PRESTO W50

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

Objective
This case study tests the heating power of PRESTO W50 with a 100 liters glass reactor. The PRESTO W50 is connected to the reactor via two 2 m metal tubings. The PRESTO W50 is programmed to heat up from +20 °C to +100 °C.

Environment
Room temperature +20 °C
Humidity 45%
Voltage 400 V / 50 Hz

Test Conditions
JULABO unit PRESTO W50
Cooling power
+20 °C 7.5 kW
0 °C 6.5 kW
-20 °C 3.0 kW
Heating capacity 6 kW
Band limit without
Flow pressure 0.5 bar
Bath fluid Thermal HL60
Reactor 100 liters glass reactor (Büchiglas) filled with 80 l Thermal HL60
Jacket volume 30 l
Control External (ICC)

Control Parameters
Xp 0.2 K
Tn 695 s
Tv 85 s
Xpu 15 K
Test Results
The PRESTO W50 heating process from +20 °C to +100°C in 1 h 55 min without overshoot.

Measured with EasyTEMP Professional

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

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