

YD series filter element filtration precision and performance



PF	AO	AA	AX	ACS	AR	AAR
As a primary filter, particles whose diameter more than 5µm can be removed, the maximum residual oil content is negligible.	High efficiency general protection, dust particles, water mist and oil mist whose diameter more than 1µm can be removed, the residual content of oil mist does not exceed 0.6 mg/m ³ (21°C), 1ppm(w).	High efficiency oil removal filtration, dust particles, water mist and oil mist whose diameter more than 0.01µm can be removed, the residual content of oil mist does not exceed 0.01 mg/m ³ (21°C), 0.01ppm(w).	Ultra-efficient filtration, dust particles, water mist and oil mist whose diameter more than 0.01µm can be removed, the residual content of oil mist does not exceed 0.001 mg/m ³ (21°C), 0.001ppm(w).	Dust particles whose diameter more than 0.01µm, oil vapor and odor can be removed, the maximum residual content of oil vapor does not exceed 0.003mg/m ³ (21°C), 0.003ppm(w).	Dust particles whose diameter more than 1µm can be removed.	Dust particles whose diameter more than 0.01µm can be removed.

International test and measurement standard ISO 12500

ISO 12500 has made clear a general test and definition method for the compressed air filter manufacturers. The main performance parameters are the air inlet oil content and the particle size distribution of the solid particles.

ISO 12500-1 specifies the test requirements for the filtration performance of oil aerosol in the coalescing filter.

ISO 12500-2 specifies the test requirements of adsorption filters for the removal performance of steam adsorption.

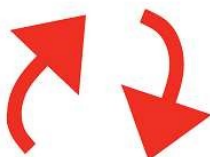
ISO 12500-3 specifies the requirements for removal of particulate matter from solid pollutants.

Products are tested with the international advanced testing equipment based on standard ISO12500, which is equivalent to the standard ISO8573.

Filtration Grade	PF	AO	AA	AX	ACS	AR	AAR
Size of solid particles (ISO12500-3)	5µm	1µm	0.01µm	0.01µm	-	1µm	0.01µm
Filtration performance of solid particles(ISO12500-3)	-	99.999+%	99.999+%	99.999+%	99.999+%	99.999+%	99.999+%
Filtration performance of oil (ISO12500-1)	50%	80+%	99.9+%	99.99+%	-	-	-
Residual oil content(ISO12500-1)	5mg/m ³	0.6mg/m ³	< 0.01mg/m ³	< 0.001 mg/m ³	< 0.004 mg/m ³	-	-

It is very important to change the filter element often and choose original accessories

Please replace the filter elements with YUKA original products to ensure purified, dry and stable air. The element is constantly impacted by oil, acidic condensate and high velocity dust particulates during the whole operation process, it also has to filter and keep protecting your compressed air system. It will weaken the filter media and reduce the filtering performance if it passed the replacement period. Technically, these hidden and serious reductions cannot easily be detected by the differential pressure indicating instruments. To replace the filter element every year is very essential. Failed to replace them in time will



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YD Series compressed air filter effectively removes compressed air pollutants

This series is recommended for the industries in automation, cosmetics, blow molding, spraying etc. YUKA has more than 20 years in compressed air purification field experience and is popular in the market because of its advanced technology, variety of products, innovative, dedicated and professional spirit and reliable quality of products and spares no efforts to provide reliable solutions to customers.

Product Features

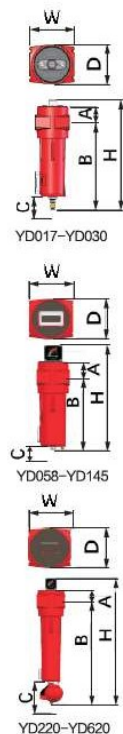
- The filter housing is aluminum alloy die-casted, with tight and strong structure to ensure the safe use.
- All the housing painted before cleaning, degreasing and special anti-corrosion treatment, which enhanced its durability and be applicable to ocean platform operation.
- Unique filter element design, the adoption of imported materials, the filtering performance up to 99%,
- The filter housings service life is 15 years, and filter element can be used for 6000 to 8000 hours under working condition from temperature 1. 5 to 80°C, max. pressure is 1. 6Mpa.
- The housing can bear pressure 3.2Mpa for 96 hours, and the maximum burst pressure is 10.5Mpa.
- Precise screw thread makes installation easier, and parallel connection of the housing can save installation and maintenance space.

