

PRESTO® A40

Heating a 6 liters reactor from +20 °C to +150 °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 +150 °C.

Environment

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

Test Conditions

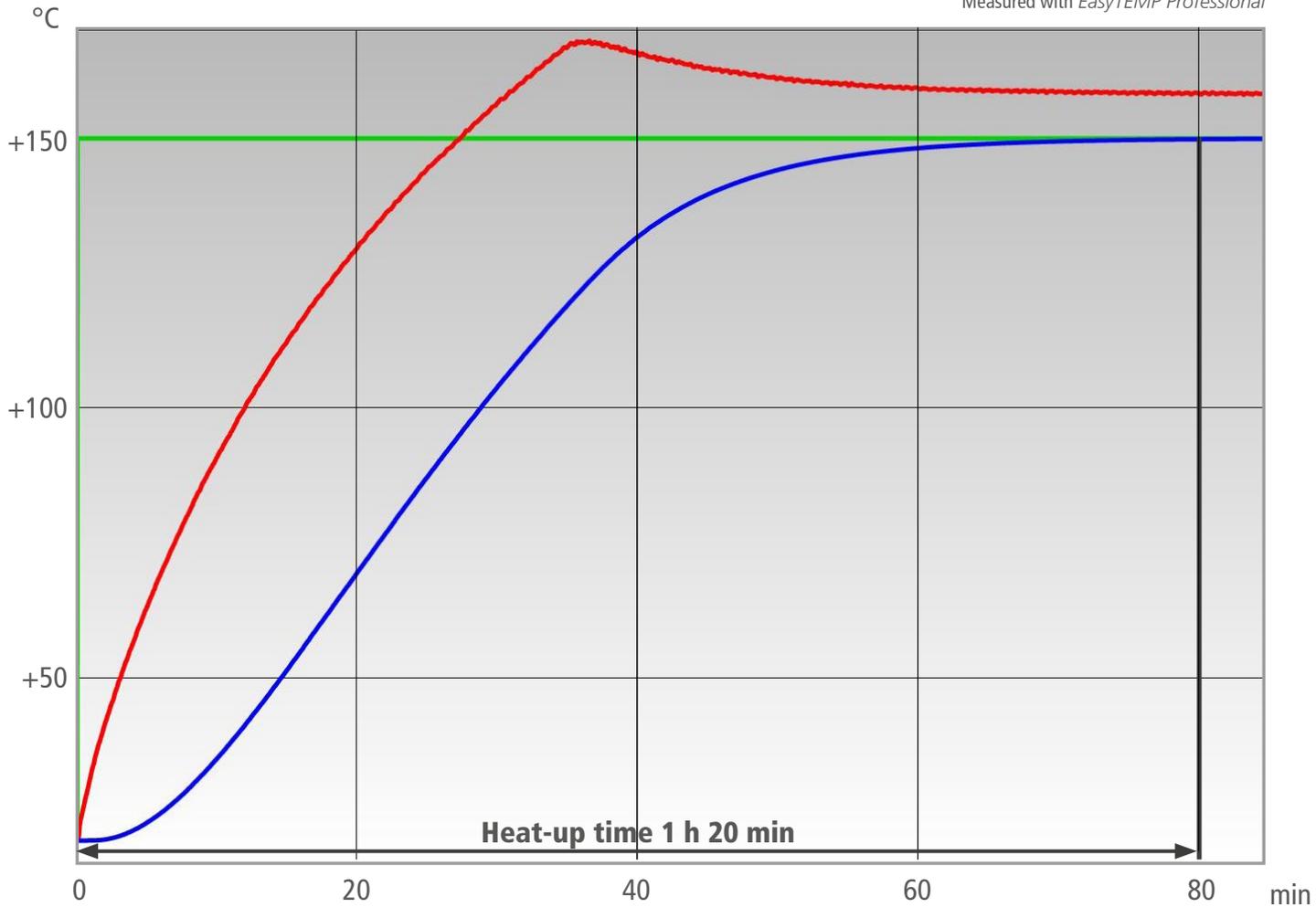
JULABO unit	PRESTO® A40
Cooling power	+20 °C 1.2 kW 0 °C 0.9 kW -20 °C 0.6 kW
Heating capacity	2.7 kW
Band limit	without
Flow pressure	0.5 bar
Bath fluid	Thermal HL60
Reactor	6 liters glass reactor (QVF) filled with 5 l Thermal HL60
Jacket volume	4.5 l
Control	External (ICC)



Test Results

The PRESTO® A40 heating process from +20 °C to +150°C in 1 h 20 min without overshoot.

Measured with *EasyTEMP Professional*



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

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



Tip
Use the free of charge *EasyTEMP* software to control the units with the PC and to show the temperature curves graphically.

