PRESTO® W92tt

Heating a 100 liters reactor from -20 °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 -20 °C to +20 °C.

Environment

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

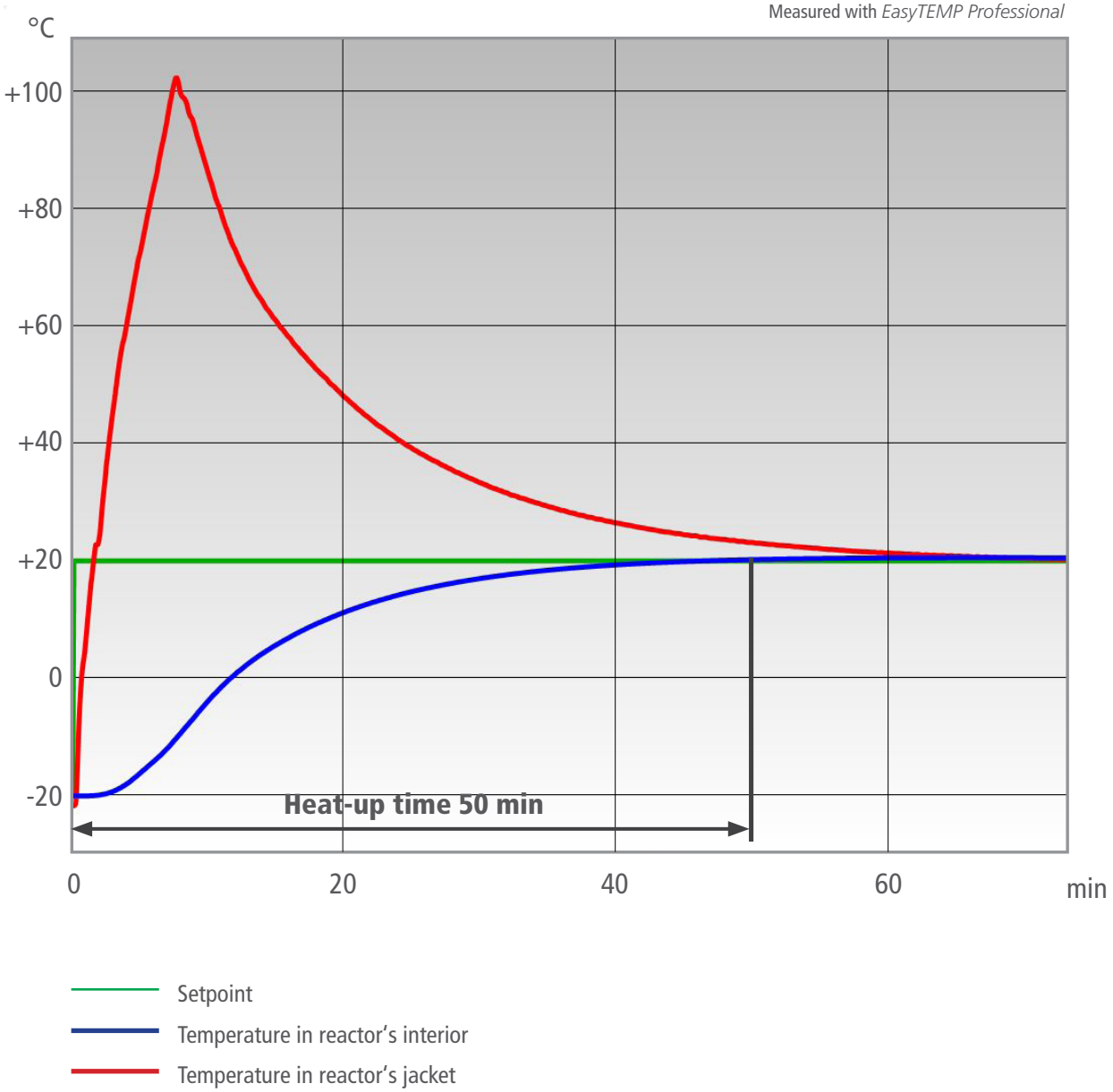
Test Conditions

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

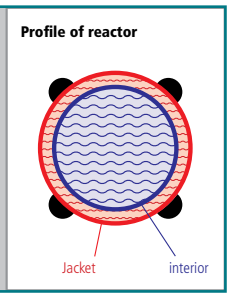
The PRESTO® W92tt heating process from -20 °C to +20°C in 50 min without overshoot.

Measured with *EasyTEMP Professional*



Tip

Protect your reactor. The function „band limit" (see above) permits setting the max. temperature difference between jacket and internal vessel.



Tip

Take advantage of our wide range of accessories. The M+R adapter enables you to display and record an additional temperature.