PRESTO™ A80t

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

Environment

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

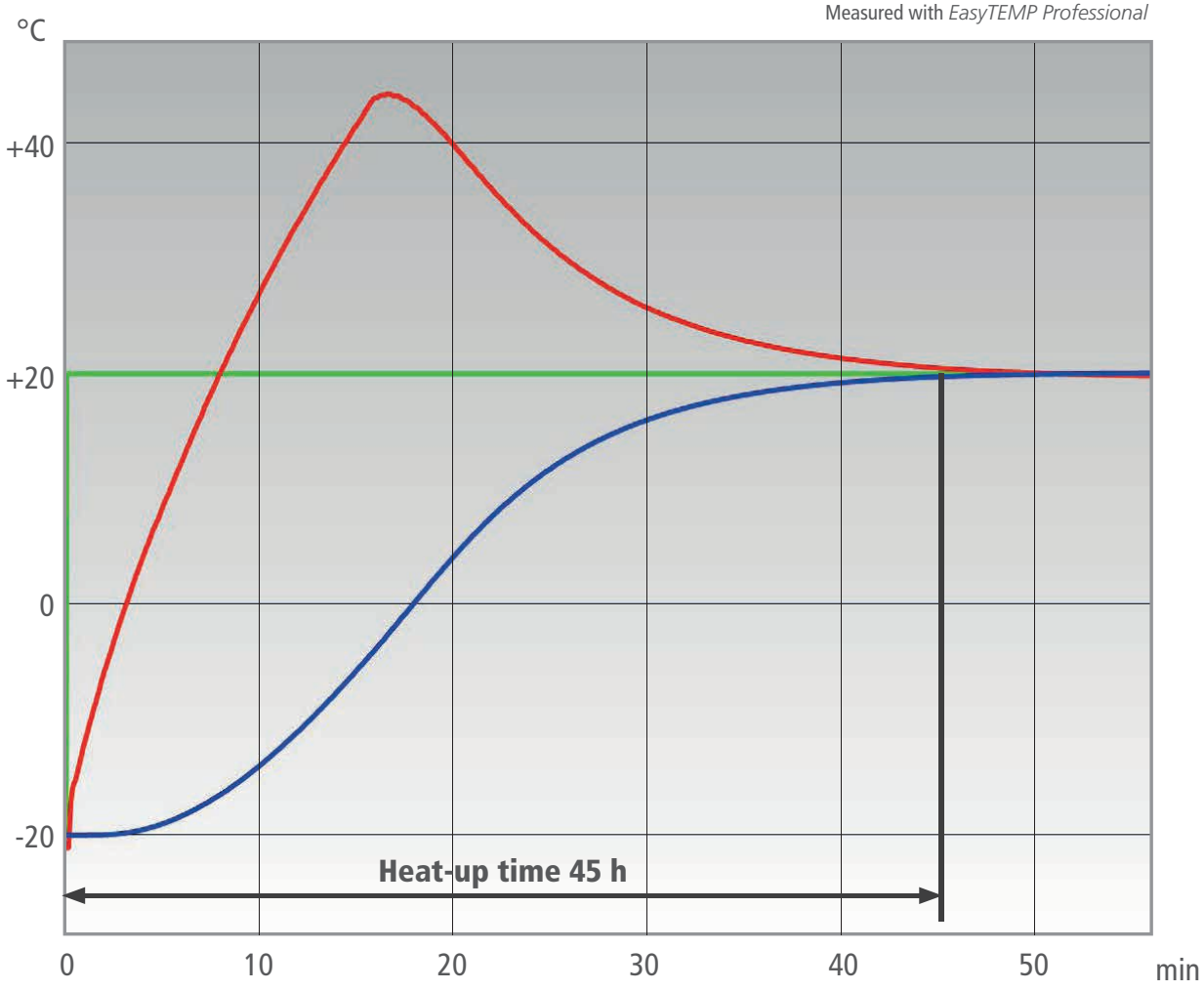
Test Conditions

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 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 +20°C in 45 h 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.