

Itair

IN THE WORLD



Itair



Itair
COMPRESSOR

About our obligation

Itair not only provide customers with first-class products and good services but also comprehensive solutions for air system. We have users throughout various industries such as shipbuilding, steel, textile, mining, blasting, railway, tunnel. Our aim is to help customers get the professional products and technologies to save energy and production cost.

About our products

Itair strictly adopts and follows the international quality system authentication standard and professional management of compressor industry to ensure the high-efficiency, reliability and advanced technology of each Itair compressor. The capacity of Itair compressors is ranged from 0.5 m3 per minute to 90 m3 per minute and pressure is ranged from 0.5 Mpa to 3.5 Mpa. We are one of the most competitive suppliers in the industry of screw compressors.

About our market

We emphasize development and introduce new products into the market every year. Our products sell well in domestic and international markets, Such as Asia, Europe, Africa and South America, and are favorably appraised by clients.



Compressed air solutions expert
Always focus on quality
and innovation



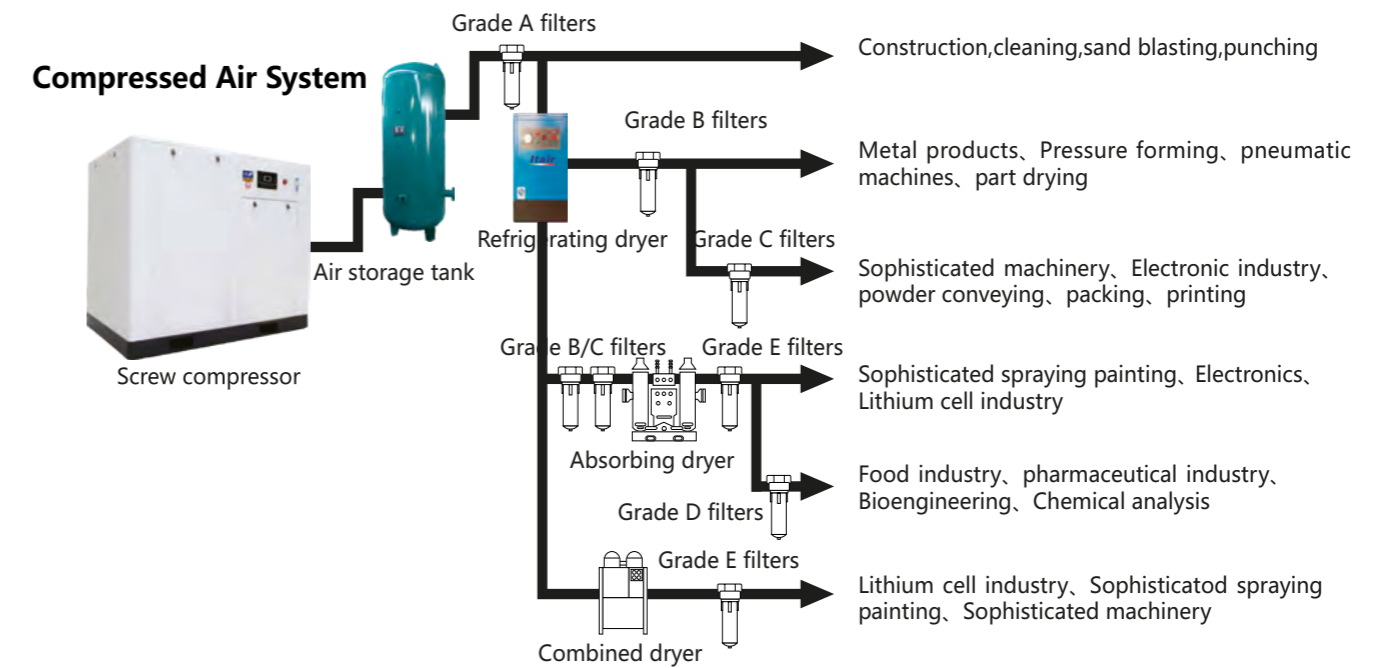
Equipment and production Line



We constantly debug, update, and perfect the existing equipments. High quality and efficiency production line is ensured by automatic computer control system.

