Quality comes from professionalism

Quality wins the market

Integrity builds brand

Service creates value

Luoyou Compressor (Shanghai) Co., Ltd.
Luoyou Compressor (Shanghai) Co., Ltd

Address: No. 2777 Wanfeng Road, Fengjing Town, Jinshan District, Shanghai

Website: www.shluoyou.com.cn

Public account QR code

Website QR Code

螺 优
LUOYOU

Stability, energy saving, innovation

LUOYOU

Screw air compressor

Double-stage compression permanent magnet inverter

Two-Stage Compression Permanent Magnet Frequency Conversion Screw Air Compressor

Luoyou excellent quality

EXCELLENT QUALITY

Stability · Energy saving · innovation

Luoyou Compressor Shanghai Co., Ltd. was established in the early 21st century, located in the world financial center.

Shanghai is a professional manufacturer of screw air compressors (oil-free and oil-free), blowers,

Vacuum pumps, scroll machines and refrigerated dryers, adsorption dryers, filters and gas storage

The company is a manufacturer of large gas source equipment such as gas tanks. The company adheres to the advanced design concept of German industry

With rigorous manufacturing technology and strong scientific research capabilities, we continuously innovate and develop products.

We strictly follow the production management under the CESO9001 international quality system to ensure that our production

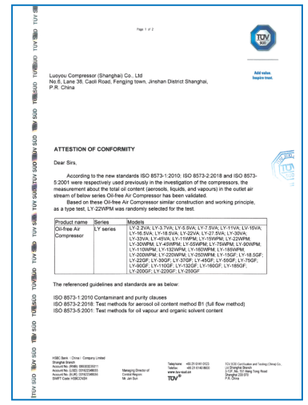
Each compressor of our company meets the highest international standards and is always in the leading position in the industry.

Bit.

螺优 LUOYOU

Enterprise Qualificatio

Qualifications



Stability · Energy saving · innovation

Two-stage compression permanent magnet variable frequency screw air compressor

Two-Stage Compression Permanent Magnet Frequency Conversion Screw Air Compressor

Specializing in energy saving and being different

The latest section of Energy Saver can save more than**40%**above

Super energy saving

Direct drive

High efficiency four-level permanent magnet motor

More energy-efficient

Low noise

Direct drive, low vibration

Low speed, low noise

Main engine intake silencer and

Compressor Inlet Design

High efficiency

Direct drive, large rotor

Low speed host

High rotation efficiency

螺优 LUOYOU

Efficient host

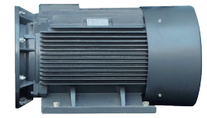
Select high-efficiency, large-displacement main engine to save energy forever

Magneto, truly small power, large displacement;

Large rotor, low speed, high efficiency, low noise,

Small vibration and low energy consumption.

Permanent Magnet Motor



Large starting torque, insulation class F,

protection class IP54, SKF bearings, low noise,

Long service life, with refueling device, no need to stop the machine

come on.

