



YFB Series

COMPRESSED AIR FILTERS

Flow rate 1.0 to 48.0 m³/min, Pressure 2 to 16 bar

YFB Series air filters have been designed connection sizes from 1/2" to 4", air flow rate up to 48.0 m³/min, max.working pressure 16 bar, providing reliable, highly efficient protection against dust, aerosols and oil vapors for all purity classes according to ISO 8573-1, reducing the energy consumption, total cost of ownership and adding to your satisfaction.



Professional aluminum alloy die-casting process not only ensures a certain thickness of the shell to resist the air pressure, but also ensures that a very small number of trachoma guarantees the safety.



The filter elements are designed with flow-optimized element heads. This increases the flow cross-section at the discharge side of the filter, which further contributes to the high efficiency of the filter and minimal pressure loss.



Seven filtration element grades meet different requirements of compressed air. Differently colorful end caps have better identification for the filtration grade.



The housings are protected by cathaphoresis anti-corrosion treatment and allows filters worked in strong corrosive working condition such as offshore platform.



Easy to unscrew due to precise threading. Seals on the air filter housing and the filter element are highly resistant to air pressure and pollution.



Housing bottom could be fitted with manual auto drain Rc1/2" to discharge condensate.

YFB Series Advanced Filtration Technology for Contaminations



PF

Coarse Pre-Filtration

As a primary filter, particles whose diameter down to 5 μm can be removed, the max. residual oil content is negligible. Changed every 6000 hours.

AO

High Efficiency General Purpose

High efficiency general protection, dust particles, water mist & oil mist whose diameter down to 1 μm can be removed, the residual content of oil mist does not exceed 0.6 mg/m^3 (21°C), 1ppm(w), changed every 8000 hours.

AA

High Efficiency Oil Removal Filtration

Dust particles, water mist and oil mist down to 0.01 μm can be removed, the residual content of oil mist does not exceed 0.01 mg/m^3 (21°C), 0.01ppm(w), changed every 8000 hours.

AX

Ultra High Efficiency Filtration

, solid particles, liquids, oil aerosols, odors, and vapors are effectively removed at a high efficiency of 99.99% as small as 0.01 micron, the residual content of oil mist does not exceed 0.001 mg/m^3 (21°C), 0.001ppm(w), changed every 8000 hours.

ACS

Oil Vapor Reduction

Activated carbon filter element made from thousands of activated carbon granules of sufficient thickness, giving a superior adsorption capacity on a longer time. Oil vapor & odor can be removed, the max. resident content of oil vapor does not exceed 0.003 mg/m^3 (21°C), 0.003 ppm(w), changed when oil vapor detected.

AR

General Purpose Dust

Dry particle removal down to 1 μm , installed after adsorption air dryer, change every 6000 hours.

AAR

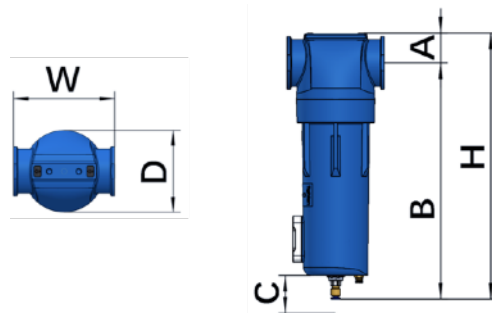
High Efficiency Dust

Dry particles removal down to 0.01 μm can be removed, installed after adsorption air dryer, change every 6000 hours.

Product Selection

Below flow rates of compressed air are calculated in rated working pressure of 7 bar (100 psi g) with reference to 20 °C.

Model	Inlet/ Outlet (Rc)	Rated Air Flow at 7 bar			Dimensions (mm)					
		L/S	Nm³/ min	Scfm	Width (W)	Depth (D)	Height (H)	A	B	C (Left space)
YFB010	1/2"	16.7	1.0	35.5	96	79	245	29	180	118
YFB020	3/4"	25.0	1.5	53.0	96	79	245	29	180	118
YFB030	3/4"	30.0	1.8	63.6	96	79	274	29	209	153
YFB040	1"	33.3	2.0	71.0	96	79	274	29	209	153
YFB060	1"	60.0	3.6	127.0	138	111	349	37	276	208
YFB070	1"	83.3	5.0	177.0	138	111	450	37	377	303
YFB080	1-1/2"	125.0	7.5	265.0	138	111	450	37	377	303
YFB090	2"	166.7	10.0	353.1	174	142	558	58	500	467
YFB100	2-1/2"	216.7	13.0	459.0	174	142	558	58	500	467
YFB110	2"	283.3	17.0	600.0	174	142	838	58	780	794
YFB120	2-1/2"	316.7	19.0	671.0	174	142	838	58	780	794
YFB130	3"	416.7	25.0	883.0	220	184	616	74	542	514
YFB140	4"	466.7	28.0	989.0	220	184	616	74	542	514
YFB150	3"	683.3	41.0	1448.0	220	184	872	74	798	764
YFB160	4"	800.0	48.0	1695.0	220	184	872	74	798	764



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
Pressure 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

To correctly select an air filter model, the flow rate of the air filter must be adjusted for the minimum operating (inlet) pressure at the point of installation.

