

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 $^{\circ}$ C to +20 $^{\circ}$ C.

Environment

Room temperature +20 °C Humidity 45%

Voltage 400 V / 50 Hz



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



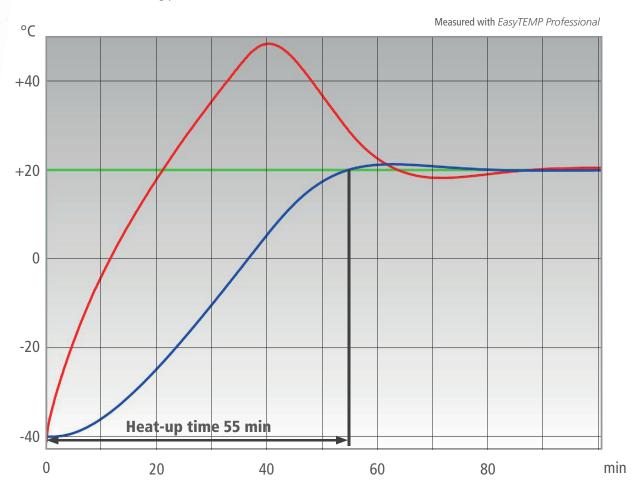






Test Results

The PRESTO W50 heating process from -40 °C to +20°C in 55 min without overshoot.



Setpoint

Temperature in reactor's interior

Temperature in reactor's jacket

Tip

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



