

## PRESTO™ A80t

# Cooling a 20 liters reactor from +150 °C to +20 °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 +150 °C to +20 °C.

### Environment

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

### Test Conditions

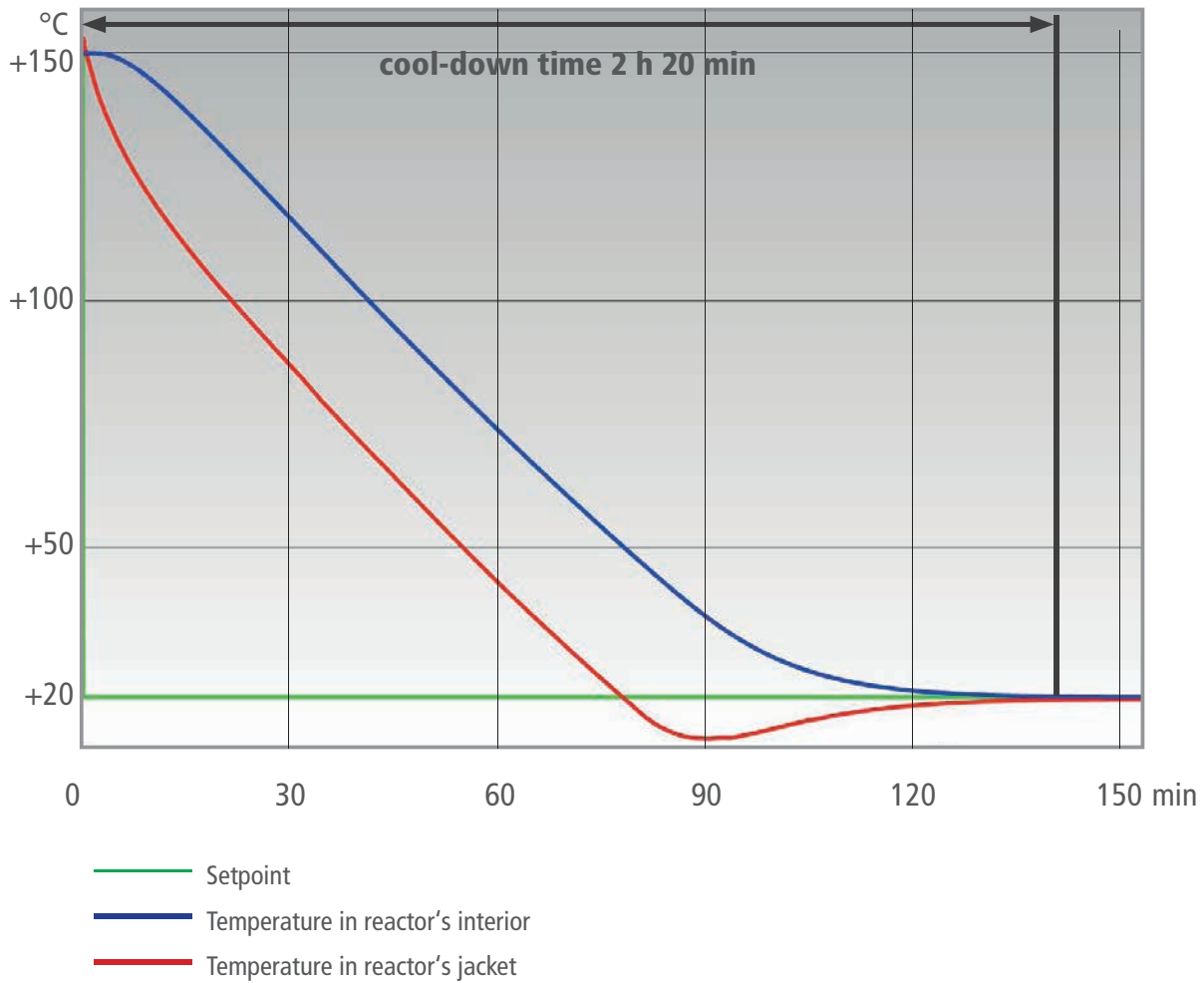
JULABO unit	PRESTO™ A80t
Cooling power	+20 °C 1.2 kW 0 °C 1.2 kW -20 °C 1.1 kW
Heating capacity	3.4 kW
Band limit	with
Flow pressure	0.5 bar
Bath fluid	Thermal HL80
Reactor	20 l glass reactor (Asahi) filled with 19 l Thermal HL80
Jacket volume	7 l
Control	External (ICC)



## Test Results

The PRESTO™ A80t cooling process from +150 °C to +20 °C in 2 h 20 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.

**EasyTEMP**

