Case Study

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 0 °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)

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

Test Results
See chart on back page: The A40 heating process from 0 °C to +100 °C in 35min without overshoot.

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

More tips on back page >>
Heat-up time 35 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®.