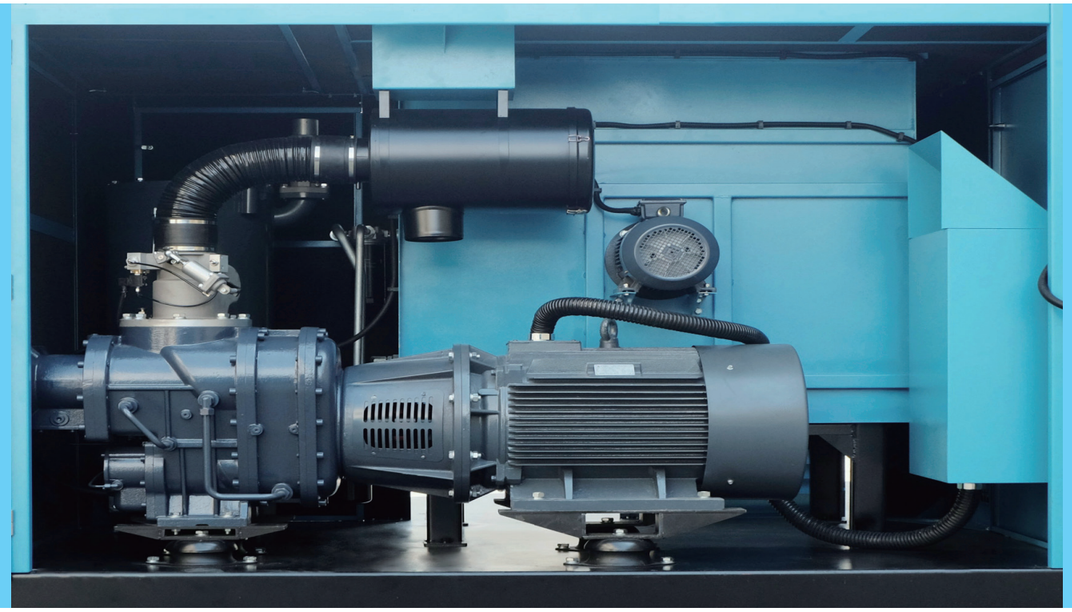
PM Control System

Integrated frequency conversion controller, humanized structure

Design, world-famous electronic control components, safe and reliable

Reliable, easy to operate, and can be used in a variety of communication controls

The system integrates a wide range of communication functions.



Oil and gas separation

Large capacity oil and gas separator, excellent quality

The oil content of the filter paper is controlled at 2PPM or above.

New equipment to ensure high quality of compressed air

Design, significantly reducing intake resistance.

High efficiency intake valve

Large diameter, low consumption. Improve system stability

Qualitative, ensuring startup, operation and shutdown phases

Effectively regulate and control flow.

Cooling system

Low power consumption, low noise, axial flow cooling fan,

Adopt air intake silencer design and reasonable cooling system

Design, the key to reliability.

Stability • Energy saving • innovation

Two-stage compression principle

- After the air is compressed in the first stage, the temperature of the second stage air is lowered by enhanced oil injection cooling, and the air is compressed isotropically, thus reducing the compression work.

The stage compression adopts isobaric ratio to set the interstage pressure, so the compression ratio of each stage is

The compression ratio is much lower than that of a single-stage, and the backflow leakage between the rotors

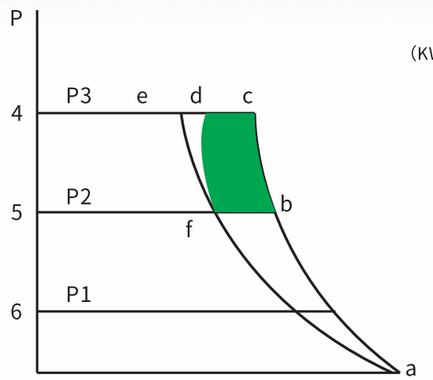
The volumetric efficiency and thermal insulation efficiency are greatly improved.

High, correspondingly increasing the compressed gas output.

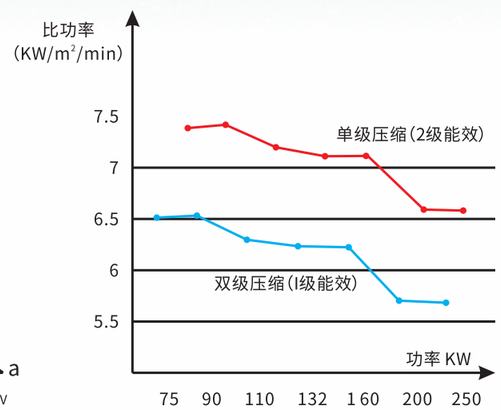
The two-stage compression has a gas output that is up to 15% lower than that of the single-stage compression, which can achieve up to 15% energy saving.

