

PRESTO[®] A30 Heating a 6 liters reactor from -10 °C to +20 °C

Objective

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This case study tests the heating power of PRESTO[®] A30 with a 6 liters glass reactor. The PRESTO[®] A30 is connected to the reactor via two 2 m metal tubings. The PRESTO[®] A30 is programmed to heat up from -10 °C to +20 °C.

Environment

Room temperature	+20 °C
Humidity	45%
Voltage	230 V / 50 Hz

Test Conditions

JULABO unit Cooling power

Heating capacity Band limit Flow pressure Bath fluid Reactor

Jacket volume Control +20 °C 0.5 kW 0 °C 0.4 kW -20 °C 0.2 kW 2.7 kW without 0.5 bar Thermal HL60 6 liters glass reactor (QVF) filled with 5 I Thermal HL60 4.5 I External (ICC)

PRESTO® A30



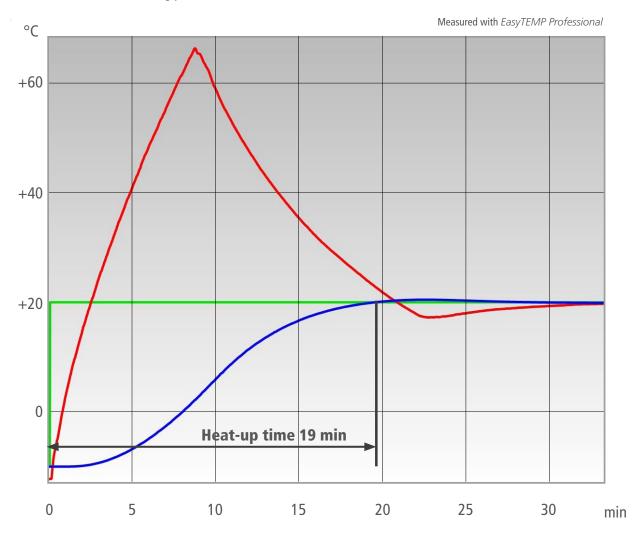




Test Results

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The PRESTO® A30 heating process from -10 °C to +20°C in 19 min without overshoot.

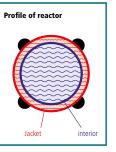


Setpoint
Temperature in reactor's interior
Temperature in reactor's jacket

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.



Тір

Use the free of charge EasyTEMP software to control the units with the PC and to show the temperature curves graphically.

