

# **JULABO Presto A30**

Cooling and heating a 2 liters reactor between +20 °C and +100 °C

## **Objective**

This case study tests the heating and cooling power of JULABO Presto A30 with a 2 litre glass reactor. The A30 is connected to the reactor with two 1.0 m metal tubings. The A30 is programmed to cycle between +20 °C and +100 °C.

JULABO Presto A30

# **Test Conditions**

JULABO unit Cooling power

Heating capacity
Band limit
Flow pressure
Bath fluid
Reactor

Control

#### +20 °C 0.5 kW 0 °C 0.4 kW -20 °C 0.2 kW 2.7 kW no 0.35 bar JULABO Thermal HL45 2 liters glass reactor (Schott Duran) filled with 1.8 liters Thermal HL45 External (ICC)



## Environment

Room temperature	20 °C
Humidity	45 %
Voltage	230 V / 50 Hz



## **Test Results**

See chart on back page: The A30 heating process from +20 °C to +100 °C in 27 min. Hitting exactly +100 °C without overshoot. The cooling process from +100 °C to +20 °C in 32 min. Hitting exactly +20 °C without overshoot.

#### Tip

You can also use the robust Pt100 with Teflon coating.



More tips on back page >>

JULABO GmbH Eisenbahnstraße 45 77960 Seelbach / Germany Tel. +49 (0) 7823 51-0



#### www.julabo.de



Tip

Elbow fittings 90° help relieving the connectors of the glass reactor.



JULABO GmbH Eisenbahnstraße 45 77960 Seelbach / Germany Tel. +49 (0) 7823 51-0



www.julabo.de