Advantages of two-stage compression

- The operating temperature is lower than that of single-stage compression, tending towards more power-saving isothermal compression, with a theoretical energy saving of 8%.
- Lower compression ratio per stage, reduced internal leakage, and increased volume ratio 5%~8%.
- It is helpful to adjust each stage of the rotor to achieve a better linear speed range of 25~35m/s and obtain higher compression transmission efficiency.



afe为等温压缩过程 abc为一级压缩过程 abfd为二级压缩过程 V



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2-stage Compressor Parameters

parameter Parameter	Motor power Motor Power (Kw)	Exhaust pressure Working Pressure (Mpa)	Volume flow FAD (M3/min)	Startup method Starting Method	Outlet pipe diameter Outlet Diameter	Unit weight Weight (Kg)	Dimensions Outline Specification (mm)
LY-15-8	15	0.8	0.85~2.8	forever magnetic Change frequency soft start move	RP11/2	700	1450*1050*1500
LY-15-10		1.0	0.79~2.4				
LY-15-13		1.3	0.64~2.2				
LY-22-8	twenty two	0.8	1.3~4.1		RP11/2	790	1450*1050*1500
LY-22-10		1.0	1.11~3.5				
LY-22-13		1.3	1.0~3.2				
LY-30-8	30	0.8	1.83~6.3		RP11/2	1030	1500*1100*1650
LY-30-10		1.0	1.5~4.9				
LY-30-13		1 3	1.43~4.2				
LY-37-8	37	0.8	2.1~7.1		RP11/2	1120	1500*1100*1650
LY-37-10		1.0	1.7~5.8				
LY-37-13		1.3	1.5~5.4				
LY-45-8	45	0.8	2.9~9.7		RP2	2010	2060*1260*1590
LY-45-10		1.0	2.5~7.8				
LY-45-13		1.3	2.3~6.5				
LY-55-8	55	0.8	3.8~13.3		RP2	2230	2190*1380*1890
LY-55-10		1.0	2.9~9.6				
LY-55-13		1.3	2.5~8.6				
LY-75-8	75	0.8	4.5~16.5		RP2	2340	2400*1400*1950
LY-75-10		1.0	4.3~12.5				
LY-75-13		1.3	3.7~11.2				
LY-90-8	90	0.8	3.8~19.2		DN65	3220	2666*1370*1918
LY-90-10		1.0	3.4~16.9				
LY-90-13		1.3	2.9~14.3				
LY-110-8	110	0.8	4.5~23.1		DN65	3380	2650*1800*2050
LY-110-10		1.0	4.0~19.7				
LY-110-13		1.3	3.6~19.8				
LY-132-8	132	0.8	5.4~28.0		DN80	3480	2650*1800*2050
LY-132-10		1.0	4.5~23.5				
LY-132-13		1.3	4.0~19.8				
LY-160-8	160	0.8	6.5~33.6		DN80	3850	3400*2100*2000
LY-160-10		1.0	6.0~30.0				
LY-160-13		1 3	5.0~23.8				
LY-185-8	185	0.8	7.0~38.4		DN100	5000	3400*2100*1530
LY-185-10		1.0	6.4~32.5				
LY-185-13		1.3	5.6~28.6				
LY-200-8	200	0.8	8.6~43.0		DN100	5450	3500*2100*2000
LY-200-10		1.0	7.6~38.5				
LY-200-13		1.3	6.6~32.8				
LY-220-8	220	0.8	10.0~47.0		DN125	6590	4000*2100*1980
LY-220-10		1.0	9.0~41.9				
LY-220-13		1 3	7.4~38.0				
LY-250-8	250	0.8	16.5~51.0		DN125	6880	4000*2400*2300
LY-250-10		1.0	14.3~46.0				
LY-250-13		1 3	13.1~41.2				
LY-280-8	280	0.8	18.6~56.5		DN125	7280	4000*2400*2300
LY-280-10		1.0	17.2~51.0				
LY-280-13		1.3	15.5~46.0				
LY-300-8	300	0.8	24.1~60.3		DN150	8500	4000*2400*2300
LY-300-10		1.0	22.6~56.5				
LY-300-13		1.3	20.6~51.5				
LY-330-8	330	0.8	26.0~65.0		DN150	8800	4000*2400*2300
LY-330-10		1.0	24.1~60.2				
LY-330-13		1.3	22.6~56.5				
LY-355-8	355	0.8	28.2~70.6		DN150	9200	4000*2400*2300
LY-355-10		1.0	26.3~65.8				
LY-355-13		1.3	24.6~61.6				

