PRESTO® A80t

Cool-down a 20 liters reactor from +20 °C to lowest possible temperature

Objective

This case study tests the lowest temperature of the PRESTO® A80t with a 20 liters glass reactor. The PRESTO® A80t is connected to the reactor via 1 m metal tubings. The PRESTO® A80t cools down from +20 °C to the lowest possible temperature.

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      Ethanol
Reactor         20 l glass reactor (Chemglass) filled with 19 l Ethanol
Jacket volume   8 l
Control         External (ICC)
Test Results

The PRESTO® A80t cooled the reactor from +20 °C down to the lowest possible temperature in 5 h.

Within these test conditions the lowest possible temperature is -70 °C.

Tip

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

Tip

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