

Julabo Case Study

JULABO PRESTO® W91tt

Temperature stability with
a 100 l reactor at +20 °C



Objective

This case study tests the temperature stability of a JULABO PRESTO® W91tt with a 100 liters glass reactor. The W91tt is connected to the reactor via two 2.0 m metal tubings. The W91tt was set to a set point of +20 °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 | ohne |
| Flow pressure | 0.45 bar |
| Bath fluid | JULABO Thermal HL80 |
| Reactor | 100 liters glass reactor (Büchiglas) filled with 100 liters 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 heats up to +20 °C. After reaching the temperature of +20 °C, the temperature within the reactor fluctuated by ± 0.01 K max.

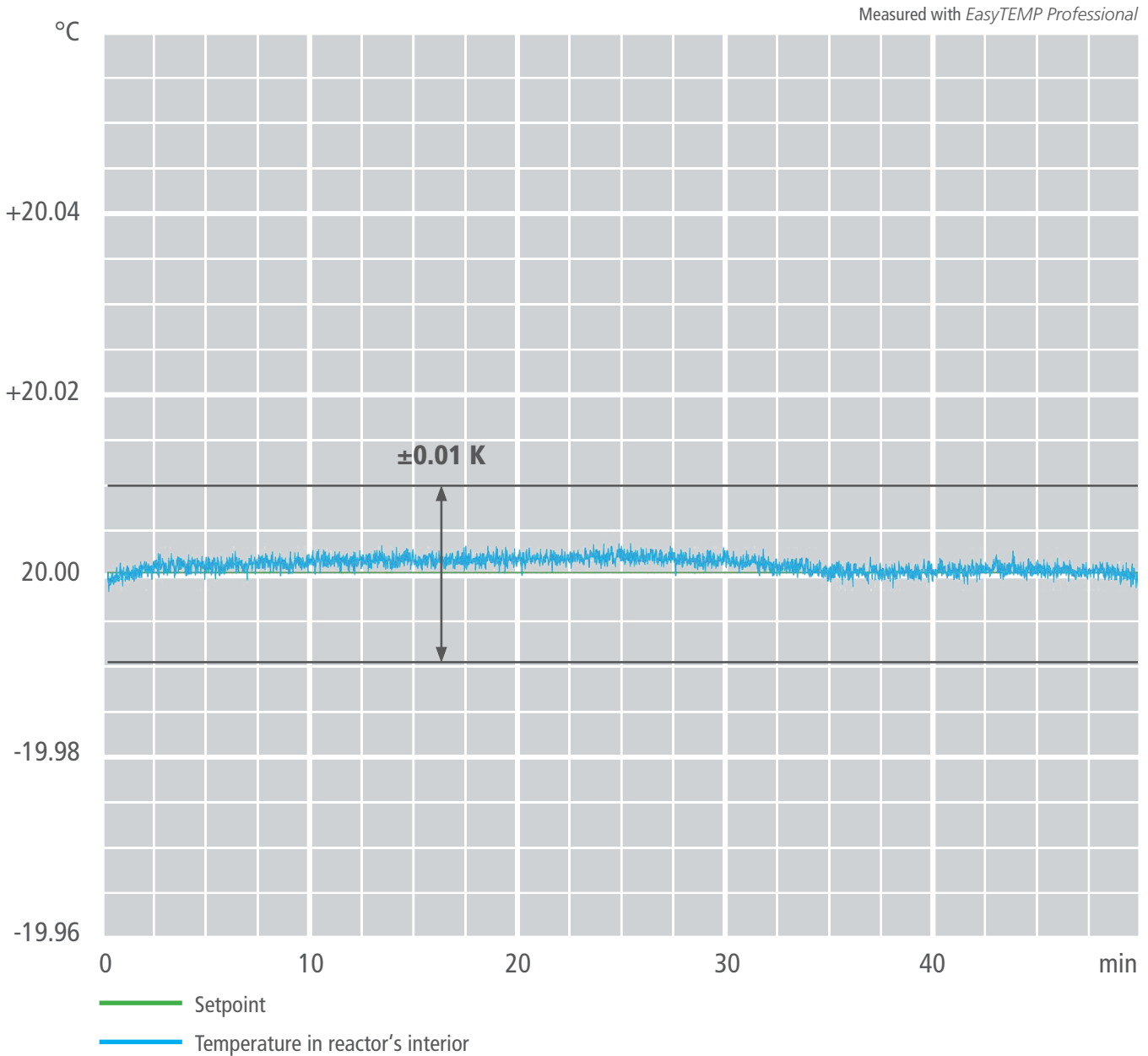
Tip

You can also use the robust Pt100 with PTFE coating.

More tips on
back page >>



JULABO GmbH
Eisenbahnstraße 45
77960 Seelbach / Germany
Tel. +49 (0) 7823 51-0



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®.



JULABO GmbH
 Eisenbahnstraße 45
 77960 Seelbach / Germany
 Tel. +49 (0) 7823 51-0