



WORLDWIDE LEADER OF SOURCE SAMPLING EQUIPMENT

▶ **TEP-1612**

**PORTABLE PELTIER SINGLE-STAGE GAS COOLER**

The **TEP-1612 Peltier Gas Cooler** removes water vapor from process gas samples prior to gas analysis. The TEP-1612 has an aluminum block containing a single-pass stainless-steel condenser, a peristaltic pump for condensate removal, and three auxiliary temperature controllers (probe, oven and heated sample line jumper). The rugged and lightweight design allows the cooler to be used on the sampling platform, close to the source.



**TEP-1612**

**The Perfect Choice For Your Modular Gas Sampling System**

**Features**

- Portable, compact, and lightweight
- Rugged 24v solid-state thermoelectric heat pumps
- OLED display with power monitor
- IP-rated switching power supply
- Variable DC voltage PID controller for thermoelectric module
- Integrated peristaltic pump for condensate removal
- Easily removable condenser
- Insulated aluminum cold block
- Dual high-output axial fans are coupled with thermosiphon heat exchangers to support the thermoelectric units and allow the gas conditioner to operate in a wider range of ambient conditions



## ▶ TEP-1612 PORTABLE PELTIER SINGLE-STAGE GAS COOLER

1. Temperature Display
2. Membrane Switch
3. Main Switch
4. Condenser
5. Exhaust Fans
6. Portable Case Cover
7. Peristaltic Pump
8. Temperature Controls



### Specifications

**Pinnacle Heat Pump System:** Two 80-watt solid-state modules

**Temperature Display:** OLED display +/- 0.1 °C/°F

**Temperature Control:** Variable DC voltage controller, 3-button keypad

**Cold Block:** Insulated aluminum

**Condenser:** Alloy 316 stainless steel, reverse flow condensate separator, various coatings available, 1" OD x 12"

**Condensate Removal:** Integrated peristaltic pump, 10 ml/min

**Radiator:** Two high flow, low-profile heat sinks 120-mm axial fans, with encapsulated motor and electronics

**Rated Moisture Extraction Capacity:** 14% moisture at 10 lpm (75° ambient) with a less than 1% target moisture rate.

**Auxiliary Temperature Controllers:** Digital temperature controllers for probe, oven, and heated jumper; type-K thermocouple input

**Ambient Operating Temperature:** 32 to 104 °F (0 to 40 °C)

**Standard Flow Rate:** 1 to 15 lpm, single channel

**Tubing Size:** 1/4" diameter standard or 3/8" fittings provided

**Accessories:** Companion condenser, peristaltic pump (optional), separate strain reliefs

**Dimensions:** 10.25" W x 16.5" H x 9.25" D (260 mm W x 419 mm H x 235 mm D)

**Weight:** 30.7 lbs (13.9 kg)

