

PRESTO W50 Heating a 100 liters reactor from +20 °C to +100 °C

Objective

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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 °CHumidity45%Voltage400 V /

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
100 liters glass reactor (Büchiglas)
filled with 80 l Thermal HL60
30
External (ICC)

Control Parameters

Хр	0.2 K
Tn	695 s
Τv	85 s
Хри	15 K
24	





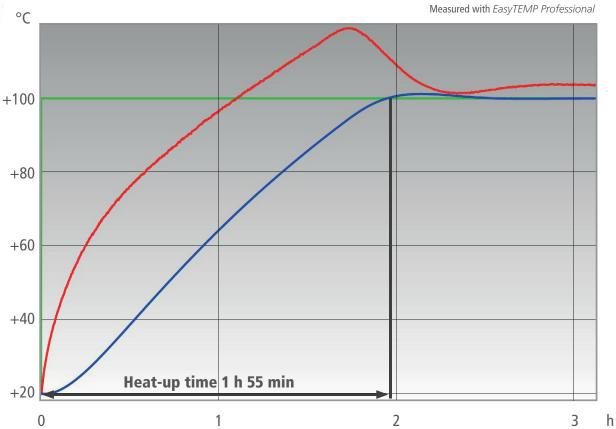
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Test Results

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The PRESTO W50 heating process from +20 °C to +100°C in 1 h 55 min without overshoot.



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

Tip

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



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

