

## PRESTO® A30

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

### Environment

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

### Test Conditions

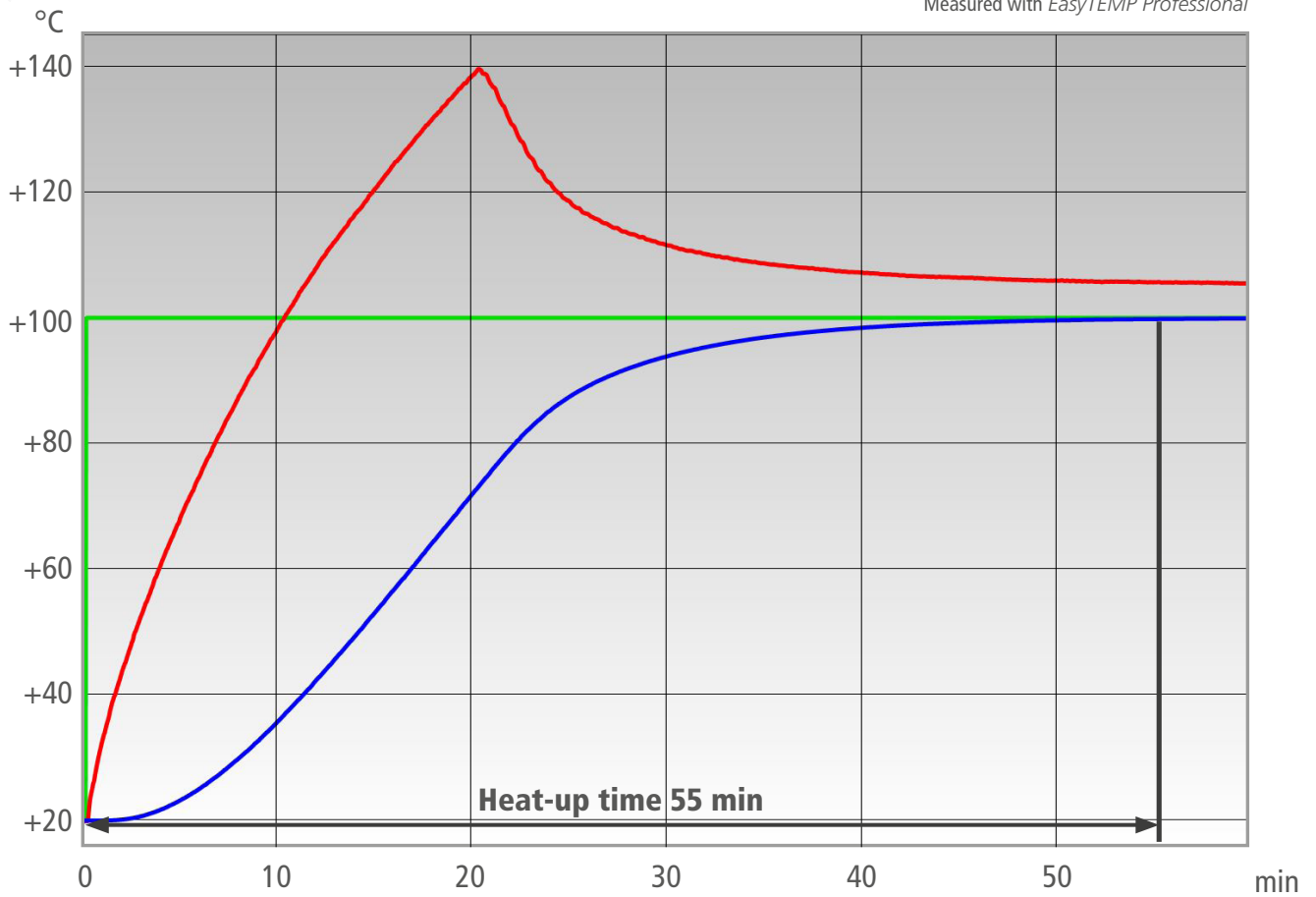
|                  |  |
|------------------|--|
| JULABO unit      | PRESTO® A30  |
| Cooling power    | +20 °C 0.5 kW<br>0 °C 0.4 kW<br>-20 °C 0.2 kW                |
| Heating capacity | 2.7 kW   |
| Band limit       | without  |
| Flow pressure    | 0.5 bar  |
| Bath fluid       | Thermal HL60   |
| Reactor          | 6 liters glass reactor (QVF)<br>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 +100°C in 55 min without overshoot.

Measured with *EasyTEMP Professional*



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

### Tip

Take advantage of our wide range of accessories. The M+R adapter enables you to display and record an additional temperature.



### Tip

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

**EasyTEMP**

