

PRESTO W50 Heating a 50 liters reactor from +20 °C to +150 °C

Objective

0

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 +20 °C to +150 °C.

Environment

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

Test Conditions

PRESTO W50
+20 °C 7.5 kW
0 °C 6.5 kW
-20 °C 3.0 kW
6 kW
without
0.5 bar
Thermal HL60
50 liters glass reactor (QVF)
filled with 35 I Thermal HL60
26.5 l
External (ICC)

Control Parameters

Хр	0.2 K
Tn	695 s
Tv	85 s
Хри	15 K



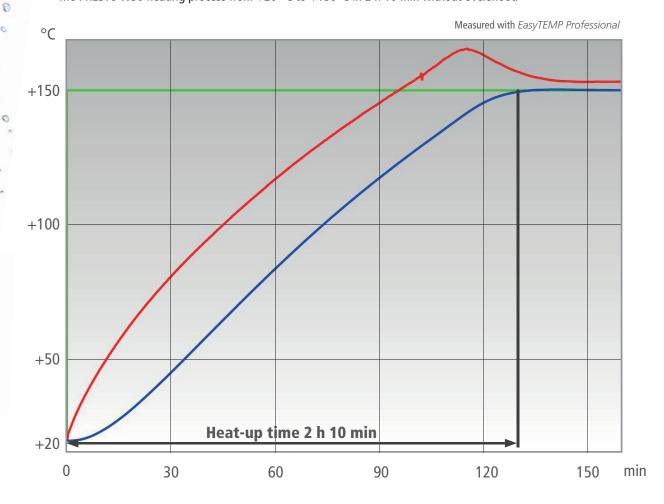


www.julabo.com



Test Results

The PRESTO W50 heating process from +20 °C to +150°C in 2 h 10 min without overshoot.

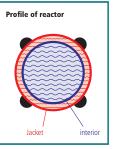


Setpoint Temperature in reactor's interior Temperature in reactor's jacket

Tip

0

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



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

