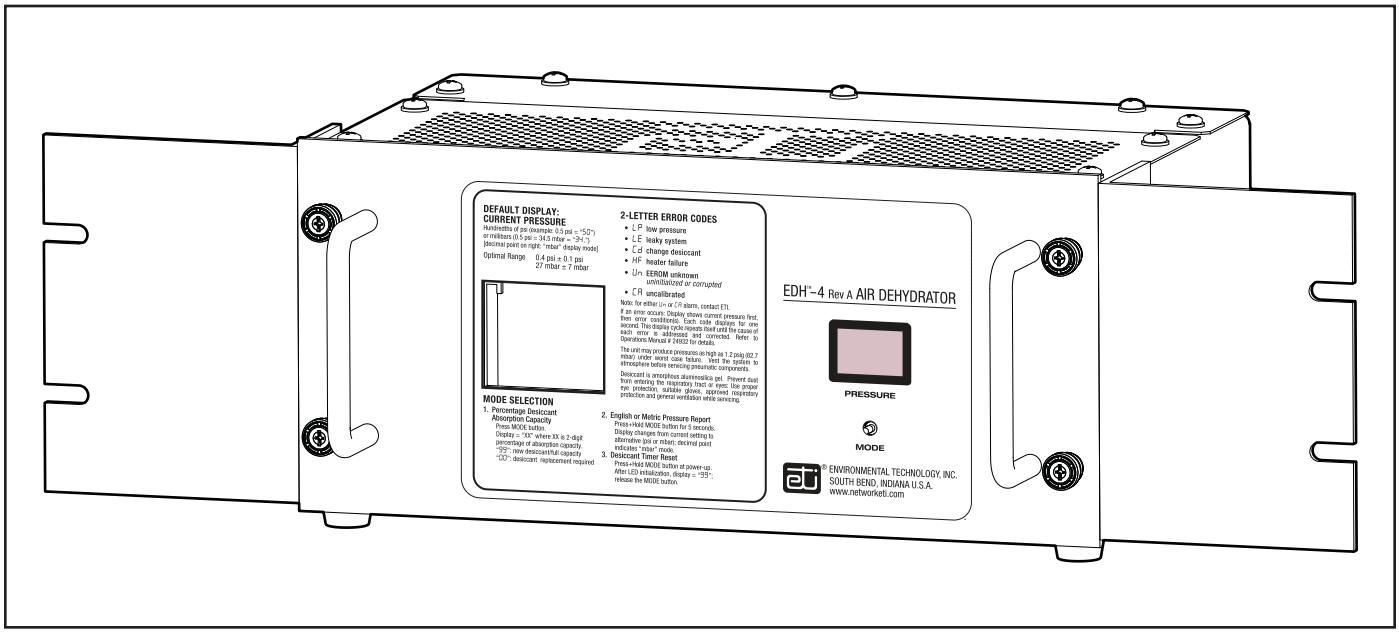
We Manage Heat ®

# Low Cost Air Dehydrator
# MODEL EDH–4

DATA SHEET

## FEATURES & BENEFITS

- Provides cost effective dry air at 0.5 psig (34.5 mbar)
- Prevents vapor, dust, and small particles from entering small systems
- Improves transmission reliability by protecting against reflection
- Dry, clean, positive pressure extends equipment lifetime
- International capability:
  - Selectable English or SI units display
  - Auto-switching 100 – 240 VAC 50/60 Hz power supply
- Simple to install and operate
- Brackets supplied for rack mounting, wall mounting, and feet for shelf or bench top use
- Convenient front panel access for easy replacement of desiccant canister
- Low energy usage
- Quiet




*EDH–4 dehydrator shown with 19 inch mounting brackets.*

## DESCRIPTION

The EDH–4 dehydrator addresses the need for a low cost, non-regenerating air dehydrator for pressurizing small volume waveguides and coax. It is especially suited for C, X, Ku, and Ka band applications.

The output pressure is 0.5 psig (34.5 mbar) with a maximum flow rate of 6.0 scfh (2.8 lpm). It is intended for use in systems smaller than 18 cubic feet (510 liters).

