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 +150 °C.

Environment
Room temperature +20 °C
Humidity 45%
Voltage 208 V / 60 Hz

Test Conditions
JULABO unit PRESTO™ A80t
Cooling power +20 °C 1.2 kW
0 °C 1.2 kW
-20 °C 1.1 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 +150°C in 1 h 40 min without overshoot.

![Graph showing temperature profiles](image)

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

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

Profile of reactor

---

测得的加热过程从+20°C到+150°C，1小时40分钟内无过冲。