

# PRESTO<sup>®</sup> A30 Heating a 6 liters reactor from -10 °C to +20 °C

### Objective

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This case study tests the heating power of PRESTO<sup>®</sup> A30 with a 6 liters glass reactor. The PRESTO<sup>®</sup> A30 is connected to the reactor via two 2 m metal tubings. The PRESTO<sup>®</sup> A30 is programmed to heat up from -10 °C to +20 °C.

#### Environment

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

#### **Test Conditions**

JULABO unit Cooling power

Heating capacity Band limit Flow pressure Bath fluid Reactor

Jacket volume Control +20 °C 0.5 kW 0 °C 0.4 kW -20 °C 0.2 kW 2.7 kW without 0.5 bar Thermal HL60 6 liters glass reactor (QVF) filled with 5 I Thermal HL60 4.5 I External (ICC)

PRESTO® A30







#### **Test Results**

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The PRESTO® A30 heating process from -10 °C to +20°C in 19 min without overshoot.



Setpoint
Temperature in reactor's interior
Temperature in reactor's jacket

#### Tip

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



## Тір

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

