



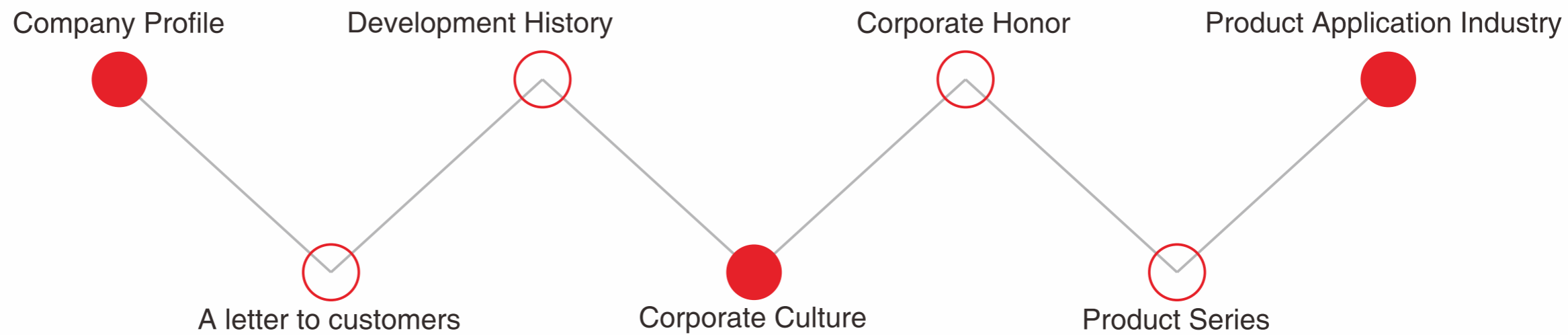
National High-Tech Enterprise

Since 1998, Professional manufacturer of compressed air separation, filtration and purification equipment

深圳市宏日嘉净化设备科技有限公司
Hongrijia Depurate Facility Science & Technology Co.,Ltd



» CONTENTS

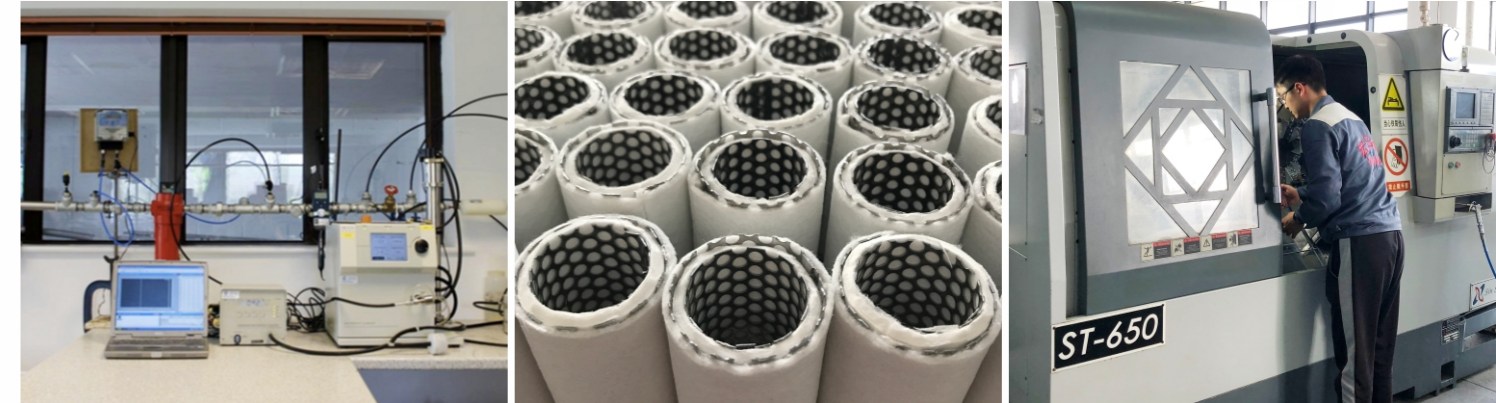


Company Profile

Hongrijia Depurate Facility Science&Technology Co.,Ltd is located in Pingshan High-tech Industrial Park in Shenzhen city, Guangdong Province, China, the production area is more than 11000 square meters. We are a professional manufacturer who specializes in R&D, production and sales of refrigerated dryer, adsorption dryer, compressed air precision filtration equipment, and pneumatic components. We have self-owned brands YUKA and Hongrijia, at the same time, we provide ODM and OEM service to many manufacturers of international famous brands of air compressor, dryer, automation equipment.

Our products are widely applied in various industries that need purified compressed air like military defense, petroleum, chemical, metallurgical, power, machinery, light industry, textile, automobile manufacturing, electronics, food, medicine, biochemical, scientific and technological research etc..

Since 1998, Hongrijia have been insisting on "meticulous design and manufacture, and keep refining" as our philosophy, "top quality, innovated technology, optimized service " as our direction, " high efficiency and reliable products as our mission. All our efforts have one goal to realize our customers' requirements and reflect ourselves' value.



After years of development, Hongrijia are awarded:

- ⊗ National High-tech Enterprise
- ⊗ Shenzhen High-tech Enterprise
- ⊗ A number of Practical Patents for New technology Certificate
- ⊗ China Well-known Brand
- ⊗ National AAA-grade Enterprise in terms of Quality, Service and Credit
- ⊗ China Top 10 Influential Brands in the purification equipment industry
- ⊗ ISO 9001:2015 International Quality Certificate
- ⊗ UK Authority AEA Filtration Performance Test Certificate
- ⊗ EU CE Certificate
- ⊗ National Standard GB/T30475.1-2013 setting enterprise- test methods of compressed air filter Part 1: Suspended Oil and Part 2:Oil Vapor
- ⊗ Industry Standard setting enterprise-JB/T12953-2013 for Compressed Air System cyclone Air Separator
- ⊗ Industry Standard setting enterprise-JB/T13346-2017 for Compressed Air Filter
- ⊗ Manufacture License of Special Equipment People's Republic of China(TS)

Revitalizing China's modern industry and human beings health is hongrijia's business; it's also the responsibility of each Hongrijia staff.

Therefore, Hongrijia staff will keep studying, absorbing advanced science technology and excellent management experience at the home and abroad.

Work hard and struggle jointly for hongrijia's future as well as our own future.

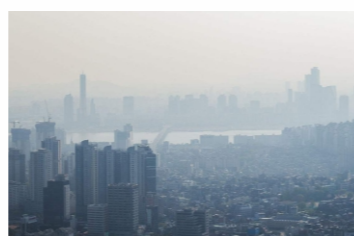
A letter to customers

Welcome to Hongrijia Depurate Facility Science & Technology Co., Ltd.
Know us, Choose us!

Please fully understand the quality of the compressed air and its hazards before you purchase compressed air purification equipment.

With the rapid development of modern high technology, a report from the World Health Organization and the United Nations Environment Organization says: The air pollution is becoming an inevitable reality in our world. "If we are living in the polluted air, we will become sick. With the rapid development of the modern industry and our cities, it's creating tremendous fortunes, at the same time discharging as much as billions tons of waste gas and materials into air, turning the air atmosphere that our human being have been relying on into a warehouse full of garbage and poisonous gas. Therefore, it will bring tremendous disaster to our human being, industrial production, living and environment if the poisonous gas and pollutants reach certain concentration. Air pollution affects human being health directly and indirectly, causes sensorial and physical indisposition arise clinic symptoms or potential genetic effect, which incur acute or chronic intoxication, even death. If the air pollutants like sulfur dioxide, sulfuric acid mist, chlorine, ozone and smog dust are inhaled, it will cause bronchial reflex contraction, spasm, cough, sneezing and increase trachea resistance.

