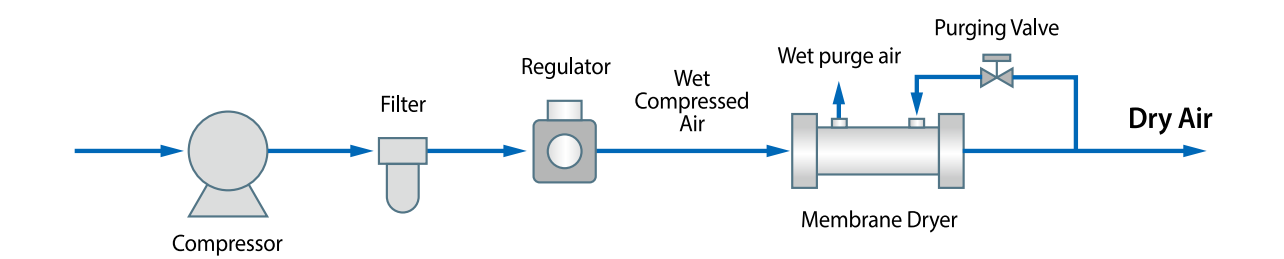


Meritair® Dehumidification Membrane

Schematic Diagram



Water is essential to life, but water vapor in air can be damaging to many facilities and processes. From pharmaceutical plants to electronical and chemical manufacturing, food and beverage production and medical equipment, the need for dehumidification is almost universal across all industries. Membrane separation is widely employed as a drying method of choice for its versatility and economic efficiency. Able to cover a broad range of varying conditions and requirements, membrane technology is fit to be your first option for dehumidification.

Key Applications

Low-dewpoint instrument

Drying powder products

Pneumatic Equipment

Dehumidification for Semi-conductor production

Pressurization for electronic cabinets

Dehumidified compressed air for Painting Process

Scientific research equipment & Analytical process

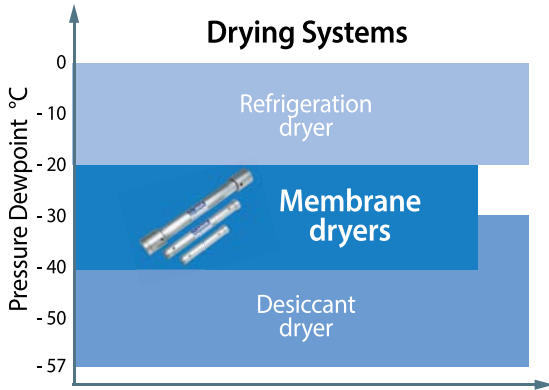
Medical equipment

AIRRANE Product Specifications

Model Number	Dimension (mm)			Connection (inch)			Weight
	L	OD	ID	Feed	Retentate	Permeate	
MMD-1307A	214	45	40	1/4"	1/4"	1/4"	0.4kg
MMD-1512A	359	55	50	1/2"	1/2"	1/4"	0.9kg
MMD-1522A	589	55	50	1/2"	1/2"	1/4"	1.3kg
MMD-2022A	590	70	60	1/2"	1/2"	3/8"	1.9kg
MMD-3032A	856	110	81	1"	1"	1/2"	6.0kg

Why Membrane for Dehumidification?

- Easy and versatile installation in all positions
- Immediate operation without any lag time
- Low energy consumption without additional power supply
- Uninterrupted operation cycle
- Eco-friendly process without CFCs/FCs
- Minimal maintenance requirement



Technology Comparison

Method	Desiccant	Refrigeration	Membrane
Dehumidifying Performance	High	Low	Mid-High
Dew Point	-30 – -57°C	0 – -20°C	-20 – -40°C
Installation Area	Large	Large	Small
Maintenance Requirement	Middle	Middle	Easy
Device Size	Small - Large	Small - Large	Small - Middle
Components	Tower / Tank / Heat Exchanger	Refrigerant / Condenser / Heat Exchanger	Separation Membrane / Filter

