 °C Cooling power: 2.4 kW @ 0...-40 °C

1.5 kW @ -60 °C

3.0 kW Heating power:

Hoses: 2x1.5 m; M30x1.5 (#6386) HTF: DW-Therm (#6479) 10-litre jacketed glass Reactor:

reactor

7.5 litre M90.055.03 Reactor contents:

(#6259)

Reactor stirrer speed: 400 rpm Control: process

Unistat® 825w

Cooling a Buchi Glas Uster 10-litre reactor from 20 °C to -60 °C

Requirement

The graphic shows the cooling performance of a Unistat 825w when cooling a Buchi Glas Uster 10-litre reactor under process control from 20 °C to -60 °C.

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 cools to approximately -78 °C to remove the heat from the reactor to pull the process temperature to its set-point.