Respiratory resistance gradually weakened by the chronic effect of the toxin, further induces chronic respiratory diseases, even edema and pulmonary heat diseases, and cancer to be worse. According to the epidemiological investigation, city air pollution is the direct cause or inducement of the chronic bronchitis, emphysema and bronchial asthma and other diseases.



At present, compressed air is the second largest power source right after the electrical energy, and is a kind of process air source with multi-purpose.

Statistically, more than 90% of the enterprises are utilizing compressed air in various fields. But if the polluted air is adopted, it will not only greatly affect the production equipment, personnel, products and the surrounding environment, but also lead to extra production loss, product quality problems, high maintenance cost etc. The pollutants in compressed air system come from various sources, most of them are aerosols, solid particles, smoke, water vapor, oil vapors, microorganisms, volatile organic compounds, chemical fumes, and other toxic pollutants (arsenic, fluorine, lead, molybdenum, sulfur dioxide, chlorine, hydrogen fluoride, etc.). Clean air, the most difficult pollutants to deal with is water, water vapor, ultra-fine solid particles, oil and oil vapor, which account for about 99% of the detectable pollutants in compressed air systems.

The more terrible and most people don't know that various pollutants and harmful gas may produce molecules fission under the conditions of high temperature, high pressure, and rapid cooling process through air compressor.

If the above pollutants are not treated strictly to meet the standard ISO12500, it will seriously affect the physical and mental health of the workers.



An air compressor with flow rate 7 m³/min, its oil content is 3 ~ 5 ppm.

The 5% oil content in 1 cubic meter of air is normal, 1 ppm, the oil content is 1.2mg/m³.

Take the oil content of 5ppm for example, the oil content = 1.2x5=6mg, the oil content in 7 cubic meters of air = 6 x 7=42mg, 1 hour = 42x60=2520mg, 1 day = 12 hours * 2520mg = 30240mg = 30.24g, if there is 15 machines of such model, 30.24g*15=453.6g, then the oil comes from these 15 machines in 12 hours of one day is 453.6g, if for ten days, the oil amount is 453.6g*10=4536g=4.536kg.

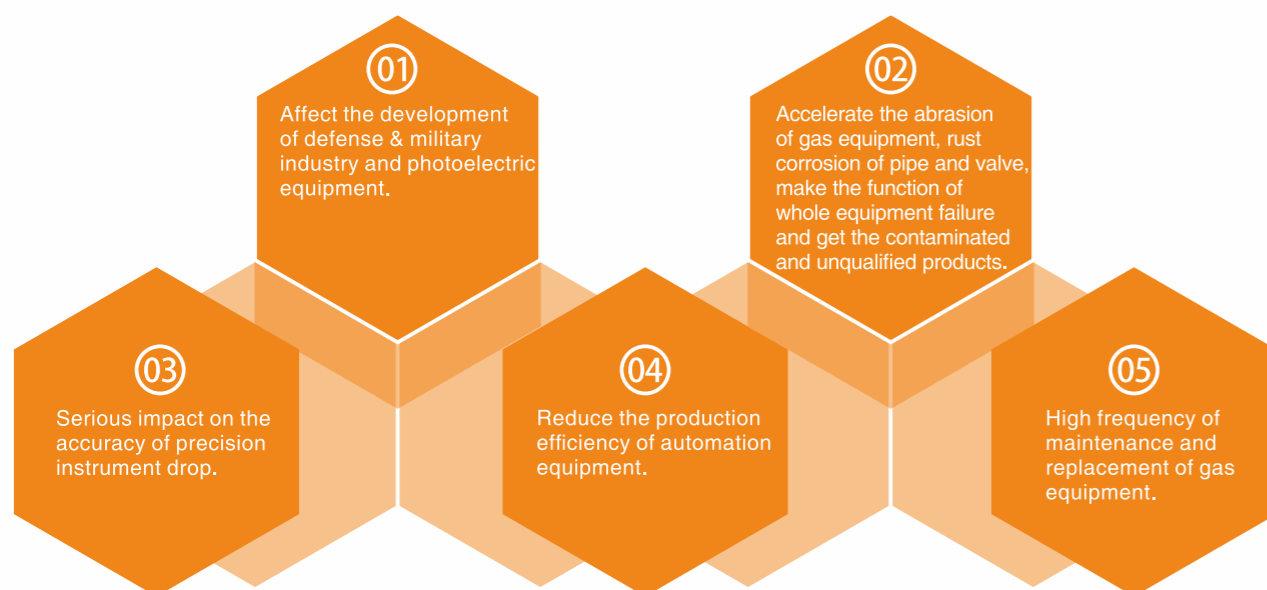
Under these premise, we can only deal with the after process of the compressed air, which requires the purifying equipment of the compressed air must reach the relevant designing requirement. And it must be the qualified products after strict test, rather than some shoddy air purifying products. The low-end and fake purifying products only serve as a decoration and comfort, but has no effect and meaning on the filtering and purifying effect, which is quite irresponsible to the users and workers health and safety, totally ignore their health and life safety, and bring severe hidden safety problems.



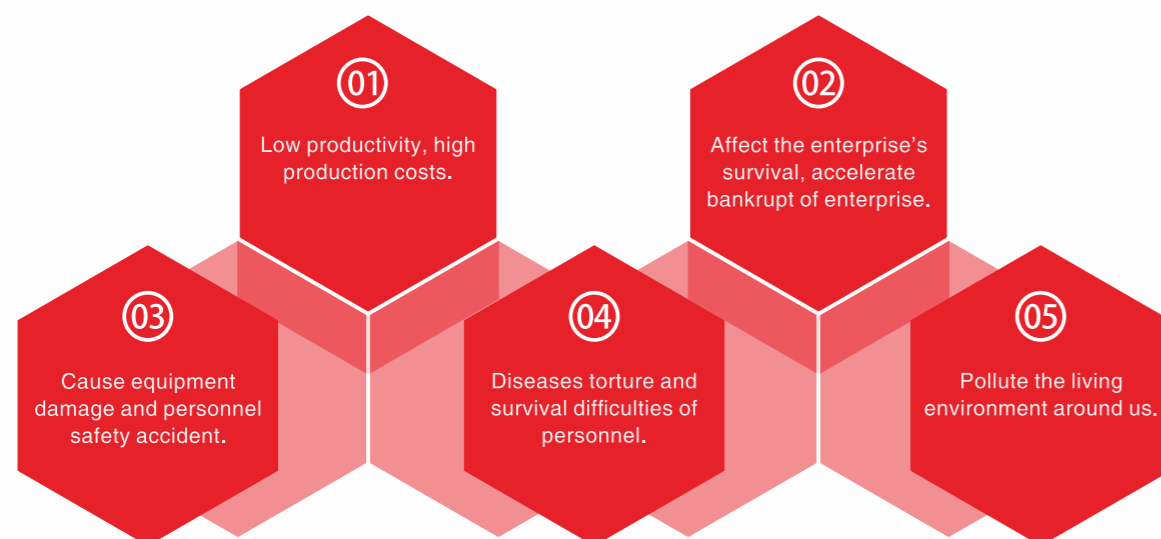
Polluted compressed air is an invisible killer in industrial development and life

Because the mixture of water, oil and dust is deposited in the pipeline, the whole system is not stable

The damages of pollutants to production equipment



Problems eventually caused by compressed air pollutants:



YUKA product advantages

01 Quality guarantee

Under normal operating conditions, the filter housing's service life is 15 years, the filtering precision of the filter element reaches 0.01 μ m, and the residual oil content is 0.001mg/m³, the filter element can be used for 6000 to 8000 hours.

