NORGREN

OBSOLETE DOCUMENT Technical Reference Only

W07M, W72M, W74M

W Series
Membrane Water Vapor Removal Filter
1/4" and 1/2" Port Sizes

- **Removes water vapor from compressed air**
- **Provides dewpoint suppression up to 44°C or 80°F below the ambient temperature, depending on air flow through the membrane**
- **Dewpoint suppression of 11°C or 20°F below the ambient temperature is suitable for most industrial applications.**
- **W72 and W74 utilize the EXCELON® Quikclamp™ design to provide in-line or modular installation with 72, 73 and 74 Series products.**
- **W07 available for in-line installation only**
- **Easy installation, no power required**
- **Maintenance free with proper prefiltration**
- **Minimal pressure drop**

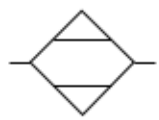
Technical Data

Fluid: Compressed air, prefiltered to 0,01 micron and oil free (ISO 8573-1, class 1. _ .1)
Maximum pressure: 10 bar (150 psig)
Operating temperature: -20 to 80°C (0 to 175°F)*
* Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).
Nominal flow at 7 bar (100 psig) inlet pressure, 38°C (100°F) ambient temperature, and a dew point suppression of 11°C or 20°F. Flow demand affects dew point suppression.
Model W07M-2GN-NNA: 1,00 dm^3/s (2 scfm)
Model W72M-2GN-NNB: 2,40 dm^3/s (5 scfm)
Model W72M-2GN-NNC: 4,75 dm^3/s (10 scfm)
Model W74M-4GN-NND: 9,50 dm^3/s (20 scfm)
Model W74M-4GN-NNE: 14,20 dm^3/s (30 scfm)
Required prefilter: General purpose filter (5 micron element) and an oil removal filter (0,01 micron particle removal) with equivalent pipe size and flow capacity equal to or greater than the membrane air dryer.
Materials:
Body and end caps: Anodized aluminum
Membrane: Polymeric materials

Ordering Information

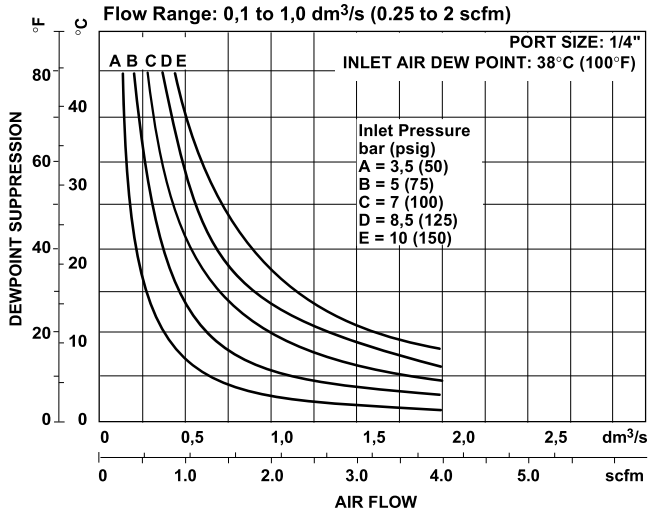
See *Ordering Information* on the following pages.

