

Condenser-Filter Low-Pressure Dry Air

Features:

- Siemens PLC
- Profibus DP
- Circuit breaker
- Autodrain
- AC voltage-available lamp

Description:

Selected for the DDG 1000 class, the Model 7300 Mk I dehydrator is designed to remove water 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 LPAC'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 m³/min)

Inlet Water: 3 gpm (11.4 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
- Air Oil Content: 5 ppm maximum

Power Requirements: 115 VAC, 60 Hz, single phase, 1 ampere.

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

Weight: 244 lb (111 kg) estimated

*For higher inlet air temperature and moisture conditions, consult the OEM.

Options:

- Indicating differential pressure transducer
- Indicating inlet and outlet water temperature sensors



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