Objective
This case study tests the cooling power of JULABO PRESTO® A40 with a 20 liters vacuum insulated glass reactor. The A40 is connected to the reactor via two 2.0 m metal tubings. The A40 is programmed to cool down from +170 °C to -20 °C.

Test Conditions
JULABO unit: JULABO PRESTO® A40
Cooling power:
+20 °C  1.2 kW
0 °C  0.9 kW
-20 °C  0.6 kW
Heating capacity: 2.7 kW
Band limit: No
Flow pressure: 0.40 bar
Bath fluid: JULABO Thermal HL40
Reactor: Triple walled 20 liters glass reactor (Asahi) filled with 18 liter JULABO Thermal HL40
Jacket volume: 7.0 l
Control: External (ICC)

Test Results
See chart on back page: The A40 cooling process from +170 °C to -20 °C in 3 h 30 min without overshoot.

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®.