ISO Symbol

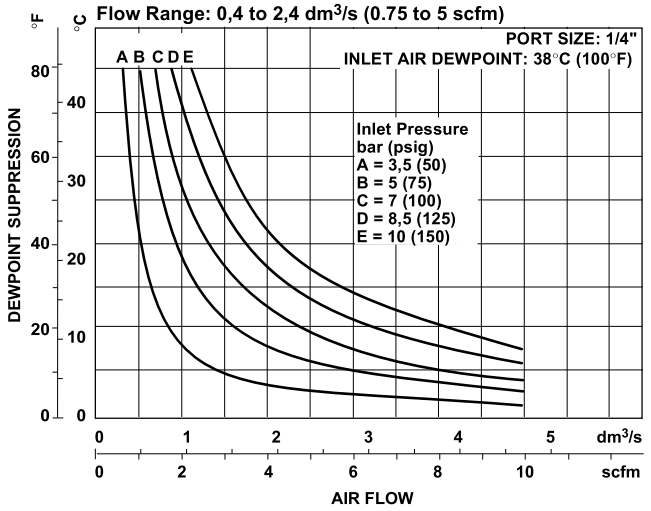


Typical Dew Point Suppression Characteristics

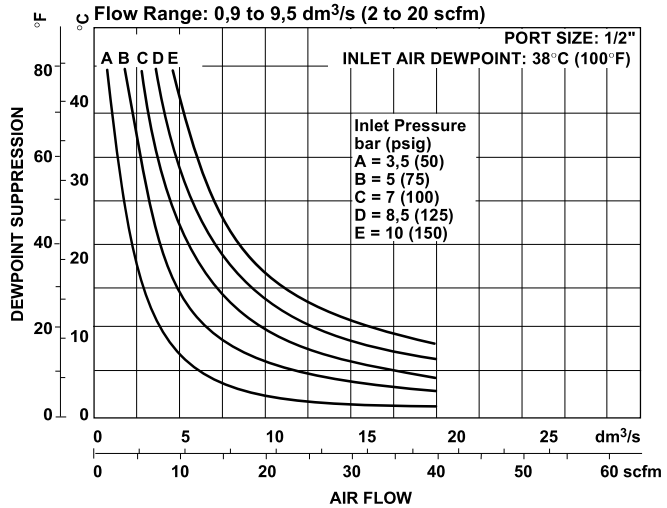
Membrane Filter Model W07M-2GN-NNA
Flow Range: 0,1 to 1,0 dm³/s (0.25 to 2 scfm)



Membrane Filter Model W72M-2GN-NNB
Flow Range: 0,4 to 2,4 dm³/s (0.75 to 5 scfm)



Membrane Filter Model W74M-4GN-NND
Flow Range: 0,9 to 9,5 dm³/s (2 to 20 scfm)



How to Size a Membrane Filter

I. Enter the application requirements below:

- Maximum air flow required: _____
- Inlet pressure: _____
- Dewpoint suppression required:* _____

2. Select a chart by matching the maximum air flow required to the flow range in the chart title.

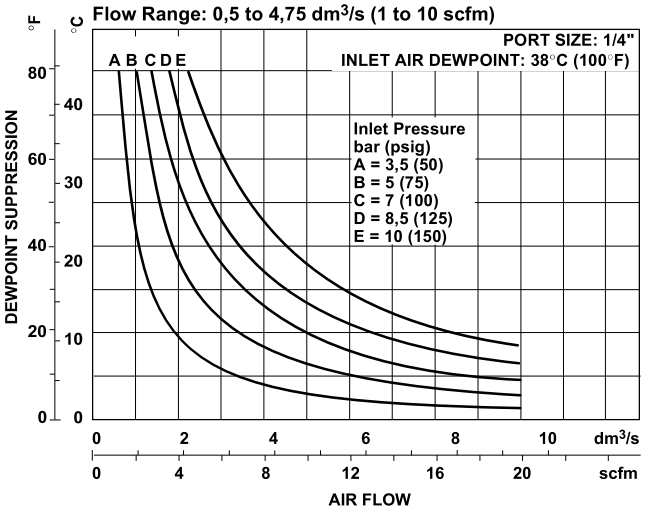
3. Follow the appropriate inlet pressure curve downward until it crosses the maximum air flow required. Trace a horizontal line to the *DEWPOINT SUPPRESSION* axis and note the degrees of suppression.
Degrees Of Suppression: _____

4. If the degrees of suppression is less than the application requirement, check the membrane filter with the next higher flow range. The inlet pressure of the smaller membrane filter may also be increased to provide greater suppression.

