Juliubia Case Study

JULABO FP50-HL

Heating a 10 liters reactor from +20 °C to +80 °C



Objective

This case study tests the heating power of **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 +80 °C.

Test Conditions

JULABO unit JULABO FP50-HL Cooling power +20 °C 0.9 kW 0 °C 0.8 kW

-20 °C 0.5 kW

Heating capacity 2 kW
Band limit without
Flow pressure 0.4 bar

Bath fluid JULABO Thermal H10

Reactor 10 liters glass reactor (Normag)

filled with 10 liter JULABO Thermal H10

Jacket volume 5.0 l

Control External (ICC)

Environment

Room temperature 20 °C Humidity 45 %

Voltage 230 V / 50 Hz



Test Results

See chart on back page: The FP50-HL heating process from +20 °C to +80 °C in 90 min without overshoot.

Tip

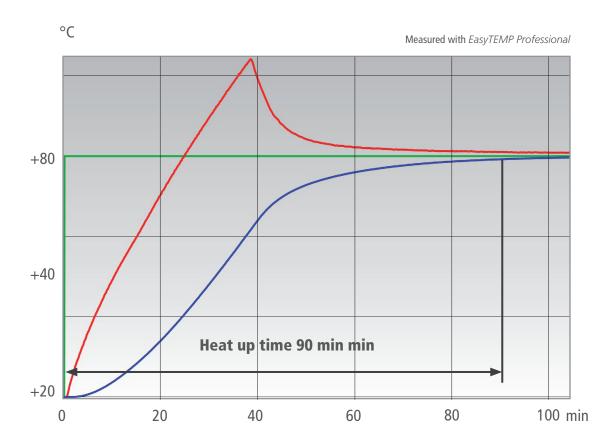
You can also use the robust Pt100 with PTFE coating.

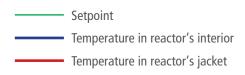
More tips on back page >>

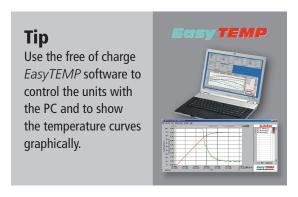


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