

Unistat® petite fleur®

Controlling a Buchi Glas Uster «picoclave»

Requirement

This case study looks at the repeatability of control as the Unistat Petite Fleur cycles the process temperature of a Buchi Glas Uster «picoclave».

Method

The Unistat Petite Fleur is connected to the reactor with two insulated metal 1-metre hoses. The Petite Fleur is then programmed to cycle between low and high temperatures.

Results

The new Unistat "Petite Fleur" brings the Tango Technology at a lower cost to smaller reactors. The graphic shows the performance of the Petite Fleur when connected to a 0.3-litre Buchi Glas Uster «picoclave» demonstrating the lowest achievable process temperature and the rapid ramping rate over a temperature change of 30 K from 20 °C to -10 °C. All data is recorded with the pump on MAXIMUM speed.



Setup details

Petite Fleur® & Buchi Glas Uster «picoclave»

- Temperature range: -40...200 °C
- Cooling power: 0.48 kW @ 200...0 °C
0.27 kW @ -20 °C
- Heating power: 1.5 kW
- Hoses: 2x1m; M16x1 (#9325)
- HTF: Ethanol
- Reactor: 0.3-litre un-insulated jacketed glass pressure reactor
- Reactor content: 0.2 litre Ethanol
- Stirrer speed: 900 rpm
- Control: process