02 Safety guarantee

The pressure of filter housing can bear is 0~1.6Mpa, the bursting test pressure is 10.5Mpa, the temperature range of spare parts can withstand is -20 $^{\circ}$ C~85 $^{\circ}$ C, the bursting pressure of plastic parts is 3.6Mpa, corrosion resistance can up to 15 years.

03 Reputation and service

Good pre-sale, sales, after-sales service, quality assurance and professional technical support.

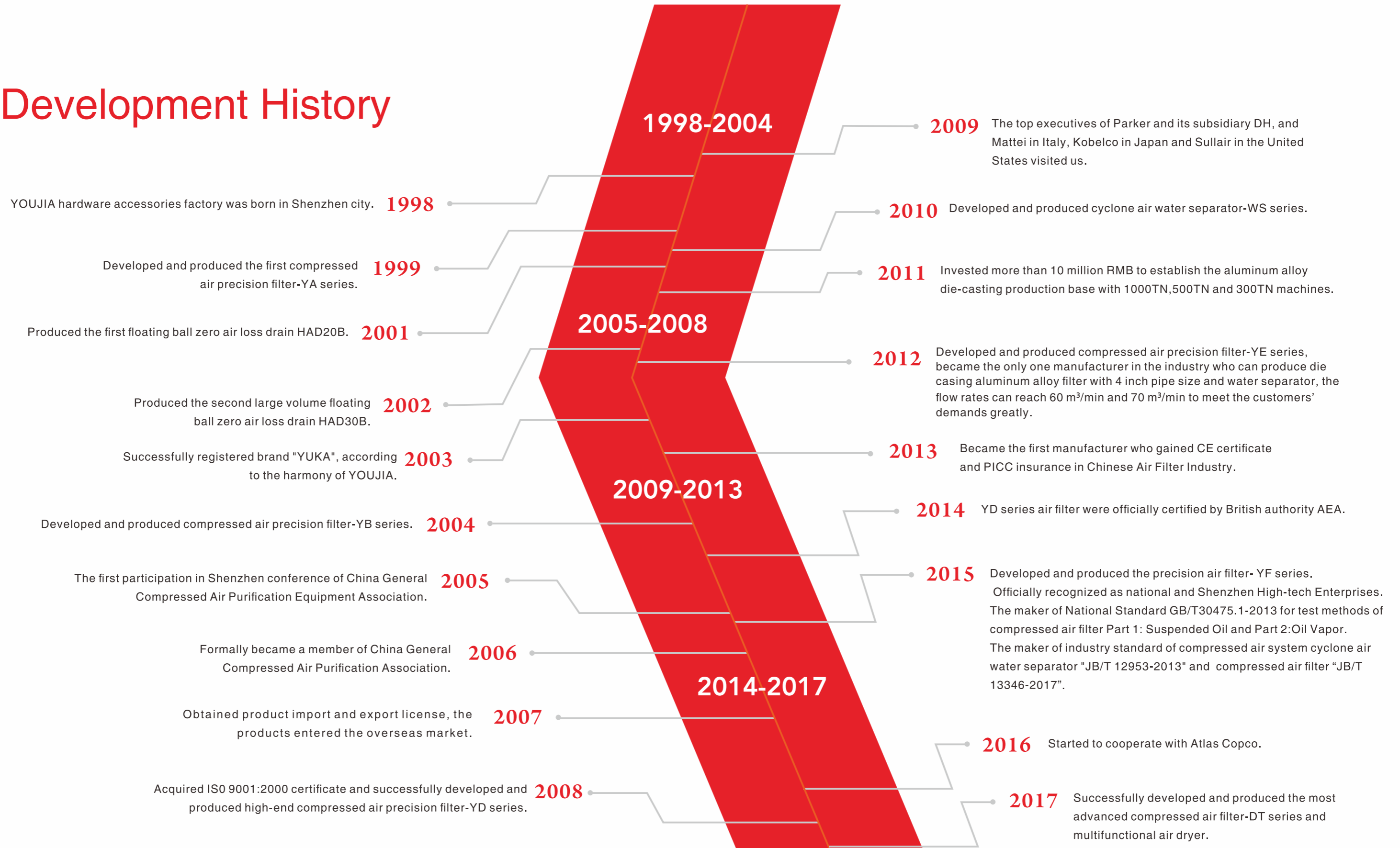
04 Technical strength

Continuous innovation of product technical capability, production capacity and detection capability.

05 Practicality and advantage

Company has a full set of international advanced precision test equipment. The separation and filtration accuracy of the product conforms to the ISO12500 standard, we are awarded the British authority AEA filtration precision testing certificate, European CE certificate, the setting enterprise of the People's Republic of China national standard and industry standard, Manufacture License of Special Equipment People's Republic of China(TS).

Development History



Corporate Culture



Mission

Make great contribution to the development of world's science & technology and human health !



Vision

Create a glorious century enterprise with professional technology !



Value

Provide high quality products to prove the value of our existence!



Win-Win

YUKA will create a better future with all the friends sincerely!



Corporate Philosophy

- Aspiration

Lead the Industry Standards
- Creativity

Enterprises is doomed to decline without creativity. Today's dream will bring a better future! To conquer the conflict between new and old ideas caused by science and technology innovation is the guarantee of development and growth of an enterprise.
- Globalization

The globe is our market. To win the world's trust, provide high quality products with reasonable price.
- Gratefulness

Always be grateful to our surroundings, to our parents who gave our lives, and grateful to our teachers and seniors who gave us careful guidance. Serve our society and reward the love of our society.
- Human Resource

Enterprise booming lies in discovering the talents and utilizing proper talents in appropriate position. It's hard to find high quality talents. Always be objective, keep healthy consciousness and wisdom, match our deeds with words, and keep our promise.

Corporate Honor



National high-tech enterprise



Shenzhen high-tech enterprise



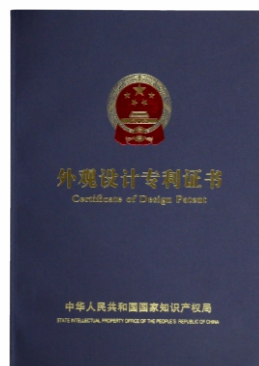
Manufacture License of Special Equipment



