PRESTO® A40

Cooling a 6 liters reactor from +50 °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 +50 °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 +50 °C to +20 °C in 36 min without overshoot.

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

Tip
Use our tube adapters and your tubing will no longer kink.