

PRESTO® A40

Heating a 6 liters reactor from -20 °C to +20 °C

Objective

This case study tests the heating power of PRESTO® A40 with a 6 liters glass reactor. The PRESTO® A40 is connected to the reactor via two 2 m metal tubings. The PRESTO® A40 is programmed to heat up from -20 °C to +20 °C.

Environment

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

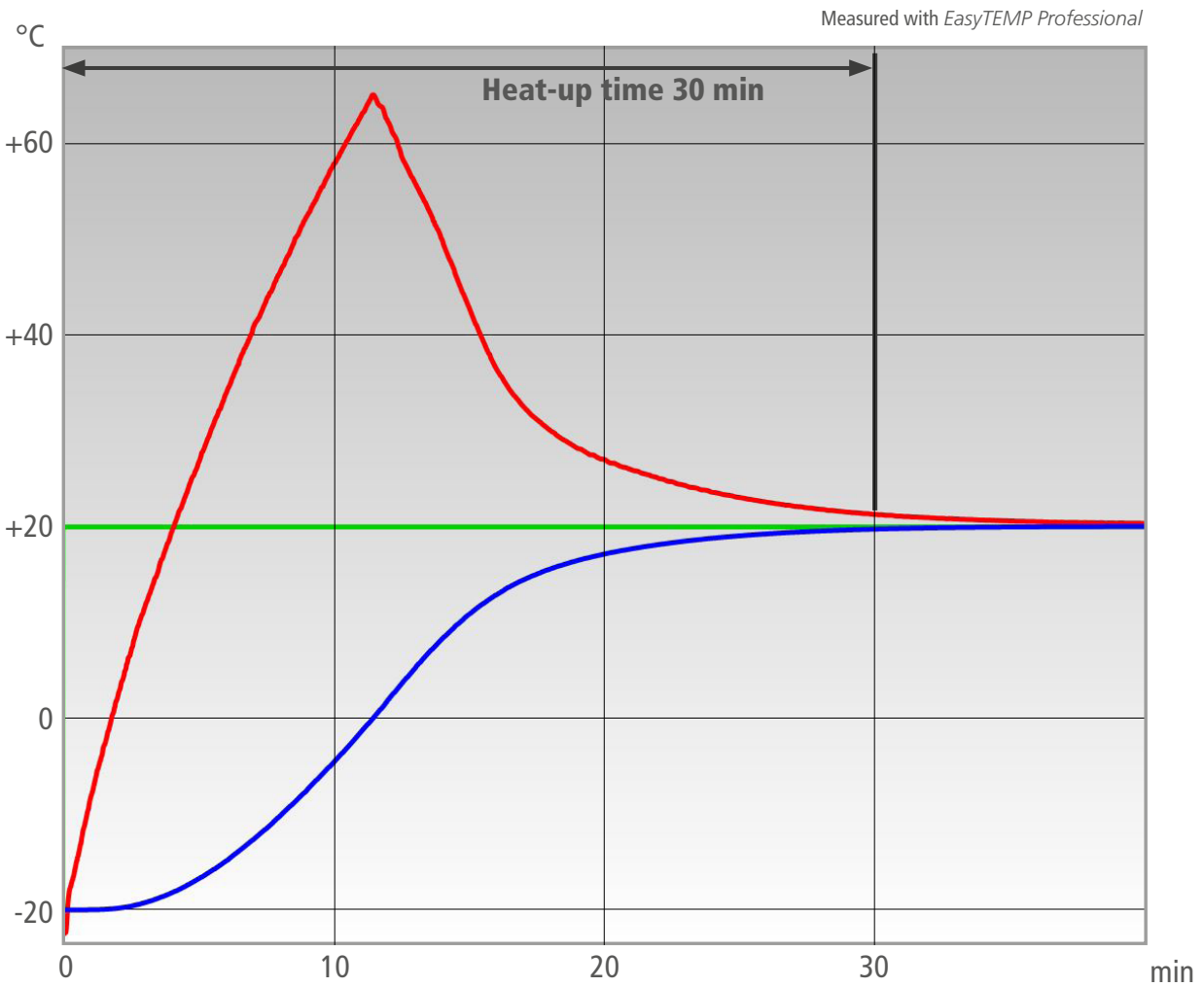
Test Conditions

JULABO unit	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	without
Flow pressure	0.5 bar
Bath fluid	Thermal HL60
Reactor	6 liters glass reactor (QVF) filled with 5 l Thermal HL60
Jacket volume	4.5 l
Control	External (ICC)



Test Results

The PRESTO® A40 heating process from -20 °C to +20°C in 30 min without overshoot.



- Setpoint
- Temperature in reactor's interior
- Temperature in reactor's jacket

Tip

Use our tube adapters and your tubing will no longer kink.



Tip

You can also use the robust Pt100 with PTFE coating.

