Juliaho Case Study

JULABO PRESTO® A80

Cooling a 20 liters reactor from 0 °C to -30 °C



Objective

This case study tests the cooling power of JULABO PRESTO® A80 with a 20 liters glass reactor. The A80 is connected to the reactor via two 2.0 m metal tubings. The A80 is programmed to cool down from 0 $^{\circ}$ C to -30 $^{\circ}$ C.

Test Conditions

JULABO unit JULABO PRESTO® A80

Cooling power +20 °C 1.2 kW

0 °C 1.2 kW

-20 °C 1.1 kW

Heating capacity 1.8 kW
Band limit No
Flow pressure 0.40 bar

Bath fluid JULABO Thermal HL80

20 liters glass reactor (Asahi)

filled with 18 liter JULABO Thermal HL40

Jacket volume 7.0 l

Control External (ICC)

Environment

Room temperature +20 °C Humidity 45 %

Voltage 230 V / 50 Hz



Test Results

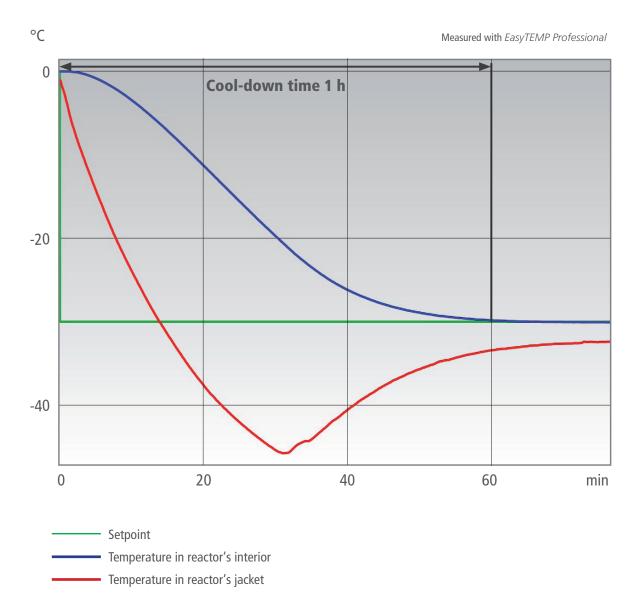
Reactor

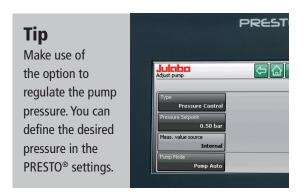
See chart on back page: The A80 cooling process from 0 °C to -30 °C in 1 h without overshoot.



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









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