PRESTO® A30

Cooling a 6 liters reactor from +50 °C to +20 °C

Objective

This case study tests the cooling power of PRESTO® A30 with a 6 liters glass reactor. The PRESTO® A30 is connected to the reactor via two 2 m metal tubings. The PRESTO® A30 is programmed to cool down from +50 °C to +20 °C.

Environment

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

Test Conditions

JULABO unit           PRESTO® A30
Cooling power         +20 °C   0.5 kW
                       0 °C     0.4 kW
                       -20 °C   0.2 kW
Heating capacity      2.7 kW
Band limit            without
Flow pressure         0.5 bar
Bath fluid            Thermal HL60
Reactor               6 l glass reactor (QVF)
                       filled with 5 l Thermal HL60
Jacket volume         4.5 l
Control               External (ICC)
Test Results

The PRESTO® A30 cooling process from +50 °C to +20 °C in 50 min without overshoot.

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

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

Measured with EasyTEMP Professional