PRESTO® A80t

Cooling a 20 liters reactor from +20 °C to -60 °C

Objective

This case study tests the cooling power of PRESTO® A80t with a 20 liters glass reactor. The PRESTO® A80t is connected to the reactor via two 1 m metal tubings. The PRESTO® A80t is programmed to cool down from +20 °C to -60 °C.

Environment

Room temperature	+20 °C
Humidity	45 %
Voltage	208 V / 60 Hz

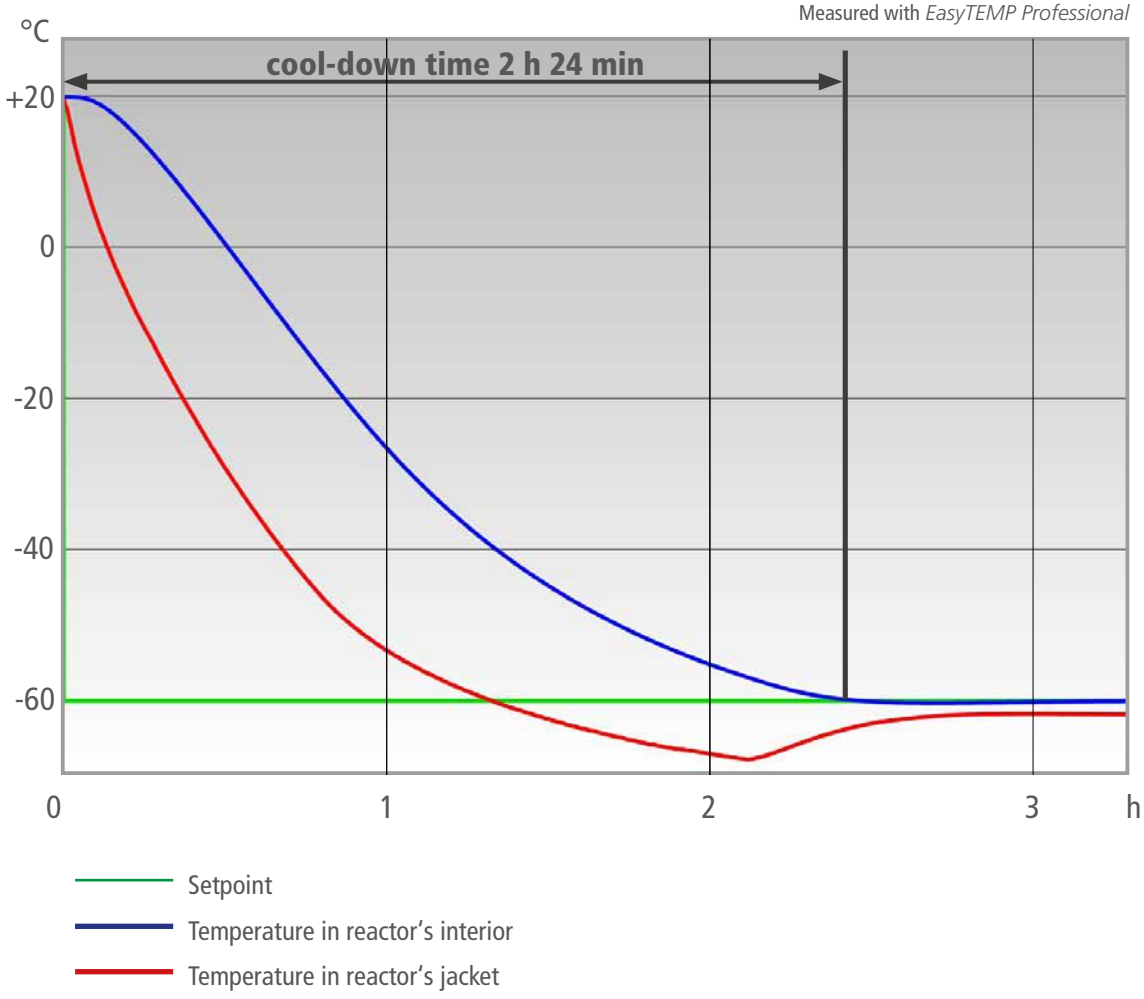
Test Conditions

JULABO unit	PRESTO® A80t
Cooling power	+20 °C 1.2 kW
	0 °C 1.2 kW
	-20 °C 1.1 kW
Heating capacity	3.4 kW
Band limit	with
Flow pressure	0.5 bar
Bath fluid	Thermal HL80
Reactor	20 l glass reactor (Asahi)
	filled with 19 l Thermal HL80
Jacket volume	7 l
Control	External (ICC)

Test Results

The PRESTO® A80t cooling process from +20 °C to -60 °C in 2 h 24 min without overshoot.

Measured with *EasyTEMP Professional*



Tip

Use our tube adapters and your tubing will no longer kink.

Tip

You can also use the robust Pt100 with PTFE coating.