

NETCOM MODEL ADH

AUTOMATIC AIR DEHYDRATOR WITH ETHERNET COMMUNICATIONS

FEATURES & BENEFITS

- Provides dry pressurized air to ensure signal quality of antenna waveguide and dielectric coaxial cable
- Highly configurable to meet the needs of wide ranging applications
- Field programmable operating pressure range from 0.3 psig to 7.50 psig (20.68 mbar to 517mbar)
- Brushless dual-diaphragm compressor for long life
- Future-proof software based features allow updates and upgrades while in service
- Remote monitoring and control by Internet
- Configurable Master/Slave operations
  Ethernet, RS-422/485, RS-232 and alarm relay outputs for compatibility with nearly any system
- Display allows for IP configuration and status monitoring with or without network connection.
- Simple power connections for 100-240 VAC or ±20-75 VDC
- Small, light weight chassis with multiple mounting options makes installation easy
- Low energy use minimizes lifetime operational costs
- Quiet operation

DESCRIPTION

The ADH NETCOM automatic dehydrator supplies low pressure dry air to keep waveguide and coaxial cable dry. Output pressure is field configurable between 0.3 psig and 7.50 psig (7mbar - 517mbar) in 0.01 psig (0.67mbar) increments. Factory default pressure is 0.5 psig (34.5mbar). Operational monitoring and alarms are software based making them highly configurable in the field. Future software features can be installed while in service over the internet or local Ethernet network.

The ADH NETCOM automatic dehydrator is Ethernet network ready. Units can be configured and monitored using either built-in SNMP support or the web interface. Legacy system support is provided via RS-422/485 or RS-232 interfaces. Three programmable alarm relays are also included. User display shows output pressure, duty cycle, temperature, compressor hours and air drying canister status.

The ADH NETCOM automatic dehydrator uses a brushless dual-diaphragm pump for long life. Dehydrator operates with exceptionally low noise and vibration levels. The air drying canisters use aluminum oxide desiccant for high efficiency. The humidity sensor signals for regeneration based upon current dew point rather than at fixed time intervals for additional energy savings and long desiccant life.

The ADH NETCOM automatic dehydrator requires only 5-1/4" (3-U) of rack space and is just 12.25" (304.8mm) deep. Mounting hardware allows for flexible installation options including dual- and single-post rack mounting and wall mounting. The standard unit weighs just 16 lbs (7.26 kg).
The ADH NETCOM automatic dehydrator operates from 100-240 VAC, 50/60 Hz. Optional units are also available at ±20-75 VDC. The dehydrator consumes a maximum of 150 watts during regeneration and about 40 watts otherwise. Heat dissipated is up to 512 BTU/hr during regeneration and about 136 BTU/hr otherwise. The ADH NETCOM creates an exceptionally low heat load for an automatic dehydrator.

A panel with display allows for IP configuration and status monitoring with or without network connection.

For complete information describing application, installation and features, please contact ETI Customer Service or visit www.networketi.com.

SPECIFICATIONS

GENERAL

Area of use	Non-hazardous locations
Regeneration Method	Automatic, demand
Maximum dew point	-40˚ F/C

ENCLOSURE

Dimensions	17" × 12.25" × 5-1/4" (432mm × 311.15mm × 133mm) 16 lbs (7.26 kg)
Weight	
Mounting	Dual-post rack, flush mounted Single-post rack, center mounted Wall mounted

POWER

Supply voltage	100-240 VAC, 50/60 Hz | ±20-75 VDC
Maximum current	1.0 Amps at 100 V
Power usage	40 W typical, 150 W max
Heat dissipation	136 BTU/hr typical @40 W, 512 BTU/hr max @150 W

CONTROL

Protocols	HTTP (Web Interface), SNMP, UDP, TFTP,TCP Configurable
Maximum pressure	Range: 0.3 psig - 7.5 psig (20.68 mbar - 517mbar), Default: 0.50 psig (34.5mbar)
Minimum pressure	Configurable Range: 0.2 psig - 7.4 psig (13.79mbar - 510mbar), Default: 0.30 psig (21mbar)
Low pressure alarm level	User Configurable, Default: 0.15 psig (10mbar)
High pressure alarm level	User Configurable, Default: 1.5 psig (103.5mbar) Contact
Alarm relays	Type - Form C, SPDT, reverse acting Ratings - 0.25 Amps @ 60 V User Configurable, Defaults - Alarm Relay 1: Summary Alarm, Alarm Relay 2: Low Pressure Alarm, Alarm Relay 3: Dew Point Alarm
Duty cycle alarm	User Configurable, Default: 50%
Master/Slave configuration	User Configurable, Default: Standard/Slave

ENVIRONMENTAL

Operating temperature	32°F to 131°F +/-2°F (0°C to 55°C +/-1°C)
Storage temperature	-40°F to 140°F (−40°C to 60°C)

