

PRESTO[®] W92tt Heating a 100 liters reactor from -50 °C to +20 °C

Objective

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This case study tests the heating power of PRESTO[®] W92tt with a 100 liters glass reactor. The PRESTO[®] W92tt is connected to the reactor via two 3 m metal tubings. The PRESTO[®] W92tt is programmed to heat up from -50 °C to +20 °C.



Environment

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

Test Conditions

JULABO unit Cooling power

Heating capacity Band limit Flow pressure Bath fluid Reactor

Jacket volume Control PRESTO® W92tt +20 °C 19 kW 0 °C 15.5 kW -20 °C 9.5 kW 36 kW with 0.5 bar Thermal HL80 100 liters glass reactor (Büchiglas) filled with 70 l Ethanol

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External (ICC)

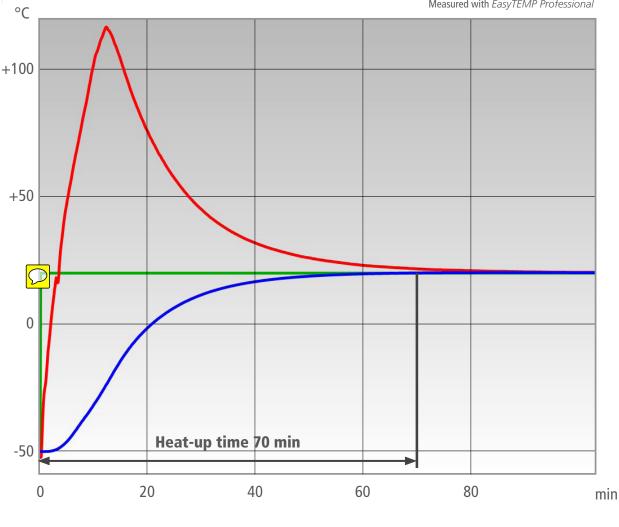




Test Results

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The PRESTO® W92tt heating process from -50 °C to +20°C in 70 min without overshoot.

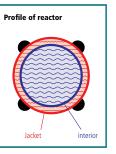


Setpoint Temperature in reactor's interior Temperature in reactor's jacket

Tip

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



Tip

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



Measured with EasyTEMP Professional