PRESTO® A80t

Cooling a 20 liters reactor from +20 °C to -60 °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 +20 °C to -60 °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 (Chemglass) filled with 19 l Ethanol
Jacket volume 8 l
Control External (ICC)
Test Results

The PRESTO® A80t cooling process from +20 °C to -60 °C in 2 h 50 min without overshoot.

Tip

You can also use the robust Pt100 with PTFE coating.

Tip

Take advantage of our wide range of accessories. The M+R adapter enables you to display and record an additional temperature.