Juliaho Case Study

JULABO PRESTO® A40

Heating a 20 liters reactor from +100 °C to +170 °C



Objective

This case study tests the heating 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 heat up from +100 °C to +170 °C.

Test Conditions

JULABO unit JULABO PRESTO® A40

Cooling power +20 °C 1.2 kW

0 °C 0.9 kW

Heating capacity 2.7 kW
Band limit No
Flow pressure 0.40 bar

Bath fluid JULABO Thermal HL40

Reactor Triple walled 20 liters glass reactor (Asahi)

filled with 18 liter JULABO Thermal HL40

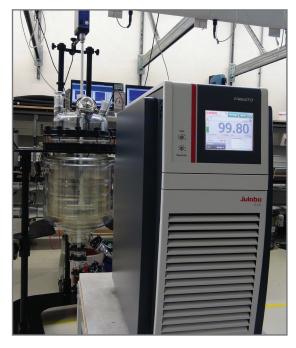
Jacket volume 7.0 l

Control External (ICC)

Environment

Room temperature +20 °C Humidity 45 %

Voltage 230 V / 50 Hz



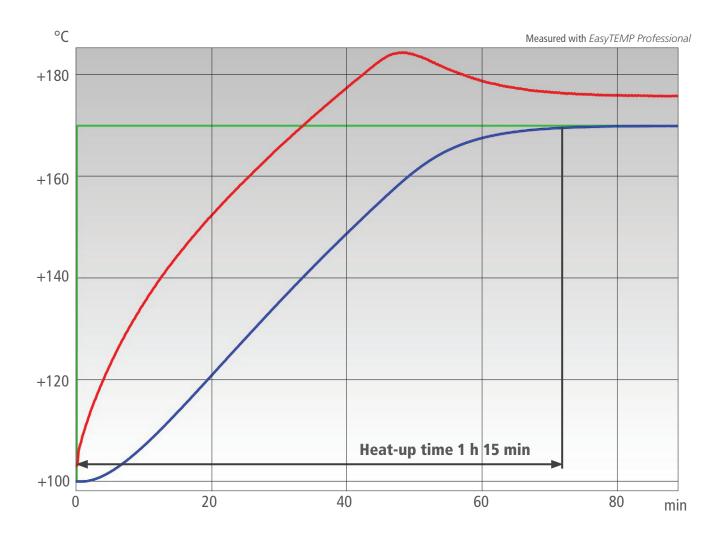
Test Results

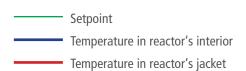
See chart on back page: The A40 heating process from +100 °C to +170 °C in 1 h 15 min without overshoot.

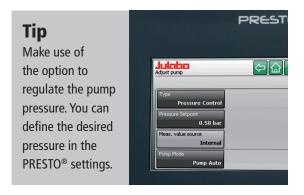


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