**PRESTO® A40**

**Cooling a 6 liters reactor from +150 °C to +20 °C**

**Objective**

This case study tests the cooling power of PRESTO® A40 with a 6 liters glass reactor. The PRESTO® A40 is connected to the reactor via two 2 m metal tubings. The PRESTO® A40 is programmed to cool down from +150 °C to +20 °C.

**Environment**

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

**Test Conditions**

- JULABO unit: 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: without
- Flow pressure: 0.5 bar
- Bath fluid: Thermal HL60
- Reactor:
  - 6 l glass reactor (QVF)
  - filled with 5 l Thermal HL60
- Jacket volume: 4.5 l
- Control: External (ICC)
Test Results

The PRESTO® A40 cooling process from +150 °C to +20 °C in 1 h 15 min without overshoot.

Tip
Take advantage of our wide range of accessories. The M+R adapter enables you to display and record an additional temperature.

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