Julabo Case Study

JULABO PRESTO® W91tt

Temperature stability with a 100 l reactor at -50 °C

Objective

This case study tests the temperature stability of a JULABO PRESTO® W91tt with a 100 liters glass reactor. The W91tt is connected to the reactor via two 2.0 m metal tubings. The W91tt was set to a set point of -50 °C.

Environment

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

Test Conditions

JULABO unit	JULABO PRESTO® W91tt
Cooling power	+20 °C | 11.0 kW
	0 °C | 10.0 kW
	-20 °C | 9.5 kW
Heating capacity	36 kW
Band limit	ohne
Flow pressure	0.45 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 W91tt cools down the reactor to -50 °C. After reaching the temperature of -50 °C, the temperature within the reactor fluctuated by ±0.01 K max.

Tip

You can also use the robust Pt100 with PTFE coating.

More tips on back page >>

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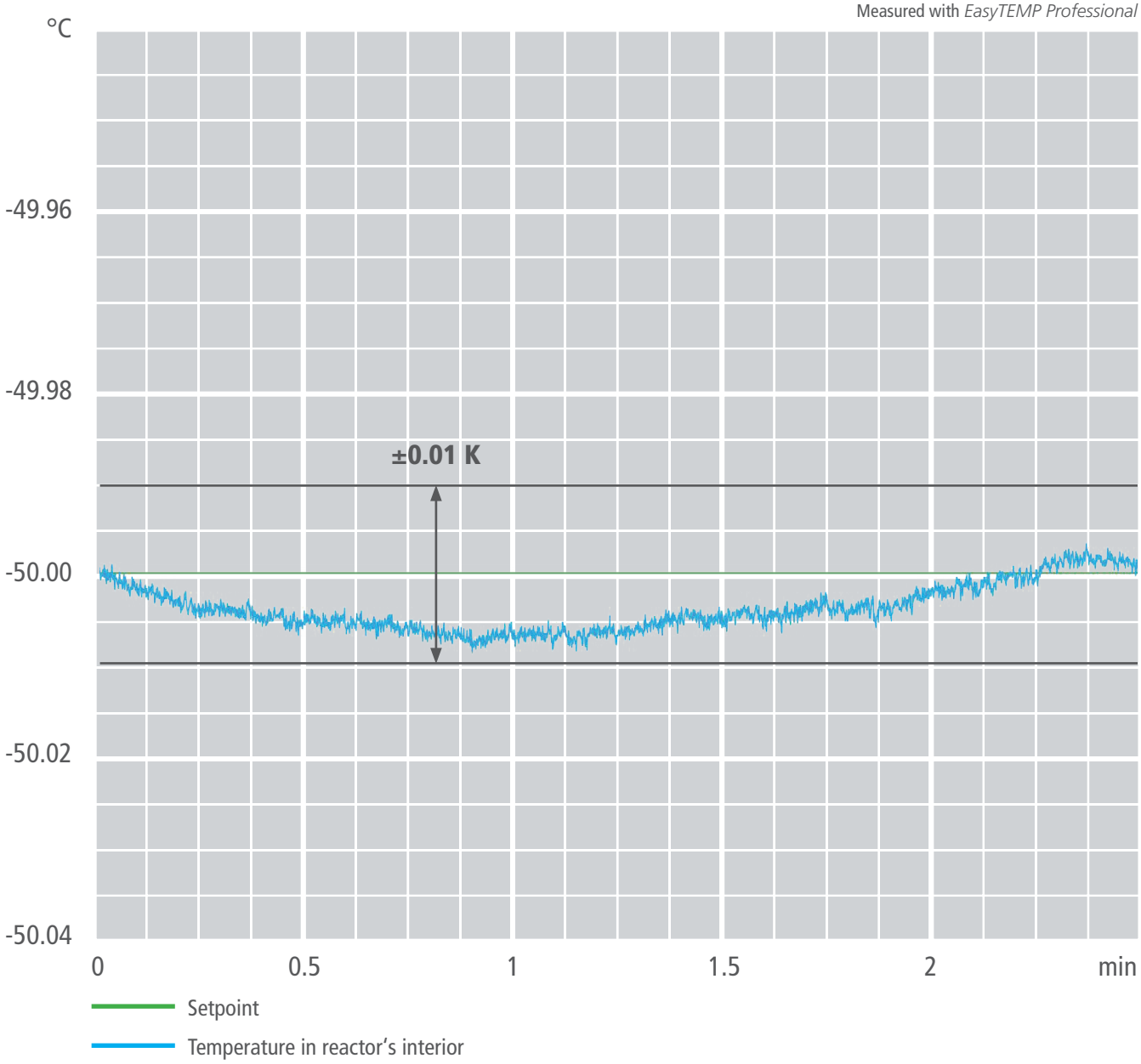
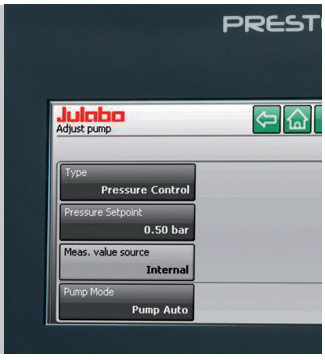
Julabo
THE TEMPERATURE CONTROL COMPANY

Measured with *EasyTEMP Professional*



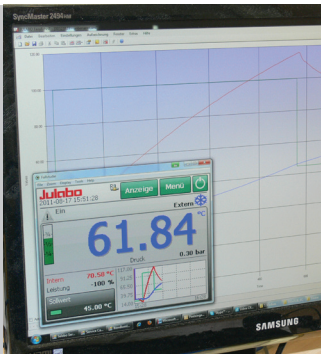
Tip

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®.



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