PRESTO® A30

Cooling a 6 liters reactor from +20 °C to -10 °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 +20 °C to -10 °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 +20 °C to -10 °C in 2 h without overshoot.

Measured with EasyTEMP Professional

Tip
Protect your reactor. The function “band limit” (see above) permits setting the max. temperature difference between jacket and internal vessel.

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