

## PRESTO® W80

### Heating a 5 liters reactor from +20 °C to +100 °C

#### Objective

This case study tests the heating power of PRESTO® W80 with a 5 l glass reactor. The PRESTO® W80 is connected to the reactor via two 1 m metal tubings. The PRESTO® W80 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

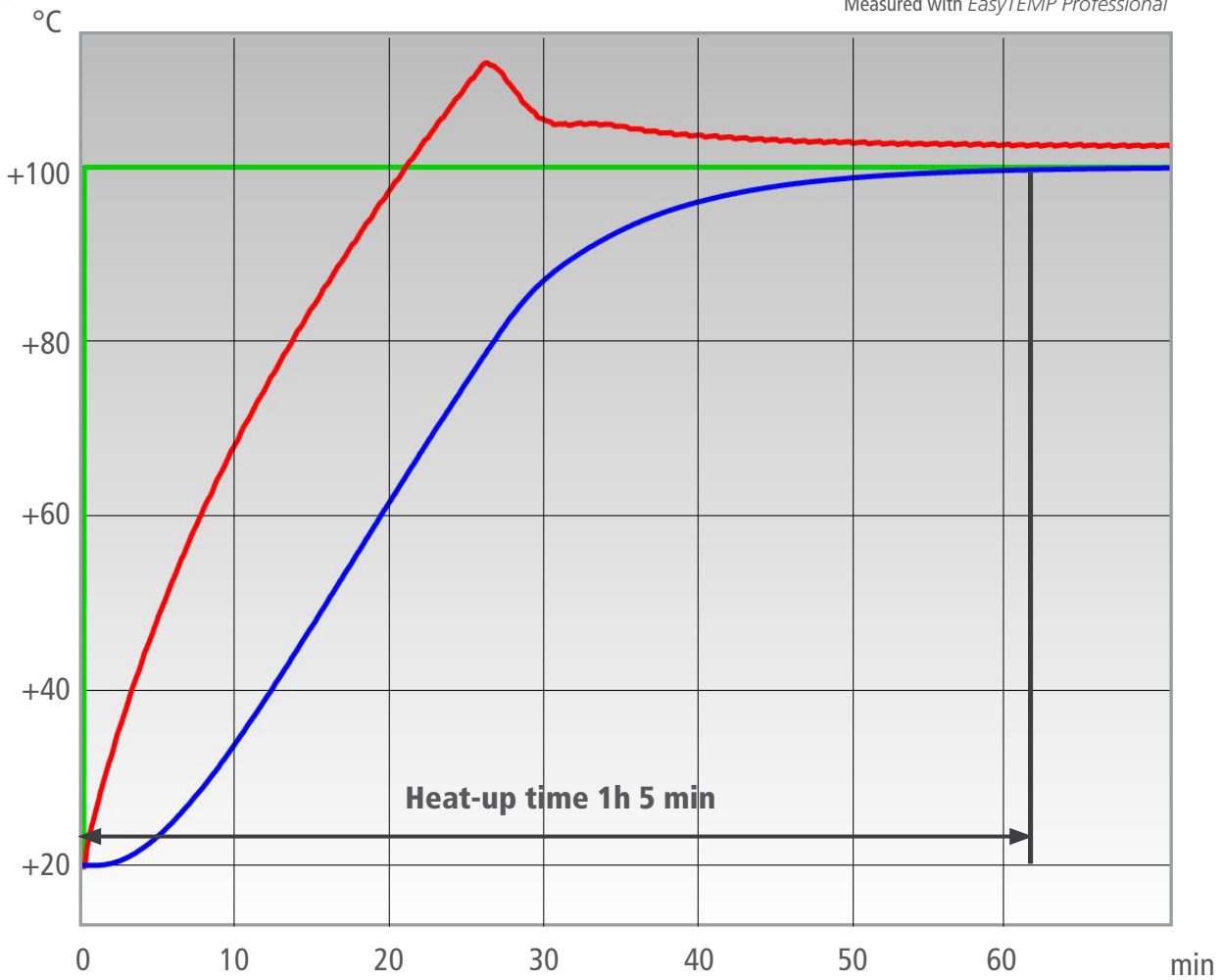
JULABO unit	PRESTO® W80
Cooling power	+20 °C 1.2 kW 0 °C 1.2 kW -20 °C 1.1 kW
Heating capacity	1.8 kW
Band limit	without
Flow pressure	0.4 bar
Bath fluid	Thermal HL 80
Reactor	5 l glass reactor (Rettberg) filled with 5 l Thermal HL 80
Jacket volume	2.5 l
Control	External (ICC)



### Test Results


The PRESTO® W80 heating process from +20 °C to +100°C in 1h 5 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**  
You can also use the robust Pt100 with PTFE coating.

