Julabo Case Study

JULABO FP50-HL

Temperature stability with a 10 l reactor at +20 °C

Objective

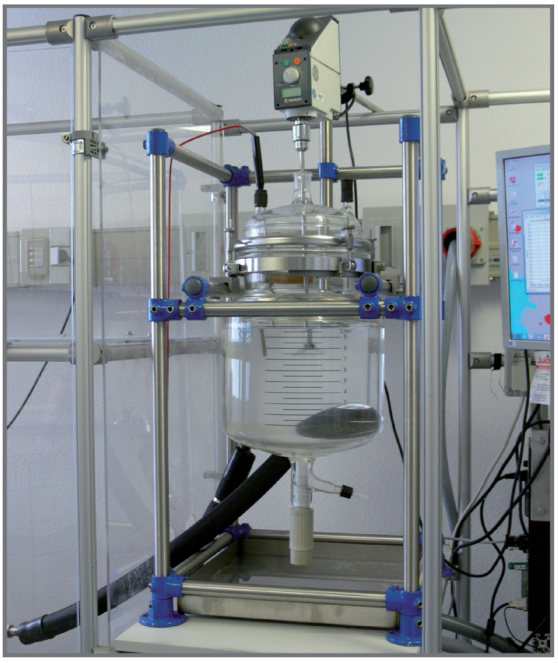
This case study tests the temperature stability of **JULABO FP50-HL** with a 10 liters glass reactor. The FP50-HL is connected to the reactor via two 2 m metal tubings. The FP50-HL was set to setpoint +20 °C.

Environment

Room temperature	20 °C
Humidity	45 %
Voltage	230 V / 50 Hz

Test Conditions

JULABO unit	JULABO FP50-HL
Cooling power	+20 °C 0.9 kW
	0 °C 0.8 kW
	-20 °C 0.5 kW
Heating capacity	2 kW
Band limit	without
Flow pressure	0.4 bar
Bath fluid	JULABO Thermal H10
Reactor	10 liters glass reactor (Normag)
	filled with 10 liter JULABO Thermal H10
Jacket Volume	5.0 l
Control	External (ICC)



Test Results

See chart on back page: The FP50-HL cooled down the reactor to +20 °C. After reaching the temperature of +20 °C, the temperature within the reactor fluctuated for 10 min about ±0.01 K.

Tip

You can also use the robust Pt100 with PTFE coating.

More tips on back page >>

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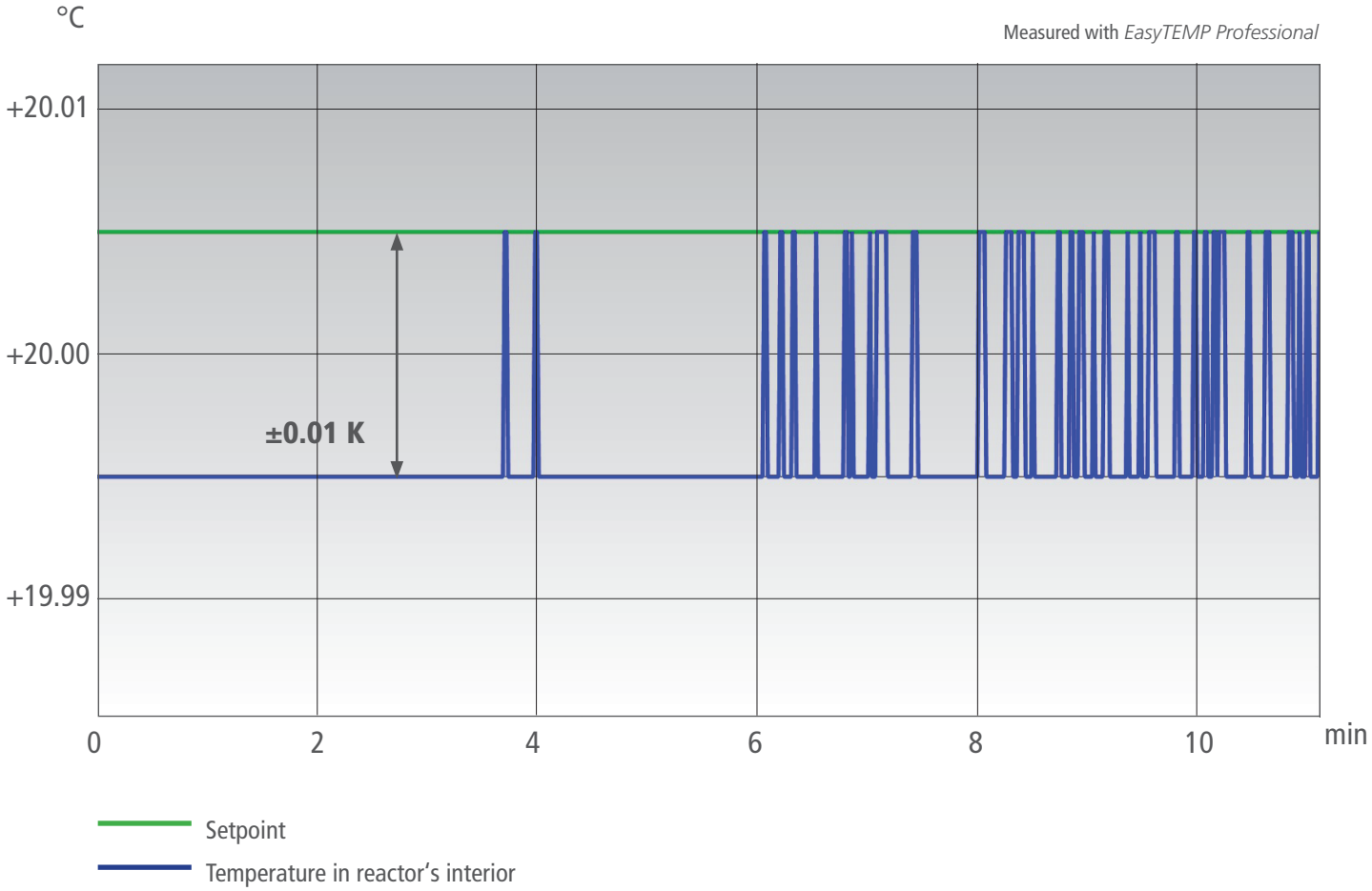
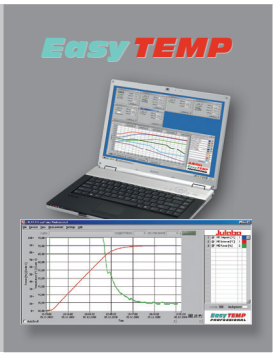
THE TEMPERATURE CONTROL COMPANY



Tip

Use the free of charge *EasyTEMP* software to control the units with the PC and to show the temperature curves graphically.



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