ISO9001:2005



Utility model patent certificate



Design patent certificate



China famous brand



National quality, service, credit AAA enterprises



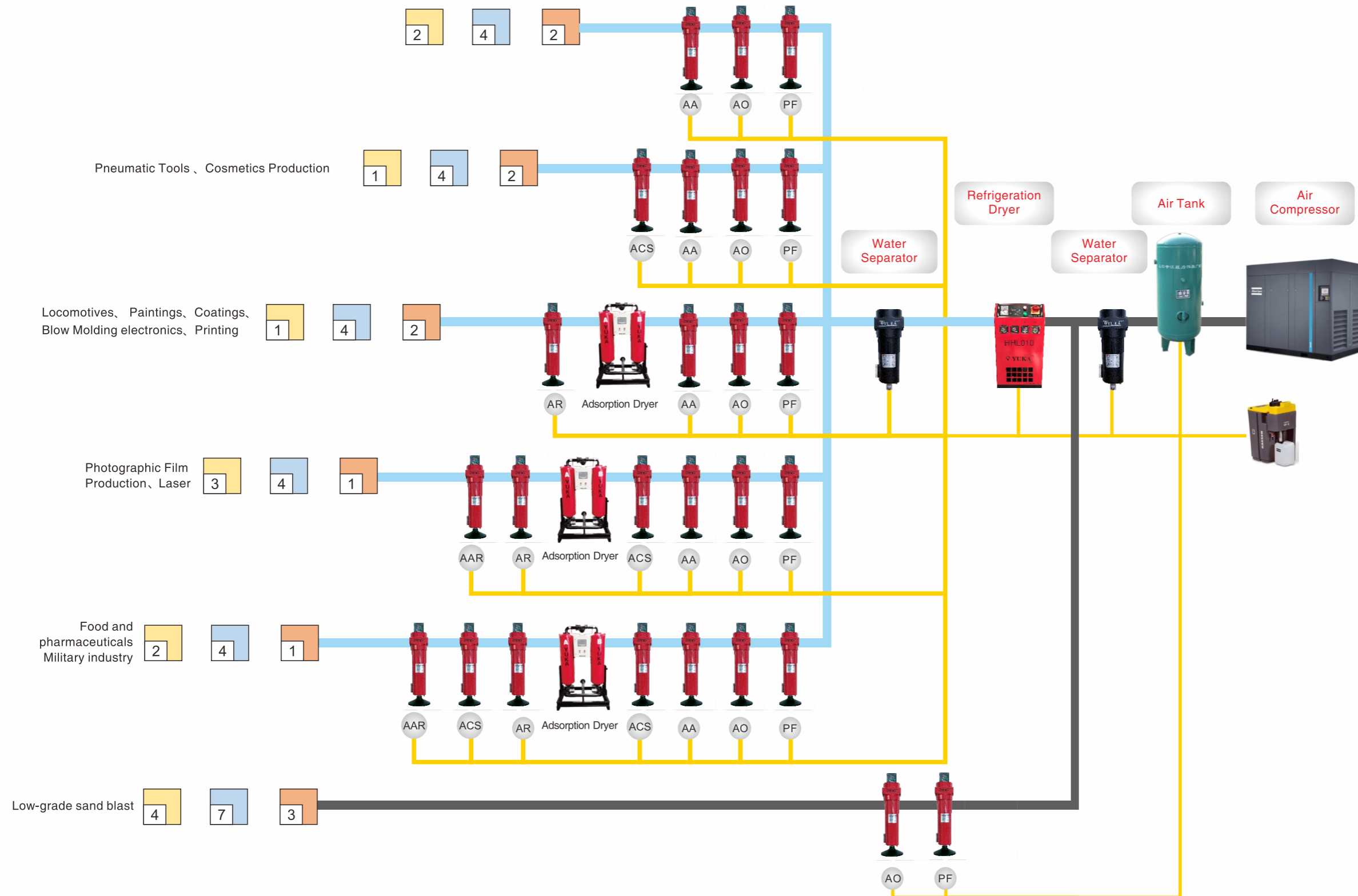
China Top 10 Influential Brands in the purification equipment industry



Product Series

 <p>Refrigerated Dryer</p>		 <p>Adsorption Dryer</p>		 <p>DT Series Compressed Air Filter</p>		 <p>YD Series Compressed Air Filter</p>
 <p>Low & Medium Pressure Stainless Steel Filter</p>		 <p>YF Series Compressed Air Filter</p>		 <p>YFB Series Compressed Air Filter</p>		
 <p>WS Series High Efficiency Cyclone Water Separator</p>		 <p>FWS Series High Efficiency Cyclone Water Separator</p>		 <p>Direct-acting Precise Pressure Regulator</p>		 <p>Float ball drain with zero pressure loss HAD20B</p>
 <p>Float ball drain with zero pressure loss HAD30B</p>	 <p>Float ball drain with zero pressure loss HAD10B</p>	 <p>Differential Pressure Gauge</p>	 <p>Differential Pressure Indicator</p>	 <p>Sight Glass</p>	 <p>Manual & Automatic Drain</p>	

Product Application Industry



Compressed air grade ISO 8573-1(2010):

Dry particulate/Dust			
Grade	d<um> The maximum number of particles per cubic meter in diameter		
	0.1 ≤ d ≤ 0.5	0.5 ≤ d ≤ 1.0	1.0 ≤ d ≤ 5.0
0	For example the technical requirement of the clean room		
1	≤20.000	≤400	≤10
2	≤400.000	≤6.000	≤100
3	N/A	≤90.000	≤1.000
4	N/A	N/A	≤10.000
5	N/A	N/A	≤100.000
Class	Particle concentration cp mg/m3*		
6	0 < cp ≤ 5		
7	5 < cp ≤ 10		
x	cp > 10		
Water			
Grade	Dew point °C		
0	For example the technical requirement of the clean room		
1	≤ -70°C		
2	≤ -40°C		
3	≤ -20°C		
4	≤ +3°C		
5	≤ +7°C		
6	≤ +10°C		
Grade	The concentration of liquid water cw g/m3*		
7	cw ≤ 0.5		
8	0.5 < cw ≤ 5		
9	5 < cw ≤ 10		
x	cw ≤ 10		
Oil			
Grade	Total oil content (liquid, oil aerosols gaseous fluid) <mg/m3>*		
0	For example the technical requirement of the clean room		
1	≤ 0.01		
2	≤ 0.1		
3	≤ 1.0		
4	≤ 5.0		
x	> 5.0		

Under the reference condition 20°C, 1bar, in 0% humidity



YF Series Compressed Air Filter

This series is recommended for the industries in automation, cosmetics, blow molding, spraying etc.



Coalescing Filters

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 particulates to an acceptable level as small as 0.01micron in size. Usually, in the installation system, the first filter's purpose is to pre-filter, protect the high efficiency filters from bulk contamination so as to provide high quality compressed air. If the air filters worked under damp or full of water adsorption condition, 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 increase working pressure drop and reduce filtration performance.

Activated Carbon Filters

Oil vapor can easily get through the coalescing filters in a state of gaseous, so the adsorptive filter must provide large activated carbon adsorption bed. Because the damp air will reduce the adsorptive ability of the activated carbon, the adsorptive filter usually installed after the adsorptive dryer, in order to guarantee effective removal of oil vapor and peculiar odor. it's not used to remove the liquid oil or aerosols, thus poor maintenance and lack of pre-filter will accelerate its invalidation.

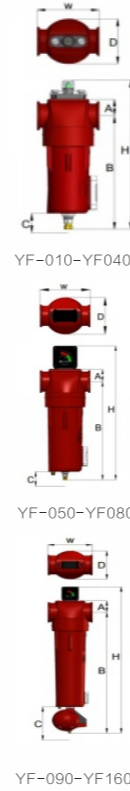
Product Features

- 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%, Element cover with different colors represent different filtration accuracy.
- 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, the max. pressure is 1. 6Mpa.
- The housing can bear pressure 3.2Mpa for 96hours, and the maximum burst pressure is 10.5Mpa.
- 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 7bar g(100psi g). For the application in other working pressure, please refer to the correction factors.

