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OEM Membrane Air Dryers

Offer a reliable, efficient, and economical alternative to pressure swing and refrigerant dryer technologies

Require no electricity thus lowering operating costs

Dewpoints as low as -40°F (-40°C) prevent freeze-ups

Explosion proof

Silent operation

No desiccant to change



Membrane Air Dryers

Eliminates point of use condensate discharge typical of refrigerant dryer technology Parker Membrane Air Dryers combine a superior coalescing technology with a proven, innovative membrane drying system to supply clean, dry compressed air with dewpoints as low as -40°F (-40°C). The Parker Membrane Dryers are available in 10 different models which can deliver compressed air at flow rates up to 10 SCFM with a -40°F (-40°C) dewpoint; or deliver compressed air at flow rates up to 40 SCFM with a 35°F (2°C) dewpoint. The Membrane Air Dryers are engineered for easy installation, operation, and long term reliability. The Dryers incorporate high efficiency water separation, coalescing filtration and the highest efficiency membrane available to provide low cost operation and minimal maintenance.

State-of-the-Art Membrane Technology

Water vapor from the compressed air supply passes through the hollow fibers of the membrane. At the same time, a small portion of the dry air product is redirected along the length of the fibers to sweep out the water vapor which has permeated the membrane. The moisture-laden sweep gas is then vented to the atmosphere, and clean, dry air is supplied to the application. The drying power of the membrane is controlled by varying the compressed air flow rate and pressure. The Parker Membrane Air Dryer is designed to operate continuously, 24 hours per day, 7 days per week. The only maintenance required is changing the prefilter cartridge once a year. This annual maintenance takes approximately 5 minutes.

BALSTON® Parker Hannifin Corporation
Filtration and Separation Division
Balston Products
Haverhill, MA, 01835-0723
1-800-343-4048 or 1-978-858-0505 · Fax: 978-556-7501

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OEM Membrane Air Dryers

Applications

Low dewpoint instrument air

Pneumatic equipment

Purging electronic cabinets

Analytical instrumentation

Prevention of freeze-ups

Dry air for hazardous areas

General laboratory air supply

Air bearings

Electrostatic painting

Dental air

Laser and optical purge

Purge moisture sensitive coatings and adhesives