

defender™ SWC

Membrane Air Dryer



Applications

- › Point of use compressed air drying
 - › Upstream of pneumatic instrumentation
 - › Hazardous areas

Benefits

- › Achieves low dew points
- › High water vapor selectivity
- › No desiccant or refrigerants required
- › Installation in tightly spaced cabinets
- › No external supply of purge gas required
- › No electricity or drain required
- › Maintenance free operation
- › Corrosion resistant

Features

- › Non porous, chemically resistant hollow fiber membrane
- › Compact cartridge design
- › Integrated, adjustable self purging orifice
- › No moving parts

Quick Study

Defender™ Membrane Gas Dryers utilize non porous, hollow fiber membrane tubes made of Flemion™ to continuously remove water vapor from compressed air or sample gas, significantly lowering the water dew point and reducing the potential for moisture damage to analyzers and instrumentation. The drying process is accomplished by flowing wet air/gas through the inside of the hollow fiber membrane tubes where water vapor molecules will permeate through the wall of the membrane. The permeated water vapor molecules evaporate and are then swept away by purge gas flowing counter current over the outside of the membrane tubes. These dryers have the capability to lower the dew point of the supply gas. The effectiveness of the dryer will be directly related to the supply gas pressure and its dew point temperature, as well as the operating temperature of the dryer. There are three series of Defender™ Membrane Dryers: SWB™ Series, SWC™ Series, and SWG™ Series .

The SWC™ Series are cassette type membrane dryers designed exclusively for point of use compressed air applications. There are three models in the SWC™ Series that can accommodate flow rates up to 450 L/min. They have a built in, adjustable purge orifice and their compact design makes them suitable for use in tightly spaced cabinets. In order to protect the membrane dryer from solid and liquid contaminants, a prefilter (also available from A+ Corporation) should be installed on the inlet side of the dryer.

Technical Specifications

Operating pressure range:	Supply gas: 0-120 PSIG
Operating Temperature range*	Supply fluid temperature (Tin): -4 to 131°F Ambient temperature (Tamb): -4 to 131°F <small>*We recommend operating at lower Tin value and within (Tin-Tamb) ≤ 41°F range</small>
Supply Gas Flow Rate*	D40-SWC-01-150: 150 L/min D60-SWC-02-250: 300 L/min D60-SWC-03-250: 450 L/min <small>*Maximum flow results in approximately 5 psi membrane differential pressure.</small>

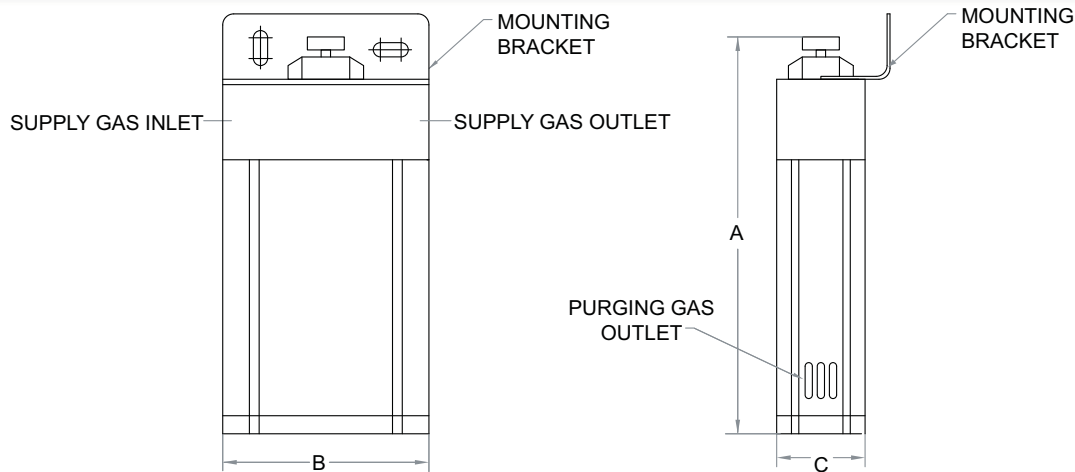


Model Numbering & Additional Part Numbers

Your model number is determined by your specific needs. Choose options below.

Model Number	Supply Gas Inlet/Outlet NPT	Purging Gas Inlet/Outlet	Compressed Air Flow Rate (L/min)	Materials of construction
D40-SWC-01-150	1/4"	N/A (built in purging circuit)	~150	head and casing aluminum
D60-SWC-02-250	3/8"		~300	head - aluminum casing - polycarbonate
D60-SWC-03-250	3/8"		~450	head - aluminum casing - polycarbonate

Dimensions



Model Number	A (inches)	B (inches)	C (inches)
D40-SWC-01-150	6.5 (5.9 without mounting bracket)	2.8	1.6
D60-SWC-02-250	8.5 (7.9 without mounting bracket)	3.9	2.0
D60-SWC-03-250	8.5 (7.9 without mounting bracket)	3.9	2.0

Local Distributor:

Manufacturer

A+ Corporation, LLC

41041 Black Bayou Road

Gonzales, LA 70737

Call for expert product application assistance:

Phone: (225)-644-5255 Website: www.geniefilters.com

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