

Airstream

Filtration

Product Catalogue

Inline Filters/Water Separators



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Innovative Compressed Air Solutions

Inline Filters and Elements

Coalescing Filters - AO (pre) and AA (post)

Coalescing filters are probably the most important items of purification requirements in a compressed air system, which are designed not only to filter oil vapor and water, but also to filter solid particles to an acceptable level as small as 0.01 micron in size.

Usually, in the installation system, the first filter's purpose is to pre-filter, protect the high efficiency filters from bulk contamination to provide

high quality compressed air. If the filters worked under damp or full of water adsorption conditions, it would prevent the compressed air from getting through the filter element and the air flow would force the liquid to get through from the pores of the element media, thus increasing the working pressure drop and reducing filtration performance.

Activated Carbon Filters (ACS)

Oil vapor can easily get through the coalescing filters in a state of gas, so the adsorptive filter must provide a large activated carbon adsorptive bed. Because damp air will reduce the adsorptive ability of the activated carbon, the adsorptive filter is usually installed after the adsorptive

dryer to guarantee the effective removal of oil vapor and peculiar odors. It is not used to remove liquid oil or aerosols, thus poor maintenance and lack of pre-filter will accelerate its invalidation.

Airstream Filtration								
Type	Description	NI/min	Scfm	Maximum	Ø In-Out	Elements		
				Pressure		AO	AA	ACS
				Bar		1 micron	0.01 micron	Activated Carbon
AYD017	Air filter ½" 1000l/min	1000	35	16	15mm	AYD-AO017	AYD-AA017	AYD-ACS017
AYD025	Air filter ¾" 1500l/min	1500	53	16	15mm	AYD-AO017	AYD-AA017	AYD-ACS017
AYD030	Air filter ½" 2000l/min	2000	71	16	15mm	AYD-AO030	AYD-AA030	AYD-ACS030
AYD058	Air filter ¾" 3600l/min	3600	128	16	19mm	AYD-AO058	AYD-AA058	AYD-ACS058
AYD080	Air filter 1" 4800l/min	4800	171	16	25mm	AYD-AO145	AYD-AA145	AYD-ACS145
AYD145	Air filter 1 ½" 7200l/min	7200	257	16	32mm	AYD-AO145	AYD-AA145	AYD-ACS145
AYD220	Air filter 2 " 12000l/min	12000	428	16	50mm	AYD-AO220	AYD-AA220	AYD-ACS220
AYD330	Air filter 2" 19000l/min	19000	678	12	50mm	AYD-AA330	AYD-AA330	AYD-ACS330
AYD430	Air filter 3" 25800l/min	25800	921	12	75mm	AYD-AA430	AYD-AO430	AYD-ACS430
AYD620	Air filter 3" 37200l/min	37200	1328	12	75mm	AYD-AA620	ADY-AO620	AYD-ACS620
CONDENSATE SEPARATORS								
AYD-WS025	Condensate Separator ¾"	3600	128	16	19mm	No elements applicable		
AYD-WS050	Condensate Separator 1"	4500	160	16	25mm	No elements applicable		
AYD-WS100	Condensate Separator 1 ½"	10000	357	12	32mm	No elements applicable		
AYD-WS250	Condensate Separator 2"	25000	892	12	50mm	No elements applicable		
SPARE PARTS FOR INLINE FILTERS								
AYD-ADPI	Differential Pressure Indicator	Located at the top of the inline filter						
AYD-ADPI/2	Indicator DPI - Button type	Located at the top of the inline filter						
AYD-AID	Internal float type drain	Located on the inside of the inline filter						
AYD-ALM	Liquid Mirror	Located on the outside on the side of the inline filter						
AYD-HAD10B	External float drain, clear ½"	Located at the bottom of the inline filter						
AYD-HAD20B	External float drain, 220 - 620	Located at the bottom of the inline filter						

Condensate Separators (AYD-WS025 - AYD-WS250)

• Problems in Air System

There are large amounts of water in compressed air systems, which will corrode air lines, permanent damage to valves, air cylinders and pneumatic tools and devices which reduces the working efficiency of the after cooler, heat exchanger.

• Benefits of having a condensate separator installed in air line systems

1. It reduces corrosion of the air line and damage to valves, air cylinders and electronic components by water.
2. It protects the filter from bulk liquid contamination.
3. It improves air quality.
4. It removes all liquids from the system.
5. It cuts down on operational downtime and maintenance costs.
6. It protects the pre-filter of frozen and adsorptive dryer.

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