

## PRESTO® A30

# Cooling a 6 liters reactor from +100 °C to +20 °C

### Objective

This case study tests the cooling power of PRESTO® A30 with a 6 liters glass reactor. The PRESTO® A30 is connected to the reactor via two 2 m metal tubings. The PRESTO® A30 is programmed to cool down from +100 °C to +20 °C.

### Environment

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

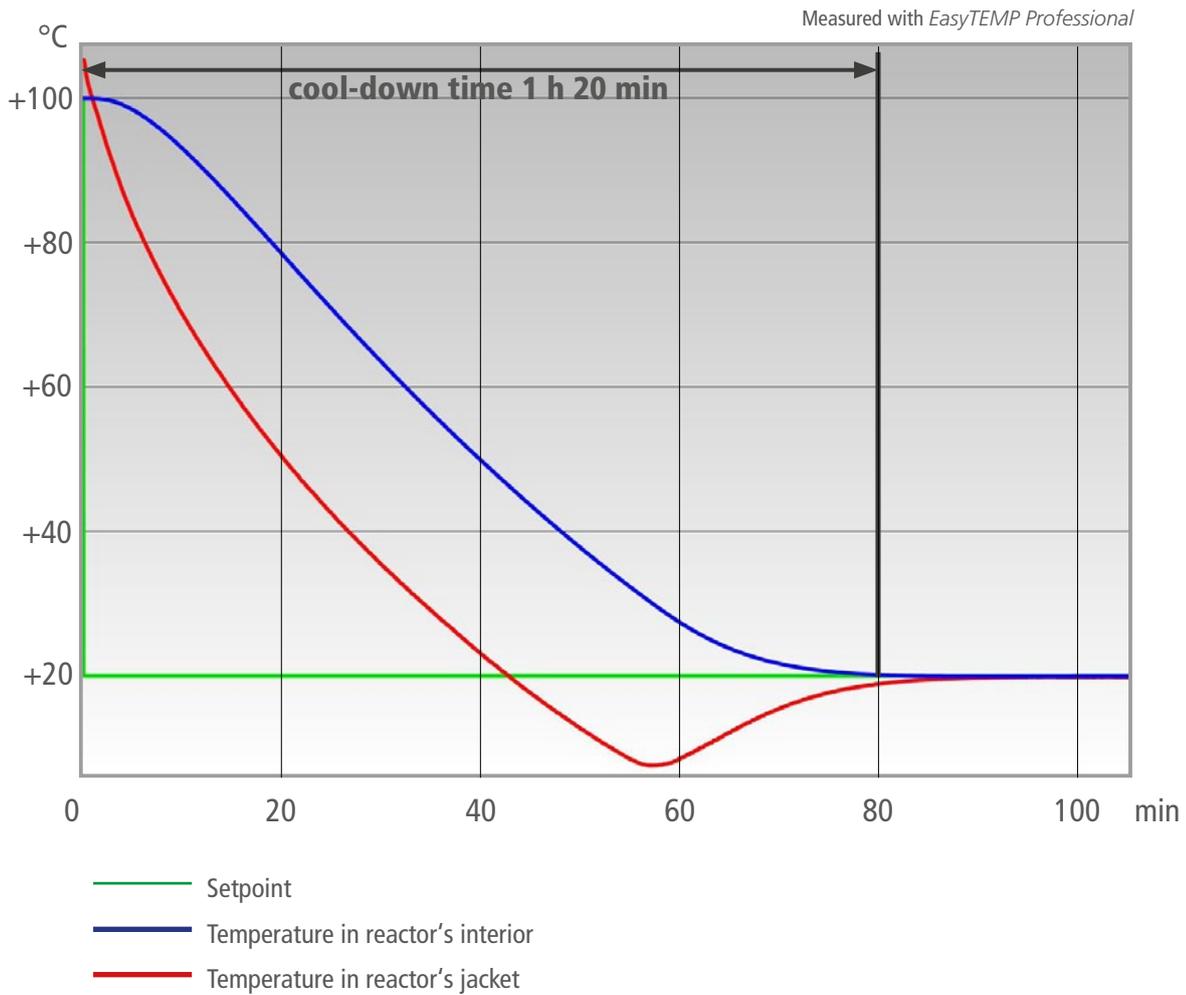
### Test Conditions

JULABO unit	PRESTO® A30
Cooling power	+20 °C 0.5 kW 0 °C 0.4 kW -20 °C 0.2 kW
Heating capacity	2.7 kW
Band limit	without
Flow pressure	0.5 bar
Bath fluid	Thermal HL60
Reactor	6 l glass reactor (QVF) filled with 5 l Thermal HL60
Jacket volume	4.5 l
Control	External (ICC)



## Test Results

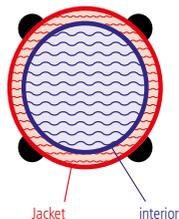
The PRESTO® A30 cooling process from +100 °C to +20 °C in 1 h 20 min without overshoot.



### Tip

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

Profile of reactor



### Tip

You can also use the robust Pt100 with PTFE coating.