Low Pressure 2-stage Compressor Parameter

parameter Parameter	Motor power Motor Power (Kw)	Exhaust pressure Working Pressure (Mpa)	Volume flow FAD（M3/min)	Startup method Starting Method	Outlet pipe diameter Outlet Diameter	Unit weight Weight (Kg)	Dimensions Outline Specification (mm)
LY-15-4	15	0.4	1.0-3.9	forever magnetic Change frequency	G1 1/2	1030	1500*1100*1650
LY-15-5		0.5	0.9-3.5				
LY-22-4	twenty two	0.4	1.6-6.4		G1 1/2	1120	1500*1100*1650
LY-22-5		0.5	1.5-6.1				
LY-30-4	30	0.4	2.1-8.8		G2	2010	2060*1260*1890
LY-30-5		0.5	1.9-7.7				
LY-37-4	37	0.4	2.6-10.3		G2	2230	2190*1380*1890
LY-37-5		0.5	2.4-9.5				
LY-45-4	45	0.4	3.3-13.1		G2	2340	2400*1400*1950
LY-45-5		0.5	2.9-11.5				
LY-55-4	55	0.4	3.9-15.5		DN65	3220	2666*1370*1918
LY-55-5		0.5	3.4-14.5				
LY-75-4	75	0.4	4.2-20.7		DN65	3380	2650*1800*2050
LY-75-5		0.5	3.8-19.0				
LY-90-4	90	0.4	6.4-25.6		DN80	3480	2650*1800*2050
LY-90-5		0.5	5.9-23.6				
LY-110-4	110	0.4	7.7-30.0		DN100	3850	3400*2100*2000
LY-110-5		0.5	7.2-28.2				
LY-132-4	132	0.4	9.6-38.3		DN125	5000	3400*2100*2000
LY-132-5		0.5	8.8-34.9				
LY-160-4	160	0.4	11.-44.0		DN125	5450	3500*2100*2000
LY-160-5		0.5	10.5-42.0				
LY-185-4	185	0.4	12.7-50.0		DN125	6590	4000*2100*2000
LY-185-5		0.5	11.5-46.0				
LY-200-4	200	0.4	13.7-55.0		DN150	6880	4000*2100*2000
LY-200-5		0.5	12.5-50.0				
LY-220-4	220	0.4	15.3-61.0		DN150	7280	4000*2400*2300
LY-220-5		0.5	13.7-55.0				
LY-250-4	250	0.4	16.3-65.0		DN150	8500	4000*2400*2300
LY-250-5		0.5	15.3-61.0				
LY-280-4	280	0.4	19.2-76.9		DN200	8800	4000*2400*2300
LY-280-5		0.5	17.8-71.0				
LY-300-4	300	0.4	20.6-82.5		DN200	9400	4300*2400*2600
LY-300-5		0.5	19.2-76.8				
LY-330-4	330	0.4	21.3-85.5		DN200	9800	4300*2400*2600
LY-330-5		0.5	20.6-82.4				

Horizontal 2-stage Compressor Parameter

parameter Parameter	Motor power Motor Power (Kw)	Exhaust pressure Working Pressure (Mpa)	Volume flow FAD（M3/min)	Startup method Starting Method	Outlet pipe diameter Outlet Diameter	Unit weight Weight (Kg)	Dimensions Outline Specification (mm)
LY-22-8	twenty two	8	1.3~4.1	forever magnetic Change frequency soft start move	RP11/2	790	1750*1050*1500
LY-22-10		10	1.11~3.5				
LY-22-13		13	1.0~3.2				
LY-30-8	30	8	1.83~6.3		RP11/2	1030	1800*1100*1650
LY-30-10		10	1.5~4.9				
LY-30-13		13	1.43~4.2				
LY-37-8	37	8	2.1~7.1		RP11/2	1120	1800*1100*1650
LY-37-10		10	1.7~5.8				
LY-37-13		13	1.5~5.4				
LY-45-8	45	8	2.9~9.7		RP2	2010	2360*1260*1590
LY-45-10		10	2.5~7.8				
LY-45-13		13	2.3~6.5				
LY-55-8	55	8	3.8~13.3		RP2	2230	2490*1380*1890
LY-55-10		10	2.9~9.6				
LY-55-13		13	2.5~8.6				
LY-75-8	75	8	4.5~16.5		RP2	2340	2700*1400*1950
LY-75-10		10	4.3~12.5				
LY-75-13		13	3.7~11.2				