A systematic and intensive performance test for every compressor is carried out on different test platforms in different workshops according to DIN- ISO standards. Thus our compressors are able to perform the specified programs continuously.

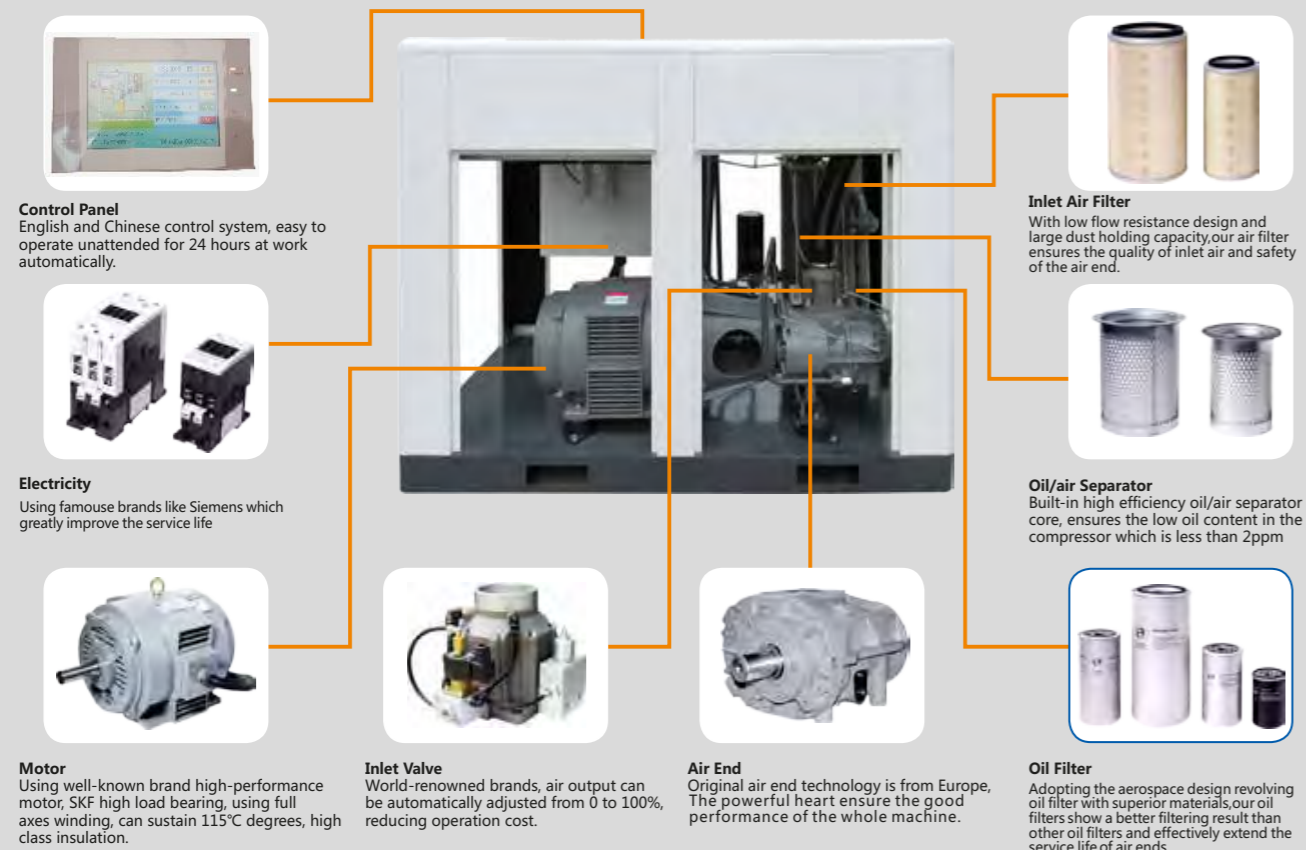
Air Compressor System



Air Components And Product Features



The main design ideas are big rotor, large bearing, low-speed and branded screw air ends.
 High-Power models mainly use direct driven without gear box.
 Low rpm reduces the failure rate and improves the force status of air end.
 We use the world famous SKF (Sweden) bearings which are high-speed & heavy duty and SEALTECH (France) high-speed & high-pressure shaft seal.
 The main performance indexes of air end, such as, specific power, noise, vibration & reliability which are the world first-class standards.
 Well-designed noise reduction system makes the noise frequency 30~50% less than other brands which reduces the stimulation for human eardrum.
 Simple and mature structure makes failure rate lower.
 Easily assembled and easy to maintain.



