

## PRESTO® A40

### Heating a 6 liters reactor from +20 °C to +100 °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 +100 °C.

#### Environment

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

#### Test Conditions

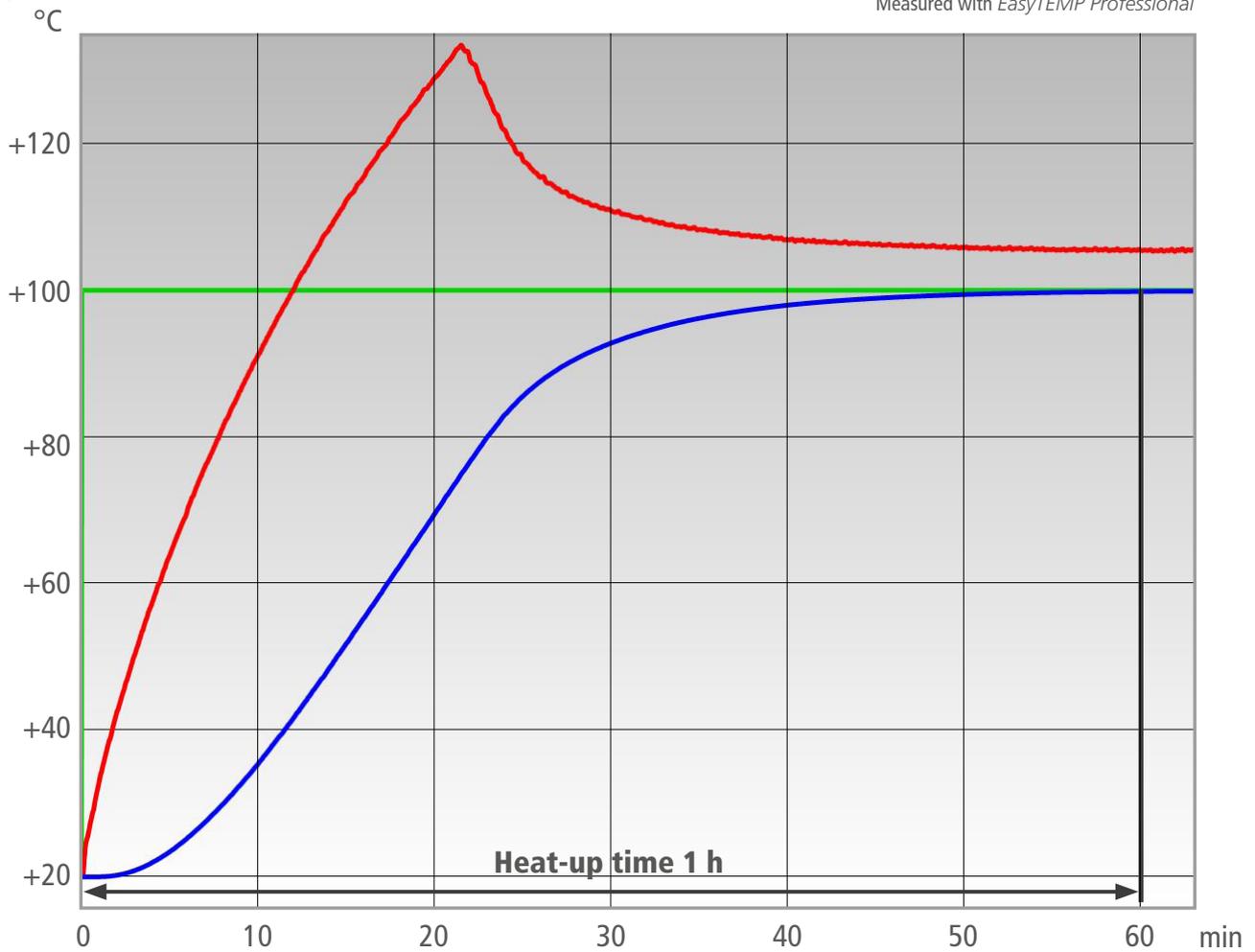
JULABO unit	PRESTO® A40
Cooling power	+20 °C 1.2 kW 0 °C 0.9 kW -20 °C 0.6 kW
Heating capacity	2.7 kW
Band limit	without
Flow pressure	0.5 bar
Bath fluid	Thermal HL60
Reactor	6 liters glass reactor (QVF) filled with 5 l Thermal HL60
Jacket volume	4.5 l
Control	External (ICC)



## Test Results

The PRESTO® A40 heating process from +20 °C to +100°C in 1 h without overshoot.

Measured with *EasyTEMP Professional*



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

**Tip**  
Protect your reactor. The function "band limit" (see above) permits setting the max. temperature difference between jacket and internal vessel.

**Profile of reactor**

**Tip**

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