



WORLDWIDE LEADER OF SOURCE SAMPLING EQUIPMENT

## ▷ **TEC-4000Hg** THERMOELECTRIC GAS COOLER MERCURY GAS COOLER

The **TEC-4000Hg Thermoelectric Gas Cooler** removes moisture and gas and is designed to be used with the STM-6000RM Automated Mercury Sampling Console for PS-12B.

The TEC-4000Hg is mounted in a 19-inch cabinet with the STM-6000RM and provides a robust, closed, and dual-channel gas conditioning system that collects condensate in sample bottles and delivers dry, acid-free gas to the meter console.

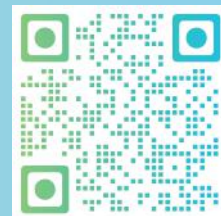


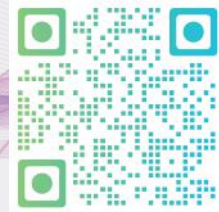
**Model TEC-4000Hg**

Reliable, Efficient, and Long-Lasting. The Whole Package.

## Features

- Extremely reliable solid-state heat pump with a long lifespan
- Pinnacle solid-state heat pump is housed in a rugged package that is easy to service and designed to withstand harsh industrial environments
- Low-resistance heat exchanger with a copper base and heat pipes with high thermal conductivity
- Heat pump unit includes an aluminum block fitted with two Hastelloy condensers, a thermoelectric module, a high-efficiency heat exchanger, an exhaust fan, and a PID temperature controller
- Thermoelectric module is coupled with a highly efficient heat exchanger for removing the heat from the hot side of the module to the ambient air
- Low-resistance, high efficiency heat exchanger includes a copper base fitted with six U-tube heat pipes with coated fins and a high-volume corrosion resistant fan





## ► TEC-4000Hg

### THERMOELECTRIC GAS COOLER

### MERCURY GAS COOLER

1. Power Switches
2. Front Fan
3. Temperature Control
4. Rack Mount
5. Sample Bottles
6. Sample Inlets
7. Back Fan
8. Conditioner Temp.
9. AUX Temp.
10. Power Outlets



## Specifications

**Refrigeration:** Thermoelectric heat pump: 50-watt solid-state module

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

**Temperature Control:** Variable direct current with PID control, 3-button keypad

**Cooling Capacity:** 100 BTU/hr

**Cold Block:** Insulated aluminum

**Condenser:** Reverse flow condensate separator, C276 alloy, 1×7 inch dimensions, 4-inch active cooling zone

**Condensate Removal:** Gravity bottle, 10 mL/min

**Heat Exchanger:** Low-profile heatsink with six 6-mm diameter U-tube heat-pipes, coated fins for corrosion resistance, 120-mm axial fan, with encapsulated motor and electronics

**Rated Flow Rate:** 2 LPM at 30% moisture per channel

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

**Auxiliary Temperature Controller:** Digital temperature controller for heated jumper, type-K thermocouple input

**Power:** Supply 120V AC at 60 Hz 15 amps max., or 240VAC at 50 Hz 10 amps max., IEC C-13 inlet

**Dimensions:** 17 x 7 x 17 inches (43.2 cm x 27.8 cm x 43.2 cm)

**Weight:** 22 lbs (10 kg)