OUTPUT

Flow rate	25.4 scfh (12 lpm)
Maximum pressure	7.5 psig (517mbar)
Internal safety relief valve	8 psig (552mbar)
Display units	SI (millibars); English (psig), default
Discharge port	1/8" NPT 3/8" or 1/4" hose barb (both included)

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
25895	ADH NETCOM, AC
25527	ADH NETCOM, DC
25896	ADH NETCOM, NEMA
25921	ADH NETCOM, NEMA, MIL-SPEC, TYPE 1
25922	ADH NETCOM, NEMA, MIL-SPEC, TYPE 2

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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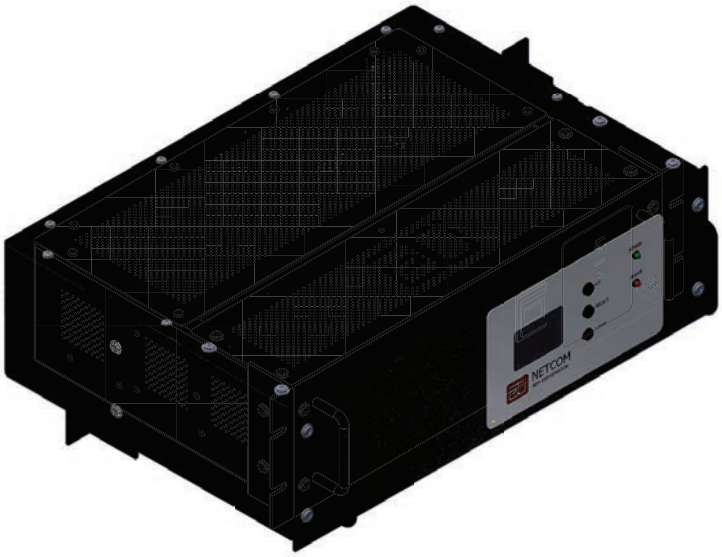
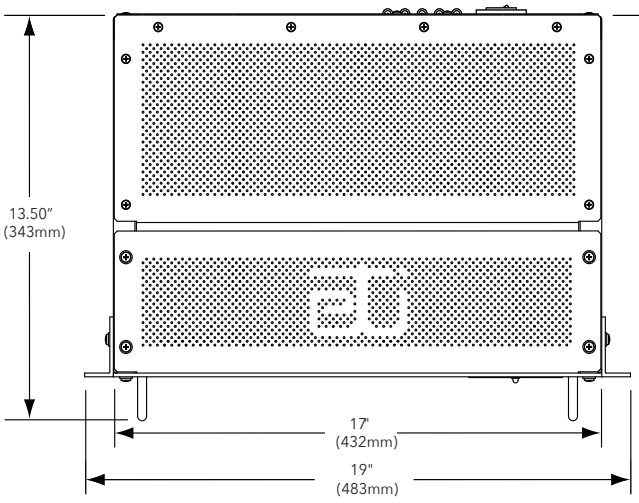
NETCOM MODEL ADH MOUNTING OPTIONS

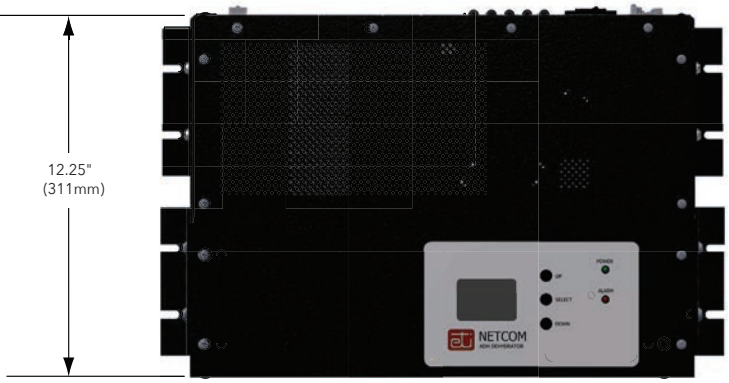
Rack Mount

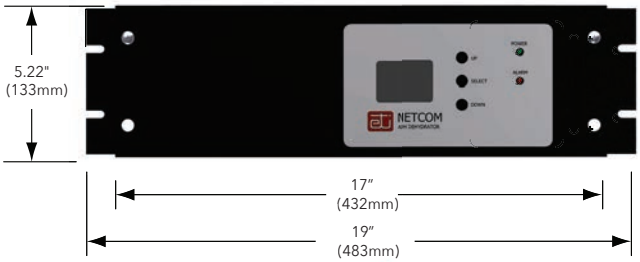


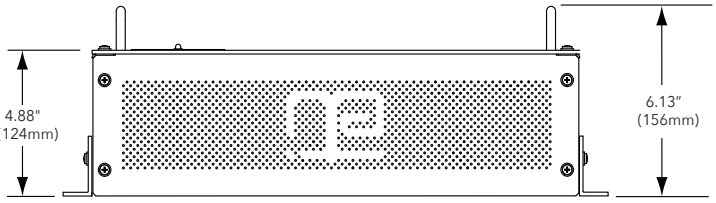
Wall Mount











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