Calculate the adjust filtration capacity:

1. Minimum Filtration Capacity = Compressed Air Flow Rate x pressure correction factor rate.
2. Using the minimum filtration capacity, select an air filter model from the flow rate tables above (air filter selected must have a flow rate equal to or greater than the minimum filtration capacity).

The Benefits of Regularly Changing Filter Elements

- High quality compressed air Guaranteed.
- Protection of adsorption dryer beds.
- Protection of downstream equipment
- Reduced operational costs.
- Increased productivity & profitability.
- Continued peace of mind.



Element Grade	PF	AO	AA	AX	ACS	AR	AAR
Solid particle size (ISO12500-3)	5 µm	1 µm	0.01µm	0.01µm	N/A	1µm	0.01µm
Flow	Inside to outside	Inside to outside	Inside to outside	Inside to outside	Inside to outside	outside to inside	outside to inside
Remove efficiency (ISO12500-3)	N/A	99.999+%	99.999+%	99.999+%	99.999+%	99.999+%	99.999+%
Residual oil content(ISO12500-1)	5 mg/m³	0.6 mg/m³	<0.01mg/m³	< 0.001 mg/m³	< 0.003 mg/m³	N/A	N/A
Oil remove efficiency (ISO12500-1)	50%	90%	99.99+%	99.99%	N/A	N/A	N/A
Dry pressure drop	N/A	80 mbar	80 mbar	90 mbar	140 mbar	N/A	N/A
Wet pressure drop	N/A	200 mbar	200 mbar	200 mbar	N/A	N/A	N/A
Every change	6000 hours	8000 hours	8000 hours	8000 hours	when oil detected	6000 hours	6000 hours
Flow medium	Compressed air and gaseous nitrogen						
Max. Working pressure	16 bar						
Max. working temperature	80 °C	80 °C	80 °C	80 °C	60 °C	80 °C	80 °C

Filtration & Separation Solution for Industries

Applications for compressed air are numerous and have requirements from very simple to highly strict, Our high efficiency air filters designed for removing contaminants to protect downstream of equipment and save costs. A typical air treatment system will include the follow component for most industry.

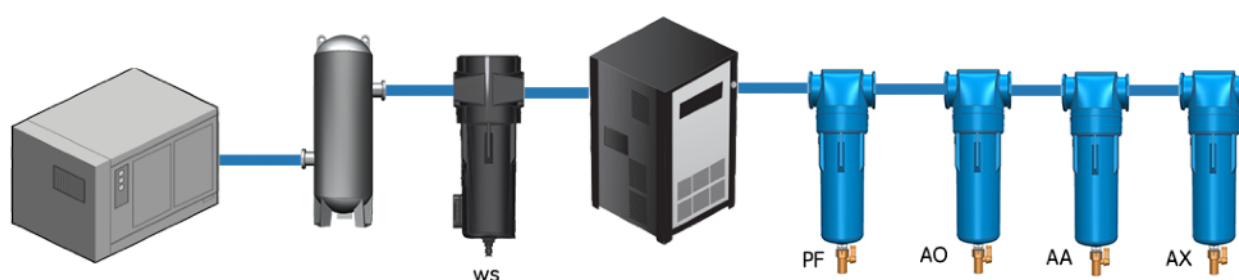
Air dryer: Installed after an air compressor, it removes moisture from compressed air using a refrigeration system or adsorption system, protecting pipelines and equipment from condensate.

Water separator: Installed in front of refrigerated air dryers and coalescing air filters to remove bulk liquids and wet solids, improving the whole compressed air system performance.

Air filter : Various types of air filters are available, including particulate and coalescing air filters, activated carbon filters, and dust filters installed after water separators to remove solid particles and oil vapor down to acceptable levels to protect downstream equipment and finished products.

Auto drain: Reliably and consistently discharge water for a wide range of compressed air applications including compressors, after coolers, air filters.

Tire filling	Injection molding	Powder fluidization	Air jet
PET bottle blowing	Semiconductor	Air filter after air dryer	Air bearing
Dry bulk solids conveying	Package	Filled/capped beverages	Aerial winch
Dust collection	Deodorant	Aerospace industry	Grain color sorting
Cool down	Processing air	Breathe the air	Parts blasting
Tablet coating	Blow dust	Chemical Industry	Spray paint
Dairy Air	Bag cleaning	Military equipment	Sandblasting
Liquid filling	Nitrogen separation	Pre-air filter	Bottled gas
Instrument gas	Laser-cutting	Air metering	Pneumatic tools
Pneumatic automation	Ferment	Air agitator	Air motor
Pneumatic conveying	Sprinkler system discharge	Ventilation	Dental hand tools





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OEM Capabilities

When you need a special filter for a unique application, Yun Air experts are ready to work with you. We can tailor a configuration to meet your special need from the wide variety of filter media available. In addition, with LEAN manufacturing, we can produce specials in reasonable quantities, in a reasonable amount of time, at a reasonable price. Not only will this enhance the performance of your product, but it will benefit you with aftermarket sales of replacement elements.

OUR RANGES OF PRODUCTS INCLUDE THE FOLLOWING:

- Compressed air dryers
- Compressed air filters
- Compressed air water separators
- Alternative air filter elements
- Condensate auto drain
- Compressed air accessories
- Portable mask

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the right to make

We reserve