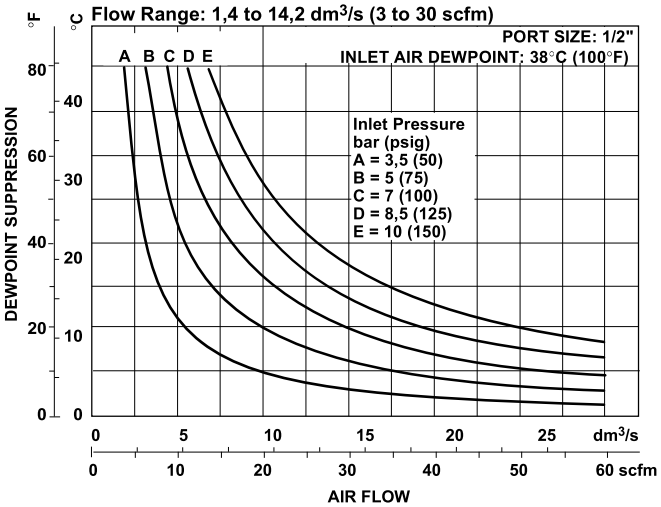
5. If the degrees of suppression is greater than the application requirement, check the membrane filter with next smaller maximum flow.

* Typically, a dewpoint suppression of 11°C or 20°F below the ambient temperature provides dry air suitable for most industrial applications.

Membrane Filter Model W72M-2GN-NNC
Flow Range: 0,5 to 4,75 dm³/s (1 to 10 scfm)



Membrane Filter Model W74M-4GN-NNE
Flow Range: 1,4 to 14,2 dm³/s (3 to 30 scfm)



Ordering Information. Models listed include ISO G parallel threads.

Port Size	Model	Nominal Flow* dm³/s (scfm) Outlet	Inlet	Differential Pressure ** bar (psid)	Weight kg (lb)
G1/4	W07M-2GN-NNA	1,00 (2)	1,06 (2.2)	0,028 (0.40)	0,39 (0.88)
G1/4	W72M-2GN-NNB	2,40 (5)	2,65 (5.6)	0,023 (0.32)	0,82 (1.80)
G1/4	W72M-2GN-NNC	4,75 (10)	5,27 (11.2)	0,062 (0.90)	0,84 (1.86)
G1/2	W74M-4GN-NND	9,50 (20)	10,47 (22.2)	0,045 (0.65)	1,60 (3.53)
G1/2	W74M-4GN-NNE	14,20 (30)	15,76 (33.4)	0,093 (1.35)	1,79 (3.94)

* Maximum flow with 11°C or 20°F dewpoint suppression.

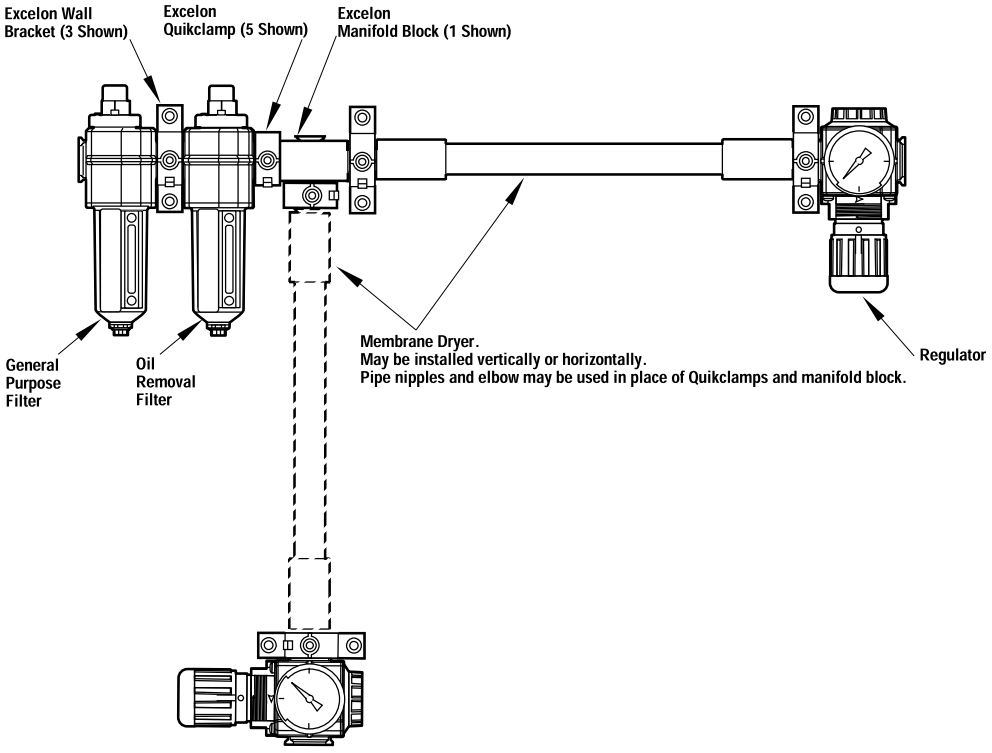
** Differential pressure at 7 bar (100 psig) inlet pressure at stated flows.