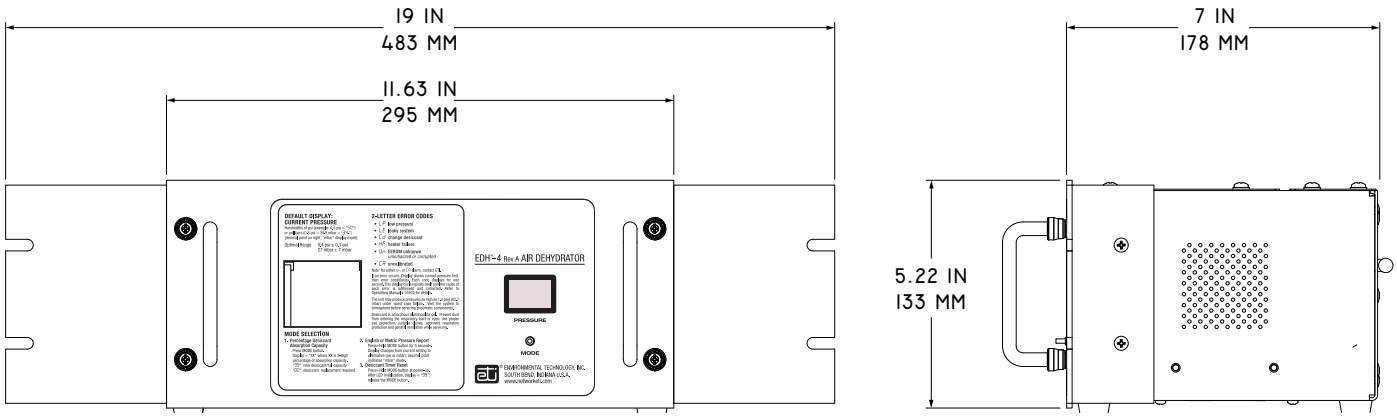
The EDH–4 indicates pressure and status on a bright red LED display. Display parameters are user selectable in English or SI units.

A cut out in the front panel allows for easy inspection of the color indicating desiccant, which begins bright orange when dry and transitions to white over time. Additionally, the dehydrator will alarm after a preset number of compressor hours to indicate that the desiccant should be inspected and possibly changed.

When the time comes to change the desiccant, the front panel is easily opened exposing the desiccant canister and allowing for simple removal for replacement, or optionally, manual regeneration. No special tools are required.

For complete information describing the EDH–4 dehydrator's applications, installation, and features—or for information about Environmental Technology dehydrators for other applications—please contact Customer Service or check on the web at networketi.com.

## SPECIFICATIONS




### Operation

| | |
|---|---|
| Dehydrator Type | Non-Programmable, Single Canister, Desiccant Dehydrator |
| Regeneration Method | Manual Regeneration or Replacement |
| Regeneration Indication | Desiccant Color Change and Compressor Run Time |
| Outlet Dew Point | -40°C (New or newly regenerated desiccant) to -10°C (Desiccant requiring regeneration or replacement) |
| Output Pressure | 0.3 - 0.5 psig (34.5 mbar) |
| Flow Rate | 6.0 scfh (2.8 lpm) |
| Capacity, Standard | 18 scf (510 liters) |
| Capacity, Max | 45 scf (1,274 liters) |
| Discharge port | Single Port: 1/8" NPT Female (1/4" Hose Barb supplied) |
| Relief Valve Pressure | 1.8 psig ( 124 mbar) |
| Supply Voltage | 100 – 240 VAC 50/60 Hz, Auto-select |
| Power Requirement | @120 VAC: 22 watts maximum; 8.3 watts minimum |
| Reliability | MTBF: 100,000 hours |

### Interface

| | |
|---|---|
| Air Pressure Indication | Digital Display (English or SI) |
| Data Display | Pressure, Estimated Desiccant Capacity Remaining, Error Codes |
| Communications Port | Alarm Relay |
| Alarm Relay Capacity | 2 Amp @ 30 VDC |
| Relay Connection | 6-position terminal block |

### Enclosure

| | |
|---|---|
| Dimensions | 5.22" × 11.63" × 7.0" (133 mm × 295 mm × 178 mm) |
| Weight | 7.8 pounds (3.54 kg) |
| Mounting | 19" or 13 1/2" Rack (3U space required), wall mount, shelf or table top |

### Environmental

| | |
|---|---|
| Storage Temp | -40°C to 60°C |
| Operating Temp | 0°C to 55°C |

## ORDERING INFORMATION

| Order Number | Description |
|---|---|
| 18021 | EDH–4 Low Cost Air Dehydrator (Revision A) |
| 25058 | Replacement Desiccant Canister for EDH-4 (Revision A) |
| 18138 | Replacement Desiccant, 32 ounces (0.95 liters) |

## LIMITED WARRANTY

ETI's two year limited warranty covering defects in workmanship and materials applies.
Contact Customer Service for complete warranty information.

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