Freeze dryer

Refrigerated Dryer

Normal temperature cold dryer

Working conditions and technical indicators

- Inlet air temperature: 2~45℃
- Ambient temperature: 2~40℃
- Pressure dew point: 2~10℃
- Inlet pressure: 0.4~1.0MPa
- Pressure loss: ⩽ 3%P
- Cooling method: air cooling

High temperature cold dryer

Working conditions and technical indicators

- Inlet air temperature: ⩽ 80℃
- Cooling method: water cooling and air cooling
- Inlet pressure: 0.6-1.0Mpa
- Pressure loss: ⩽ 0.03Mpa
- Pressure dew point: 2-10℃
- Refrigerant: R22 (environmentally friendly refrigerant optional)
- Cooling water inlet pressure: 0.2-0.4Mpa

Technical Parameters

Model		LY001NF	LY002NF	LY003NF	LY006NF	LY008NF	LY010NF	LY013NF	LY018NF	LY020NF	LY025NF	LY030NF	LY040NF	LY050NF	LY060NF
Maximum air handling capacity Capacity (m3/min)		1.2	2.4	3.8	6.5	8.5	10.7	13.5	18	twenty three	28	33	45	55	65
Power Voltage (V/HZ)		220/50					380/50								
Compressor power Campressor power (HP)		1/0.85	1/0.85	1.25/1.0	1.5/1.25	2.0/1.8	3/2.5	3/2.5	3.5/3	5.0/4.0	6.0/4.5	6.5/5	10/7.5	12/9	12/10
Fan power (W)		55	90	150	190	190	2×150	2×150	550	550	3×150	3×190	3×240	3×380	3×670
Air inlet and outlet diameter Air connection		ZG1		ZG1.5			ZG2		ZG65	ZG80		ZG100		ZG125	
Weight(KG)		48	78	105	125	130	180	192	240	280	380	480	620	780	970
Dimensions Dimens ions (mm)	Length	630	700	850	880	1050	1180	1180	1400	1400	1700	1840	2100	2450	2550
	Width	450	450	500	550	580	670	670	640	640	850	850	1050	1100	1100
	Height	640	830	920	1020	1000	1080	1080	1310	1310	1468	1520	1697	1697	1834

Filters

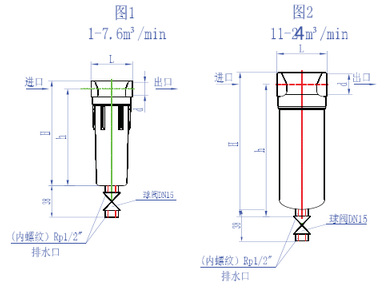
Precision Filters

Untreated air contains dirt such as water and dust, and there are about 140 million solid particles in each cubic meter of air. During the compression and pressure-increasing process of filtered air, oil particles enter the compressed air, so that there are not only dust and water, but also dirt such as oil particles. If these dirt cannot be removed, they will inevitably pollute and corrode equipment such as pipelines, valves, and instruments. Therefore, not only the service life is reduced, but also the production cost is increased, and the product quality cannot be guaranteed.

Compressed air is the main safe energy source for large-scale industrial production. The LOYOO condensing high-efficiency filter can ensure the high-quality removal of impurities such as water, solid particles, oil and bacteria in the compressed air, ensuring that the most cost-effective products are provided to users.

The Luoyou coalescing filter adopts the leading European technology and adopts pleated filter element, which has the advantages of small size, large flow rate, high filtration efficiency, large dust holding capacity, small pressure difference loss, good corrosion resistance and long service life; easy to replace the filter element.

All filters at all levels have passed the test of the high-efficiency filter exhaust oil content test instrument that meets the ISO8573 standard. The difference is within a millimeter, but the benefits are worlds apart.



