PRESTO® W80

Cooling a 5 liters reactor from +100 °C to +20 °C

Objective

This case study tests the cooling power of PRESTO® W80 with a 5 l glass reactor. The PRESTO® W80 is connected to the reactor via two 1 m metal tubings. The PRESTO® W80 is programmed to cool down from +100 °C to +20 °C.

Environment

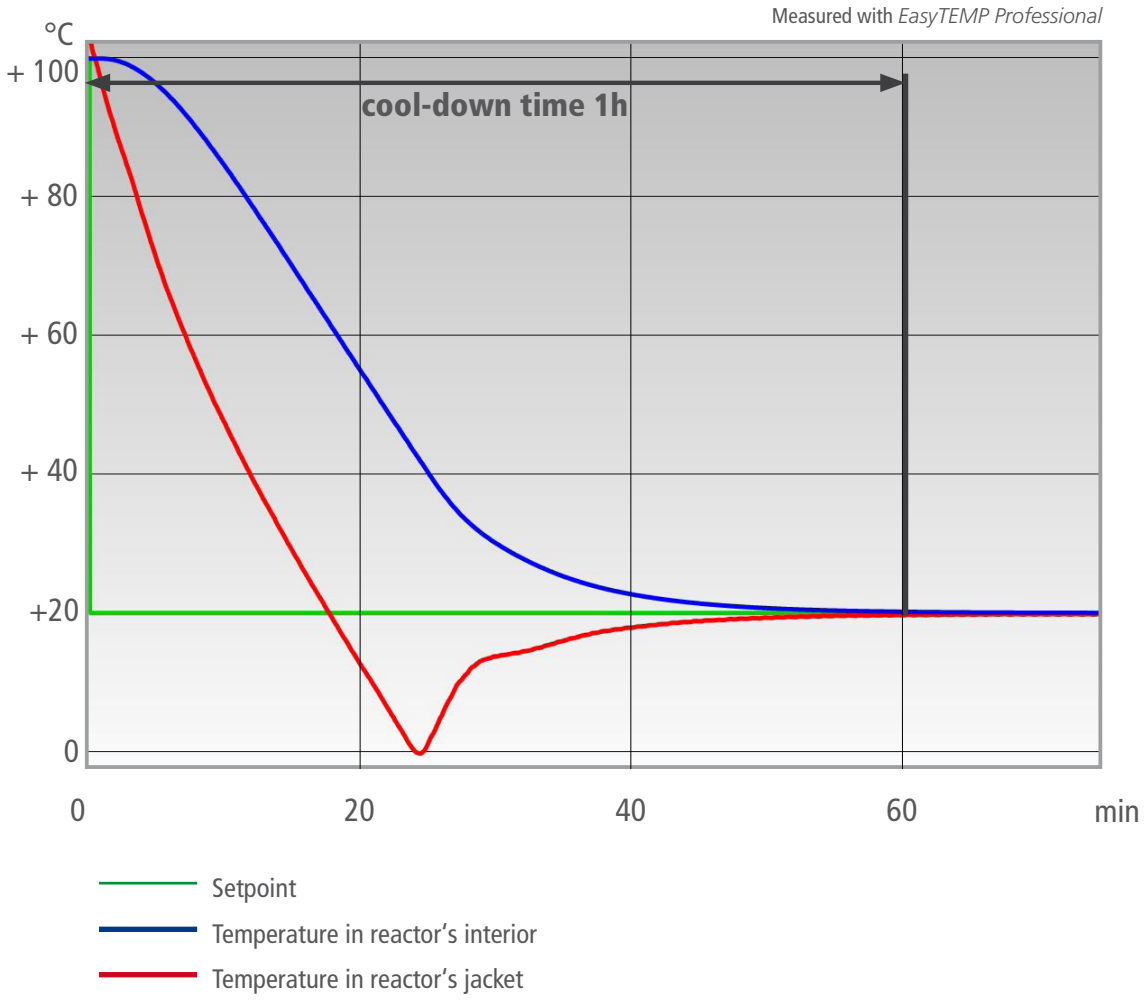
Room temperature	+20 °C
Humidity	45 %
Voltage	230 V / 50 Hz

Test Conditions

JULABO unit	PRESTO® W80
Cooling power	+20 °C 1.2 kW
	0 °C 1.2 kW
	-20 °C 1.1 kW
Heating capacity	1.8 kW
Band limit	without
Flow pressure	0.4 bar
Bath fluid	Thermal HL 80
Reactor	5 l glass reactor (Rettberg) filled with 5 l Thermal HL 80
Jacket volume	2.5 l
Control	External (ICC)

Test Results

The PRESTO® W80 cooling process from +100 °C to +20 °C in 1h without overshoot.



Tip

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

Tip

You can also use the robust Pt100 with PTFE coating.