PRESTO® A30

Cool-down a 6 liters reactor from +20 °C to lowest possible temperature

Objective

This case study tests the lowest possible temperature of the 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 cools down from +20 °C to the lowest possible temperature.

Environment

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

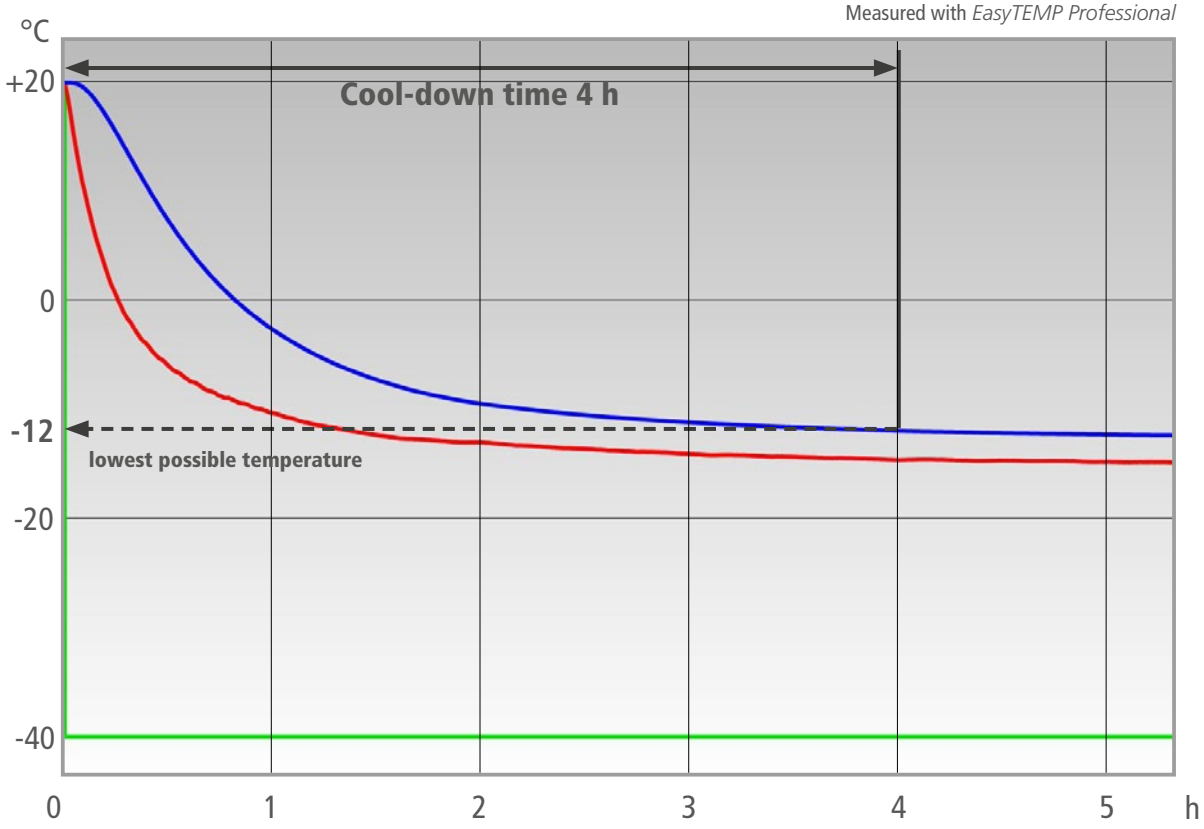
Test Conditions

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 cooled the reactor from +20 °C down to the lowest possible temperature in 4 h.
Within these test conditions the lowest possible temperature is -12 ° C.

Measured with *EasyTEMP Professional*



Setpoint
Temperature in reactor's interior
Temperature in reactor's jacket

Tip

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

Tip

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