PRESTO® A40

Heating a 6 liters reactor from 0 °C to +20 °C

Objective

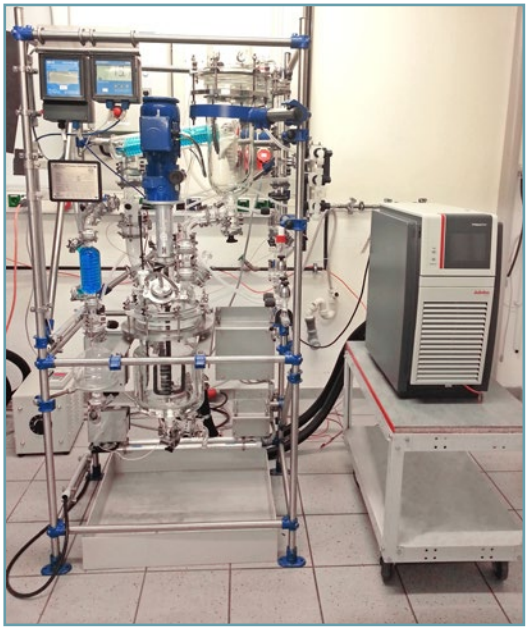
This case study tests the heating power of PRESTO® A40 with a 6 liters glass reactor. The PRESTO® A40 is connected to the reactor via two 2 m metal tubings. The PRESTO® A40 is programmed to heat up from 0 °C to +20 °C.

Environment

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

Test Conditions

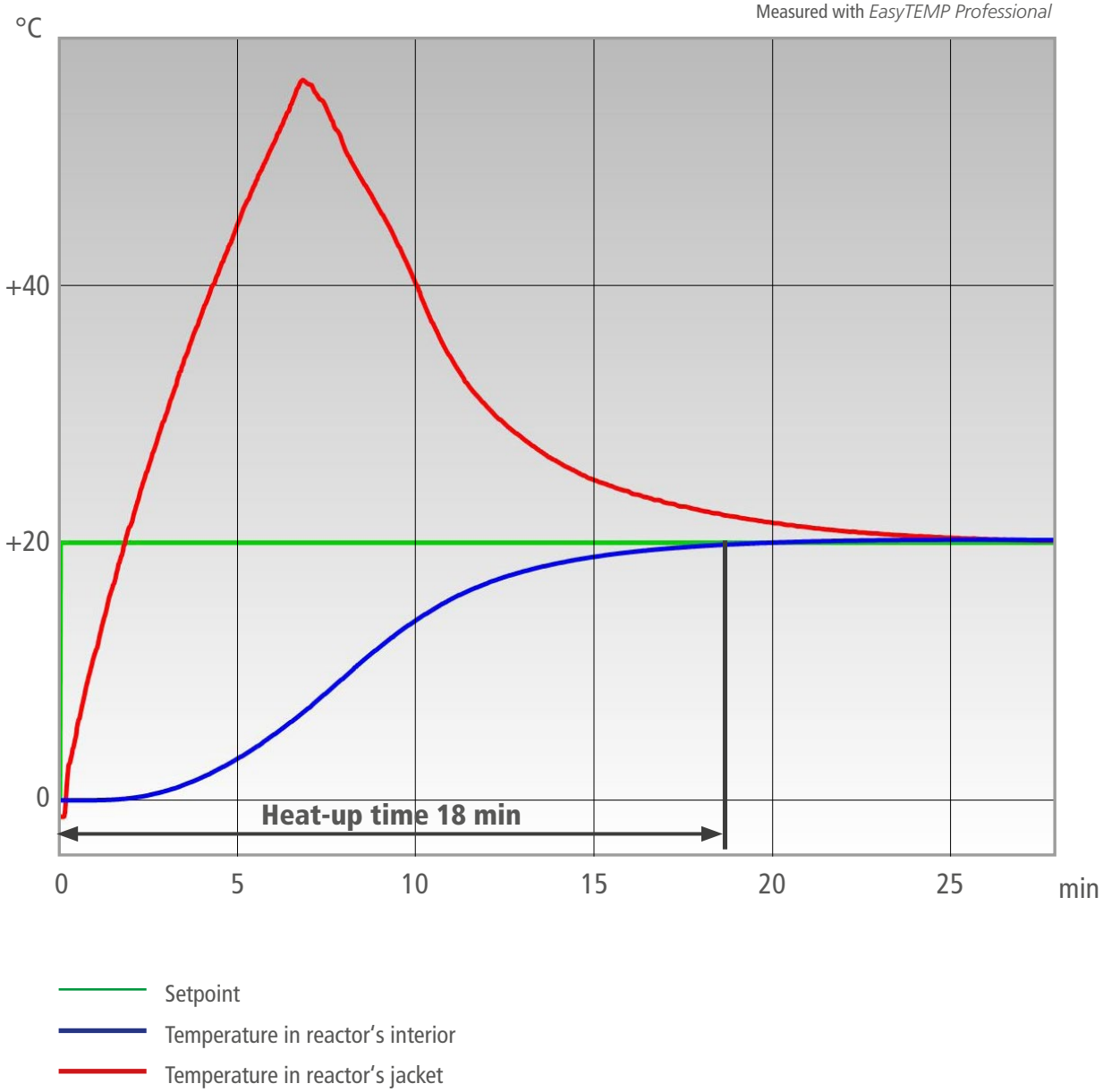
JULABO unit	PRESTO® A40
Cooling power	+20 °C 1.2 kW
	0 °C 0.9 kW
	-20 °C 0.6 kW
Heating capacity	2.7 kW
Band limit	without
Flow pressure	0.5 bar
Bath fluid	Thermal HL60
Reactor	6 liters glass reactor (QVF)
	filled with 5 l Thermal HL60
Jacket volume	4.5 l
Control	External (ICC)



Test Results

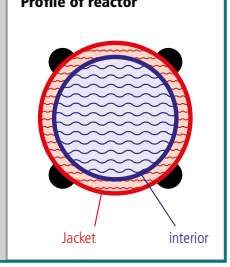
The PRESTO® A40 heating process from 0 °C to +20°C in 18 min without overshoot.

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.