

PRESTO® W80

Heating a 5 liters reactor from -30 °C to +20 °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 -30 °C to +20 °C.

Environment

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

Test Conditions

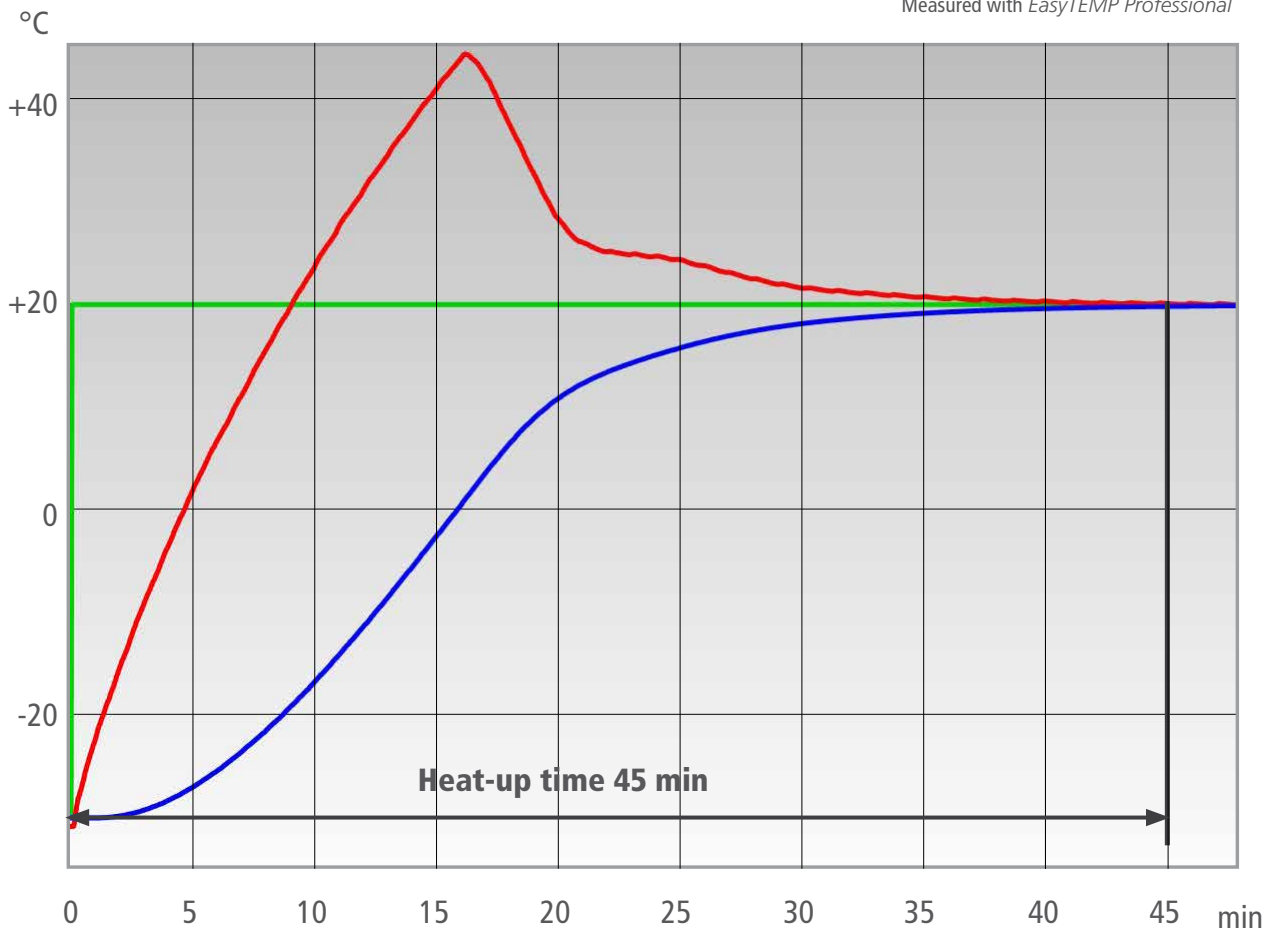
JULABO unit	PRESTO® W80
Cooling power	+20 °C 1.2 kW 0 °C 1.2 kW -20 °C 1.1 kW
Heating capacity	1.8 kW
Band limit	without
Flow pressure	0.4 bar
Bath fluid	Thermal HL 80
Reactor	5 l glass reactor (Rettberg) filled with 5 l Thermal HL 80
Jacket volume	2.5 l
Control	External (ICC)



Test Results

The PRESTO® W80 heating process from -30 °C to +20°C in 45 min without overshoot.

Measured with *EasyTEMP Professional*

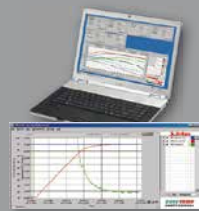


- Setpoint
- Temperature in reactor's interior
- Temperature in reactor's jacket

Tip

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

EasyTEMP



Tip

You can also use the robust Pt100 with PTFE coating.

