

## PRESTO™ A80t

# Heating a 20 liters reactor from +20 °C to +100 °C

### **Objective**

This case study tests the heating power of PRESTO™ A80t with a 20 liters glass reactor. The PRESTO™ A80t is connected to the reactor via two 1 m metal tubings. The PRESTO™ A80t is programmed to heat up from +20 °C to +100 °C.

#### **Environment**

Room temperature +20 °C Humidity 45%

Voltage 208 V / 60 Hz



#### **Test Conditions**

JULABO unit PRESTO $^{\text{TM}}$  A80t Cooling power +20 °C 1.2 kW 0 °C 1.2 kW

-20 °C 1.2 kW

Heating capacity 3.4 kW
Band limit with
Flow pressure 0.5 bar
Bath fluid Thermal HL80

Reactor 20 liters glass reactor (Asahi)

filled with 19 l Thermal HL80

Jacket volume 7 l

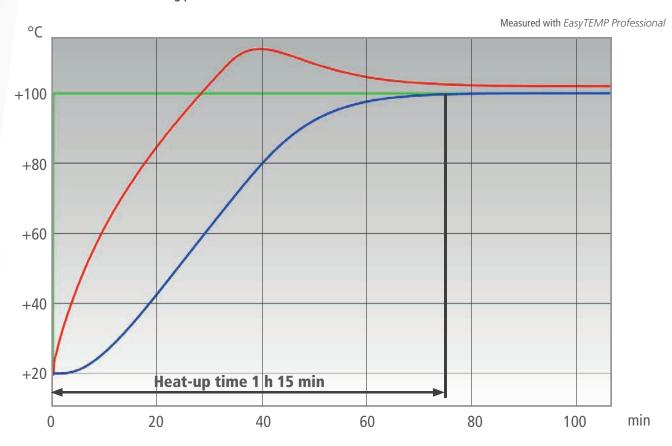
Control External (ICC)





#### **Test Results**

The PRESTO™ A80t heating process from +20 °C to +100°C in 1 h 15 min without overshoot.



Setpoint

Temperature in reactor's interior

Temperature in reactor's jacket

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

Profile of reactor

Dacket interior

