



WORLDWIDE LEADER OF SOURCE SAMPLING EQUIPMENT

▶ **TEC-4000HgP**

PORTABLE THERMOELECTRIC GAS CONDITIONER MERCURY GAS CONDITIONER

The **TEC-4000HgP Portable ThermoElectric Gas Conditioner** removes moisture by cooling the sample gas to a constant dew point using the new Apex Pinnacle Heat Pump. It is housed in our rugged, lightweight case for easy transport. The chiller is equipped with a closed, dual-channel gas conditioning system that collects condensate in sample bottles and delivers dry, acid-free gas to the meter console.

The chiller is designed to be used with the XC-30B and XC-260 Mercury Sampling Consoles.



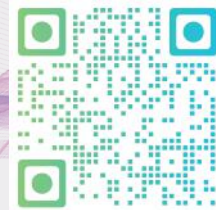
Model TEC-4000HgP

The same great features, now portable.

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





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1. Power Switches

2. Front Fan

7. Sample Line
Inlet Port



3. Temperature
Control

6. Sample Bottles

4. Desiccant
Cannisters

5. Connector Tubing

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, 1x7 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)