



Setup details

Petite Fleur® & Buchi Glas Uster «ecoclave»

- Temperature range: -40...200 °C
- Cooling power: 0.48 kW @ 200...0 °C
0.27 kW @ -20 °C
- Heating power: 1.5 kW
- Hoses: 2x1 m; M16x1
- HTF: Ethanol (#9608)
- Reactor: 300 ml un-insulated glass pressure reactor
- Reactor content: 0.25 litre Ethanol
- Stirrer speed: ~ 600 rpm
- Control: process

Unistat® petite fleur®

Controlling a Buchi Glas Uster «ecoclave»

Requirement

This case study looks at the ability of the Unistat Petite Fleur to control the process temperature in a 0.3 litre "Buchi Glas Uster «ecoclave»" between 20 °C and -20 °C.

Method

The Buchi Glas Uster «ecoclave» and Unistat Petite Fleur are connected with two 1-metre insulated metal hoses. The Buchi Glas Uster «ecoclave» is filled with 250 ml of Ethanol and Ethanol is used as the HTF.

Results

The graphic shows the outstanding performance of the Petite Fleur cooling the contents of a 0.3 litre jacketed glass Buchi Glas Uster «ecoclave» through 40 K from 20 °C to -20 °C and back again. The "Baby Tango" is truly a powerful performer. All data is recorded with the pump on MAXIMUM speed.

