

JULABO FP50-HL

Heating a 10 liters reactor from +20 °C to +120 °C

Objective

This case study tests the heating power of **JULABO FP50-HL** with a 10 liters glass reactor. The FP50-HL is connected to the reactor via two 2 m metal tubings. The FP50-HL is programmed to heat up from +20 °C to +120 °C.

JULABO FP50-HL

Test Conditions

JULABO unit Cooling power

Heating capacity Band limit Flow pressure Bath fluid Reactor Jacket volume

Control

+20 °C 0.9 kW 0 °C 0.8 kW -20 °C 0.5 kW 2 kW without 0.4 bar JULABO Thermal H10 10 liters glass reactor (Normag) filled with 10 liter JULABO Thermal H10 5.0 l External (ICC)

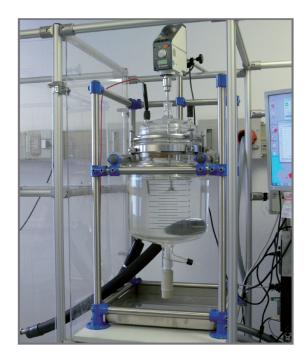
Test Results

See chart on back page: The FP50-HL heating process from +20 $^\circ\text{C}$ to +120 $^\circ\text{C}$ in 2 h 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.

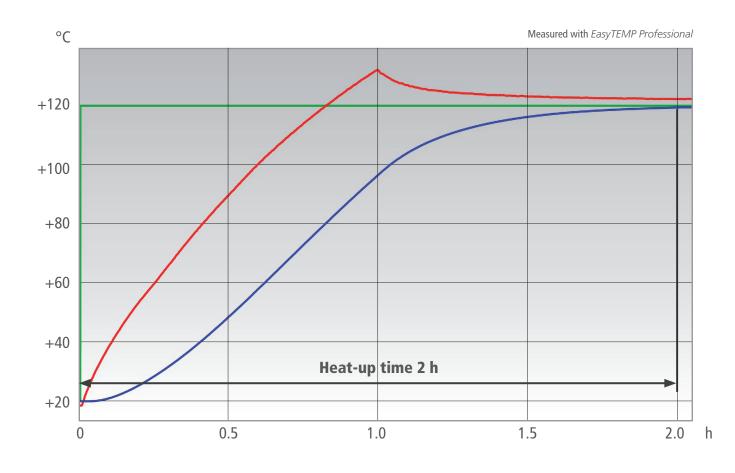


More tips on back page >>

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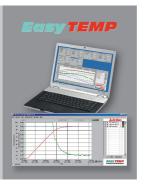
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Setpoint
Temperature in reactor's interior
Temperature in reactor's jacket

Tip

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



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