

# JULABO FP50-HL

Heating a 10 liters reactor from +80 °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 +80 °C to +120 °C.

JULABO FP50-HL +20 °C 0.9 kW

# **Test Conditions**

JULABO unit Cooling power

Heating capacity Band limit Flow pressure Bath fluid Reactor Jacket volume

Control

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)

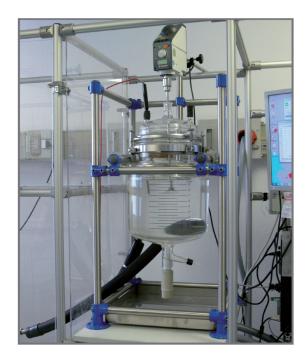
### **Test Results**

See chart on back page: The FP50-HL heating process from +80 °C to +120 °C in 90 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.

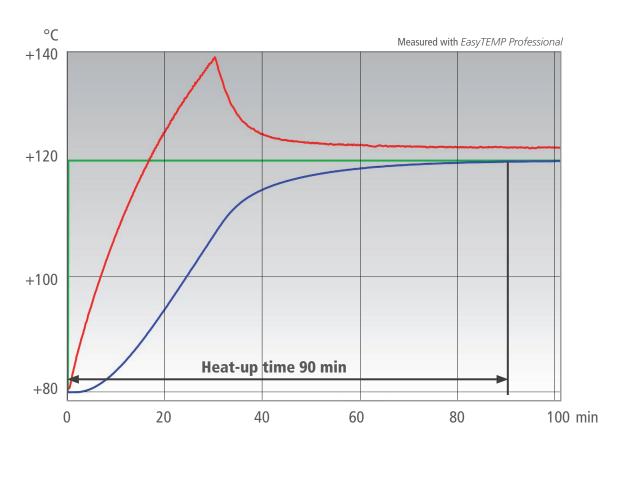


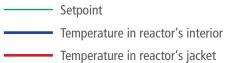
More tips on back page >>

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### 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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