Case Study

PRESTO W50

Heating a 50 liters reactor from -40 °C to +20 °C

Objective
This case study tests the heating power of PRESTO W50 with a 50 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 -40 °C to +20 °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 50 liters glass reactor (QVF) filled with 35 l Thermal HL60
Jacket volume 26.5 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 -40 °C to +20°C in 55 min without overshoot.

Heat-up time 55 min

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.