

## PRESTO® A80t

### Heating a 20 liters reactor from -40 °C to +20 °C

#### Objective

This case study tests the heating power of PRESTO® A80t with a 20 liters glass reactor. The PRESTO® A80t is connected to the reactor via two 1 m metal tubings. The PRESTO® A80t is programmed to heat up from -40 °C to +20 °C.



#### Environment

Room temperature +20 °C  
 Humidity 45%  
 Voltage 208 V / 60 Hz

#### Test Conditions

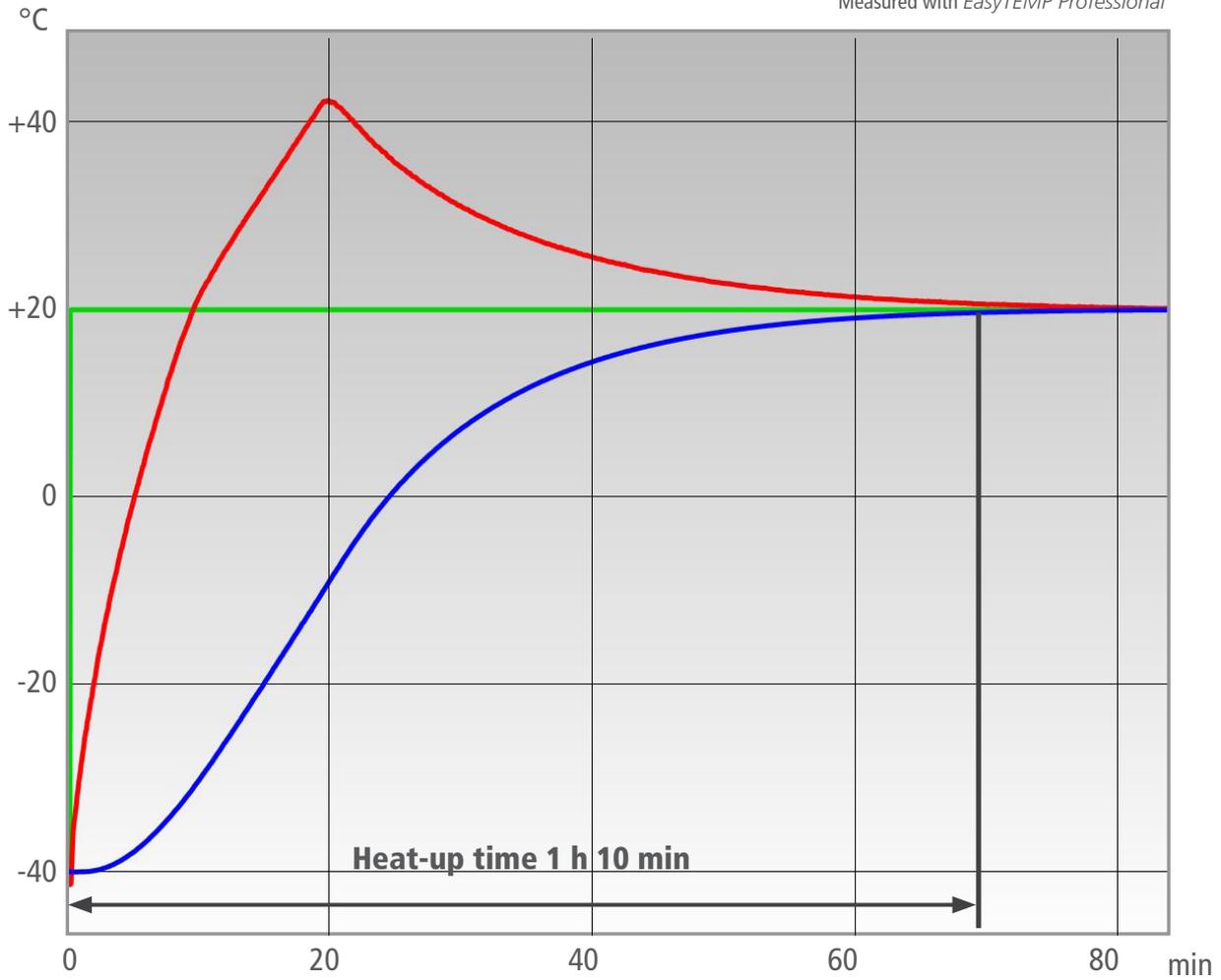
JULABO unit	PRESTO® A80t
Cooling power	+20 °C 1.2 kW 0 °C 1.2 kW -20 °C 1.1 kW
Heating capacity	3.4 kW
Band limit	with
Flow pressure	0.5 bar
Bath fluid	Thermal HL 80
Reactor	20 liters glass reactor (Chemglass) filled with 19 l Ethanol
Jacket volume	8 l
Control	External (ICC)



## Test Results

The PRESTO® A80t heating process from -40 °C to +20°C in 1 h 10 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

You can also use the robust Pt100 with PTFE coating.

