**PRESTO™ A80t**

**Heating a 20 liters reactor from 0 °C to +20 °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 0 °C to +20 °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 0 °C to +20°C in 27 min without overshoot.

*Tip*

You can also use the robust Pt100 with PTFE coating.

*Tip*

Use our tube adapters and your tubing will no longer kink.