

## PRESTO® A80t

### Cooling a 20 liters reactor from +20 °C to -60 °C

#### Objective

This case study tests the cooling 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 cool down from +20 °C to -60 °C.



#### Environment

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

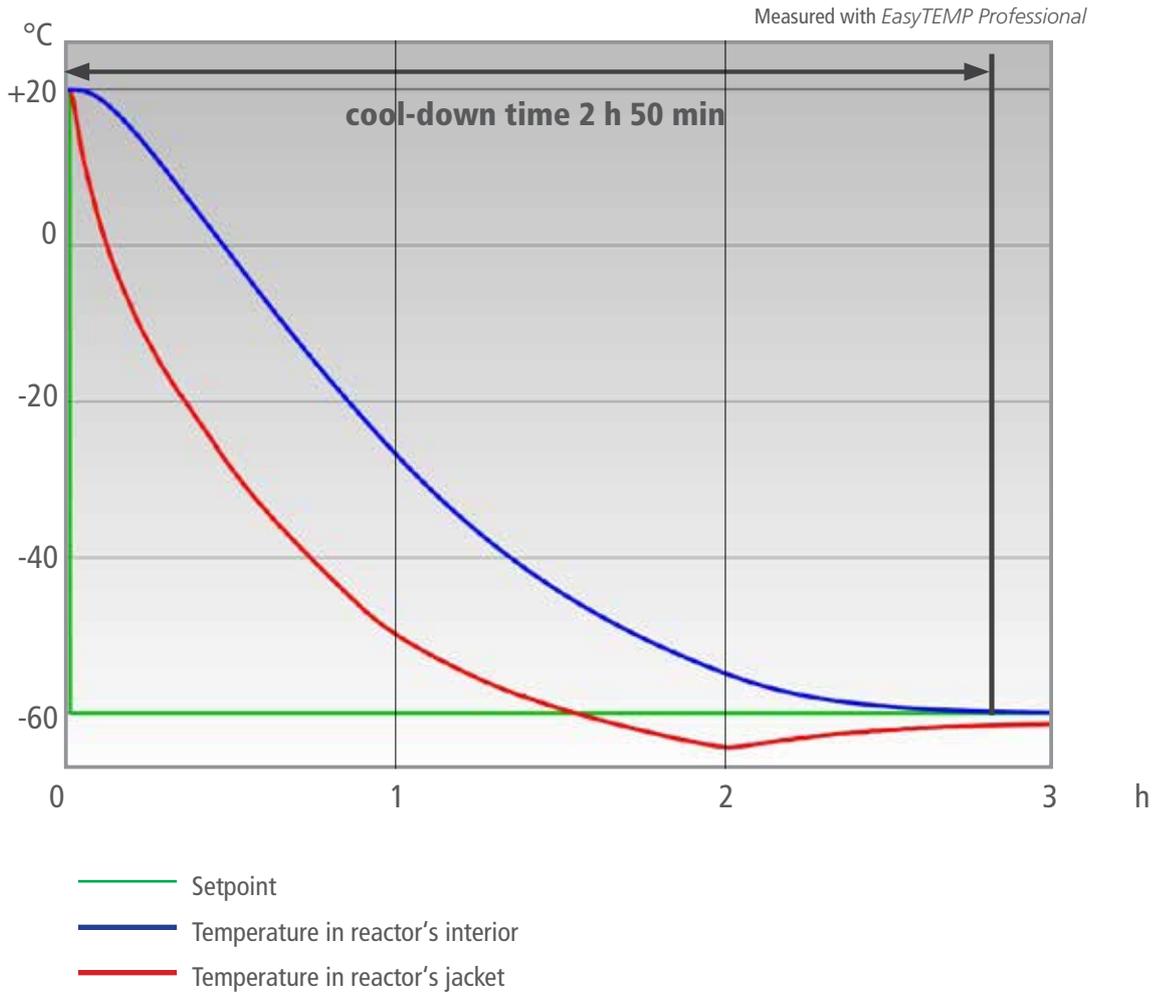
#### Test Conditions

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 l glass reactor (Chemglass) filled with 19 l Ethanol
Jacket volume	8 l
Control	External (ICC)



## Test Results

The PRESTO® A80t cooling process from +20 °C to -60 °C in 2 h 50 min without overshoot.



### Tip

You can also use the robust Pt100 with PTFE coating.



### Tip

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