Maximum working pressure: 1.0MPa Working temperature: 1-66°C External automatic drain valve can be selected

alumin
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Pressure
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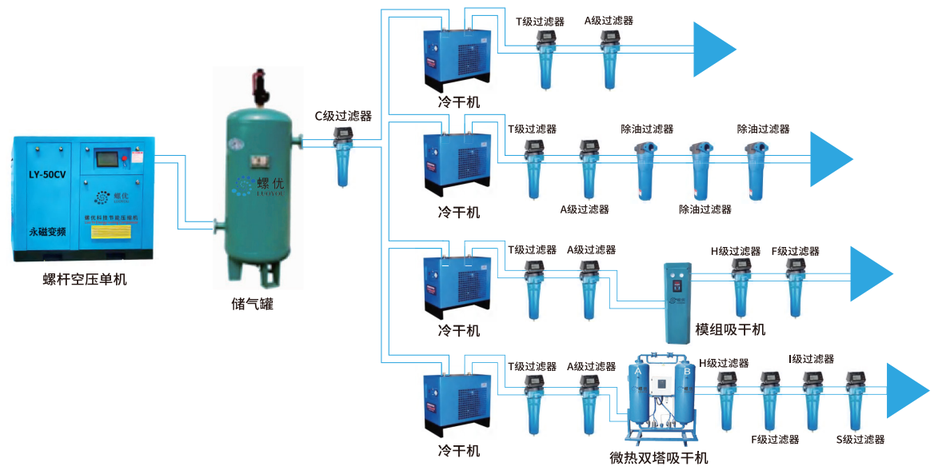

Stability · Energy saving · innovation

High efficiency filter performance parameters

C-class air-water separator

Remove particles larger than 5um Water removal efficiency

99% Residual oil content: ⩽ 10ppmw

Special stainless steel cyclone wire mesh composite separation element,

Removable and washable, no need to replace;

Initial pressure difference: 0.007mpa

T-class fine filter

Remove particles larger than 1μm

Residual oil content: ⩽ 0.1PPM w/w

As a pre-filter for Class B ultra-fine filters

Initial pressure difference: 0.01MPa

Filter element replacement pressure difference: 0.07MPa

Class A ultra-fine filter

Remove particles larger than 0.01μm.

Residual oil content: ⩽ 0.01PPM w/w

As activated carbon filter (class C) and adsorption

Pre-filter for compressed air dryer

Initial pressure difference: 0.012MPa

Filter element replacement pressure difference: 0.07MPa

(Higher precision can be customized)

X Activated Carbon Deodorizing Filter

Removes oil vapor and hydrocarbon odors

Residual oil content: ⩽ 0.003PPM w/w

Initial pressure difference: 0.02MPa

Filter element replacement pressure difference: working 1000 hours

Replace after

Filter element replacement pressure difference 0.07MPa

F-class dust filter

Remove particles larger than 1μm

Commonly used at the outlet of adsorption dryer

Air inlet and outlet directions and A and B grades

Filters are the opposite.

Initial pressure difference 0.01MPa

H-Class Pre-Filter

Remove particles larger than 2μm, and the water removal efficiency is

99% and above

Residual oil content: ⩽ 2PPM w/w

Effectively blocks dirt and acts as a Class A fine filter

And refrigerated dryer pre-filter

Initial pressure difference: 0.01MPa

Filter element replacement pressure difference: 0.07MPa

High efficiency filter model specification table

model	Air flow Nm3/min	Air connection caliber	Dimensions (mm)			weight (kg)
			D	W	H	
C, T, A, H-001	1.4	ZG1	70	102	285	1.4
C, T, A, H-002	2.4	ZG1	70	102	285	1.4
C, T, A, H-003	3.8	ZG1.5	92	138	370	2.2
C, T, A, H-006	6.5	ZG1.5	88	138	470	3.3
C, T, A, H-008	8	ZG1.5	88	138	470	3.3
C, T, A, H-010	10.7	ZG2	107	135	612	4.6
C, T, A, H-013	13.5	ZG2	107	135	612	6.8
C, T, A, H-015	18	ZG2.5	133	151	921	9.8
C, T, A, H-020	25	ZG2.5	133	151	930	11

Note: The above parameters are for reference only, the actual conditions shall prevail.