Alternative Models

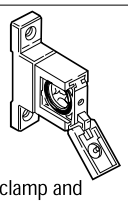
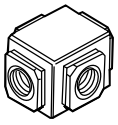
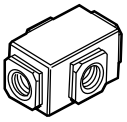
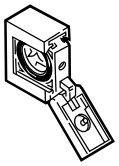
W ★ ★ M - ★ ★ N - N ★ ★

Threads	Substitute
NPT	A
ISO G parallel	G

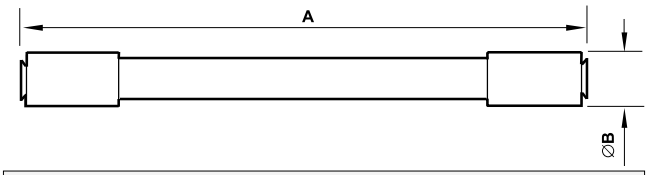
Typical Installation. W72 and W74 membrane dryer shown with Excelon products, Quikclamps and manifold block. W07 installation uses pipe fittings in place of Quikclamps and manifold block.



W72, W74 Accessories

 Quikclamp and Wall Bracket	 W72 Manifold Block	 W74 Manifold Block	 Quikclamp with o-rings
W72 4214-52	3/8" PTF 4228-01	3/4" PTF 4328-51	W72 4214-51
W74 4314-52	3/8" ISO Rc 4228-02	3/4" ISO Rc 4328-52	W74 4314-51
	3/8" ISO G 4228-03	3/4" ISO G 4328-53	

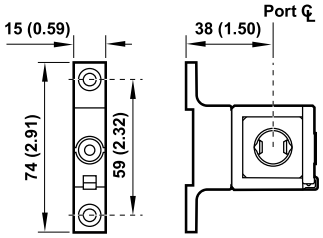
Dimensions mm (inches)



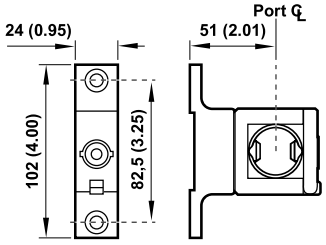
Model	Dimension A	Diameter B
W07M-2GN-NNA	406 (16.0)	30 (1.18)
W72M-2GN-NNB	457 (18.0)	44 (1.74)
W72M-2GN-NNC	483 (19.0)	44 (1.74)
W74M-4GN-NND	533 (21.0)	63 (2.49)
W74M-4GN-NNE	660 (26.0)	63 (2.49)

Quikclamp and Quikclamp Wall Bracket

4214-52 - For use with W72
Use 5 mm (3/16″) screws to mount bracket to wall.

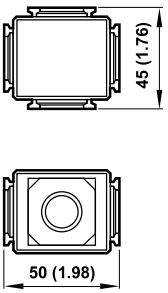


4314-52 - For use with W74
Use 6 mm (7/32″) screws to mount bracket to wall.

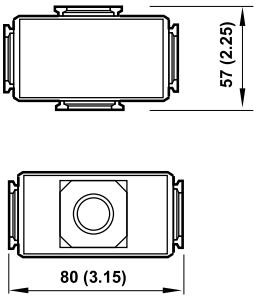


Manifold Blocks

4228-01/03 - For use with W72



4328-51-53 - For use with W74



Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where *pressures* and *temperatures* can exceed those listed under **'Technical Data'**.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult Norgren.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.