

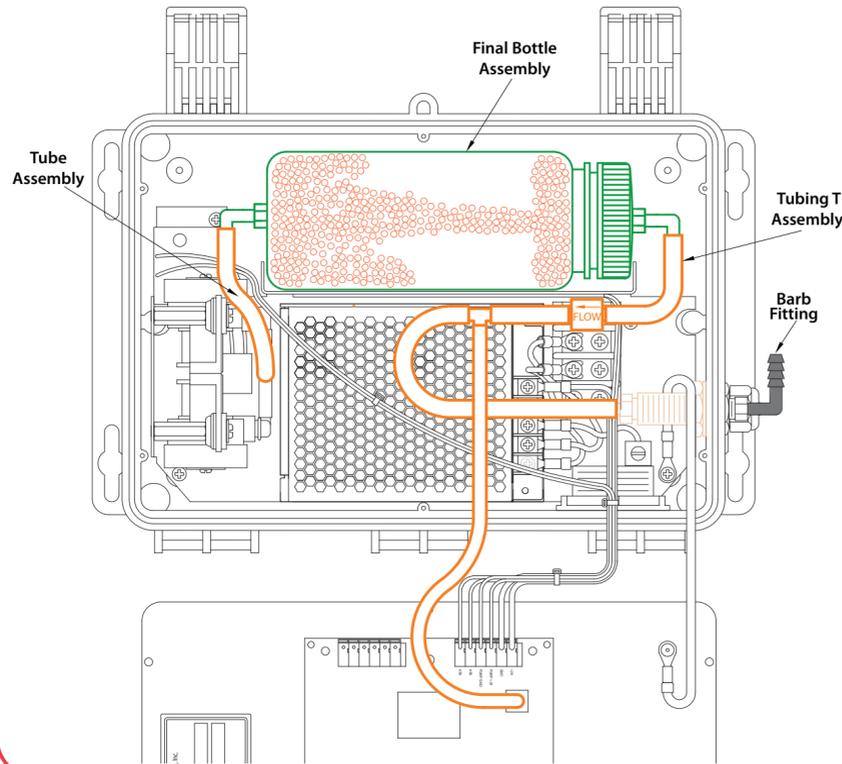


Low Cost, Low Profile
Air Dehydrator
MODEL EDH™-5

Packing List

QUANTITY	PART NUMBER	DESCRIPTION
1	24894	EDH-5 Dehydrator
1	24932	EDH-5 Instruction Manual
1	24934	EDH-5 Installation Sheet (this document)
1	24976	Power Cord Assembly

Pneumatic Connections



Safety & Warnings

Read and become familiar with the safety information below.

Lethal Voltages Present

There are lethal voltages present inside the case of the EDH-5. Service should be performed by qualified personnel only. There are no user serviceable components inside the chassis.

Abnormal Odor or Smoke

In the event of smoke or an abnormal odor, immediately interrupt power to the EDH-5. Disconnect the unit from its power source or trip the circuit breaker controlling the outlet.

Pneumatic Pressure Hazard

Always vent the system to atmospheric pressure before servicing pneumatic components.

The air pumps in the EDH-5 Air Dehydrator are capable of generating as much as 1.2 psig (82.7 mbar). Proper safety practice requires treating all pneumatic components with care.

Operating Temperature

Verify adequate air flow and power supply capacity is available to the EDH-5.

Ensure that the EDH-5's maximum operating temperature of 130°F (55°C) will not be compromised by other components in its environment. Ensure the EDH-5 is reliably grounded.

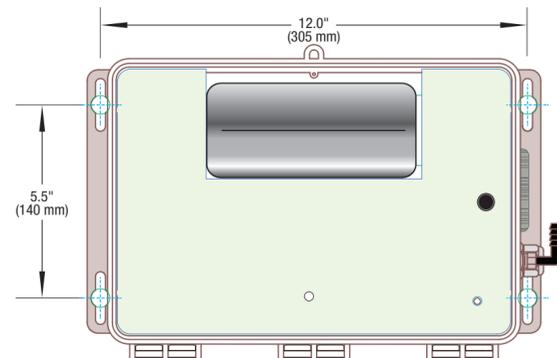
Mounting

Before and after mounting the EDH-5, ensure that the mounting surface is stable. Mounting the EDH-5 should be such that a hazardous condition is not created due to uneven mechanical loading. Verify that adequate air flow and power source capacity is available to the unit.

The EDH-5 is intended to be wall mounted. Before connecting any other components to it, install the unit. The surface used for the installation should be capable of supporting four times the weight of the unit, about 32 pounds (14.5 kg). Be sure to install the unit directly to a solid, stable surface.

The dimensions shown are for the mounting hole location footprint and run from centerline to centerline of the four slotted mounting holes.

Note that the EDH-5 requires operator attention for desiccant recharging or replacement, so consider a location convenient for this operation.

