PRESTO® W80

Cooling a 5 liters reactor from +20 °C to -60 °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 +20 °C to -60 °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 +20 °C to -60 °C in 1 h 10 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.