



## Instant Results

Our exclusive membrane technology, manufactured by BEKO Technologies, achieves the desired pressure dew point in 10-minutes or less.



## Reliability

Using advanced manufacturing techniques together with housings similar to our filtration line, DRYPOINT MD is designed to perform in the toughest environments.



## Maintenance Free

Membrane air dryers have no moving parts and require no electricity (excluding MDi models) making them maintenance free and ideal for mobile applications.



## Twist 45

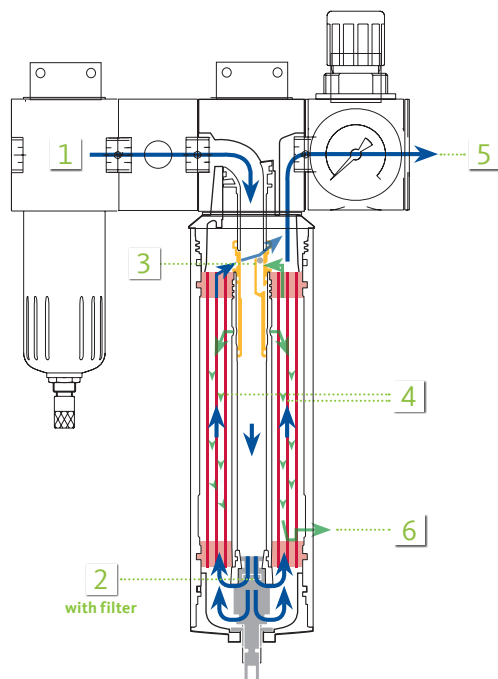
Twist 45 technology provides the highest possible membrane performance by layering the individual membrane fibers at a 45° angle.



## Flexible Design

With a small footprint and modular design, you can easily alter dew point, flow rate capacity, or both with a single component change.

## How it Works



1. The compressed air flows into the core tube of the membrane dryer.
2. In the filter element, it is diverted; filtered compressed air enters the hollow fibers of the membrane element.
3. The purge air required for drying is continuously diverted in the outlet zone of the membrane element and is atmospherically expanded through a defined nozzle opening. This purge air is significantly drier due to the expansion, as the humidity contained in the compressed air is now distributed to a multiple of volume. The dry purge air is led via the outside of the membrane fibers.
4. Two air flows with different moisture contents move in a reverse current through the membrane element, only separated by the membrane wall. The humid compressed air flows inside the hollow fiber membranes, and the dry purge air flows outside. As a result of the different moisture contents, the humidity diffuses from the compressed air into the purge air. The drying process is highly efficient thanks to the controlled winding of the membrane fibers, the TWIST 45 technology.
5. The dry compressed air leaves the membrane element.
6. The humid purge air is released into the environment.

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YouTube

## DRYPOINT® FDR Membrane Dryers

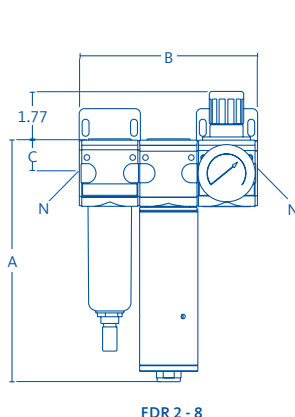
pre-configured filter, dryer and pressure regulator packages

- › Pre-configured FDR packages include all required filtration
- › Custom configurations available to suit application
- › Min. ambient air temperature: 34 °F
- › Max. standard operating temperature: 130 °F
- › Max. standard operating pressure: 140 psig
- › Max. optional operating temperature: 160 °F
- › Max. optional operating pressure: 232 psig

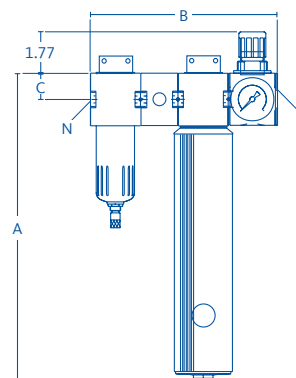
Micro-Filter	
Medium	Compressed Air
Connection Size	1/4" NPT
Drain Type	Automatic Float
Filtration Grade	0.01 µm
Particle Separation	0.01 µm
Residual Oil Content	0.01 mg/m³
Operating Pressure	21 to 232 psig
Temperature range	32°F to 140°F

Membrane Dryer	
Medium	Compressed Air
Connection Size	1/4" NPT
Differential Pressure	1.45 to 4.35 psid
Max. Standard Operating Conditions	140°F / 100 psig
Max. Optional Operating Conditions	120°F / 180 psig
Minimum Ambient Air Temperature	34°F

Regulator	
Medium	Compressed Air
Connection Size	1/4" NPT
Max. Supply Pressure	232 psig
Temperature range	32°F to 140°F



FDR 2 - 8



FDR 10 - 17

DRYPOINT® FDR	FDR 2	FDR 4	FDR 6	FDR 8	FDR 10	FDR 12	FDR 17
Connection Size (NPT)	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Inlet Flow Rate (scfm)	2.09	4.18	6.27	8.36	11.34	12.55	16.73
<b>Dimensions and Weight</b>							
A x B x C (inches)	7.48 x 5.51 x 1.06	9.44 x 5.51 x 1.06	11.02 x 5.51 x 1.06	13.38 x 5.51 x 1.06	13.38 x 6.88 x 1.06	16.14 x 6.88 x 1.06	18.50 x 6.88 x 1.06
Weight (lbs)	2.97	3.15	3.30	3.50	6.39	6.83	7.27



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