

# JULABO FP50-HL

Cooling a 10 liters reactor from +20°C to -20 °C

## **Objective**

This case study tests the cooling power of **JULABO FP50-HL** with a 10 liters glass reactor. TheFP50-HL is connected to the reactor via two 2 m metal tubings. The FP50-HL is programmed to cool down from +20 °C to -20 °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 JULABOThermal H10 10 liters glass reactor (Normag) filled with 10 liter JULABO Thermal H10 5 l External (ICC)

## **Test Results**

See chart on back page: The FP50-HL cooling process from +20°C to -20 °C in 2 h 30 min without overshoot.



### Environment

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