PRESTO™ A80t

Heating a 20 liters reactor from +20 °C to +50 °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 +20 °C to +50 °C.

Environment

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

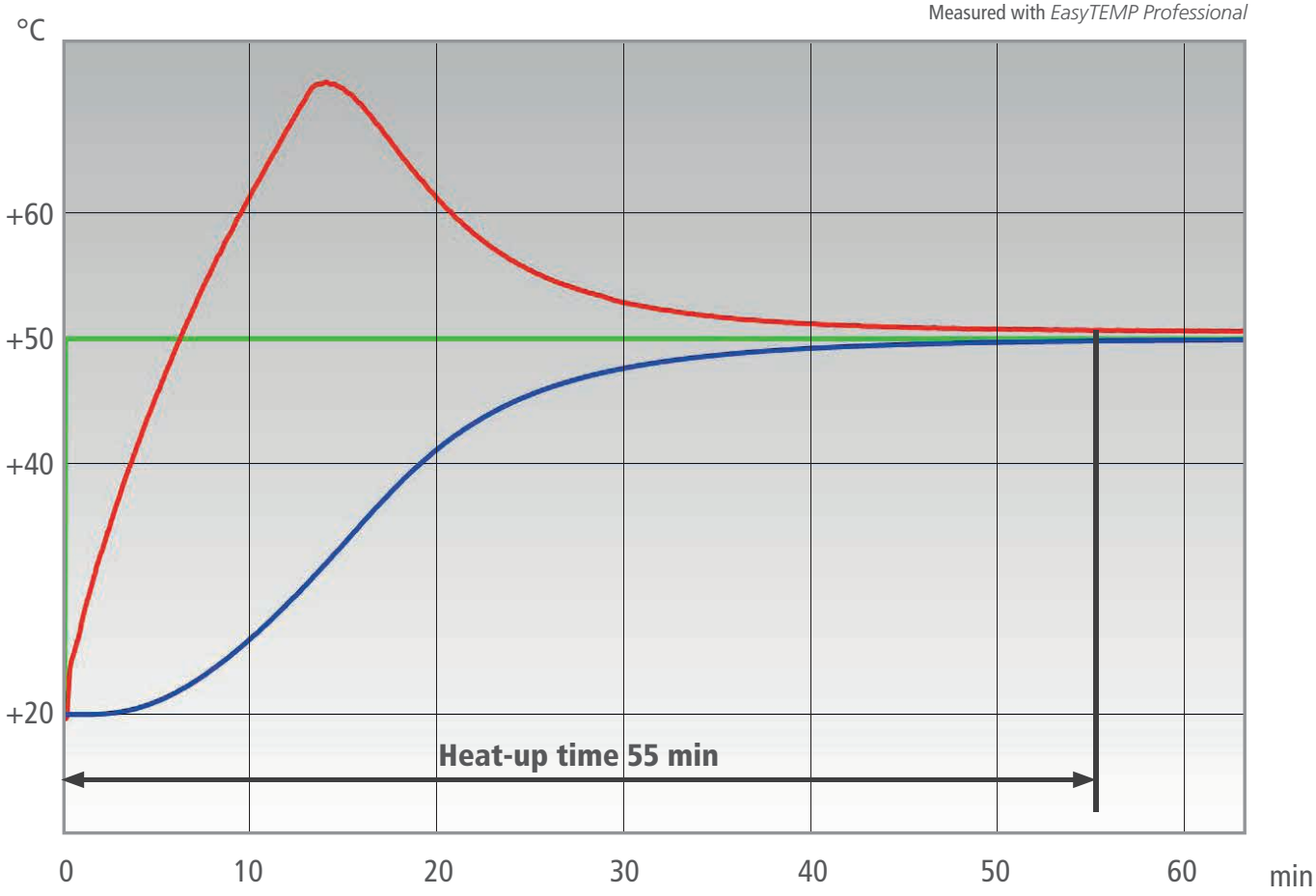
Test Conditions

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 HL80
Reactor	20 liters glass reactor (Asahi) filled with 19 l Thermal HL80
Jacket volume	7 l
Control	External (ICC)

Test Results

The PRESTO™ A80t heating process from +20 °C to +50°C in 55 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 our tube adapters and your tubing will no longer kink.