Intelligent Control System

Microprocessor control system. Convenient to operate
 Continuously monitor and precisely reveal compressor's condition, implement the multiple compressors coordinated control and remote communication.
 Fast Diagnosis. The system will alarm and stop when compressor's malfunction or the parameters exceed the pre-set numbers

High Efficiency and Energy Saving

Most advance rotors and the optimized rotor profile from Europe
 Use import inlet valve which can automatically adjusted from 0-100% to save energy
 Customizing motor can save 5% electric power, safe and high efficiency
 Using intelligent control system and the automatic on/off loading system to ensure low operation cost and energy consumption

Safety and Applicability

With the high strength base, solid housing, high quality imported thermostat valve, strong stainless steel pipe, and well-designed anti-dust system, our compressors will not leak or crack under high temperature, high pressure or high humidity conditions. The applicable temperatures are between -5°C to 46°C

Super Quiet Design

Closed sound insulation housing and interior sponge sound absorber design make it 3-5DB less noise than major competing machines. The reasonable structure design makes the compressor easy to test and repair.

All-In-One Screw Air Compressor



» Screw air compressor with tank
Technical parameter

TANK MOUNTED SCREW AIR COMPRESSOR (2-IN-1 TYPE)									
Model	Motor Power		Free Air Deliver	Free Air Deliver	Discharge Pressure	Tank Volume	Electricity	Weight	Size
	(KW)	(HP)	(m ³ /min)	(CFM)	(MPA)	(L)	(V/ph/Hz)	(KG)	(mm)
AGCB-7.5A	5.5	7.5	0.75	27	0.8	300	380/3/50	370	1600*600*1300
AGCB-10A	7.5	10	1.1	39	0.8	300	380/3/50	380	1600*730*1550
AGCB-15A	11	15	1.5	53	0.8	300	380/3/50	420	1600*800*1670
AGCB-20A	15	20	2.3	81	0.8	500	380/3/50	490	1650*800*1780

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» Screw air compressor with tank and dryer
Technical parameter

TANK AND DRYER MOUNTED SCREW AIR COMPRESSOR (3-IN-1 TYPE)									
Model	Motor Power		Free Air Deliver	Free Air Deliver	Discharge Pressure	Tank Volume	Electricity	Weight	Size
	(KW)	(HP)	(m ³ /min)	(CFM)	(MPA)	(L)	(V/ph/Hz)	(KG)	(mm)
AGC-7.5A	5.5	7.5	0.75	27	0.8	300	380/3/50	410	1900*700*1300
AGC-10A	7.5	10	1.1	39	0.8	300	380/3/50	425	1900*730*1520
AGC-15A	11	15	1.5	53	0.8	300	380/3/50	475	1900*700*1630
AGC-20A	15	20	2.3	81	0.8	500	380/3/50	540	2000*800*1800

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Screw Air Compressor Belt driven models

