Objective
This case study tests the heating 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 heat up from -20 °C to 0 °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: 0.31 bar
Bath fluid: JULABO Thermal HL40
Reactor:
- Triple walled 20 liters glass reactor (Asahi)
- Filled with 18 liters JULABO Thermal HL40
Jacket volume: 7.0 l
Control: External (ICC)

Environment
Room temperature: +20 °C
Humidity: 45%
Voltage: 230 V / 50 Hz

Test Results
See chart on back page: The A40 heating process from -20 °C to 0 °C in 22 min with a small overshoot. Using the CoSpeed value the behavior of the temperature curves can be influenced with regard to their aggressivity.

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

More tips on back page >>

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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®.