Julabo Case Study

JULABO PRESTO® A40

Cooling a 20 liters reactor from +25 °C to maximum low temperature -32 °C

Objective

This case study tests the maximum low temperature of the PRESTO® A40 with a 20 liters vacuum insulated glass reactor. The A40 is connected to the reactor via 2.0 m metal tubings. The A40 is programmed to cool down from +25 °C to maximum low temperature.

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	Triple walled 20 liters glass reactor (Asahi) filled with 18 liter JULABO Thermal HL40
Jacket volume	7.0 l
Control	External (ICC)

Test Results

See chart on back page: The A40 cooled the reactor from +25 °C down to maximum low temperature of -32 °C in 4 h 30 min.

Tip

You can also use the robust Pt100 with PTFE coating.

More tips on back page >>

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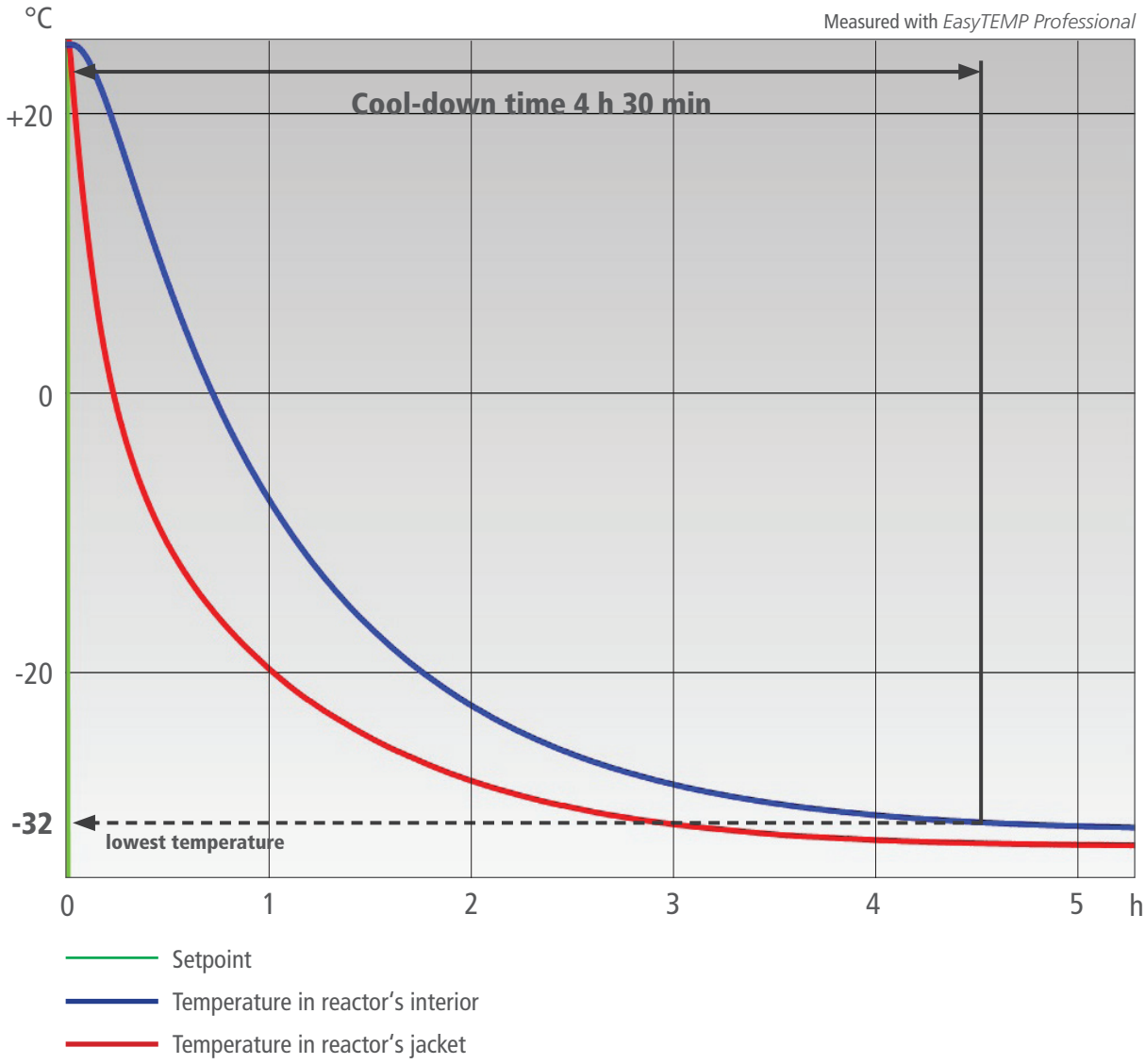
Julabo
THE TEMPERATURE CONTROL COMPANY



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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