Objective
This case study tests the heating power of JULABO PRESTO® A40 with a 5 liters glass reactor. The A40 is connected to the reactor via two 2.0 m metal tubings. The A40 is programmed to heat up from +25 °C to +100 °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:** 5 liters glass reactor (Rettberg) filled with 5 liter JULABO Thermal HL40
- **Control:** External (ICC)

Test Results
See chart on back page: The A40 heating process from +25 °C to +100 °C in 40 min 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.

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**Tip**

The Ethernet interface permits full access to all operational functions of the PRESTO®.

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Tip

Heat-up time 40 min

Measured with EasyTEMP Professional

Setpoint

Temperature in reactor’s interior

Temperature in reactor’s jacket