Julabo Case Study

# JULABO PRESTO® A40

## Heating a 5 liters reactor from +100 °C to +200 °C

## Objective

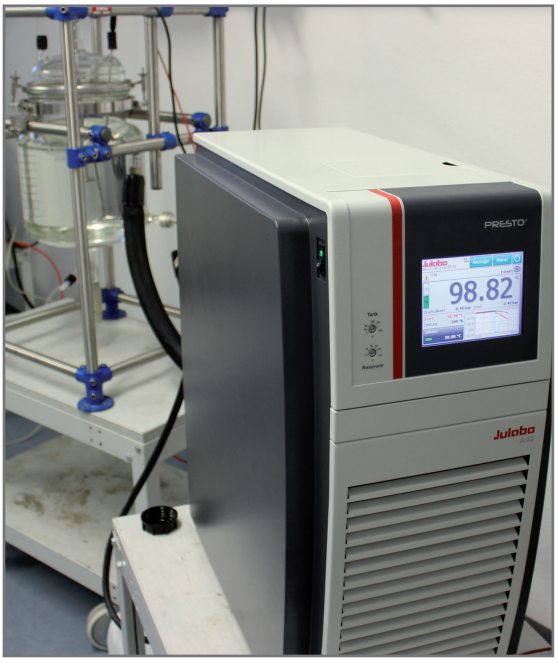
This case study tests the heating power of JULABO PRESTO® A40 with a 5 liters glass reactor. The A40 is connected to the reactor via two 2.0 m metal tubings. The A40 is programmed to heat up from +100 °C to +200 °C.

## Environment

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

## Test Conditions

| | |
|---|---|
| JULABO unit | JULABO PRESTO® A40 |
| Cooling power | +20 °C 1.2 kW |
| | 0 °C 0.9 kW |
| | -20 °C 0.6 kW |
| Heating capacity | 2.7 kW |
| Band limit | No |
| Flow pressure | 0.40 bar |
| Bath fluid | JULABO Thermal HL40 |
| Reactor | 5 liters glass reactor (Rettberg) |
| | filled with 5 liter JULABO Thermal HL40 |
| Control | External (ICC) |



## Test Results

See chart on back page: The A40 heating process from +100 °C to +200 °C in 45 min without overshoot.

## Tip

You can also use the robust Pt100 with PTFE coating.

More tips on back page >>

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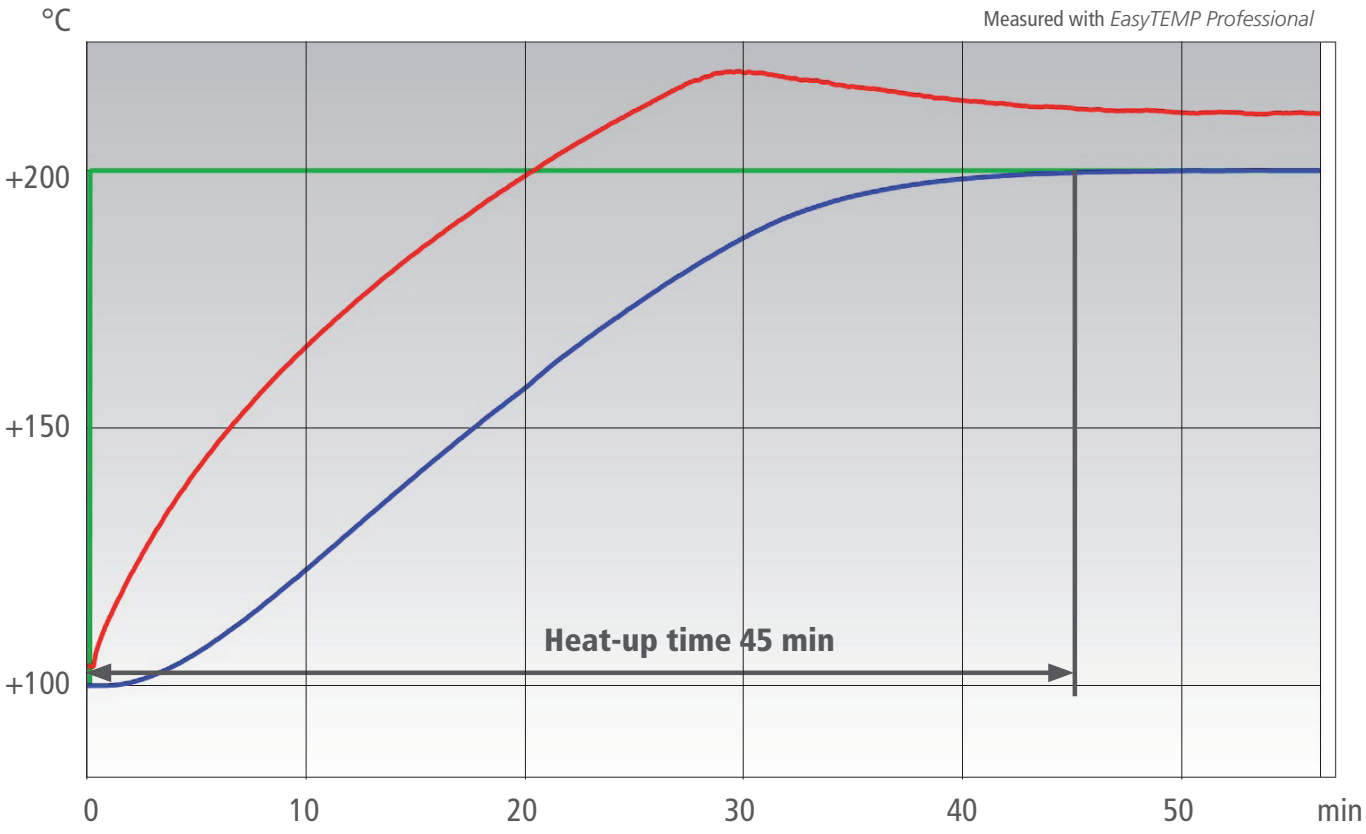
Julabo
THE TEMPERATURE CONTROL COMPANY

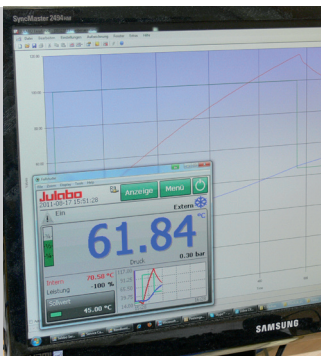



**Tip**

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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