

## DEHYDRATORS

**AUTOMATIC AIR DEHYDRATOR WITH  
ETHERNET COMMUNICATIONS**



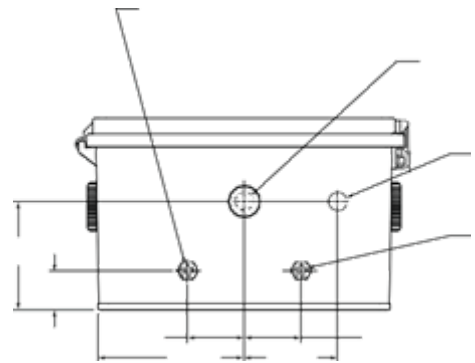
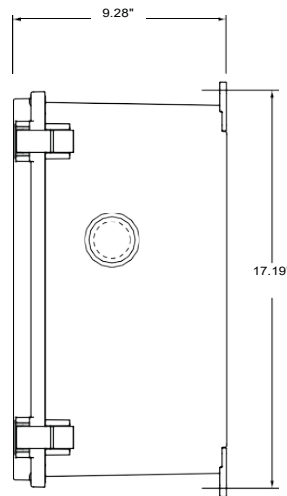
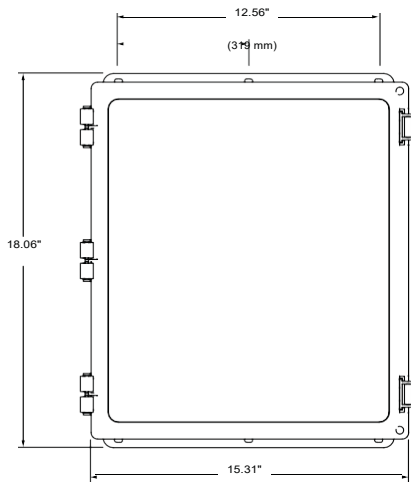
## MODEL ADH NEMA

- 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 0.10 psig to 7.50 psig (7mbar to 517mbar)
- Future-proof software based features allow updates and upgrades while in service
- Brushless dual-diaphragm compressor for long life
- 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
- Durable, light weight IP66, NEMA 4X enclosure.
- Designed to allow minimal flex without damaging enclosure or components for mobile and other high vibration applications
- Small, light weight chassis with multiple mounting options makes installation easy
- Optionally available with military style connectors
- Low energy use minimizes operational costs



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### AUTOMATIC AIR DEHYDRATOR WITH ETHERNET COMMUNICATIONS



## DESCRIPTION

The ADH NETCOM automatic dehydrator supplies low pressure dry air to keep waveguide and coaxial cable dry. Output pressure is configurable from 0.10 psig to 7.50 psig (7mbar to 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.

Communicated operational information includes

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 NEMA automatic dehydrator provides the same functionality as a standard ADH NETCOM in an environmentally sheltered IP66, NEMA 4X enclosure.

It is ideal for use with mobile satellite antenna installations and for outdoor mounting for pressurization systems localized to the antenna

pedestal. This outdoor configuration is also ideal for use in pressurization systems in remote locations such as along rail lines, pipe lines and at power distribution substations. While the NEMA enclosure keeps out moisture, the temperature control system allows operation down to  $-40^{\circ}\text{F}$  ( $-40^{\circ}\text{C}$ ). The ADH NETCOM NEMA automatic dehydrator weighs just 24 lbs (10.9 kg).



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<b>ENCLOSURE:</b>	
<b>TYPE:</b>	Hoffman® POLYPRO® Polyester Type 4X
<b>COVER ATTACHMENT:</b>	Hinged, lockable
<b>PROTECTION:</b>	IP66, NEMA 4X
<b>DIMENSIONS:</b>	15.31" × 18.06" × 9.28"
<b>ENTRIES:</b>	1 × 0.88" (22mm) entry for supply power 2 × 0.63" (16mm) entry for dry pressurized air and condensate discharge
<b>POWER:</b>	
<b>SUPPLY VOLTAGE:</b>	100-240 VAC, 50/60 Hz
<b>MAXIMUM CURRENT:</b>	2.0 amps @ 100VAC
<b>POWER USAGE:</b>	150 W max.
<b>HEAT DISSIPATION:</b>	512 BTU/hr max. @150 W
<b>CONTROL:</b>	
<b>PROTOCOLS:</b>	25.4 scfh (12 lpm)
<b>MAXIMUM PRESSURE:</b>	7.5 psig (517mbar)
<b>INTERNAL SAFETY RELIEF VALVE:</b>	8 psig (552mbar)
<b>DISCHARGE PORT</b>	1/8" NPT 3/8" OR 1/4 HOSE BARB (BOTH INCLUDED)
<b>DISPLAY UNITS:</b>	SI (millibars); English (psig), default