Model	Pipe size	Flow rates			QTY. (pcs)	Dimension (mm)					
		L/S	m³/min	cfm		Width	Diameter	Height	A	B	C(Reserved space for replacement)
YF-010	Rc1/2"	16.7	1.0	35.3	1	96	79	261	29	198	118
YF-020	Rc3/4"	25.0	1.5	53.0	1	96	79	261	29	198	118
YF-030	Rc3/4"	30.0	1.8	63.6	1	96	79	295	29	233	153
YF-040	Rc1"	33.3	2.0	71.0	1	96	79	295	29	233	153
YF-050	Rc3/4"	46.7	2.8	99.0	1	138	111	403	37	296	208
YF-060	Rc1"	60.0	3.6	127.0	1	138	111	403	37	296	208
YF-070	Rc1"	83.3	5.0	177.0	1	138	111	503	37	396	303
YF-080	Rc1-1/2"	125.0	7.5	265.0	1	138	111	503	37	396	303
YF-090	Rc2"	166.7	10.0	353.1	1	174	142	736	58	607	469
YF-100	Rc2-1/2"	216.7	13.0	459.0	1	174	142	736	58	607	469
YF-110	Rc2"	283.3	17.0	600.0	1	174	142	1016	58	887	794
YF-120	Rc2-1/2"	316.7	19.0	671.0	1	174	142	1016	58	887	794
YF-130	Rc3"	416.7	25.0	883.0	1	220	184	793	74	649	514
YF-140	Rc4"	466.7	28.0	989.0	1	220	184	793	74	649	514
YF-150	Rc3"	683.3	41.0	1448.0	1	220	184	1050	74	906	764
YF-160	Rc4"	800.0	48.0	1695.0	1	220	184	1050	74	906	764



Technical requirements: Maximum operating pressure:16barg 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	218	232
Correction factor		0.38	0.53	0.65	0.76	0.85	0.93	1	1.07	1.13	1.19	1.23	1.31	1.36	1.41	1.46	1.51

Product details

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

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

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

The Differential Pressure Gauge or Indicator can measure the pressure difference and indicate premature blockage of the filter element.

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

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

YF series filter element filtration grade 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/ m³ (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/m³ (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/m³(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/m³(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/m³	2.0mg/m³	< 0.01mg/m³	< 0.001 mg/m³	< 0.004 mg/m³	-	-

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 lead to low product performance and air quality, as well as high production cost.





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.

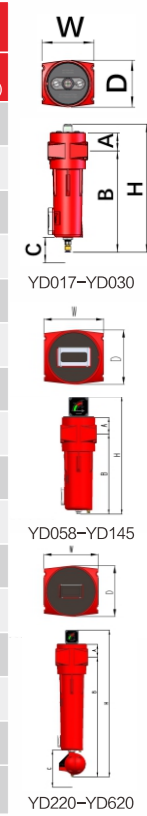
Product Features

- 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 7bar g(100psi g). For the application in other working pressure, please refer to the correction factors.

Model	Pipe size	Flow rates			QTY. (pcs)	Dimension (mm)					
		L/S	m ³ /min	cfm		Width	Diameter	Height	A	B	C(Reserved space for replacement)
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:16barg 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	218
Correction factor		0.38	0.53	0.65	0.76	0.85	0.93	1	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 Differential Pressure Gauge or Indicator can measure the pressure difference and indicate premature blockage of the filter element.

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

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

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

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



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

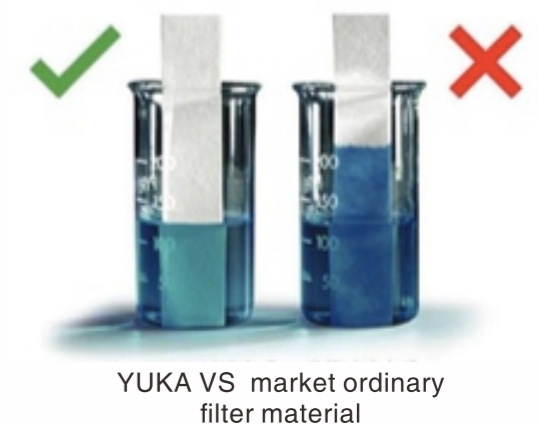
ISO 12500 has made clear a general test and definition method for the compressed air filter manufacturers. The main performance parameters are the air inlet oil content and the particle size distribution of the solid particles.
 ISO 12500-1 specifies the test requirements for the filtration performance 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	2.0mg/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 lead to low product performance and air quality, as well as high production cost.

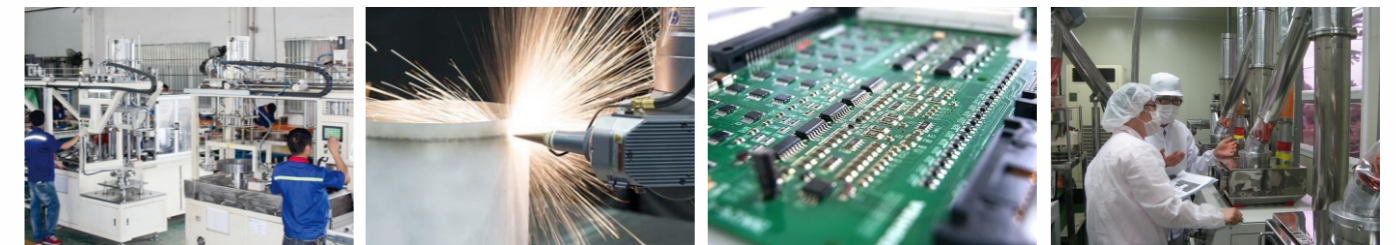




DT series compressed air filter effectively removes compressed air pollutants

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.

This series is recommended for the industries in defense and military, laser, medical, food, electronics, etc.



Product Details



- 

The filter housing is aluminum alloy die-casted, with tight and strong structure to ensure the safe use.
- 

Element designed without tie-rod connection, makes operator replace filter element easily and don't need to reserve the replacement space, so as to avoid the secondary pollution of the product itself and with wider application.
- 

Precise screw thread connection, easy to operate when installation and maintenance and save time and effort.
- 

The marks of arrow and lock are designed to make the operator clearly operate.
- 

Parallel design to reduce installation space.
- 

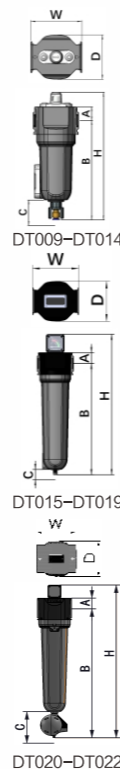
Housing after cleaning, degreasing and special anti-corrosion treatment, improves the corrosion resistance 3 times than ordinary housing, can be used in ocean platform operation. In normal working condition, housing guaranteed for 15 years.
- 

The unique filter design makes air flow to flow more smoothly, centralize, reduce pressure drop, and ensure filtering performance more than 99.99%.

