# PRESTO® W80

## Cooling a 5 liters reactor from +150 °C to +20 °C

### Objective

This case study tests the cooling power of PRESTO® W80 with a 5 l glass reactor. The PRESTO® W80 is connected to the reactor via two 1 m metal tubings. The PRESTO® W80 is programmed to cool down from +150 °C to +20 °C.

### Environment

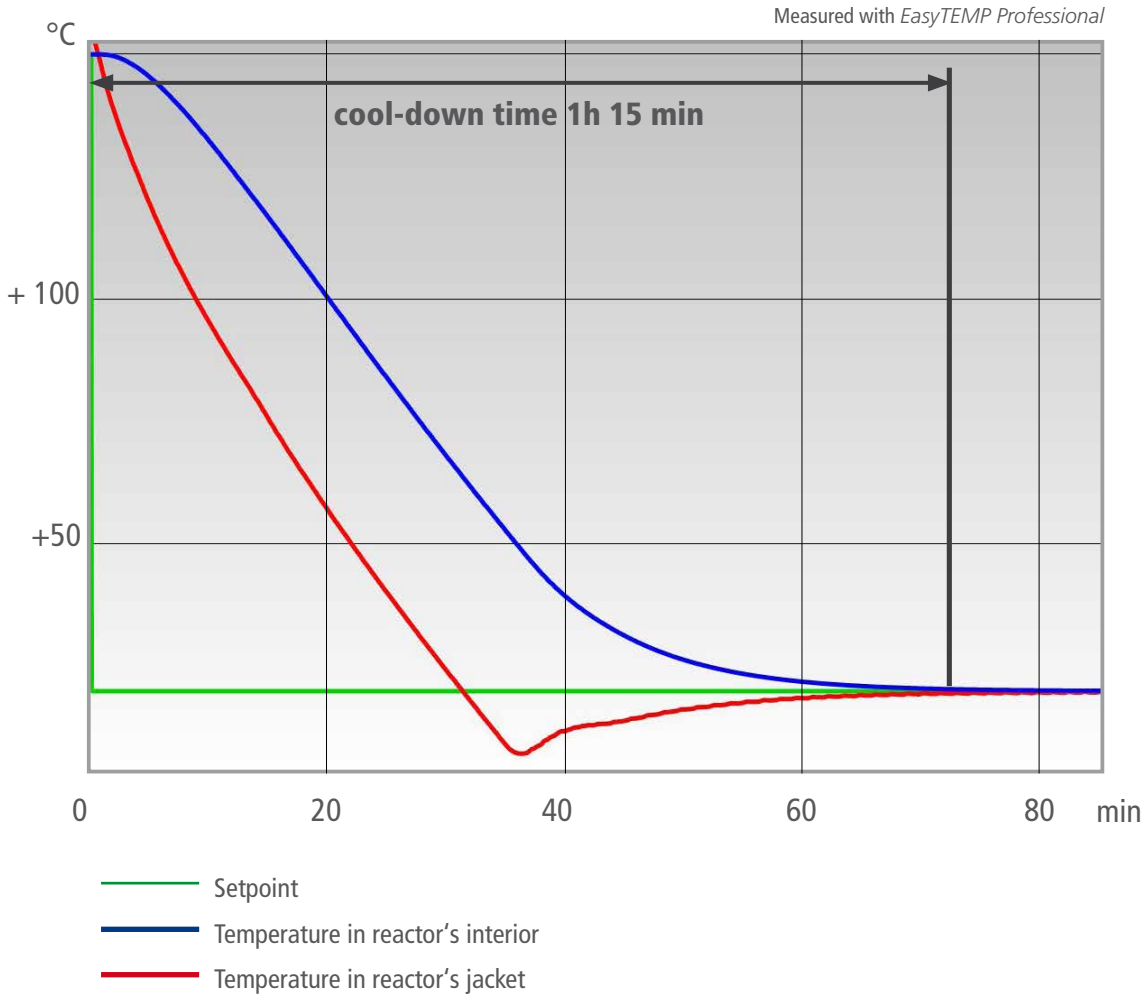
| | |
|---|---|
| Room temperature | +20 °C |
| Humidity | 45 % |
| Voltage | 230 V / 50 Hz |

### Test Conditions

| | |
|---|---|
| JULABO unit | PRESTO® W80 |
| Cooling power | +20 °C 1.2 kW |
| | 0 °C 1.2 kW |
| | -20 °C 1.1 kW |
| Heating capacity | 1.8 kW |
| Band limit | without |
| Flow pressure | 0.4 bar |
| Bath fluid | Thermal HL 80 |
| Reactor | 5 l glass reactor (Rettberg) |
| | filled with 5 l Thermal HL 80 |
| Jacket volume | 2.5 l |
| Control | External (ICC) |

## Test Results

The PRESTO® W80 cooling process from +150 °C to +20 °C in 1h 15 min without overshoot.




**Tip**

Use our tube adapters and your tubing will no longer kink.

**Tip**

You can also use the robust Pt100 with PTFE coating.