

Condenser-Filter Low-Pressure Dry Air

Features:

- Remote alarm capability (dry-contact)
- Differential pressure indicator
- Autodrain

Description:

Selected for the LHD 2-4 class, the Model 7300 Mk II low-pressure air dehydrator (LPAD) is designed to remove water vapor from low-pressure compressed air systems. The air delivered by this dehydrator is intended for use in control systems such as automatic combustion control, or in any low-pressure air system where it is desirable to eliminate moisture. Generally, the air delivered by this dehydrator is NOT of a quality adequate for use in electronics purging.

Moisture removal is achieved by cooling the air stream with the ship's chilled water. The cooled air releases moisture by condensation. The condensate is mechanically separated from the air stream and drained to the LPAD's trap-dump valve.

Specifications:

Designed in compliance with American Bureau of Shipping Naval Vessel Rules, 15 July 2004 Edition and to comply with all applicable Navy shock, vibration, E3, and EMI requirements.

Inlet air specifications:

- Pressure: 125 psig (860 kPa) maximum
- Temperature: 125° F (52° C) maximum*
- Humidity: 125° F (52° C) maximum pressure dew point*
- Flow: 100 scfm (3 nm³) maximum

Inlet water: 4 gpm (15.2 l/min) minimum at 45° F (7.2° C) maximum.

Outlet air specifications: Pressure drop, inlet to outlet: 5 psig (34 kPa) maximum

- Moisture content 50° F (10° C) pressure dew point
- Particle filtration: to 1 micron
- Coalescing filtration: 0.01 micron
- Oil vapor content: 5 ppm maximum

Power requirements: None.

Dimensions: 24 in (61 cm) W x 22-1/4 in (56.5 cm) deep x 46-13/32 in (118 cm) high

Weight: 226 lb (103 kg) estimated

*For higher inlet air temperature and moisture conditions, consult Howell Laboratories, Inc.

Options:

- Transition plate for Hankison Model A-100 CNS.



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