

## PRESTO® A40

# Cooling a 6 liters reactor from +20 °C to -10 °C

### **Objective**

This case study tests the cooling power of PRESTO® A40 with a 6 liters glass reactor. The PRESTO® A40 is connected to the reactor via two 2 m metal tubings. The PRESTO® A40 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® A40 Cooling power +20 °C 1.2 kW 0 °C 0.9 kW

-20 °C 0.6 kW

Heating capacity

Band limit

Flow pressure

Bath fluid

2.7 kW

without

0.5 bar

Thermal HL60

Reactor 6 l glass reactor (QVF)

filled with 5 I Thermal HL60

Jacket volume 4.5 l

Control External (ICC)







#### **Test Results**

The PRESTO® A40 cooling process from +20 °C to -10 °C in 55 min without overshoot.





