Julabo Case Study

JULABO PRESTO® W92tt

Cooling and heating a 100 liters reactor between -50 °C and +100 °C

Objective

This case study tests the reproducibility of heat-up and cool-down processes of a JULABO PRESTO® W92tt with a 100 liters glass reactor. The W92tt is connected to the reactor via two 2.0 m metal tubings. The W92tt is programmed to cycle between -50 °C and +100 °C.

Environment

Room temperature	+20 °C
Humidity	45 %
Voltage	3 x 400 V / 50 Hz

Test Conditions

JULABO unit	JULABO PRESTO® W92tt
Cooling power	+20 °C | 19.0 kW
	0 °C | 15.5 kW
	-20 °C | 9.5 kW
Heating capacity	36 kW
Band limit	70 K
Flow pressure	0.33 bar
Bath fluid	JULABO Thermal HL80
Reactor	100 liters glass reactor (Büchiglas)
	filled with 100 liters Thermal HL80
Control	External (ICC)

Test Results

See chart on back page: The reactor was repeatedly heated up and cooled down between -50 °C and +100 °C with a PRESTO® W92tt. Heat-up and cool-down processes were repeated exactly several times.

Tip

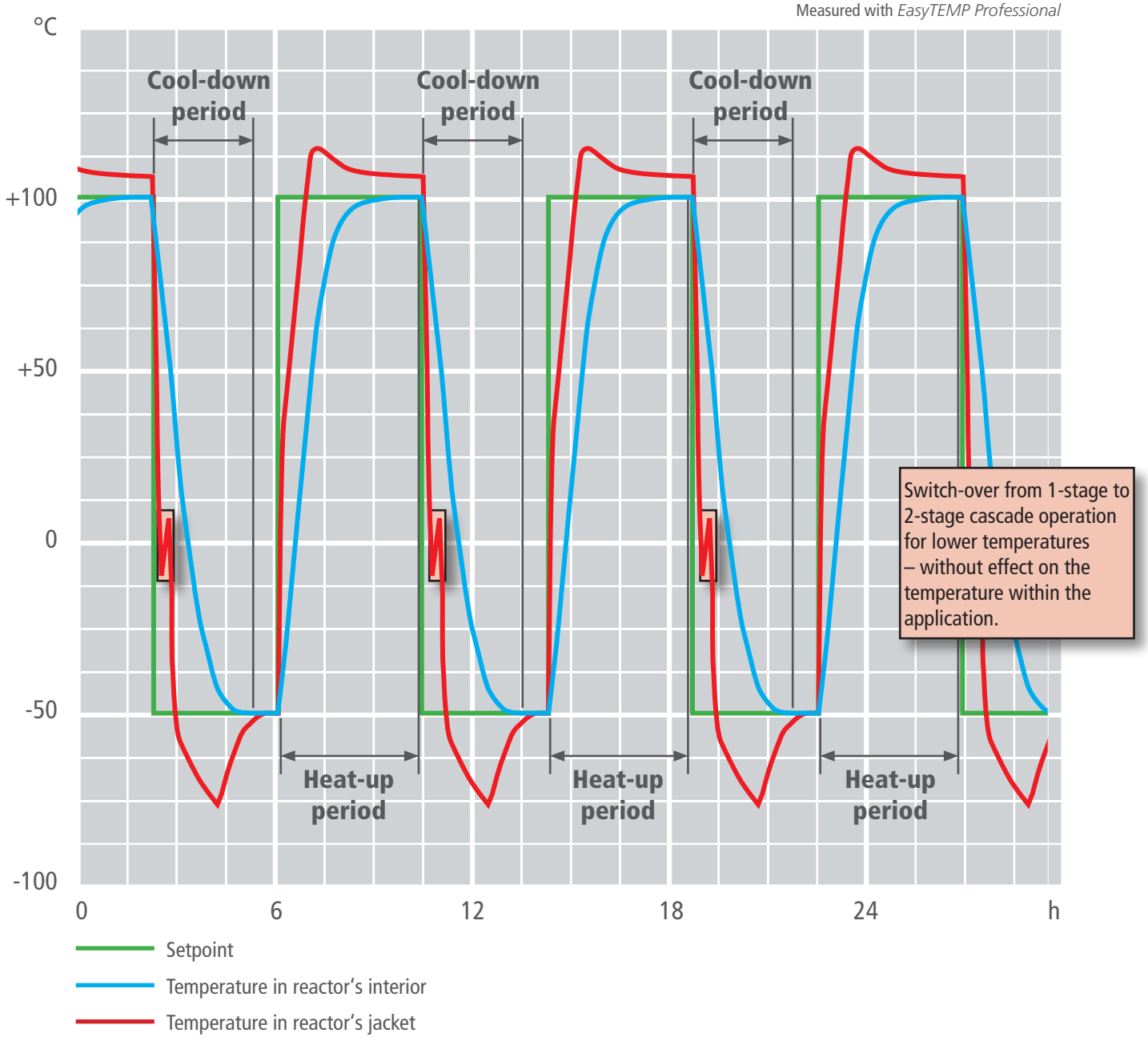
You can also use the robust Pt100 with PTFE coating.

More tips on back page >>

JULABO GmbH
Eisenbahnstraße 45
77960 Seelbach / Germany
Tel. +49 (0) 7823 51-0

Julabo
THE TEMPERATURE CONTROL COMPANY

Measured with *EasyTEMP Professional*



Tip

Make use of the option to regulate the pump pressure. You can define the desired pressure in the PRESTO® settings.

Tip

The Ethernet interface permits full access to all operational functions of the PRESTO®.

JULABO GmbH
Eisenbahnstraße 45
77960 Seelbach / Germany
Tel. +49 (0) 7823 51-0