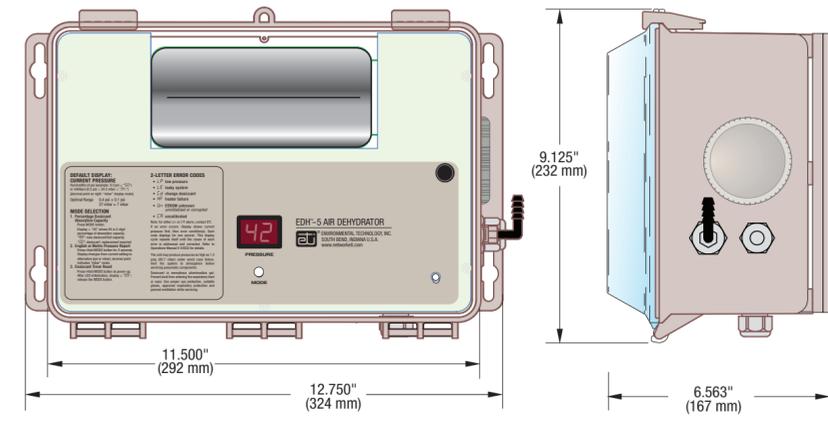
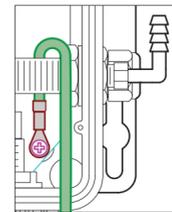


Power Connection

- The EDH-5
 - has a 1.60" (40.6 mm) opening at the bottom of the NEMA enclosure for supplying electrical power
 - uses a universal power supply: 100 VAC to 240 VAC at 50/60 Hz
 - requires a standard outlet (North America: NEMA 5-15R) no further than 6 feet (1.8 m) from the power entry point at the bottom of the unit

- Consider adding
- a readily accessible disconnect device
 - a short circuit and overcurrent device rated 20 amps maximum
- Ensure cable glands are suitable for preventing the accumulation of water and dust within the enclosure.

The EDH-5 does not incorporate a power switch: **the unit will be energized as soon as power is connected to the unit.** The power cord contains a ground lead, but it is recommended that the unit also be connected to true earth ground using its ground lug.



Prior to Installation

1. Read these installation instructions and manual (p/n 24932) prior to beginning installation.
2. **Install this device only if you are a qualified electrician trained to perform such work.**
3. Before beginning, lay out the system components and evaluate exact component placement.

Mounting the EDH-5

During installation, leave all mounting hardware loose enough to allow for slight adjustments to component placement. Once all components and the front panel and clear plastic cover have been installed per the steps below, then, as the final step in installation, fully tighten all mounting hardware and weather-tight fittings. Make sure all connections and fittings are snug, air-tight and water-tight.

1. Mounting holes accommodate fasteners up to #10 Imperial (M5 metric) in diameter. The choice of anchors and companion hardware should be appropriate for the mounting surface. At least four anchors should be used and each should be capable of supporting a combined load of at least 8 pounds (3.6 kg) for a wall mounted unit.
 - Note:** When planning your installation, consider the EDH-5 produces a slight vibration due to oscillating components which may lead to fatigue and possible failure of the mounting system or wall material.
2. Use the EDH-5 as a template to determine the mounting hole footprint pattern.
 - Hold the unit up against the surface onto which it will be mounted
 - Mark the surface at the locations of the slotted mounting holes to determine the location of the mounting holes on the wall
3. Loosely install one or both of the top mounting bolts as the remaining holes are marked. Do not fully tighten mounting hardware until locations for all mounting holes have been determined and marked.
4. Once four mounting holes have been located and marked, install the EDH-5 to the surface using properly sized mounting hardware noted above. Make sure to use all four mounting holes. Because a hose will be installed as well, leave the mounting hardware loose enough to work the hose into place.

Preparation and System Set-up

Remove the clear plastic unit cover and face plate to access the inside of the unit. These will be replaced at the end of the installation process. A post-installation test will be performed per the operation manual (p/n 24932) to verify proper function.

Electrical Connections

Only UL listed, Type 4X, rain-tight cable glands are to be used. Install per all National Electrical Code (NEC) or Canadian Electrical Code (CEC) requirements, all local and applicable building and electrical codes, as well as the manufacturer's instructions. Ensure a sealed, watertight installation.

Principal Considerations

The EDH-5 works best supplying dry air in a flowing system, where the dehydrator completely replaces the air on a regular basis.

Consequently, the equipment being supplied dry air should be slightly leaky: that is, continual airflow is achieved when dry air pressure from the EDH-5 is greater than the air pressure of the environment the unit maintains. For a waveguide, this is best accomplished by slightly opening a purge valve at the feed horn window end of the system. Likewise, air dielectric coaxial cable should be equipped with a valve at the end opposite to where the EDH-5 pumps air, which can be set to allow a small leak. Many systems will have sufficient normal leakage that such actions will be unnecessary.

The EDH-5 has a check valve in its air path. A tightly sealed system may experience a pressure increase, such as from solar gain, with a rise in ambient temperature. The EDH-5 has no way to reduce pressure buildup. A pressure relief valve rated to protect the feed horn window is recommended to account for this buildup.

Questions & Comments

For technical help, questions or comments concerning this product or any Environmental Technology, Inc. product contact Customer Service 8:00 a.m. - 5:00 p.m. EST.

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