



Setup details

Unistat® 705w & Buchi Glas Uster reactor

Temperature range: -75...250 °C

0.6 kW @ 250...100 °C Cooling power:

0.65 kW @ 0 °C 0.6 kW @ -20...-40 °C 0.3 kW @ -60 °C

Heating power: 1.5 kW/3 kW Pump speed: 3500 rpm

Hoses: 2x1 m; M24x1.5 (#9325) HTF: DW-Therm (#6479) Reactor: 3-litre un-insulated metal

pressure reactor

Reactor content: 2.25 litre M90.055.03

(#6259)

Stirrer speed: 200 rpm Control: process

Unistat® 705w

Heating a Buchi Glas Uster 3-litre metal reactor from 20 °C to 100 °C

Requirement

The graphic shows the performance of a Unistat 705w heating a Buchi Glas Uster 3-litre un-insulated metal pressure reactor from 20 °C to 100 °C.

Method

The Unistat and reactor are connected using two 1-metre insulated metal hoses. The reactor is filled with 2.25 litre of "M90.055.03", a Huber supplied silicon based HTF.

Results

With a heating power of 1.5 kW the machine needs 25 minutes to heat the process through 80 K (average ramp rate of 3.2 K/min.).

