

## PRESTO® A30

# Heating a 6 liters reactor from +20 °C to +200 °C

### Objective

This case study tests the heating power of PRESTO® A30 with a 6 liters glass reactor. The PRESTO® A30 is connected to the reactor via two 2 m metal tubings. The PRESTO® A30 is programmed to heat up from +20 °C to +200 °C.

### Environment

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

### Test Conditions

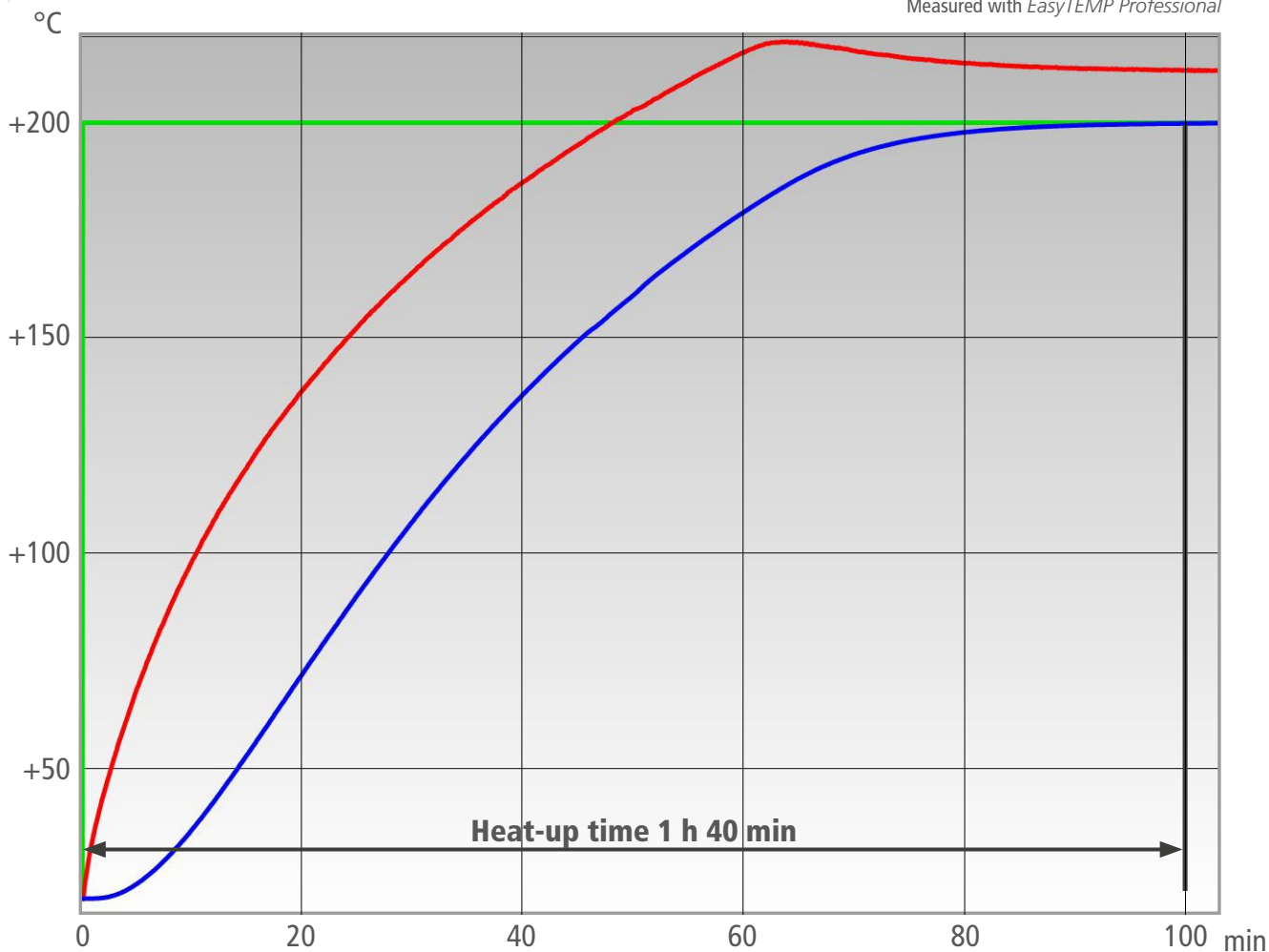
JULABO unit	PRESTO® A30
Cooling power	+20 °C 0.5 kW 0 °C 0.4 kW -20 °C 0.2 kW
Heating capacity	2.7 kW
Band limit	without
Flow pressure	0.5 bar
Bath fluid	Thermal HL60
Reactor	6 liters glass reactor (QVF) filled with 5 l Thermal HL60
Jacket volume	4.5 l
Control	External (ICC)



### Test Results

The PRESTO® A30 heating process from +20 °C to +200°C in 1 h 40 min without overshoot.

Measured with *EasyTEMP Professional*



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

**Tip**

You can also use the robust Pt100 with PTFE coating.



**Tip**

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

**EasyTEMP**

