**Objective**
This case study tests the cooling power of 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 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 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 from +20 °C to -50 °C in 2 h 30 min. -50 °C are hit without overshoot.

**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 >>
Cool-down time 2 h 30 min

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®.