Objective
This case study tests the cooling power of JULABO PRESTO® A80 with a 20 liters glass reactor. The A80 is connected to the reactor via two 2.0 m metal tubings. The A80 is programmed to cool down from 0 °C to -30 °C.

Test Conditions
JULABO unit JULABO PRESTO® A80
Cooling power +20 °C 1.2 kW
0 °C 1.2 kW
-20 °C 1.1 kW
Heating capacity 1.8 kW
Band limit No
Flow pressure 0.40 bar
Bath fluid JULABO Thermal HL80
Reactor 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 A80 cooling process from 0 °C to -30 °C in 1 h without overshoot.

Environment
Room temperature +20 °C
Humidity 45 %
Voltage 230 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®.

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