

Julabo Case Study

JULABO PRESTO® W92tt

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



Objective

This case study tests the temperature stability 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 was set to a set point of -50 °C.

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	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)

Environment

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



Test Results

See chart on back page: The W92tt cools down the reactor to -50 °C. After reaching the temperature of -50 °C, the temperature within the reactor fluctuated by ± 0.02 K max.

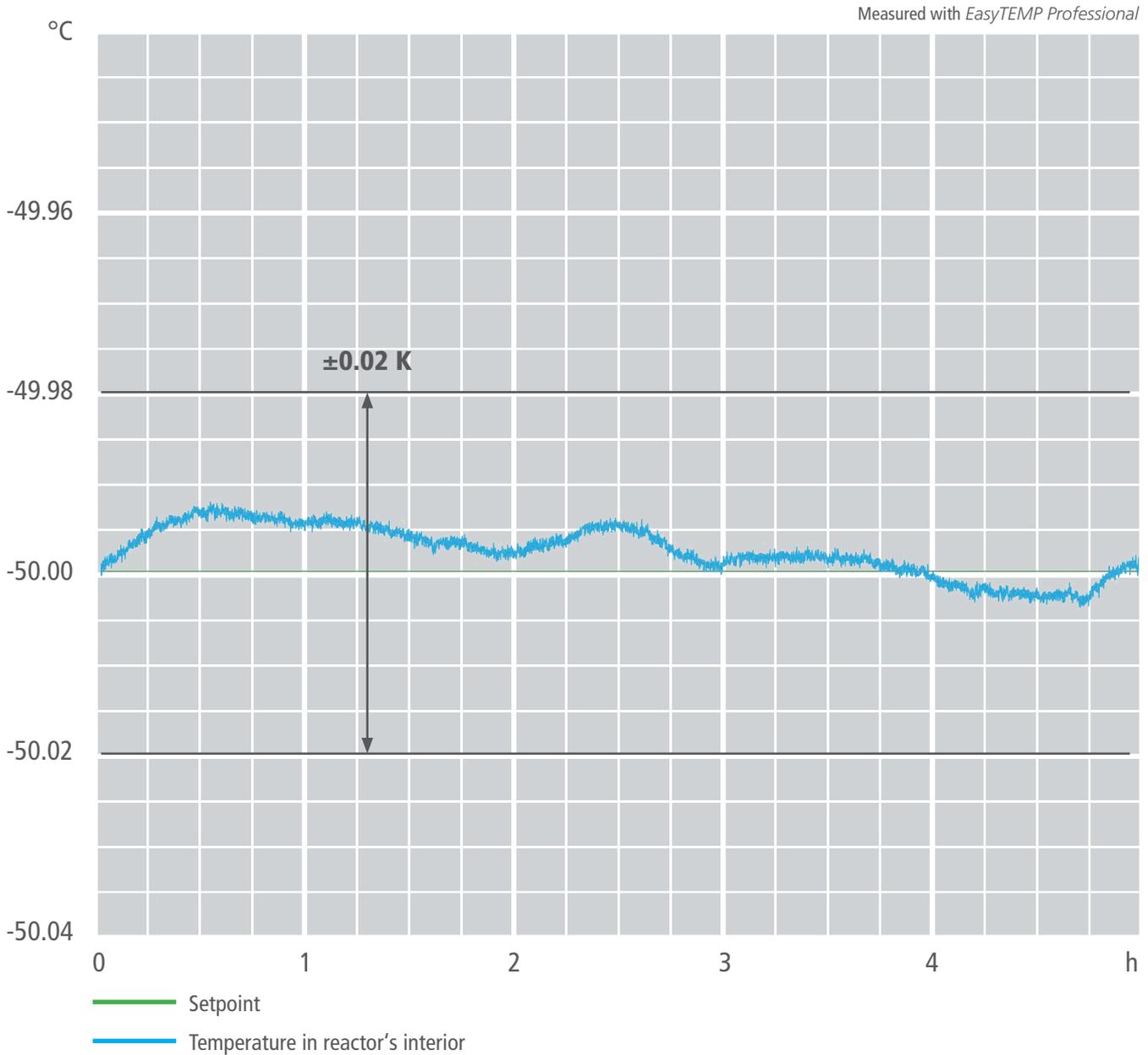
Tip

You can also use the robust Pt100 with PTFE coating.

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

**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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