

## Low Pressure Membrane Air Filter/Dehydrator

### General Description

The Model 7144 Membrane Filter/Dehydrator is a single, self-contained, fully automatic unit designed to remove water, oil, and solid contaminants from low pressure compressed air. This unit is intended for low-air-consumption applications such as single waveguide runs or other point-of-use requirements.

Moisture removal is achieved by passing the incoming wet air through a BEKO **DRYPOINT**™ membrane module. Unlike other membranes, the **DRYPOINT**™ does not remove oxygen from the air stream. Conversely, oxygen rich purge is not vented to the surrounding area. The **DRYPOINT**™ membrane offers the highest efficiency available, measurably better than oxygen-depleting "three-port" designs.

Solid contaminants and oil aerosol are removed by mechanical filtration.

Electrical power is required only for the humidity monitoring system. The basic dehydrator requires only pressurized inlet air to function.

Unpowered contacts for high and low pressure alarms are provided for customer use.

### Specifications

Fully qualified to Military Specification MIL-S-901D, High Impact Shock (Grade A).

**Air Capacity:** 0-180 scfh (0-3 scfm) saturated air at 90°F, 80 psig. Normally operates at 80 to 125 psig.

**Outlet Air Conditions:** 2-3 psig. Moisture Content -40° F at 80 psig (15 ppm w/w) maximum.

**Electrical Requirements:** (for humidity alarm only) 115 VAC, 60 Hz, single phase, 1 ampere.

**Dimensions:** 15"W x 6"D x 34"H

**Weight:** 35 pounds



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