Julabo Case Study

JULABO PRESTO® A40

Heating a 10 liters reactor from 0 °C to +100 °C

Objective

This case study tests the heating power of JULABO PRESTO® A40 with a 10 liters glass reactor. The A40 is connected to the reactor via two 2.0 m metal tubings. The A40 is programmed to heat up from 0 °C to +100 °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	10 liters glass reactor (Normag)
	filled with 10 liter JULABO Thermal HL40
Control	External (ICC)

Test Results

See chart on back page: The A40 heating process from 0 °C to +100 °C in 1 h 15 min without overshoot.

Tip

You can also use the robust Pt100 with PTFE coating.

More tips on back page >>

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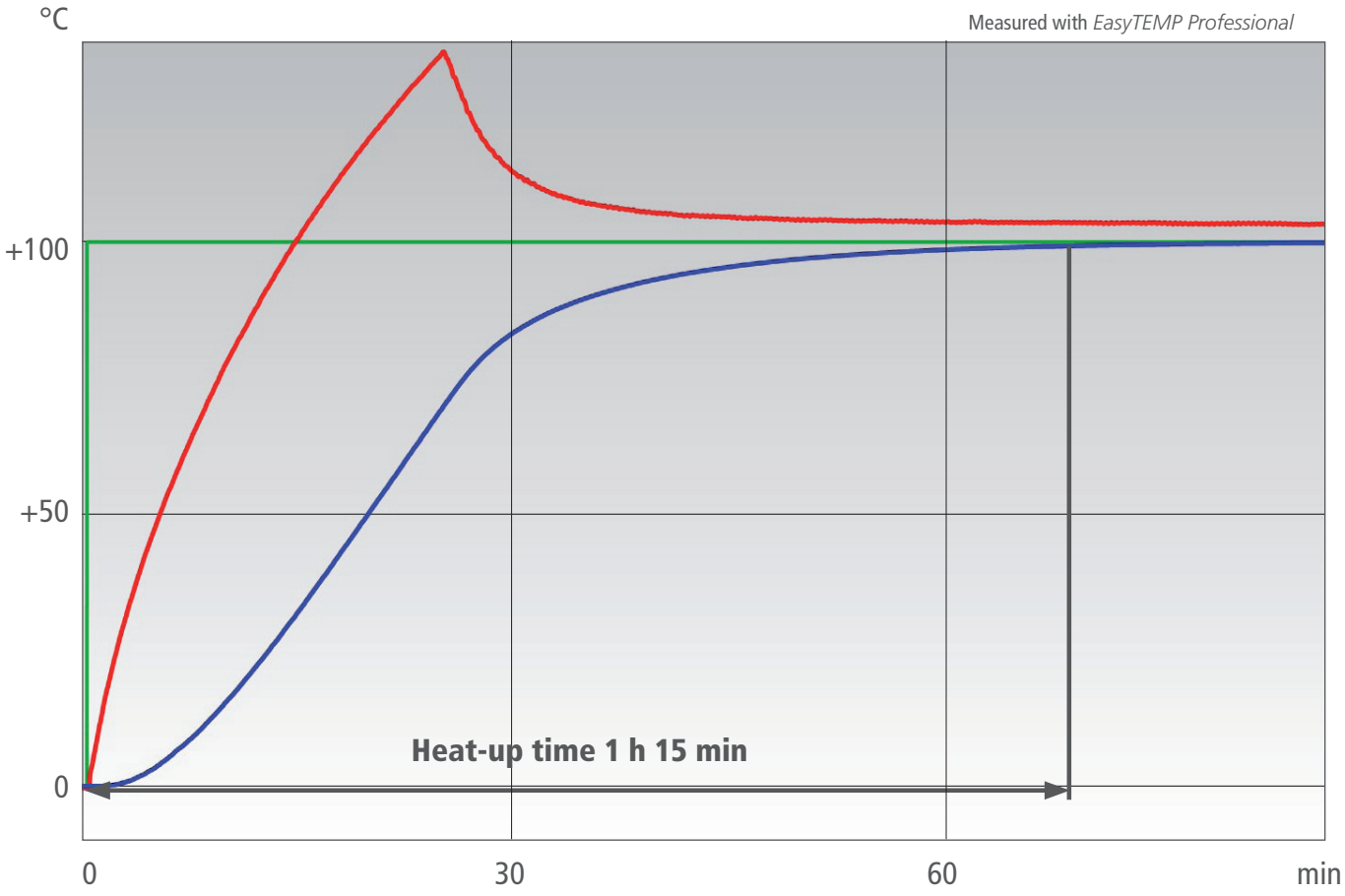
Julabo
THE TEMPERATURE CONTROL COMPANY

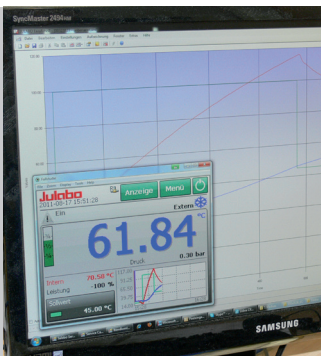


Tip

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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