Technical Specification

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

Model	Pipe size	Flow rates			QTY. (pcs)	Dimension(mm)					
		L/S	m³/min	cfm		Width	Diameter	Height	A	B	C(Reserved space for replacement)
DT009	RC1/4"	5.0	0.3	10.6	1	80.6	69	224.1	24.6	173.9	50.5
DT010	RC3/8"	10.0	0.6	21.2	1	80.6	69	224.1	24.6	173.9	50.5
DT011	RC1/2"	20.0	1.2	42.4	1	108.2	93.3	275.3	30.1	220.6	53.3
DT012	RC3/4"	25.1	1.5	53.0	1	108.2	93.3	275.3	30.1	220.6	53.3
DT013	RC1/2"	30.1	1.8	63.5	1	108.2	93.3	315.3	30.1	260.6	53.3
DT014	RC3/4"	33.4	2.0	70.6	1	108.2	93.3	315.3	30.1	260.6	53.3
DT015	RC3/4"	46.8	2.8	98.8	1	133	113.9	399.6	40.7	291	59.6
DT016	RC1"	60.1	3.6	127.1	1	133	113.9	399.6	40.7	291	59.6
DT017	RC1"	80.2	4.8	169.4	1	133	113.9	468.4	40.7	359.8	59.6
DT018	RC1-1/2"	100.2	6.0	211.8	1	133	113.9	468.4	40.7	359.8	59.6
DT019	RC1-1/2"	125.3	7.5	264.8	1	133	113.9	533.7	40.7	425.3	59.6
DT020	RC2"	200.0	12.0	424.0	1	170	158.3	783.07	52.92	662.97	59.6
DT021	RC2"	266.7	16.0	565.3	1	170	158.3	1065.38	52.92	945.27	59.6
DT022	RC2-1/2"	316.7	19.0	671.3	1	170	158.3	1065.38	52.92	945.27	59.6



Technical requirements		Maximum operating pressure:16barg 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	218	232
Correction factor		0.38	0.53	0.65	0.76	0.85	0.93	1	1.07	1.13	1.19	1.23	1.31	1.36	1.41	1.46	1.51

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

Innovation and development

YUKA has continuously invested a lot of resources to research and develop new products, materials, detection methods and equipment and processing technology to provide customers with the highest quality compressed air purification products.

Quality guarantee

All housings have been tested twice air tightness The production of filter element is carried out in a very strict environment and tested filtering filtration.

Energy-saving

DT series work pressure drop and its operation cost also reduced to the minimum, in some cases compared to ordinary filter, energy saved 50%.

DT series filter element grade and performance



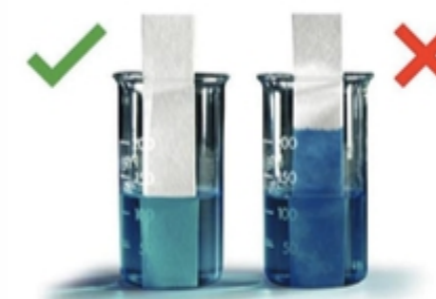
AO	AA	AX	ACS	AR	AAR
High efficiency general protection, dust particles, water mist and oil mist whose diameter more than 1 can be removed, the residual content of oil mist does not exceed 0.6 mg/m³ (21°C), 1ppm (w).	High efficiency oil removal filtration, dust particles, water mist and oil mist whose diameter more than 0.01µm can be removed, the residual content of oil mist does not exceed 0.01mg/m³ (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 0.001mg/m³ (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/m³ (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 a clear 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/m³	2.0mg/m³	< 0.01mg/m³	< 0.001 mg/m³	< 0.004 mg/m³	-	-



YUKA VS market ordinary material

Use YUKA filter element to bring you:

- Always high quality compressed air
- Continuous protection of downstream equipment and processes
- Low operating costs
- 12 months of performance guarantee
- Safety and reassurance

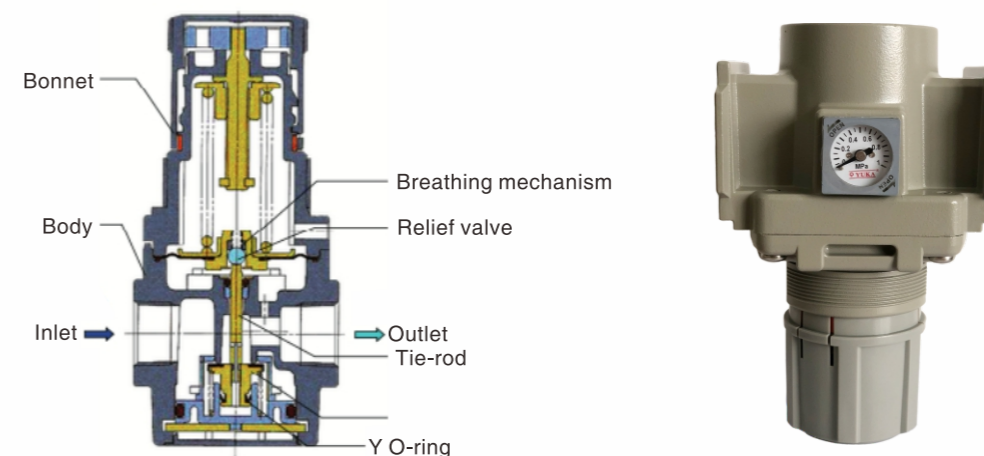
It is very important to change the filter element often and choose original accessories

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, this hidden and serious reduction 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 lead to low product performance and air quality, as well as high production cost.

Direct acting precision pressure regulating valve



Direct acting precision pressure regulating valve



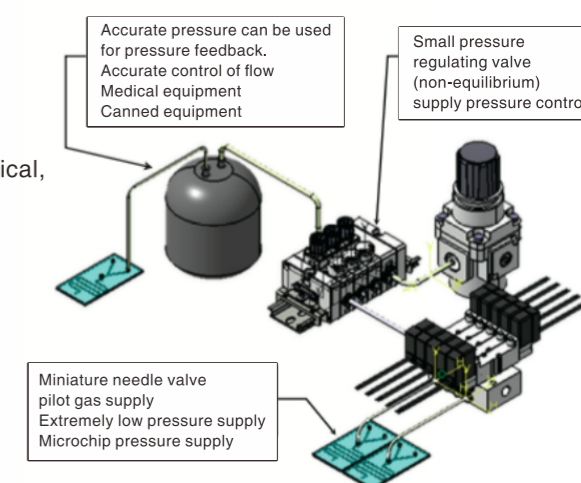
Model No.	Pipe size	Fluid type	Ambient temperature	Test pressure	Max. pressure	Pressure setting range	Setting precision	Repeated accuracy	Air consumption	Dimension (mm)		
										A	B	C
TY03	1/4" OR 3/8"	Air	-5~60°C	1.2Mpa	0.8Mpa	0.01~0.7 Mpa	≤0.2% F.S	± 1%F.S (200kpa: <± 3kpa)	<1L/min(ANR) (@P2=0.4Mpa)	70	36	133
TY06	1" OR 1-1/2"	Air	-5~60°C	1.2Mpa	0.8Mpa	0.01~0.7 Mpa	≤0.2% F.S	± 1%F.S (200kpa: <± 3kpa)	<1L/min(ANR) (@P2=0.4Mpa)	102	43	163

Product Features

- Use special breathing mouth to reduce air consumption
- Can control air pressure accurately
- Repeatability: full range $\pm 1\%$, when in 200 kpa, below $\pm 0.2\%$
- With function of the overflow and digital pressure display
- Can be applied to general industrial, integrated circuit, medical, generally start production line

Product Application

- Accurate flow control application,
- Accurate pressure adjustment application,
- Air pilot pressure supply,
- Test and check pressure supply,
- Research equipment pressure tool.



YFB Series High Efficiency Energy Saving Compressed Air Filters

Air flow rate 1.0m³/min-48.0m³/min



YFB Series Compressed Air Filter

This series is recommended for the industries in general automation equipment, pneumatic tools, printing, film production, etc.

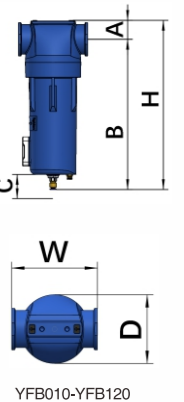
Product Features

- The filter housing is aluminum alloy die-casted, with tight and strong structure to ensure the safe use.
- All housings 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%
Filter element cover with different colors represents different filtration accuracy.
- The 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, the maximum pressure is 1. 6Mpa.
- The housing can bear pressure 3.2Mpa for 96hours, and the maximum burst pressure is 10.5Mpa.

