

JULABO PRESTO® A80

Heating a 20 liters reactor from -60 °C to -20 °C

Objective

This case study tests the heating power of JULABO PRESTO[®] A80 with a 20 liters glass reactor. The A80 is connected to the reactor via two 2.0 m metal tubings. The A80 is programmed to heat up from -60 °C to -20 °C.

JULABO PRESTO® A80

Test Conditions

JULABO unit Cooling power

Heating capacity Band limit Flow pressure Bath fluid Reactor Jacket volume

Control

+20 °C 1.2 kW 0 °C 1.2 kW -20 °C 1.1 kW 1.8 kW No 0.40 bar JULABO Thermal HL80 20 liters glass reactor (Asahi) filled with 18 liter JULABO Thermal HL40 7.0 l External (ICC)

Test Results

See chart on back page: The A80 heating process from -60 $^{\circ}\text{C}$ to -20 $^{\circ}\text{C}$ in 53 min without overshoot.



Environment

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



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

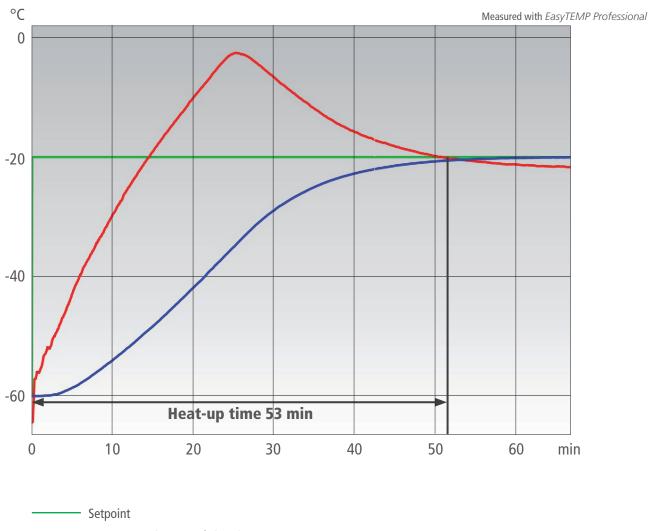
More tips on back page >>



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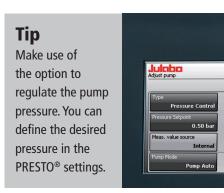
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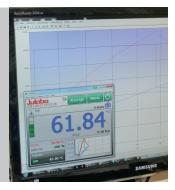
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- Temperature in reactor's interior
- Temperature in reactor's jacket



Tip

The Ethernet interface permits full access to all operational functions of the PRESTO[®].



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