



The compressed air, saturated with water vapor, flows through a bundle of **GENERON®** hollow-fibers. The membrane fibers allow water vapor to pass. The air stays in the membrane fibers and is discharged as dry product. A fraction of the dry air is redirected internally to sweep the permeated water vapor as a gas out of the module.

Thanks to our advanced fiber technology and state-of-the-art module fabrication and our patented ejector technology, Generon Membrane Dryers perform with the lowest purge air loss for the highest possible efficiency – saving you time and money in your production process.

Features & Benefits

Advantages of GENERON® Membrane Dryers

- Lowest purge loss in the industry (greater than 10% power savings compared to closest competitor)
- Designed for the harshest environments
- Custom design and installation
- Low Pressure Drop, 2 to 3 psig
- No moving parts
- Adjustable dew point to -70°F (-56°C)
- Service-free
- No dust from desiccants and no post-filters required to protect your application
- No regulatory requirements
- Prevent corrosion in instruments and piping
- Increase tool efficiency
- Increase product quality
- Reduce equipment maintenance

Use GENERON® GMD MEMBRANE DRYERS.....and NOT REFRIGERATED DRYERS...

- ... where pressure dew points are to be < 32°F (0°C)
- ... where maintenance shall be eliminated
- ... where space is limited
- ... where no power is available
- ... where simplicity is preferred
- ... where vibrations are present
- ... where air or gas pressures are > 100 psig (6.9 barg)
- ... where air or gas or ambient temperatures are > 70°F (21°C)

GENERON® GMD Membrane Dryers perform where other Technologies won't

- Where no power is available
- In classified hazardous areas
- In corrosive environments
- In fluctuating and high temperatures
- If noise can create a problem

Operating Conditions	
Max Pressure	203 psig (14 barg)
Temperature (Min /Max)	40 °F (4.4 °C) / 149 °F (65 °C)
Max Relative Humidity	100% (no liquid water)
Max Particle Size	0.01 micron

Mechanical Description	
Outer Diameter	2.125 inch (54 mm)
Length	27 inch (686 mm)
Weight	3 lbs (1.4 kg)
Case Material	6061-T6 Aluminum

GENERON® MEMBRANE MODULES - Model 210GMD

Tom Jeffers, President and CEO of IGS:

"In any application it is most economical to only dry the portion of your compressed air that you actually use in your application, and to make it only as dry as you actually need it to be. Thus GENERON Membrane Dryers are best satisfying your requirements. The dried compressed air is available immediately and reliable."

Sizing for your Application

Table 1 shows dry air flow rates for one GMD membrane model at desired dry air pressure dew points. The influence of the moisture saturated air inlet temperature is given as well.

To match your required dryer capacity, use multiples of one or different GMD modules and simply add up the given flow rates.

Table 2 shows the influence of a higher operating pressure on the flow rates. Simply multiply the feed air and dry air flow rates of Table 1 with the performance factors from Table 2.

For flow rates at other pressures please consult your Generon representative.

Feed Temperature		40°F		60°F		80°F		100°F		120°F	
		Feed Flow [SCFM]	Dry Flow [SCFM]	Feed Flow [SCFM]	Dry Flow [SCFM]	Feed Flow [SCFM]	Dry Flow [SCFM]	Feed Flow [SCFM]	Dry Flow [SCFM]	Feed Flow [SCFM]	Dry Flow [SCFM]
Outlet Dew Point (at Pressure)	40°F	-	-	5.4	4.9	4.0	3.6	3.2	2.8	2.7	2.2
	20°F	4.5	4.0	3.5	3.0	2.9	2.4	2.4	2.0	2.1	1.7
	0°F	3.1	2.6	2.6	2.1	2.2	1.8	2.0	1.5	1.7	1.3
	-20°F	2.4	1.9	2.1	1.6	1.8	1.4	1.6	1.2	1.5	1.0
	-40°F	1.9	1.5	1.7	1.3	1.5	1.1	1.4	1.0	1.3	0.8

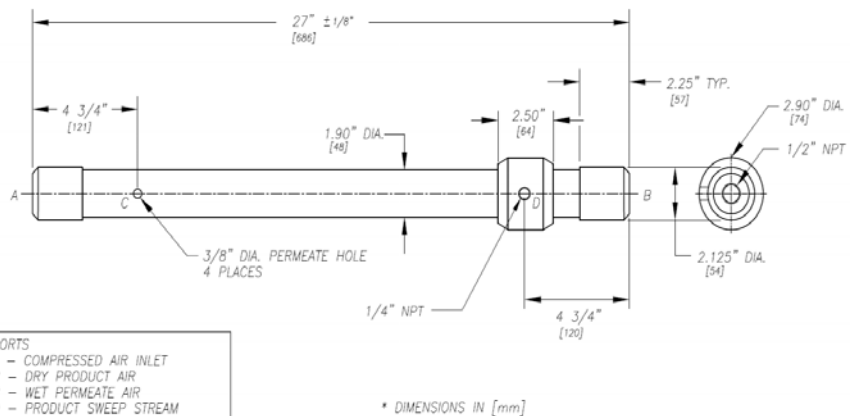
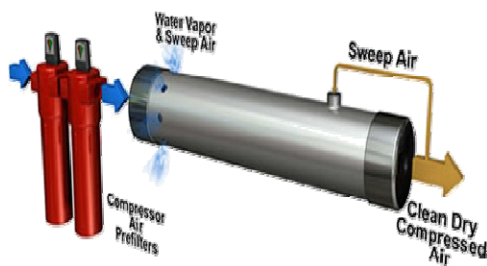
All GMD Modules	Dry Air Dew Point @ Pressure	125 PSIG		150 PSIG		200 PSIG	
		Feed Air	Dry Air	Feed Air	Dry Air	Feed Air	Dry Air
	40°F	1.47	1.50	2.08	2.15	4.09	4.37
	20°F	1.40	1.42	1.87	1.92	3.08	3.27
	0°F	1.36	1.38	1.76	1.80	2.69	2.83
	-20°F	1.34	1.35	1.70	1.73	2.48	2.58
	-40°F	1.32	1.33	1.65	1.68	2.35	2.42

1. Seal connections with Teflon Tape or Formula 8 Thread Sealant only.
2. Performance after 1 year (9,000 hours) of continuous operation

Pre-Filtration

In normal operating conditions the GMD membrane modules need to be connected directly to one (1) HVM coalescing filter. More filtration is not required but will extend the membrane life-time where highly contaminated feed air is present. Ask your Generon representative for additional information.

Table 2: Performance Factors @100 °F Inlet Temp.



GENERON www.generon.com

16250 Tomball Parkway

Houston, Texas 77086

O +1 713 937 5200

F +1 713 937 5250

GENERON