Technical Specification

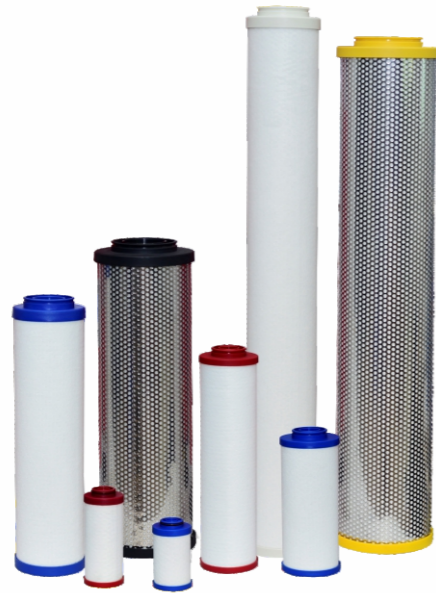
The flow rate below is the treatment capacity of compressed air under rated working pressure 7bar g(100psi g). For the application in other working pressure, please refer to the correction factors.

Model	Pipe size	Flow rates			QTY. (pcs)	Dimension(mm)					
		L/S	m ³ /min	cfm		Width	Diameter	Height	A	B	C(Reserved space for replacement)
YFB-010	RC1/2"	16.7	1.0	35.5	1	96	79	252	29	223	118
YFB-020	RC3/4"	25.0	1.5	53.0	1	96	79	252	29	223	118
YFB-030	RC3/4"	30.0	1.8	63.6	1	96	79	286	29	257	153
YFB-040	RC1"	33.3	2.0	71.0	1	96	79	286	29	257	153
YFB-050	RC3/4"	46.7	2.8	99.0	1	138	111	357	37	320	208
YFB-060	RC1"	60.0	3.6	127.0	1	138	111	357	37	320	208
YFB-070	RC1"	83.3	5.0	177.0	1	138	111	458	37	421	303
YFB-080	RC1-1/2"	125.0	7.5	265.0	1	138	111	458	37	421	303
YFB-090	RC2"	166.7	10.0	353.1	1	174	142	558	58	500	467
YFB-100	RC2-1/2"	216.7	13.0	459.0	1	174	142	558	58	500	467
YFB-110	RC2"	283.3	17.0	600.0	1	174	142	838	58	780	794
YFB-120	RC2-1/2"	316.7	19.0	671.0	1	174	142	838	58	780	794



Technical requirements: Maximum operating pressure:16barg 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	218	232
Correction factor		0.38	0.53	0.65	0.76	0.85	0.93	1	1.07	1.13	1.19	1.23	1.31	1.36	1.41	1.46	1.51



Filter element filtration precision and performance for YFB series



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 0.001mg/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	2.0mg/m ³	< 0.01mg/m ³	< 0.001 mg/m ³	< 0.004 mg/m ³	-	-

Saving costs in the short term seems to be a costly mistake. Having determined the pollution problems of the compressed air system and the needs for purification equipment, you still choose the poor quality filter element, what are the consequences for enterprises?

- Adsorbent cannot be replaced as planned for damaged adsorption drying bed.
- Corrosion in compressed air storage and transport systems.
- Plugging or freezing valves, pneumatic motors, and pneumatic tools.
- Damaged machines cause production downtime increased.
- The pollution of the valve and cylinder leads to unhealthy working condition, personal injury, employee absence and personal injury claims.
- Inefficient production processes cause manufacturing costs increased.
- Damaging reprocessed products.

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 lead to low product performance and air quality, as well as high production cost.



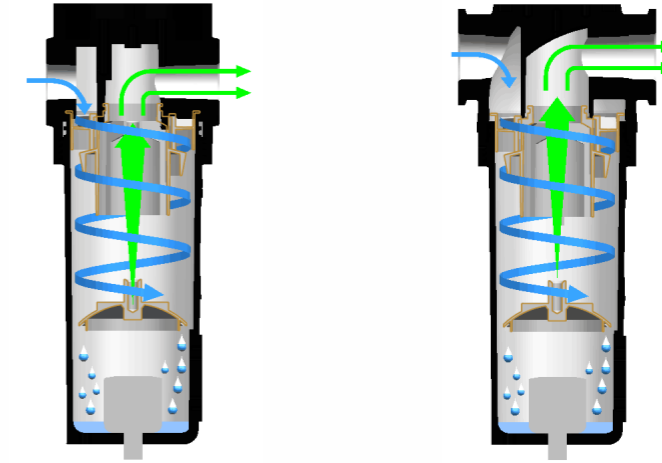
YUKA VS market ordinary material



WS & FWS High Efficiency Cyclone Water Separator



High efficiency compressed air cyclone water separator- WS & FWS Series



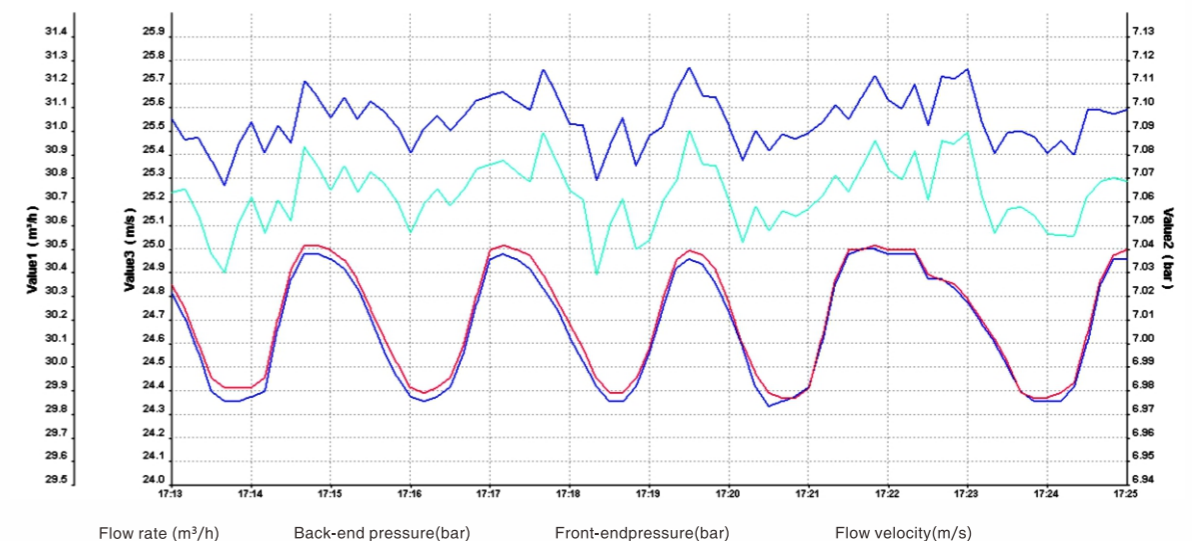
Problem in compressed air system

There is large amount of water in compressed air system, which will corrode the pipeline, damage the valves permanently, air cylinders and pneumatic tools and devices; reduce efficiency of the after-cooler/ heat exchanger.

Installation benefits of compressed air system

YUKA high efficiency cyclone water separator will remove 99% liquid water in compressed air, can protect the air dryers and filters and improve their performance.

- Reduce the corrosion to pipeline and damage to valves, air cylinders, electronic components by water.
- Protect air filter from bulk liquid contamination.
- Improve air quality.
- Protect the pre-filter of refrigerated air dryer and adsorption air dryer.
- Remove liquids in all fluids efficiently.
- Cut down the operational and maintenance costs.



