PRESTO® A40

Cooling a 6 liters reactor from +20 °C to -20 °C

Objective

This case study tests the cooling power of PRESTO® A40 with a 6 liters glass reactor. The PRESTO® A40 is connected to the reactor via two 2 m metal tubings. The PRESTO® A40 is programmed to cool down from +20 °C to -20 °C.

Environment

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

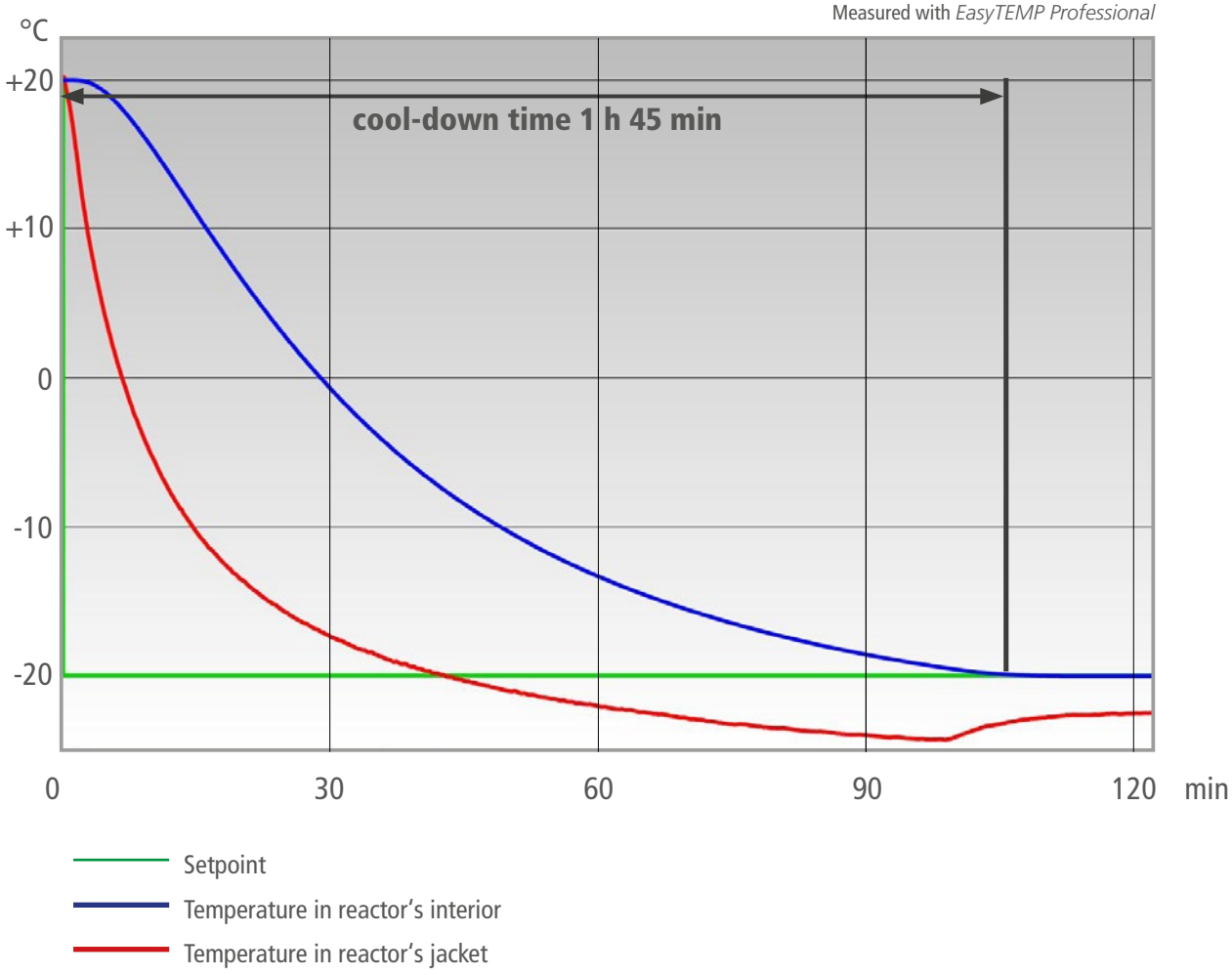
Test Conditions

JULABO unit	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	without
Flow pressure	0.5 bar
Bath fluid	Thermal HL60
Reactor	6 l glass reactor (QVF)
	filled with 5 l Thermal HL60
Jacket volume	4.5 l
Control	External (ICC)

Test Results

The PRESTO® A40 cooling process from +20 °C to -20 °C in 1 h 45 min without overshoot.

Measured with *EasyTEMP Professional*



Tip

You can also use the robust Pt100 with PTFE coating.

Tip

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