

JULABO PRESTO® A40

Cooling a 20 liters reactor from +100 °C to 0 °C

Objective

This case study tests the cooling power of JULABO PRESTO® A40 with a 20 liters vacuum insulated glass reactor. The A40 is connected to the reactor via two 2.0 m metal tubings. The A40 is programmed to cool down from +100 °C to 0 °C.

JULABO PRESTO® A40

+20 °C 1.2 kW

Test Conditions

JULABO unit Cooling power

Heating capacity
Band limit
Flow pressure
Bath fluid
Reactor
Jacket volume

Control

0 °C 0.9 kW -20 °C 0.6 kW 2.7 kW No 0.40 bar JULABO Thermal HL40 Triple walled 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 A40 cooling process from +100 °C to 0 °C in 1 h 45 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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- Setpoint

Temperature in reactor's interior

Temperature in reactor's jacket

Тір

Make use of the option to regulate the pump pressure. You can define the desired pressure in the PRESTO® settings.



Tip

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



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