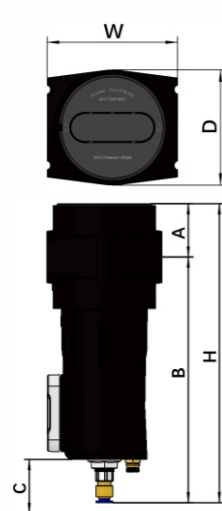
WS Series Technical Specification

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

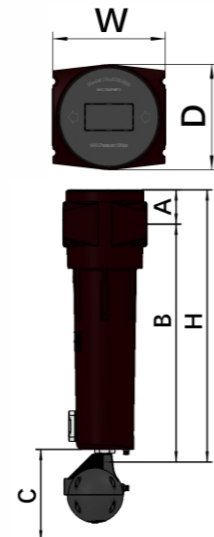
Model	Pipe size	Flow rates			QTY. (pcs)	Dimension(mm)	
		L/S	m ³ /min	cfm		W (Width)	H (Height)
WS 15	RC1/2"	40.0	2.4	84.5	1	89	228
WS 25	RC3/4"	60.0	3.6	127.1	1	89	228
WS 50	RC1"	75.0	4.5	158.9	1	89	263
WS 75	RC1"	125.0	7.5	264.8	1	120	335
WS 100	RC1-1/2"	166.7	10.0	353.1	1	120	335
WS 200	RC2"	300.1	18.0	635.6	1	164	564
WS 250	RC2-1/2"	416.8	25.0	882.8	1	164	664
WS 700	RC2-1/2"	700.0	42.0	1483.1	1	200	712
WS 800	RC3"	833.5	50.0	1765.6	1	200	712
WS 800F	DN80/DN100	833.5	50.0	1765.6	1	280	734/744
WS 1000F	DN100/DN125	1000.2	60.0	2118.7	1	280	780/795
WS 1200F	DN100/DN125	1166.7	70.0	2464.0	1	280	1058/1073

Technical requirements
Maximum operating pressure : 16barg
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	218	232
Correction factor		0.38	0.53	0.65	0.76	0.85	0.93	1	1.07	1.13	1.19	1.23	1.31	1.36	1.41	1.46	1.51



WS15-WS100



WS200-WS1000

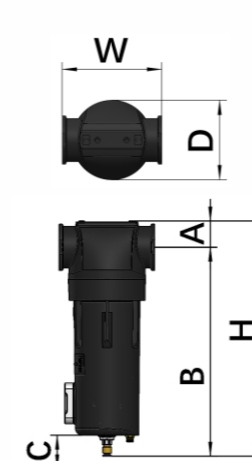
FWS Series Technical Specification

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

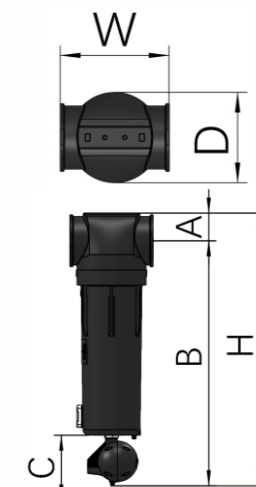
Model	Pipe size	Flow rates			QTY. (pcs)	Dimension(mm)	
		L/S	m ³ /min	cfm		W (Width)	H (Height)
FWS010	RC1/2"	40.0	2.4	84.5	1	96	233
FWS020	RC3/4"	60.0	3.6	127.1	1	96	233
FWS050	RC1"	75.0	4.5	158.9	1	96	268
FWS060	RC1"	125.0	7.5	264.8	1	138	339
FWS070	RC1-1/2"	166.7	10.0	353.1	1	138	339
FWS100	RC2"	300.1	18.0	635.6	1	174	669
FWS110	RC2-1/2"	416.8	25.0	882.8	1	174	669
FWS131	RC2-1/2"	700.0	42.0	1483.1	1	220	726
FWS140	RC3"	833.5	50.0	1765.6	1	220	726
FWS140F	DN80/DN100	833.5	50.0	1765.6	1	300	746/761
FWS150	RC4"	1000.2	60.0	2118.7	1	220	726
FWS150F	DN100/DN125	1000.2	60.0	2118.7	1	300	761/776
FWS170	RC4"	1166.7	70.0	2464.0	1	220	983
FWS170F	DN100/DN125	1166.7	70.0	2464.0	1	300	1018/1033

Technical requirements
Maximum operating pressure : 16barg
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	218	232
Correction factor		0.38	0.53	0.65	0.76	0.85	0.93	1	1.07	1.13	1.19	1.23	1.31	1.36	1.41	1.46	1.51



FWS010-FWS070



FWS100-FWS170F

Auto Drain series

The body of the drainer is made of a-grade aluminum alloy material, which is strong tightness, and the surface is sprayed and solidified. Anti-corrosion resistant to synthetic lubricants. The product installation is simple, noiseless, and easy to clean, without compressed air loss and operated safety. Clean drain body inside regularly every week, the drainage will be better and not easy to be blocked.

With the design concept of free-floating ball automatic drainage. The product does not need to consume electricity, which is safe, low carbon and Eco-friendly, it can save costs for customers.



The floating ball type zero air loss drain HAD10B



The floating ball type zero air loss drain HAD20B



The floating ball type zero air loss drain HAD30B

Working Principle

Drainer inside with a floating ball drainage system, when the drainage buoyancy is less than the weight of the floating ball and compressed air pressure, drainage device will be closed, when the buoyancy and pressure into balance, drainer starts to drip water. When the buoyancy is greater than the weight of the floating ball and the resulting pressure, the drain will open and drain, and drainer will cyclic work based on buoyancy.

Technical Specification

Mode No.	Inlet	Outlet	Max.working pressure	Min.working pressure	Max.working pressure	Starting value of liquid emission	Max.liquid discharge capacity	Dimension(mm)		
								Width	length	Height
HAD10B	RC1/2"	Φ6	1.6Mpa	1.5℃	85℃	22ml	84L/H	79	/	112
HAD20B	RC1/2"	RC1/2"	1.6Mpa	1.5℃	85℃	72-75ml	400L/H	/	134	125
HAD30B	RC1/2"	RC1/2"	1.6Mpa	1.5℃	85℃	91-93ml	800L/H	125	172	180

Benefits of YUKA Drain:

- Saving precious compressed air
- Effectively discharging condensate
- Protect downstream equipment from the damage caused by condensate

Differential Pressure Indicator/Gauge

The pressure difference indicator and differential pressure gauge are installed on the filter housing. Generally speaking, they are indicators, not accurate instruments that can provide correction or accuracy. The green and red areas are usually shown, and if the indicator is in the green area, the filter element does not need to be replaced. The differential pressure gauge is neither a filter service indicator nor an indicator of air quality. It can simply measure the pressure difference and the premature blockage of the filter element.



Differential Pressure Indicator



Differential Pressure Gauge

Manual & Automatic Integrated Drain

Manual and automatic one-piece design concept, improve the discharge performance of the drainer, protect the filter cartridge from the large amount of liquid pollution, the bottom drain hose provides more connections.



Internal drain

Liquid Sight Glass

Sight glass is made of imported high temperature and a low temperature resistant material, which is used to observe the liquid condition, test for a premature plug of drainer, do the maintenance work in advance, and protect downstream equipment from pollution.



Sight glass

Technical Data

Max. destructive temperature: 120 ° C, destructive pressure: 7.0 Mpa, min. destructive temperature: - 20 ° C