

Julabo Case Study

JULABO PRESTO® W91tt

Cooling a 100 litres reactor
from +20 °C to -50 °C



Objective

This case study tests the cooling power of JULABO PRESTO® W91tt with a 100 litres glass reactor. The W91tt is connected to the reactor via two 2.0 m metal tubings. The W91tt is programmed to cool down from +20 °C to -50 °C.

Test Conditions

JULABO unit	JULABO PRESTO® W91tt
Cooling power	+20 °C 11.0 kW
	0 °C 10.0 kW
	-20 °C 9.5 kW
Heating capacity	36 kW
Band limit	without
Flow pressure	0.45 bar
Bath fluid	JULABO Thermal HL80
Reactor	100 litres glass reactor (Büchiglas) filled with 100 litres Thermal HL80
Control	External (ICC)

Environment

Room temperature	+20 °C
Humidity	45 %
Voltage	3 x 400 V / 50 Hz



Test Results

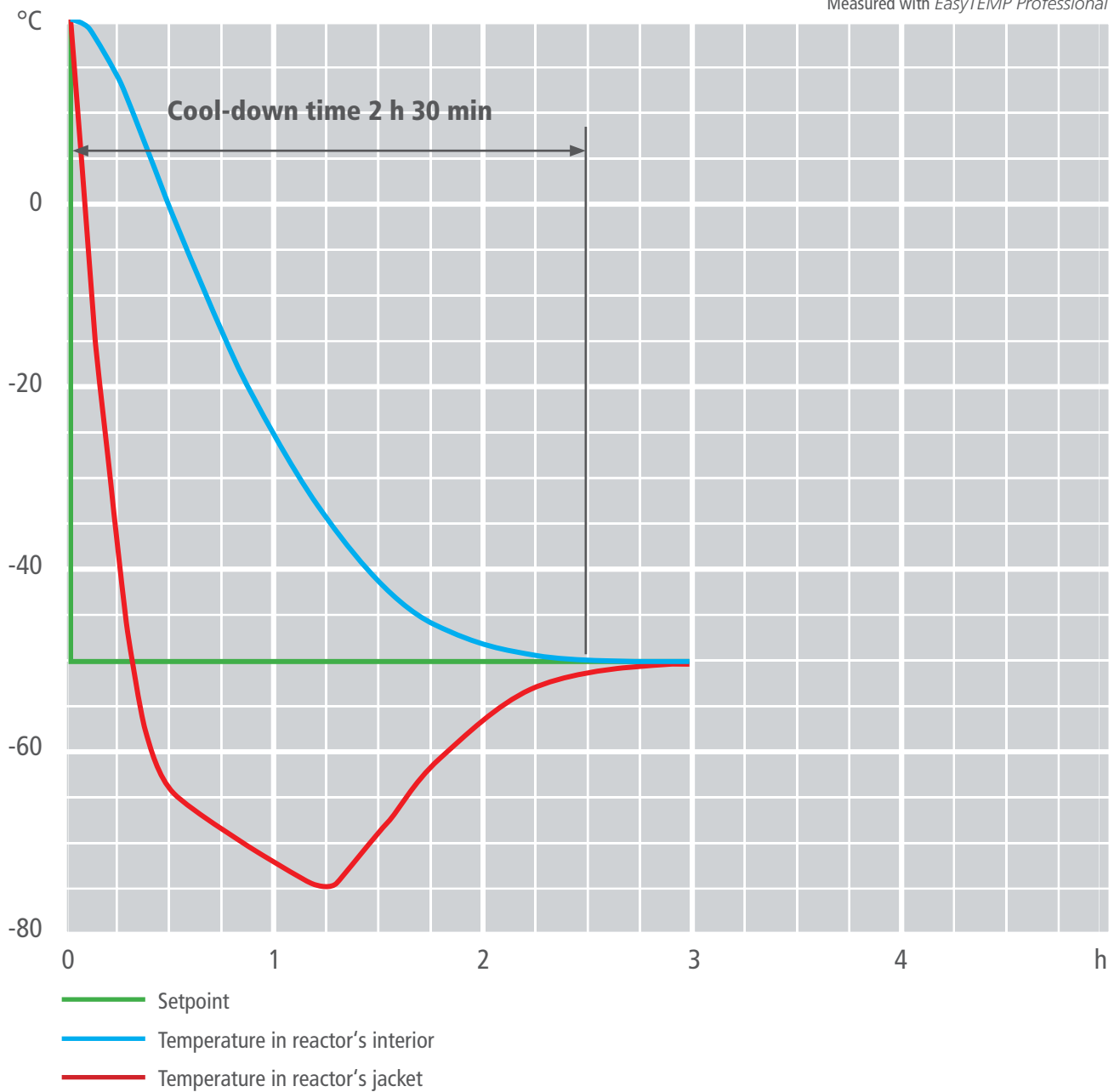
See chart on back page: The W91tt cools down the reactor from +20 °C to -50 °C in 2 h 30 min. -50 °C are hit without overshoot.

Tip

You can also use the robust Pt100 with PTFE coating.

More tips on back page >>



Measured with *EasyTEMP Professional***Tip**

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

**Tip**

The Ethernet interface permits full access to all operational functions of the PRESTO®.