Technical Specification

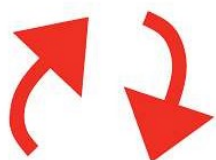
The flow rate below is the treatment capacity of compressed air under rated working pressure 7barg(100psi g). For the application in other working pressure, please refer to the correction factors.

Model	Pipe size	Flow rates			QTY. (pc)	Dimension (mm)					
		L/S	m ³ /min	scfm		W (Width)	D (Depth)	H (Height)	A	B	C (clearance for housing)
YD017	RC1/2"	16.7	1.0	35.3	1	89	79	246	40	186	118
YD025	RC3/4"	25.0	1.5	53.0	1	89	79	246	40	186	118
YD030	RC1/2"	30.0	1.8	63.6	1	89	79	280	40	220	158
YD035	RC3/4"	33.3	2.0	70.6	1	89	79	280	40	220	158
YD058	RC3/4"	46.7	2.8	98.9	1	120	110	377	55	276	195
YD068	RC1"	60.0	3.6	127.1	1	120	110	377	55	276	195
YD080	RC1"	80.0	4.8	169.5	1	120	110	477	55	377	290
YD145	RC1-1/2"	120.0	7.2	254.2	1	120	110	477	55	377	290
YD220	RC2"	200.0	12.0	423.7	1	162	151	676	64	566	480
YD260	RC2-1/2"	233.3	14.0	494.4	1	162	151	676	64	566	480
YD330	RC2"	267.2	16.0	564.8	1	162	151	984	64	875	780
YD360	RC2-1/2"	317.3	19.0	670.7	1	162	151	984	64	875	780
YD405	RC2-1/2"	367.4	22.0	776.6	1	200	189	757	78	634	560
YD430	RC3"	467.6	28.0	988.4	1	200	189	757	78	634	560
YD620	RC3"	620.0	37.2	1313.6	1	200	189	1012	78	889	780

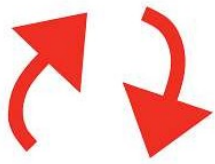
Technical requirements Maximum operating pressure: 16 barg Maximum operating temperature: 80°C Minimum operating temperature: 1.5°C



Pressure	Barg	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Psig	15	29	44	59	73	87	100	116	131	145	160	174	189	203	219	232
Correction factor		0.38	0.53	0.65	0.76	0.85	0.93	1.00	1.07	1.13	1.19	1.23	1.31	1.36	1.41	1.46	1.51



Product details



Sophisticated thread processing technology assist user save time and labor costs in installation and maintenance.

The A grade raw materials are used to ensure the product toughness, strength and stability.

The differential pressure gauge or Indicator can measure the pressure difference and indicate premature blockage of the filter element.

The international leading anti-corrosion technology greatly enhanced the housing corrosion resistance, enlarged application field and avoid the secondary pollution comes from itself.

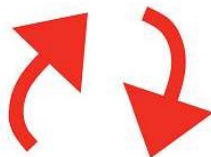
The arrow marks make the operators understand clearly the air flow direction.

Sight glass is made of unique materials, checks the blockage condition of the drainer.

Parallel connection design helps users save space and time.

The benefits of installing our products are obvious

- Protect the downstream equipment and industry
- Provide high quality compressed air quality to meet the international standards
- Reduce production and labor costs
- Maintain health and improve safety
- Used for various of air compressors, compatible with any kind of lubricating oil
- Provide kinds of certificate



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