

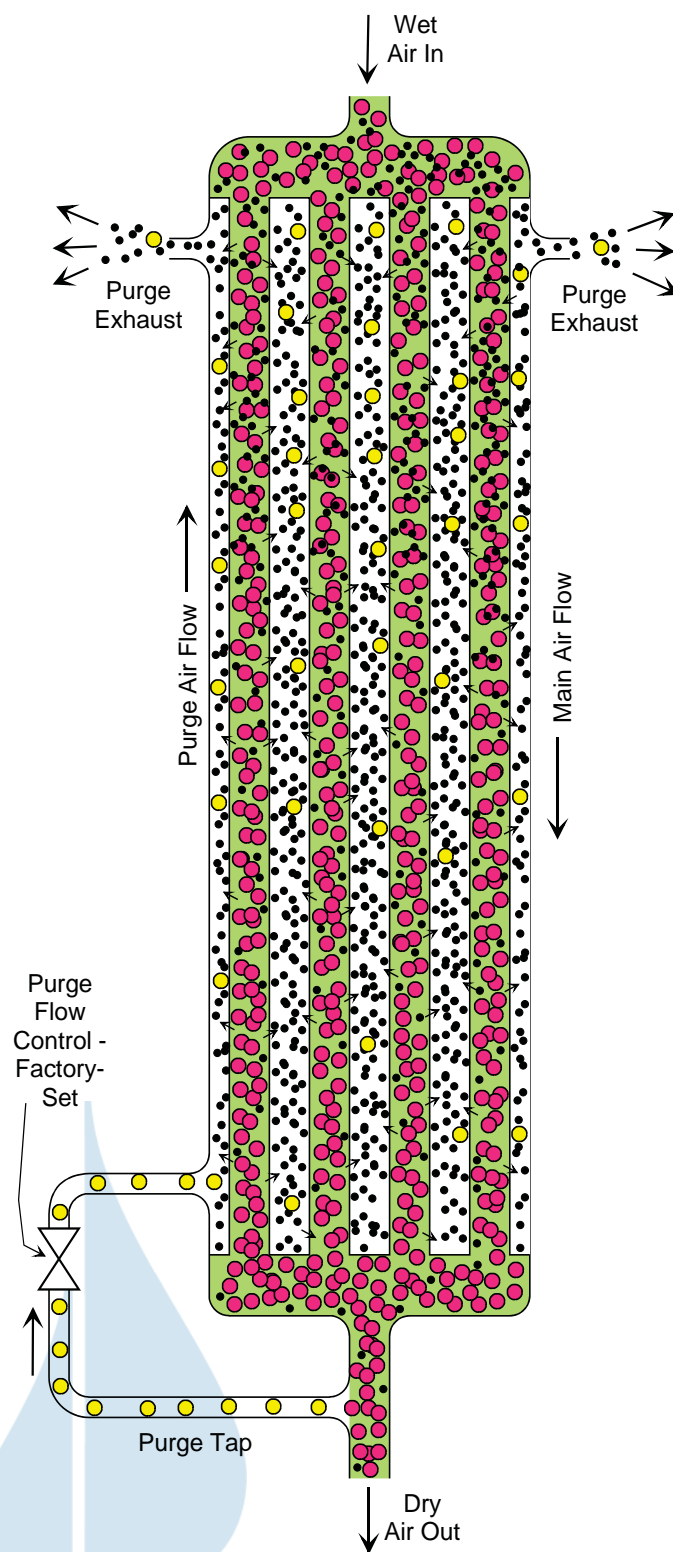
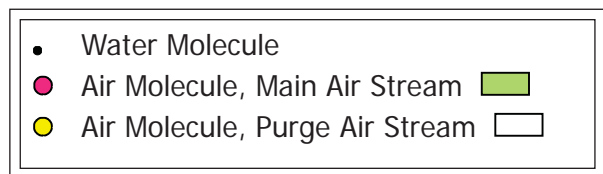
Membrane Function

Howell Laboratories, Inc. Low-Pressure Air Dehydration Membrane Function

1. Virtually no air (nitrogen & oxygen) molecules ● escape through the membrane walls.
2. Water molecules ● escape easily through the membrane walls into the purge space.
3. Water vapor pressure differential between the main air stream and the purge space pushes water molecules through the membrane walls.
4. Dry air purge ● removes water molecules from the purge space, maintaining the vapor pressure differential and keeping the process going.

NOTE

Higher inlet pressure yields lower dew point.
Higher outlet flow yields higher dew point.
Higher purge flow yields lower dew point.



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