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 -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           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)

Test Results
See chart on back page: The W91tt cools down the reactor to -50 °C. After reaching the temperature of -50 °C, the temperature within the reactor fluctuated by ±0.01 K max.

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

Tip
You can also use the robust Pt100 with PTFE coating.

More tips on back page >>
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®.