



DEHYDRATORS

AUTOMATIC AIR DEHYDRATOR WITH
ETHERNET COMMUNICATIONS



MODEL EDH-4

- Automatic pressurization of system
- Provides cost effective dry air at 0.87 psig (59.9 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

DESCRIPTION

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

The output pressure is 0.87 psig (59.9 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.



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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:	0.1 - 0.87 psig (59.9 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)
POWER REQUIREMENT:	@120 VAC: 22 watts maximum; 8.3 watts minimum
SUPPLY VOLTAGE:	100 – 240 VAC 50/60 Hz, Auto-select
RELIABILITY:	MTBF: 100,000 hours
INTERFACE:	
AIR PRESSURE INDICATION:	Digital Display (English or SI)
DATA DISPLAY:	Pressure, Estimated Desiccant Capacity Remaining, Error Codes
COMMUNICATION PORT:	Alarm Relay
ALARM RELAY CAPACITY:	2 Amp @ 30 VDC
RELAY CONNECTION:	6-position terminal block
ENCLOSURE:	
DIMENSION:	5.22" × 11.63" × 7.0"
WEIGHT	7.8 pounds (3.54 kg)
MOUNTING:	19" or 13 1/2" Rack (3U space required), wall mount, shelf or table top