

Donaldson® cyclone water separators are designed for removal of liquid water and particulate from compressed air and gases.

Donaldson cyclone water separators are available in two sizes, depending on the flow rate. The AG-Z is a three-piece aluminum housing that includes swirl vanes allowing for efficient liquid removal with low pressure drop. The AG-Z is available in two housing sizes for flows up to 1,400 scfm.

HOW IT WORKS

The swirl vanes force the compressed air to change direction and swirl. During this swirling action, water and oil droplets cannot remain entrained in the compressed air stream because they are too heavy. The dry, compressed air exits through the center of the AG-Z while the previously aerosolized droplets are collected in the bottom of the housing to be drained away.



SPECIFICATIONS

MATERIALS	
Filter Housing	Aluminum
Surface Finish	Polyester powder coating
Timer - Drain UF-Z	Brass
Housing Gasket	Buna

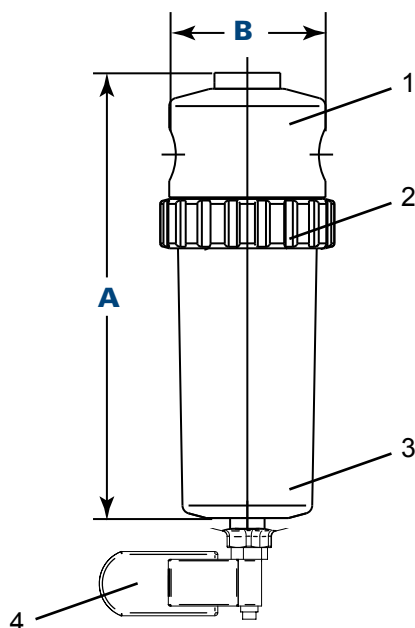
DESIGN PRESSURE AND TEMPERATURE	
Minimum/Maximum Design Temperature	34°F/150°F
Design Pressure	250 psig

RETENTION RATE	
99% for particles $\geq 10 \mu\text{m}$	

CAPACITY CORRECTION FACTORS

Operating Pressure (psig)	15	30	45	60	75	90	100	115	130	150	175	200	220	230
Correction Factor	0.26	0.39	0.52	0.65	0.78	0.91	1.00	1.13	1.27	1.44	1.66	1.87	2.09	2.31

DIMENSIONS



AG-Z Standard

No.	Description
1	Upper housing bowl
2	Screw locking ring
3	Lower housing bowl
4	Drain - UF-Z timer drain

Model	Capacity ¹ (scfm)	Connection (FNPT)	Dimensions (inches)			Weight (lbs)
			Height A	Width B	Conn. Height	
AG-Z 0144	900	2½"	25	8	22	19.8
AG-Z 0192	1,400	3"	25	8	22	19.6

¹ Capacity based on 100 psig inlet pressure; 14.7 psia, 68°F ambient conditions, and 1" psid.

Important Notice

Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, specifications, availability and data are subject to change without notice, and may vary by region or country.



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F117038 (05/17) ENG AG-Z Series Cyclone Water Separators

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