

PRESTO W50

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

Objective

This case study tests the cooling power of PRESTO W50 with a 100 liters glass reactor. The PRESTO W50 is connected to the reactor via two 2 m metal tubings. The PRESTO W50 is programmed to cool down from +100 °C to +20 °C.

Environment

Room temperature +20 °C
 Humidity 45 %
 Voltage 400 V / 50 Hz

Test Conditions

JULABO unit	PRESTO W50
Cooling power	+20 °C 7.5 kW 0 °C 6.5 kW -20 °C 3.0 kW
Heating capacity	6 kW
Band limit	without
Flow pressure	0.5 bar
Bath fluid	Thermal HL60
Reactor	100 l glass reactor (Büchiglas) filled with 80 l Thermal HL60
Jacket volume	30 l
Control	External (ICC)

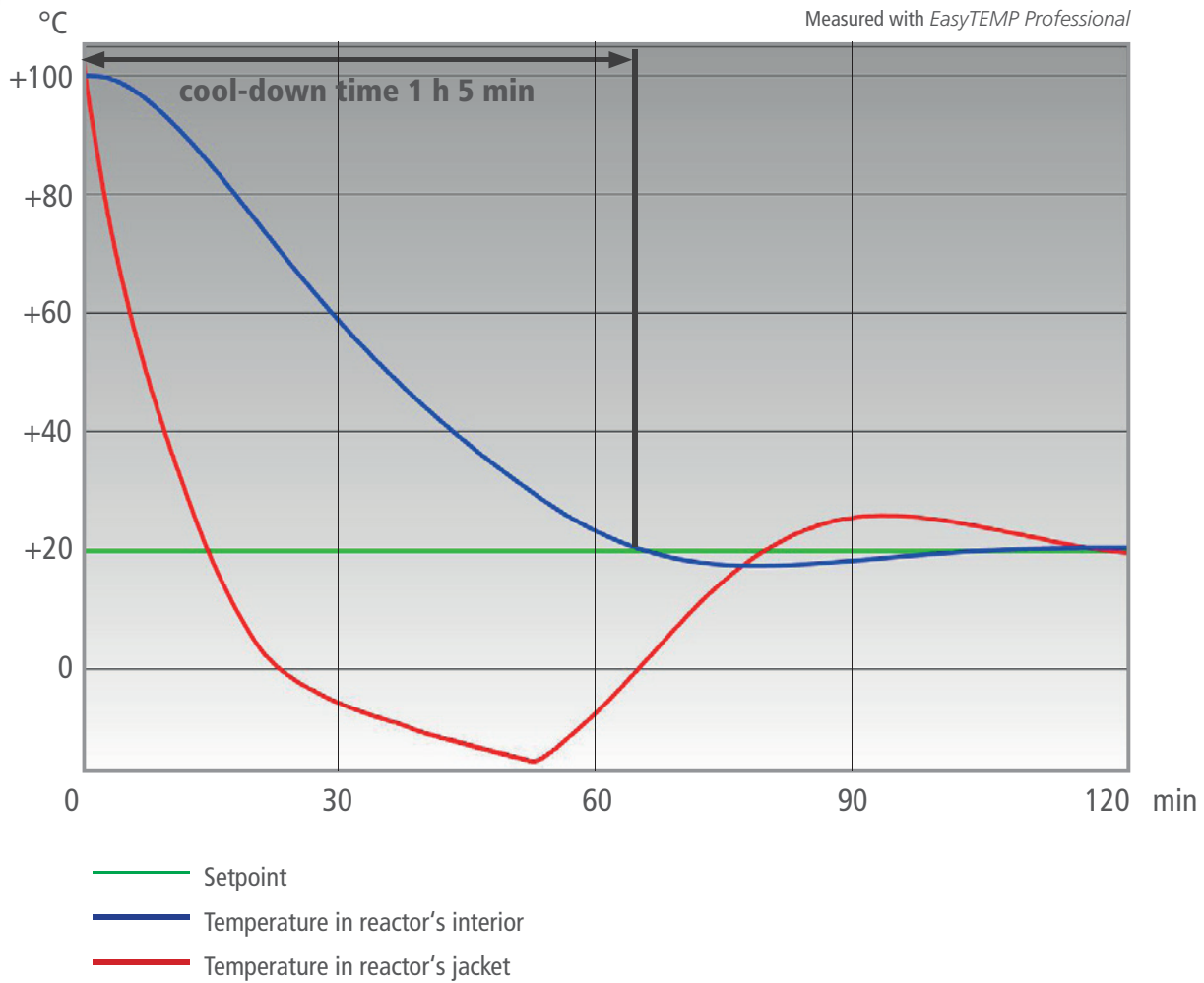
Control Parameters

Xp 0.2 K
 Tn 695 s
 Tv 85 s
 Xpu 15 K



Test Results

The PRESTO W50 cooling process from +100 °C to +20 °C in 1 h 5 min without overshoot.



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.

EasyTEMP