» Technical parameter

TECHNICAL SPECIFICATIONS (BELT DRIVEN TYPE)												
MODEL	AGS-5	AGS-7	AGS-10	AGS-15	AGS-20	AGS-25	AGS-30	AGS-40	AGS-50	AGS-60	AGS-75	AGS-100
Free air deliver / Discharge pressure (m ³ /min/Mpa)	0.55/0.8	0.85/0.7 0.75/0.8	1.2/0.7 1.1/0.8 0.9/1.0 0.7/1.2	1.6/0.7 1.5/0.8 1.3/1.0 1.1/1.2	2.5/0.7 2.3/0.8 2.1/1.0 1.9/1.2	3.2/0.7 2.9/0.8 2.6/1.0 2.2/1.2	3.8/0.7 3.6/0.8 3.2/1.0 2.8/1.2	5.2/0.7 5.0/0.8 4.5/1.0 3.8/1.2	6.8/0.7 6.2/0.8 5.6/1.0 4.9/1.2	7.3/0.7 7.0/0.8 6.0/1.0 5.6/1.2	10.0/0.7 9.1/0.8 8.5/1.0 7.6/1.2	13.5/0.7 12.6/0.8 11.2/1.0 10.0/1.2
Free air deliver / Discharge pressure (CFM/PSI)	20/116	30/102 27/116	42/102 39/116 32/145 25/174	57/102 53/116 46/145 39/174	88/102 81/116 74/145 67/174	113/102 102/116 92/145 78/174	134/102 127/116 113/145 99/174	184/102 177/116 159/145 134/174	240/102 219/116 198/145 173/174	258/102 247/116 212/145 198/174	353/102 322/116 300/145 269/174	477/102 445/116 396/145 353/174
Compression Stage	Single Stage											
Ambient temperature	-5~+45°C											
Cooling mode	Air Cooling											
Discharge temperature (°C)	Ambient temperature+15°C											
Lubricant (L)	3	3.7	3.7	10	10	14.5	14.5	15	20	20	45	45
Noise level (Db)	62±2			64±2		65±2		66±2		68±2		
Drive method	Belt Driven											
Electricity (V/ph/Hz)	380/3/50											
Motor power (KW/HP)	4/5.5	5.5/7.5	7.5/10	11/15	15/20	18.5/25	22/30	30/40	37/50	45/60	55/75	75/100
Starting method	Direct Starting					Y-Δ Starter (Star Delta Starting)						
Dimension L*W*H (mm)	920*600*695	860*730*960	860*730*960	940*800*1075		1200*950*1150		1400*930*1280	1500*990*1420		1730*1050*1550	1730*1070*1650
Net weight (kg)	135	210	223	315	325	455	491	566	695	745	1090	1240
Air outlet diameter (inch/mm)	3/4"					1"		1 1/2"		2"		

Screw Air Compressor Direct driven Models

» Technical parameter



TECHNICAL SPECIFICATIONS (DIRECT DRIVEN TYPE)

Model	AGD-20A	AGD-25A	AGD-30A	AGD-40A	AGD-50A	AGD-60A	AGD-75A	AGD-100A	AGD-120A	AGD-150A	AGD-175A	AGD-200A	AGD-250A	AGD-300A	AGD-350A	
Free air deliver	2.5/0.7	3.2/0.7	3.8/0.7	5.2/0.7	6.8/0.7	7.3/0.7	10.0/0.7	13.5/0.7	16.1/0.7	21.0/0.7	25.2/0.7	28.7/0.7	32.0/0.7	36.7/0.7	42.0/0.7	
/Discharge pressure	2.3/0.8	2.9/0.8	3.6/0.8	5.0/0.8	6.2/0.8	7.0/0.8	9.1/0.8	12.6/0.8	15.0/0.8	19.8/0.8	24.0/0.8	27.6/0.8	30.5/0.8	34.5/0.8	40.5/0.8	
(m ³ /min/Mpa)	2.1/1.0	2.6/1.0	3.2/1.0	4.5/1.0	5.6/1.0	6.0/1.0	8.5/1.0	11.2/1.0	13.8/1.0	17.0/1.0	21.0/1.0	24.6/1.0	27.5/1.0	30.2/1.0	38.1/1.0	
	1.9/1.2	2.2/1.2	2.8/1.2	3.8/1.2	4.9/1.2	5.6/1.2	7.6/1.2	10.0/1.2	12.3/1.2	15.3/1.2	18.3/1.2	21.5/1.2	24.8/1.2	27.8/1.2	34.6/1.2	
Compression stage	single stage															
Ambient temperature	-5--+45°C															
Cooling model	Air --Cooling									Air-Cooling&Water-Cooling			Water-Cooling			
Discharge temperature(°C)	Ambient temperature+15°C															
Lubricant(L)	18				30			65			90		110			
Noise level(Db)	64±2		68±2				72±2			75±2			72±2			
Drive method	Direct coupled															
Electricity(V/ph/Hz)	380/3/50															
Motor power(KW/HP)	15/20	18.5/25	22/30	30/40	37/50	45/60	55/75	75/100	90/120	110/150	132/175	150/200	185/250	220/300	250/350	
Starting method	Star-delta starting															
Size:L*W*H (mm)	1160x700x1100	1200*950*1150	1200X900X1150	1400X900X1225	1560X1000X1365	1560X1000X1365	1800X1070X1490	1800X1070X1490	2100x1400x1780	2500x1450x1800	2700x1550x1800	2700x1550x1800	2800x1800x1950	2800x1800x1950	3250X2100X2300	
Weight(kg)	335	450	510	620	740	820	1100	1270	2100	2150	3500	3900	4200	4600	5000	
Air outlet pipe diameter(inch/mm)	3/4"	1"			1 1/2"			2"			DN65		DN80		DN100	

