

Prefilter

Superplus



Member of



Ultradri cyclone separators

AG-Z water separators are designed for compressed air or technical gases in industrial applications.

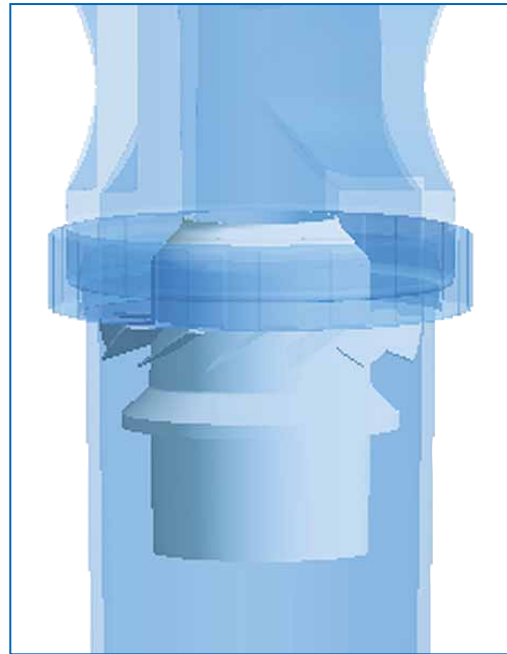
The three-part filter housings with swirl vanes offer low differential pressures at high flow rates. In this product series are 14 different housings available ranging from a volume flow of 70 to 8,600 cfm.

How do ultradri work?

Upon inlet the compressed air is guided over swirl vanes which direct the compressed air to the housing. Liquid aerosols and particles flow down the filter housing and are drained out of the filter housing.



The conical form of the lower filter bowl is designed to eliminate aerosol carry-over. The turbulent free zone in the lower filter part of the filter housings prevents that condensate is carried over from the wet area to the clean air.



AG-Z superplus SG-Z superplus

The cyclone separators of the superplus versions are equipped with an electronically, level controlled condensate drain ultramat superplus.

The condensate drain without losses of compressed air guarantees a secure and economical drainage of condensate.

The sizing of the condensate drains matches perfectly the volume flows and guarantees secure drainage even with higher condensate volumes.

The first line of purification – ultrafilter Demister

Demister have a wide range of applications in compressed air purification. The demister not only eliminates oil and particles, but additionally liquids.

The demister was designed to purify compressed air and oil, water and particles in the first purification line. The efficiency of the demister is independent from the operating pressure.

The purification is made in three steps.



How does a demister work?

The first separation is made by gravity. Liquids and fluids are collected at the bottom of the filter housing. A special demister sieve is used in the second purification line and eliminates medium sized particles and liquid aerosols which will be lead to the bottom of the filter housing. In the third stage, the purified air goes through specially treated ceramic elements, designed to remove the finest liquid and solid particles as small as 1 micron.

Due to treatment of the ceramic element, oil and water are repelled by the surface, leading to a low pressure drop.

The ultrafilter demisters are equipped with an electronically, level-controlled drain ultramat superplus.

The Ultramat drains without losses of compressed air and guarantees a secure and economical drainage of condensate.

The size of the ultramat superplus is suited to the capacity of the demister and guarantees secure function even with high loads of condensate.



Technical Data Cyclone Separator and Demister

type	capacity at 100 psig pressure cfm Δp 1 psi	connection NPT		dimensions in inches*			weight* lb.
		inlet	outlet	height	width	connection height	
AG-Z							
0009	70	1/2"	1/2"	10	3	8	2,4
0018	125	3/4"	3/4"	11	4	9	3,5
0027	200	1"	1"	14	4	11	4,2
0036	300	1 1/4"	1 1/4"	14	4	11	4,2
0048	450	1 1/2"	1 1/2"	19	6	16	11,4
0072	600	2"	2"	19	6	16	13,6
0144	900	2 1/2"	2 1/2"	23	7	20	19,8
0192	1400	3"	3"	23	7	20	19,6

type	capacity at 100 psig pressure cfm Δp 1 psi	connection ANSI-flange		dimensions in inches*			weight* lb.
		inlet	outlet	height	width	connection height	
SG-Z							
0192	900	3"	3"	27	27	20	53
0672	1600	5"	5"	33	33	25	106
0768	3000	6"	6"	39	39	30	154

type	capacity at 100 psig cfm ¹⁾	connection NPT/ ANSI-flange	height	dimensions in inches*			diameter	weight lb	element	
				width	connect. height	clear- ance			size	no.
UFD										
0020	20	1/2" NPT	17	6	5	6	4	31	38/260	1
0050	50	3/4" NPT	22	6	5	12	4	40	38/260	1

0100	100	1" NPT	26	8	6	12	6	62	38/260	2
0200	200	1 1/2" NPT	29	9	8	12	7	88	38/260	4

0500	500	2" NPT	31	11	9	12	9	141	38/260	10
1000	1000	2 1/2" NPT	33	17	10	12	11	176	38/260	18

1600	1600	4" ANSI	66	28	19	31	16	440	110/750	6
3000	3000	6" ANSI	75	34	23	31	22	858	110/750	10
5000	5000	8" ANSI	82	38	27	31	26	1,640	110/750	18

¹⁾ cfm at 14.5 psi, 68°F

* dimensions and weights refer to housings, without drain.

The retention rate of the demister refers to 99% for particles > 1 µm, and an operating pressure of 100 psig.

Max. operating pressure 150 and 250 psig.

All standard-housings are without econometer / economizer and condensate drain.

All superplus-housings are equipped with the electronically, level-controlled condensate drain ultramat superplus.

Subject to change without prior notice.

Product range:

Cyclone Separator:	70 – 8,600 cfm
High-capacity filters:	3 – 16,000 cfm
Compressed air fridge dryer:	5 – 7,400 cfm
Adsorption dryer:	
– ultrapac 2000	3 – 60 cfm
– ultrapac classic	3 – 5,000 cfm
– oilfreepac	3 – 5,000 cfm
Condensate Management:	
– ultramat condensate drains	
– ultrasep superplus UFS-SP	75 – 4,000 cfm

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