

Julabo Case Study

JULABO Presto W80

Cool-down of a 10 liters reactor from +100 °C to maximum low temperature



Objective

This case study tests the maximum low temperature of the Presto W80 with a 10 liters glass reactor. The W80 is connected to the reactor via 1.0 m triple insulated metal tubings. The W80 is cooled-down from +100 °C to maximum low temperature.

Test Conditions

JULABO unit	JULABO 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	No
Flow pressure	0.5 bar
Bath fluid	JULABO Thermal HL80
Reactor	10 liters glass reactor (Normag) filled with 10 liters Thermal HL80
Control	External (ICC)

Environment

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



Test Results

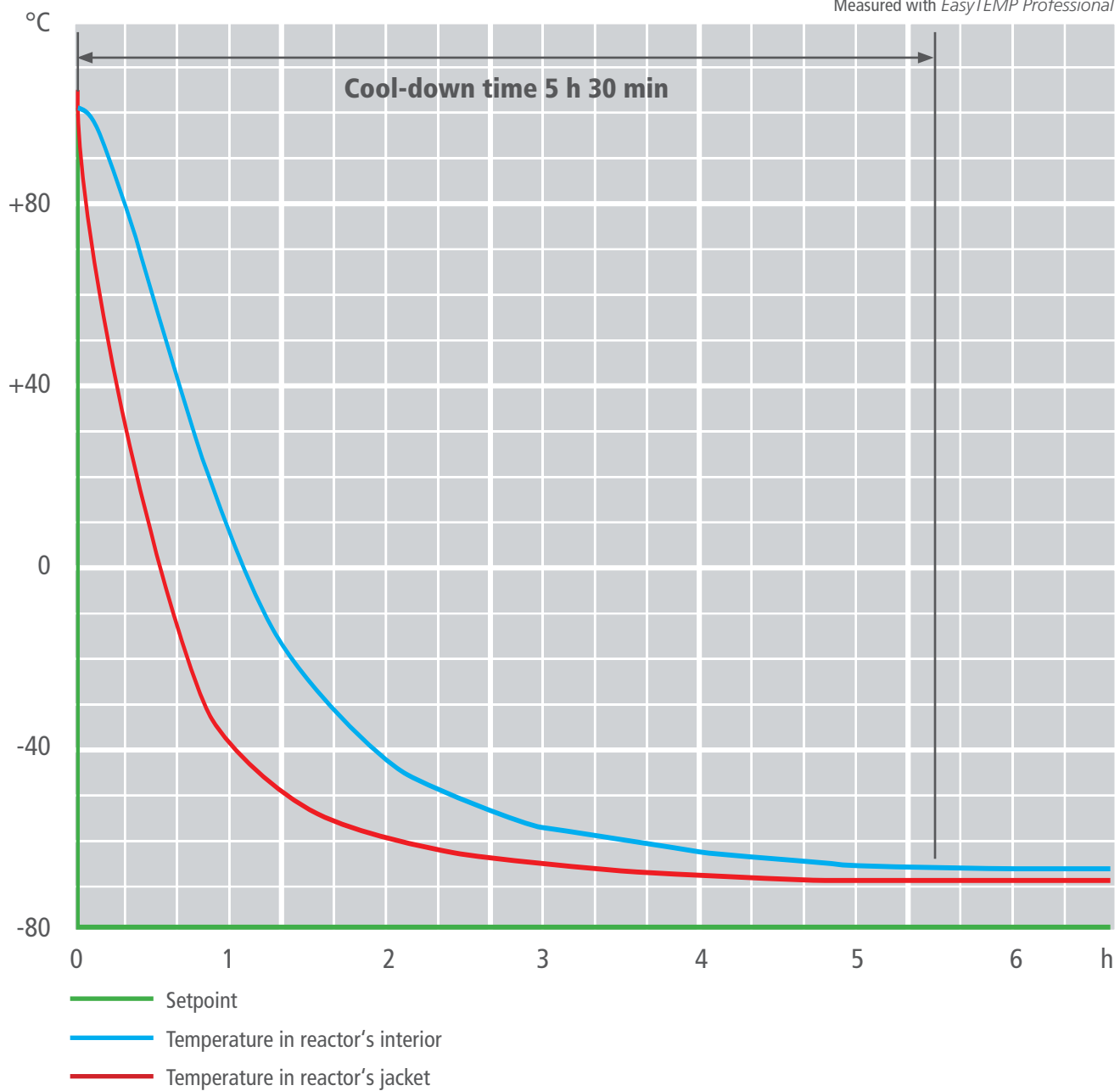
See chart on back page: The W80 cooled the reactor from +100 °C down to maximum low temperature of -67.3 °C in 5 h 30 min.

Tip

Make use of the option to regulate the pump pressure. You can define the desired pressure in the PRESTO® settings.



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Measured with *EasyTEMP Professional*

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