PRESTO® W92tt

Heating a 100 liters reactor from 0 °C to +20 °C

Objective

This case study tests the heating power of PRESTO® W92tt with a 100 liters glass reactor. The PRESTO® W92tt is connected to the reactor via two 3 m metal tubings. The PRESTO® W92tt is programmed to heat up from 0 °C to +20 °C.

Environment

Room temperature	+20 °C
Humidity	45%
Voltage	400 V / 50 Hz

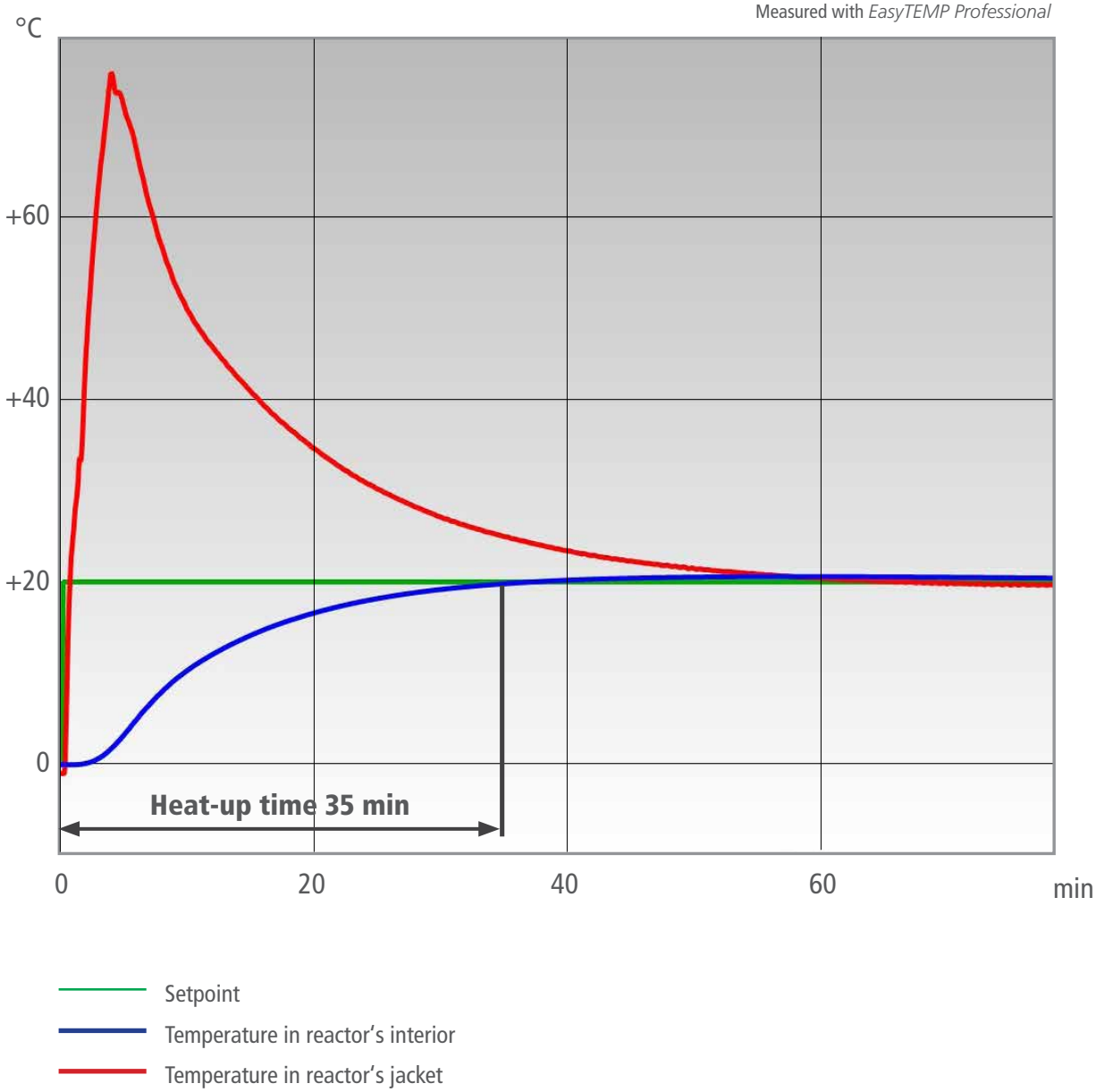
Test Conditions

JULABO unit	PRESTO® W92tt
Cooling power	+20 °C 19 kW
	0 °C 15.5 kW
	-20 °C 9.5 kW
Heating capacity	36 kW
Band limit	with
Flow pressure	0.5 bar
Bath fluid	Thermal HL80
Reactor	100 liters glass reactor (Büchiglas) filled with 70 l Ethanol
Jacket volume	30 l
Control	External (ICC)

Test Results

The PRESTO® W92tt heating process from 0 °C to +20°C in 35 min without overshoot.

Measured with *EasyTEMP Professional*



Tip

You can also use the robust Pt100 with PTFE coating.

Tip

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