PRESTO™ A30

Cooling a 6 liters reactor from +20 °C to 0 °C

Objective

This case study tests the cooling power of PRESTO™ A30 with a 6 liters glass reactor. The PRESTO™ A30 is connected to the reactor via two 2 m metal tubings. The PRESTO™ A30 is programmed to cool down from +20 °C to 0 °C.

Environment

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

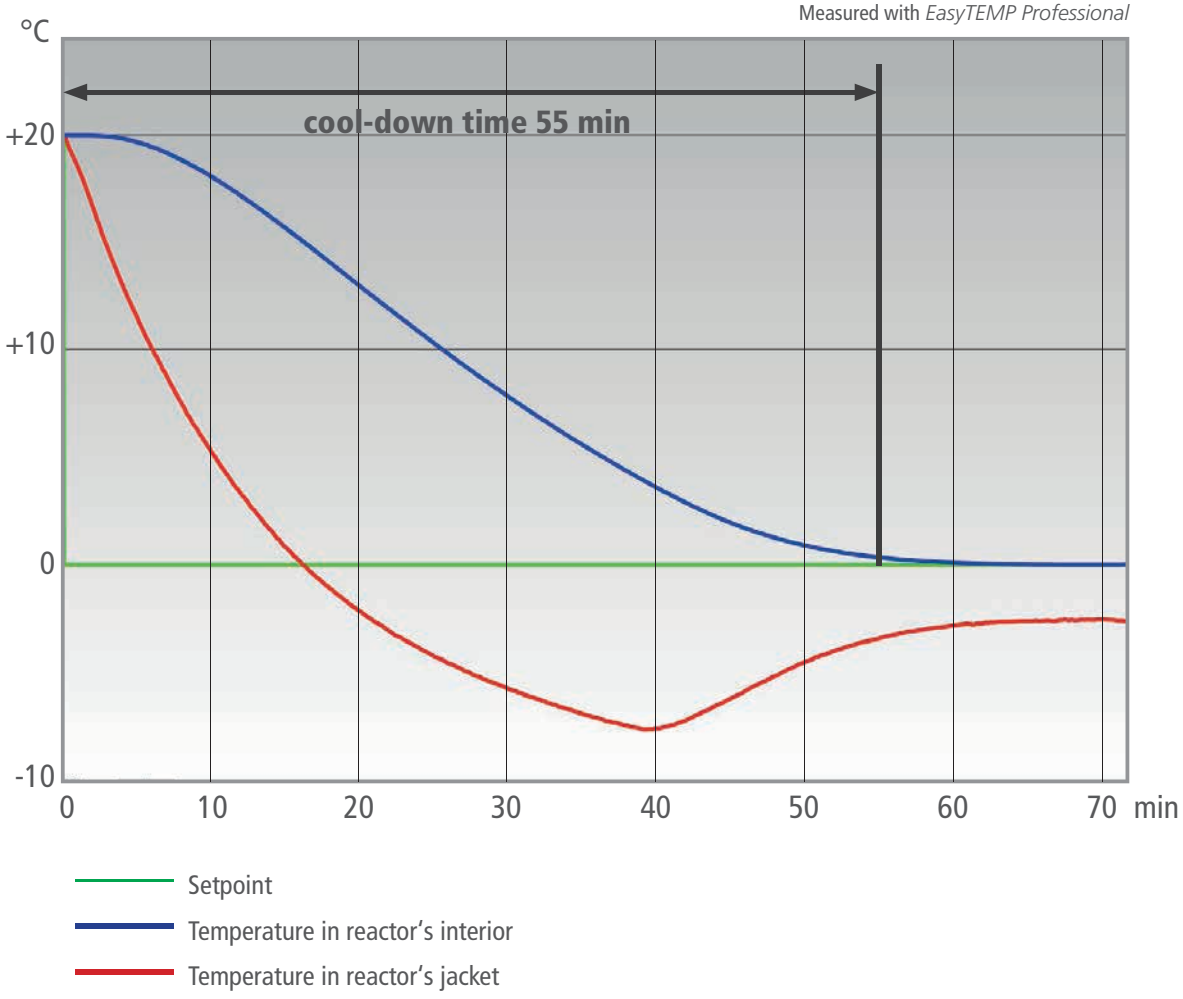
Test Conditions

JULABO unit	PRESTO™ A30
Cooling power	+20 °C 0.5 kW
	0 °C 0.4 kW
	-20 °C 0.2 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™ A30 cooling process from +20 °C to 0 °C in 55 min without overshoot.

Measured with *EasyTEMP Professional*



Tip

You can also use the robust Pt100 with PTFE coating.

Tip

Take advantage of our wide range of accessories. The M+R adapter enables you to display and record an additional temperature.