PRESTO® A40

Heating a 6 liters reactor from +20 °C to +100 °C

Objective
This case study tests the heating 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 heat up from +20 °C to +100 °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 liters glass reactor (QVF)
filled with 5 l Thermal HL60
Jacket volume 4.5 l
Control External (ICC)
Test Results

The PRESTO® A40 heating process from +20 °C to +100°C in 1 h without overshoot.

Tip

Protect your reactor. The function "band limit" (see above) permits setting the max. temperature difference between jacket and internal vessel.

Profile of reactor

Tip

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