Screw Air Compressor variable Speed Models



More Reliable

Variable screw air compressors start smoothly and can avoid the peak current.
Avoiding the negative factors from constant high-speed running.
Reducing the possibility of the system leaks by setting the surpass pressure under 2 bar

Provide stable constant compressed air

The displacement pressure can be set between 3-14 bar without gearbox or belt.
Our compressor will supply stable compressed air after pre-setting a certain pressure within a difference range of ± 0.1 bar.
When the system has a high demand of air, the machine will run faster and keep providing stable compressed air.
When the system has a low demand of air, the machine will run slower and keep providing stable compressed air.

» Technical parameter

TECHNICAL PARAMETER OF EPM SCREW AIR COMPRESSOR

Model	Exhaust Pressure (Mpa)	Air Flow (m ³ /min)	Motor Power (KW)	Size (L×W×H)mm	Outlet Size (size)	Weight (Kg)
SMN-10A	0.8	1.1	7.5	950×650×900	3/4"	260
	1.0	0.9				
SMN-20A	0.8	2.3	15	1160×700×1100		350
	1.0	2.0				
SMN-30A	0.8	3.8	22	1200×900×1150	1"	530
	1.0	3.6				
SMN-40A	0.8	5.2	30	1400×900×1225	1 1/2"	630
	1.0	4.8				
SMN-50A	0.8	6.5	37	1560×1000×1365		750
	1.0	5.7				
SMN-60A	0.8	7.5	45	1560×1000×1365		830
	1.0	6.8				
SMN-75A	0.8	10.5	55	1800×1070×1490	1120	
	1.0	8.9				
SMN-100A	0.8	13.5	75	1800×1070×1490	2"	1290
	1.0	11.5				
SMN-120A	0.8	16.5	90	2100×1400×1780	1900	
	1.0	13.7				
SMN-150A	0.8	20.5	110	2500×1450×1800	2300	
	1.0	17.9				
SMN-175A	0.8	24.0	132	2700×1550×1800	2 1/2"	3500
	1.0	21.3				
SMN-220A	0.8	28.5	160	2700×1550×1800	3800	
	1.0	25.5				

Incredible energy saving

With the variable speed system, the output pressure of the compressor can perfectly match with the demand of the system, which avoid no-load energy consumption.
Under the inconstant air demand, the frequency conversion system can start without peak current, which avoids the overload and allows the compressor to stop frequently.
With 2 bar output pressure controls, the system can save 14% on energy consumption.

Advanced long-distance control function

Users all over the world can easily get the technology assistance from the supplier through the internet.

Screw Air Compressor Permanent Magnet VSD Models



Permanent magnet frequency conversion screw compressor

Itair PM Frequency Conversion Screw Compressor saves 10%-15% energy more than variable speed screw compressor, while it saves 30%-40% more than standard screw compressor.

High Efficiency PM Motor

With the highperformance permanent magnet material, PM motor won't lose magnetism even under 120°C and can run for more than 15 years. No motor bearing: permanent magnet rotor is installed directly on the stretch out shaft of male rotor. This structure doesn't have the bearing and eliminates the motor bearing fault. Comparing to normal variable speed motor, the permanent magnet synchronous motor performs with even better energy efficiency. Especially in the low-speed condition, it can still maintain a high motor efficiency.

Variable Speed Screw Air Compressor

Itair variable speed screw compressor is developed based on the advanced frequency conversion technology from Germany. It has many features such as stable air source, easy control system, optimized protection function, long running life, and energy saving. Above all these feature, the most remarkable feature will be energy saving. Itair variable speed screw compressor represent the new trend of the energy efficiency.

