

Julabo Case Study

JULABO PRESTO® A40

Heating a 10 liters reactor
from -25 °C to 0 °C



Objective

This case study tests the heating power of JULABO PRESTO® A40 with a 10 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 -25 °C to 0 °C.

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 | 10 liters glass reactor (Normag) filled with 10 liter JULABO Thermal HL40 |
| 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 -25 °C to 0 °C in 30 min without overshoot.

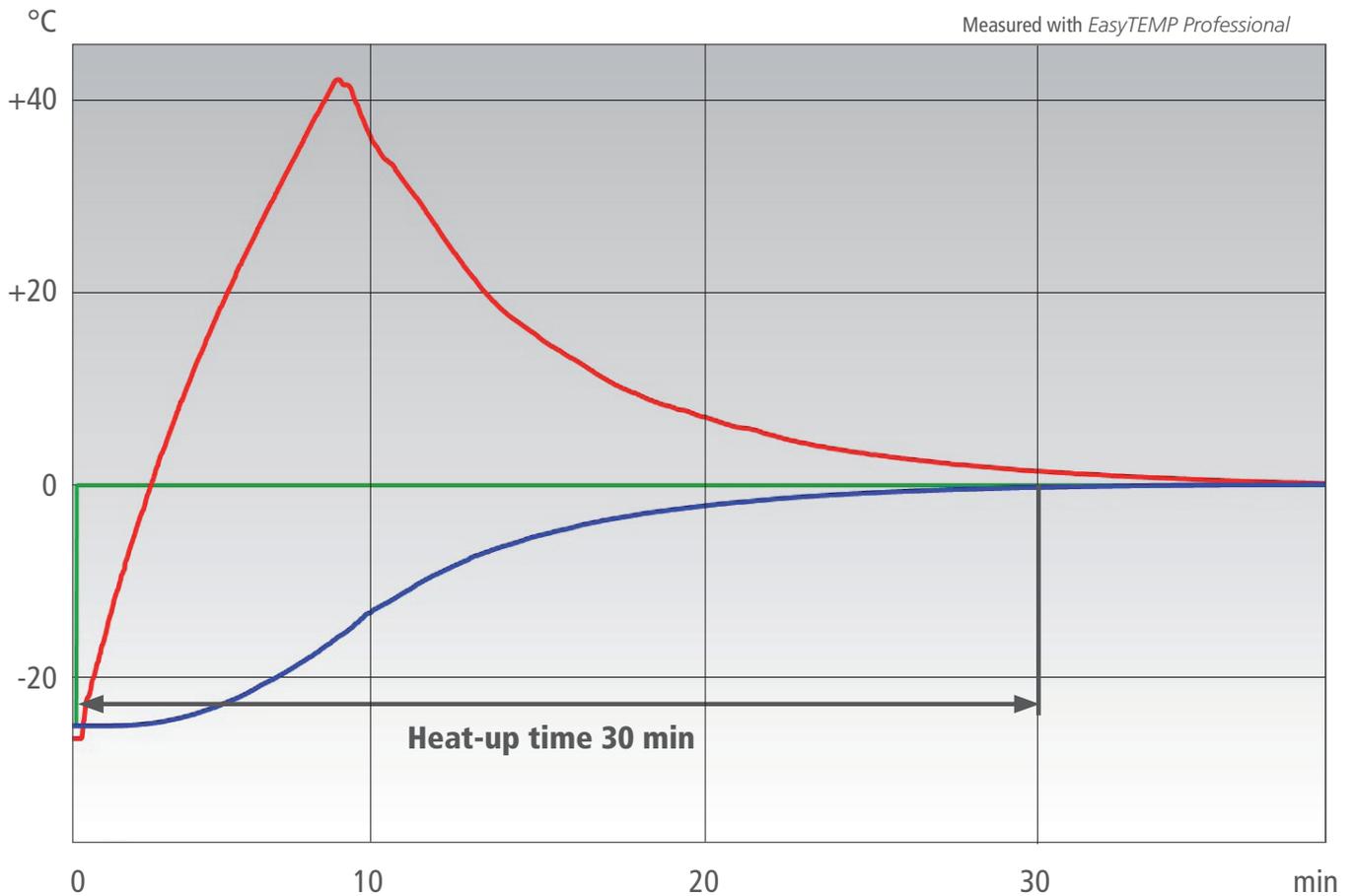
Tip

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

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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