Julabo Case Study

JULABO PRESTO® A40

Cooling a 5 liters reactor from 0 °C to -25 °C

Objective

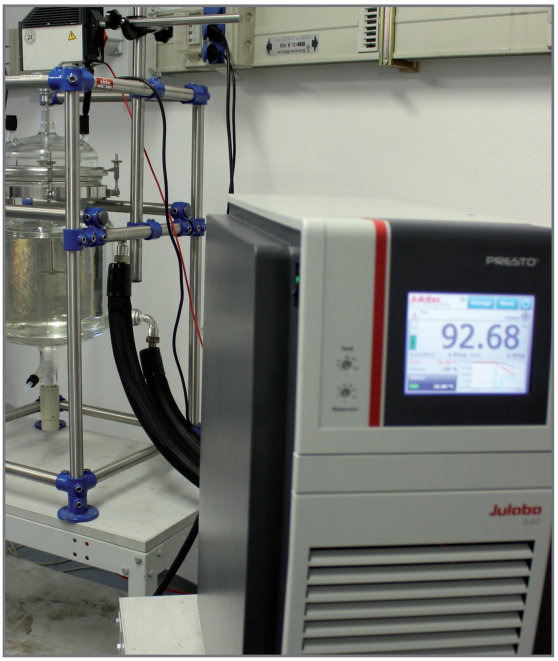
This case study tests the cooling power of JULABO PRESTO® A40 with a 5 liters glass reactor. The A40 is connected to the reactor via two 2 m metal tubings. The A40 is programmed to cool down from 0 °C to -25 °C.

Environment

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

Test Conditions

JULABO unit	JULABO PRESTO® A40
Cooling power	+20 °C 1.2 kW
	0 °C 0.9 kW
	-20 °C 0.6 kW
Heating capacity	2.7 kW
Band limit	No
Flow pressure	0.40 bar
Bath fluid	JULABO Thermal HL40
Reactor	5 liters glass reactor (Rettberg)
	filled with 5 liter JULABO Thermal HL40
Control	External (ICC)



Test Results

See chart on back page: The A40 cooling process from 0 °C to -25 °C in 1 h without overshoot.

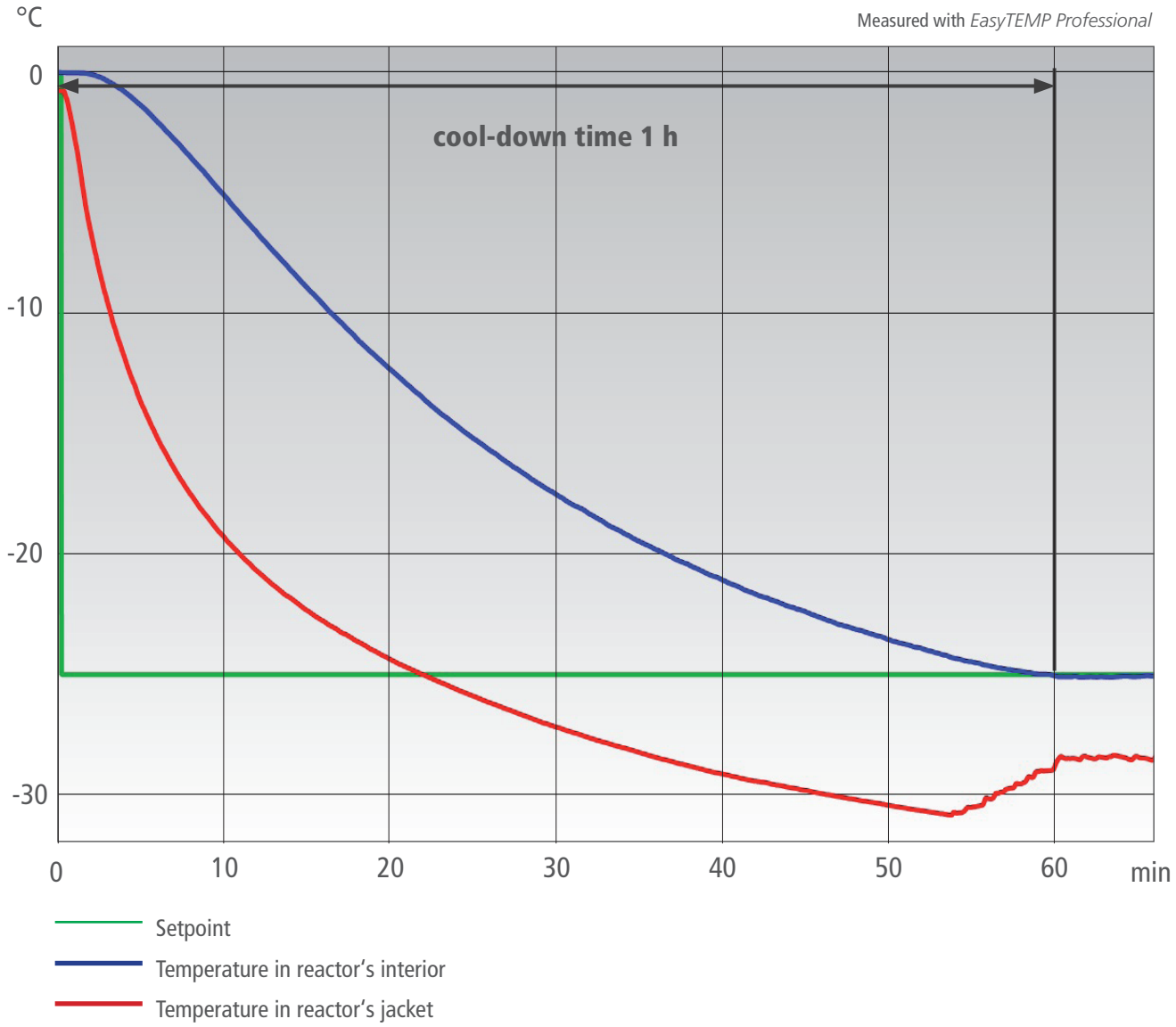
Tip

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

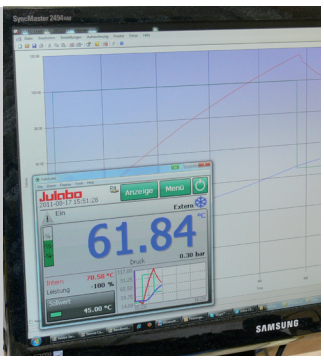


Tip

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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