» Technical parameter

SERVO VARIABLE SPEED DRIVE SCREW AIR COMPRESSOR TECHNICAL PARAMETER LIST							
Model	Exhaust Pressure (Mpa)	Air Flow (m³/min)	Motor Power (KW)	Size (L×W×H)mm	Outlet Size (size)	Unit Weight (Kg)	Motor Shell Material
NPM-20A	0.8	2.3	15	1160x700x1100	3/4"	350	Aluminum
	1.0	2.0					
NPM-30A	0.8	3.8	22	1200X900X1150	1"	530	
	1.0	3.6					
NPM-40A	0.8	5.2	30	1560X1000X1365	1 ½"	630	
	1.0	4.8					
NPM-50A	0.8	6.5	37	1560X1000X1365	1 ½"	750	
	1.0	5.7					
NPM-60A	0.8	7.5	45	1560X1000X1365	2"	830	
	1.0	6.8					
NPM-75A	0.8	10.5	55	1800X1070X1490	2"	1120	
	1.0	8.9					
NPM-100A	0.8	13.5	75	1800X1070X1490	2"	1290	
	1.0	11.5					
NPM-120A	0.8	16.5	90	2100x1400x1780	2 ½"	1900	
	1.0	13.7					
NPM-150A	0.8	20.5	110	2500x1450x1800	2 ½"	2300	
	1.0	17.9					
NPM-175A	0.8	24.0	132	2700x1550x1800	2 ½"	3500	
	1.0	21.3					
NPM-220A	0.8	28.5	160	2700x1550x1800	2 ½"	3800	
	1.0	25.5					

Refrigerated Air Dryer



» Technical parameter

REFRIGERATED AIR DRYER TECHNICAL PARAMETER LIST																
MODEL	JMS7.5A	JMS10A	JMS15A	JMS20A	JMS30A	JMS50A	JMS60A	JMS75A	JMS100A	JMS120A	JMS150A	JMS200A	JMS250A	JMS300A	JMS400A	
Ambient temperature	≤35°C															
Air inlet temperature	≤60°C															
Cooling mode	Air cooling															
Air flow (m ³ /min)	1.0	1.5	2.0	2.5	3.8	6.5	7.5	10.5	13.8	16.0	20.0	28.0	30.0	35.0	45.0	
Compressor power (KW)	0.32	0.43	0.51	0.73	0.92	1.38	1.38	1.78	2.57	2.57	2.94	4.4	4.8	5.5	7.35	
Air inlet pressure (MPa)	0.4-1.0															
Pressure loss (MPa)	≤0.02															
Dew point (°C)	2-5															
Max. pressure	13KG															
Pipe diameter	R1"					R1½"					R3"	PN1.0DN80	PN1.0DN100			
Electricity (V/ph/Hz)	220/1/50										380/3/50					
Size (mm)	L	640	640	700	730	760	900	1020	1200	1200	1200	1400	1400	1580	1730	1980
	W	380	380	390	420	450	500	610	600	600	600	730	730	900	995	995
	H	710	710	730	760	970	1120	990	1120	1270	1270	1350	1350	1760	1840	2025
Net weight (kg)	40	40	50	60	80	110	123	175	202	225	315	421	508	633	860	