SnailCarbon steel gas tank

S2The oil, water and particle removal are improved compared with the original tank

50%↑

Technical parameters:

Volume: 0.1m³--100m³

Working pressure: 0.8Mpa~7.0Mpa

Material:Q235B/Q345R

Medium: air, steam, nitrogen, oxygen, water

Service life: 10~15 years

Supporting use: Used with air compressors, cold dryers, filters and other equipment to form a power source compressed air station for industrial production.

Model Specifications

Volume / Work Pressure	design Temperature °C	container Total height H	Inside the container Diameter Φ	Air Inlet H1	Air Inlet Nominal diameter	Air Inlet Thread	H2	Air outlet Nominal diameter	Air outlet Thread	Support Φ1	Support d	Blowdown valve	Matching air compressor (refer to) Capacity m³/min
0.3/0.8	100	1614	550	667	50	Rp1½"	1217	50	Rp1½"	400	20	R1/2"	2.5~3
0.3/1.0		1616											2.5~3
0.3/1.3	110	1626		668			1218						2.5~3
0.6/0.8	100	2124	650	693	65	Rp1½"	1643	65	Rp1½"	470	20	R1/2°	4.8~6
0.6/1.0		2126		694			1644						4.8~6
0.6/1.3	110	2140		694			1706						4.8~6
1.0/0.8	100	2202	800	800	65	Rp1½"	1840	65	Rp1½"	560	25	R1/2"	8~10
1.0/1.0		2204											8~10
1.0/1.3	110	2206					1920						8~10
1.5/0.8	110	2290	1000	767	65	Rp2	2067	65	Rp2	670	25	R1/2"	12~15
1.5/1.0		2290		767									12~15
1.5/1.3		2292		769			2069				twenty four		12~15
2.0/0.8	110	2810	1000	780	80	Rp2"	2280	80	Rp2"	700	twenty four	R1/2"	16~20
2.0/1.0													16~20
2.0/1.3													16~20
3.0/0.8	110	2962	1200	905	80		2205	80		950	twenty four	R3/4"	24~30
3.0/1.0		2964		906			2206						24~30
3.0/1.3		2966		907			2207						24~30
4.0/0.8	110	3060	1400	930	100		2430	100		1050	twenty four	R3/4"	32~40
4.0/1.0		3062		931			2431						32~40
4.0/1.3		3066		933			2433						32~40
5.0/0.8	110	3750	1400	930	100		3130	100		1050	twenty four	R3/4"	40~50
5.0/1.0		3752		931			3131						40~50
5.0/1.3		3756		932			3133						40~50

Application Areas

Application Scenario

Industry customized energy-saving air compressor

Equipment flow chart

Screw air compressor

gas tank

1 Applicable to general mechanical welding, mining, etc.;

Complies with 1SO8573.1:3.-.4

C-Class Filters

2 Suitable for general workshops, pneumatic tools, sandblasting etc.; Comply with IS08573.1:2.-.2

C-Class Filters — Cold dryer — T-Class Filters

3 Applicable to food, beverage, electrostatic coating, laser cutting, precision control valve, etc., optional filter group

With modular configuration >4 filter levels,

Differential pressure indicator, automatic drain valve; in accordance with IS08573.1:1.-.1

C-Class Filters — Cold dryer — T-Class Filters — Class A Filter — X-Class Filters — Class F Filters

4 Applicable to food, beverage, medical, clean and sterile laboratories, automation technology equipment, precision electronics Industry, etc.; Comply with 1S08573.1:1.-.1

C-Class Filters — T-Class Filters — Cold dryer — Class A Filter — X-Class Filters — H-class filter — gas tank — Dryer — Class F Filters — FF Class Filters

服务0距离

Considerate Service

Fast and professional after-sales service

Luoyou has a professional after-sales service team and has after-sales service points in major cities across the country to provide customers with timely and professional service support and genuine original parts supply.

- Provide professional startup and debugging services and user training guidance;
- 4-hour quick response and 24-hour on-site service;
- Professional personnel and professional tools provide fault diagnosis and repair services;
- Regular on-site inspections and provision of planned maintenance recommendations;
- Original spare parts, worry-free after-sales service;
- Provide proactive consulting services, optimize equipment operation management, and improve energy efficiency;
- Provide energy-saving transformation and optimization services.