



WORLDWIDE LEADER OF SOURCE SAMPLING EQUIPMENT

## ▶ **TEC-1624**

### PELTIER DUAL-STAGE GAS COOLER

The **TEC-1624 Thermoelectric Dual-Stage Gas Cooler** removes moisture from a gas sample and ensures that the sample is cooled to a constant dew point before reaching the analyzer.

The TEC-1624 is designed to be a rack-mountable gas cooler. With its robust two stage single-channel gas conditioning system, the unit efficiently removes condensate and delivers dry gas to the analyzer. The first stage is air-cooled to reduce the dew point of the gas sample and the second stage is actively cooled with thermoelectric modules.



**TEC-1624**

**Capacity up to 55% Moisture at 10 lpm**

## Features

- Portable, compact and lightweight
- Ideal for high moisture laden gas samples
- Rugged solid-state thermoelectric modules
- OLED display with power monitor
- IP-rated switching power supply
- Variable DC voltage PID controller for thermoelectric modules
- Peristaltic pump for condensate removal
- Standard rack mount



## ▶ TEC-1624 PELTIER DUAL-STAGE GAS COOLER

1. Temperature Display
2. Membrane Switch
3. Main Switch
4. Condensers
5. Exhaust Fans
6. Mounting Bracket
7. Peristaltic Pump



### Specifications

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

**Pre-Cooler:** Forced air ambient

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

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

**Cold Block:** Insulated aluminum

**Condenser:** Two 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 sets of dual low-profile heat sinks, 120-mm axial fans, with encapsulated motor and electronics

**Rated Moisture Extraction Capacity: 55% moisture at 10 lpm (75° ambient) with a less than 1% target moisture rate.**

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

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

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

**Mounting Options:** Rack mount

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

**Dimensions:** 19" W x 12" H x 8.8" D (483mm W x 304mm H x 224mm D)

**Weight:** 39.7 lbs (18.0 kg)

