

Low-Pressure Air Membrane Dehydrator

The Model 6995 has been:

- Approved for all classes of surface combatants and amphibious ships
- Selected for new construction ARLEIGH BURKE DDG 51 class
- Selected for new construction ZUMWALT DDG 1000 class
- Approved for Surface Combatant SHIPALTS: CG47-587D; DDG51-283D; DD963-982D; FFG7-393D
- Approved for Amphibious Ship AERs:
 - LHA1 AER 26/98; LHD1 AER 18/98;
 - LPD4 AER 30/98; LSD 36 AER 16/98;
 - LSD 41 AER 21/98; LSD 49 AER 25/98;
 - LCC 19 AER 16/98; AGF 3/11 AER 05/98.

Features:

- Fits in the same "footprint" as the desiccant dryers it replaces.
- Foundation and piping adapters are provided to allow replacement of other manufacturers' dryers.
- Does not remove oxygen from the air stream; does not vent oxygen-rich purge into the space.
- Complete with instrumentation package to monitor operation.
- Purge air consumption does not increase with increasing inlet pressure *
- Electrical power is needed only for humidity monitoring, not for dehydration.

* In fact, the purge pressure is constant at 60 psig. This saves the ship's compressors from unnecessary wear and ensures minimum purge losses. ("Purge-Conserve" is U. S. patent 5,605,564).

General Description

The Model 6995 is a self-contained unit and is designed for continuous, automatic operation. Moisture is removed by passing the incoming wet air through an array of BEKO **DRYPOINT**™ membrane modules. Solid contaminants and oil aerosol are removed by mechanical filtration.

The Model 6995 is currently offered in 20 scfm (Mark I) and 30 scfm (Mark II) configurations, and can be expanded to larger capacities.

A complete suite of Integrated Condition Assessment System (ICAS) instrumentation can be provided (Mark IA), as used on DDG-89 and following. Measured parameters include air flow rate (inlet and outlet), inlet air temperature, inlet, outlet, and purge pressures, and outlet dew point.

Specifications:

Built in accordance with DDG-51 Flight IIA specification FY96-551-07A. Welded in accordance with MIL-STD-278. Fully qualified to MIL-S-901D, High Impact Shock (Grade A), and MIL-STD-167-1, Vibration (Environmental) Shipboard. ICAS units are DDG-51 specification FY96-551-07A, PSC4.

Dimensions: 36" W x 48" H x 18" D

Weight: 425 pounds

Pub. No.: ds6995 (111107)

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APL: 6995 Mark I - 440300062

6995 Mark IA: 44A030001

6995 Mark II - 440300061

Tech Manual: S9514-C7-MMA-010 (Marks I, IA & II)

Outlet Capacity:

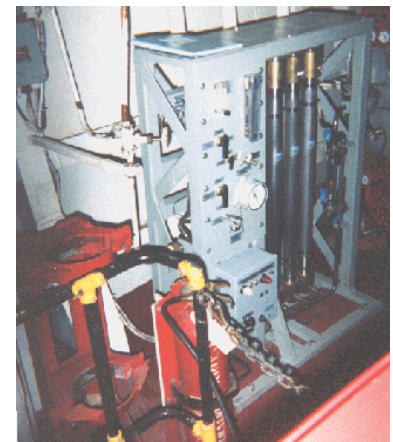
Model 6995 Marks I & IA: 20 scfm; Model 6995 Mark II: 30 scfm. Custom larger capacities available upon request. Call Engineering to discuss your specific needs.

Inlet Air Conditions (defined by specification): 80-125 psig, 50° F to 122° F, maximum pressure dew point of 60° F at 80 psig.

Outlet Air

Conditions: 70-125 psig, maximum pressure dew point of -40° F at 80 psig. Pressure not more than 10 psig below inlet.

Electrical Requirements: 115 VAC, 60 Hz, single-phase, 1 ampere (for dew point monitor only).



- in action -

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