Unistat® petite fleur®

Controlling a Buchi Glas Uster «picoclave»

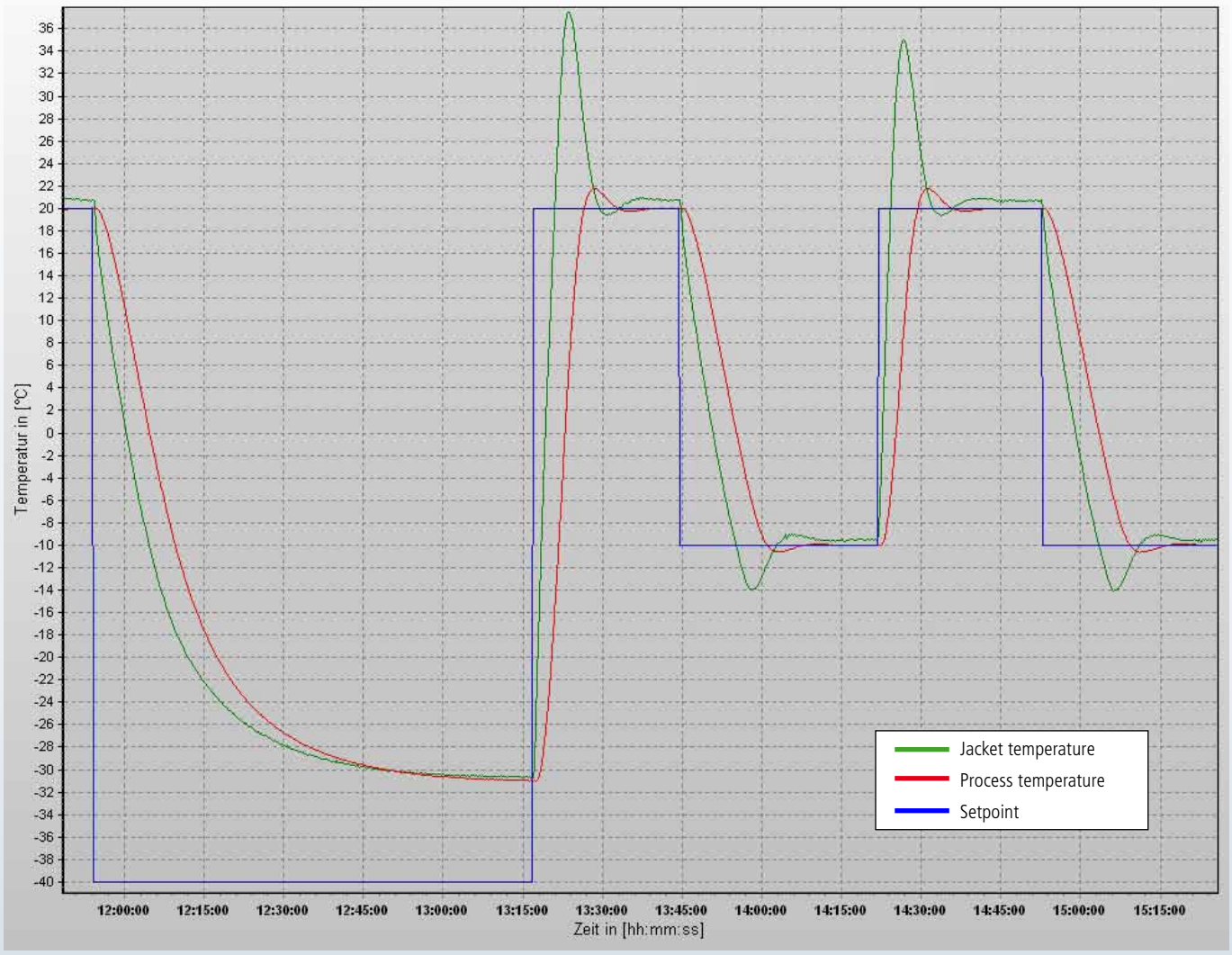
Setup details
Petite Fleur® & Buchi Glas Uster «picoclave»

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

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.



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