PRESTO® A30

Cooling a 6 liters reactor from +20 °C to 0 °C

Objective
This case study tests the cooling power of PRESTO® A30 with a 6 liters glass reactor. The PRESTO® A30 is connected to the reactor via two 2 m metal tubings. The PRESTO® A30 is programmed to cool down from +20 °C to 0 °C.

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

Test Conditions
- JULABO unit: PRESTO® A30
- Cooling power:
  - +20 °C: 0.5 kW
  - 0 °C: 0.4 kW
  - -20 °C: 0.2 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® A30 cooling process from +20 °C to 0 °C in 55 min without overshoot.

Measured with EasyTEMP Professional

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

Tip
Use the free of charge EasyTEMP software to control the units with the PC and to show the temperature curves graphically.