

## PRESTO® W92tt

### Cooling a 100 liters reactor from +20 °C to 0 °C

#### Objective

This case study tests the cooling 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 cool down from +20 °C to 0 °C.

#### Environment

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

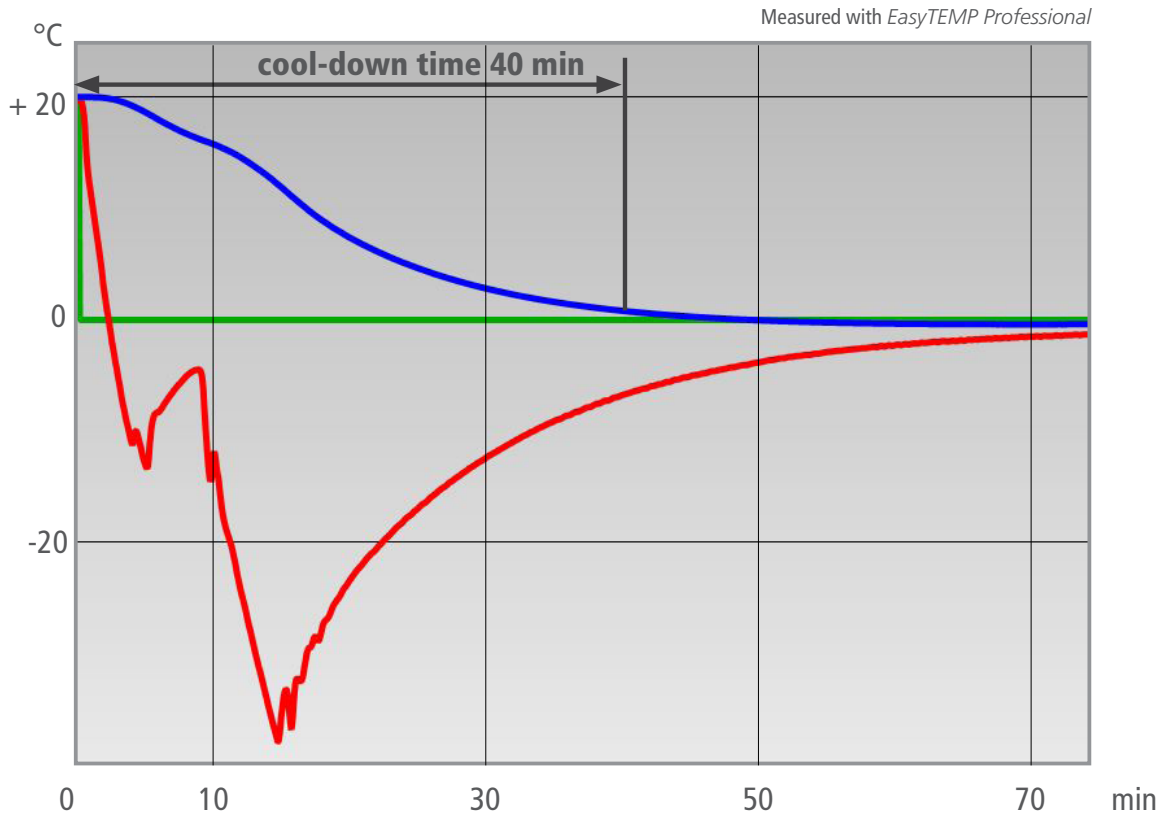
#### Test Conditions

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 l glass reactor (Büchiglas) filled with 70 l Ethanol
Jacket volume	30 l
Control	External (ICC)



## Test Results

The PRESTO® W92tt cooling process from +20 °C to 0 °C in 40 min without overshoot.

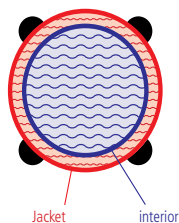


- Setpoint
- Temperature in reactor's interior
- Temperature in reactor's jacket

### 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

Use the free of charge *EasyTEMP* software to control the units with the PC and to show the temperature curves graphically.

**EasyTEMP**