Precision filter



» Technical parameter

LINE AIR FILTER Grade (Q,B,S)										
Model(LINE FILTER)	JMS-015-Q	JMS-024-Q	JMS-035-Q	JMS-060-Q	JMS-090-Q	JMS-120-Q	JMS-150-Q	JMS-240-Q	JMS-300-Q	JMS-360-Q
Filteration impurities	3micron	3 micron	3 micron	3micron	3 micron	3 micron	3micron	3 micron	3 micron	3 micron
Oil filtering content	5 PPM	5 PPM	5 PPM	5 PPM	5 PPM	5 PPM	5 PPM	5 PPM	5 PPM	5 PPM
Initial pressure difference	0.1KG/CM2									
Maximum pressure difference	0.7KG/CM2									
Connecting size:	G 3/4"	G 3/4"	G 1 1/2"	G 1 1/2"	G 1 1/2"	G 2 1/2"	G 2 1/2"	G 3"	DN100	DN100
Air flow(m ³ /min)	1.5	2.4	3.5	6.0	9.0	12.0	15.0	24.0	30.0	36.0
Maximum pressure	13bar	13bar	13bar	13bar	13bar	13bar	13bar	13bar	12bar	12bar
Dimension (mm)	L	267	513	513	513	550	928	928	1225.5	1521
	W	243	310	310	450	509	887	887	1133	1100
Weight(KG)	H	89	109	109	109	150	150	150	275	473
		1.1	2.2	2.2	2.7	8	16	16	137	137
Model(LINE FILTER ACTIVATED CARBON)	JMS-015-B	JMS-024-B	JMS-035-B	JMS-060-B	JMS-090-B	JMS-120-B	JMS-150-B	JMS-240-B	JMS-300-B	JMS-360-B
Filteration impurities	1 Micron	1 Micron	1 Micron	1 Micron	1 Micron	1 Micron	1 Micron	1 Micron	1 Micron	1 Micron
Oil filtering content	0.5 PPM	0.5 PPM	0.5 PPM	0.5 PPM	0.5 PPM	0.5 PPM	0.5 PPM	0.5 PPM	0.5 PPM	0.5 PPM
Initial pressure difference	0.1KG/CM2									
Maximum pressure difference	0.7KG/CM2									
Connecting size:	G 3/4"	G 3/4"	G 1 1/2"	G 1 1/2"	G 1 1/2"	G 2 1/2"	G 2 1/2"	G 3"	DN100	DN100
Air flow(m ³ /min)	1.5	2.4	3.5	6.0	9.0	12.0	15.0	24.0	30.0	36.0
Maximum pressure	13bar	13bar	13bar	13bar	13bar	13bar	13bar	13bar	12bar	12bar
Dimension (mm)	L	267	513	513	513	550	928	928	1225.5	1521
	W	243	310	310	450	509	887	887	1133	1100
Weight(KG)	H	89	109	109	109	150	150	150	275	473
		1.1	2.2	2.2	2.7	8	16	16	137	137
Model(LINE FILTER COALESENT)	JMS-015-S	JMS-024-S	JMS-035-S	JMS-060-S	JMS-090-S	JMS-120-S	JMS-150-S	JMS-240-S	JMS-300-S	JMS-360-S
Filteration impurities	0.01 Micron	0.01 Micron	0.01 Micron	0.01 Micron	0.01 Micron	0.01 Micron	0.01 Micron	0.01 Micron	0.01 Micron	0.01 Micron
Oil filtering content	0.001 PPM	0.001 PPM	0.001 PPM	0.001 PPM	0.001 PPM	0.001 PPM	0.001 PPM	0.001 PPM	0.001 PPM	0.001 PPM
Initial pressure difference	0.1KG/CM2									
Maximum pressure difference	0.7KG/CM2									
Connecting size:	G 3/4"	G 3/4"	G 1 1/2"	G 1 1/2"	G 1 1/2"	G 2 1/2"	G 2 1/2"	G 3"	DN100	DN100
Air flow(m ³ /min)	1.5	2.4	3.5	6.0	9.0	12.0	15.0	24.0	30.0	36.0
Maximum pressure	13bar	13bar	13bar	13bar	13bar	13bar	13bar	13bar	12bar	12bar
Dimension (mm)	L	267	513	513	513	550	928	928	1225.5	1521
	W	243	310	310	450	509	887	887	1133	1100
Weight(KG)	H	89	109	109	109	150	150	150	275	473
		1.1	2.2	2.2	2.7	8	16	16	137	137

Heat Regenerated Adsorption Air dryer



» Technical parameter

Model	Air flow m ³ /min	Inlet/Outlet DN(mm)	Heater power (kw)	Dimension			Weight (kg)
				L(mm)	W(mm)	H(mm)	
P-1MX	1.0	25	0.5	990	400	1250	250
P-2MX	2.5	25	0.7	990	410	1300	310
P-3MX	3.8	32	0.8	1050	410	1350	360
P-7MX	7.0	32	1.5	1100	410	1380	390
P-10MX	10	40	2.5	1150	420	1450	700
P-12MX	12	50	3.0	1350	520	1950	900
P-15MX	15	50	3.8	1420	520	2030	1050
P-20MX	20	65	6.0	1550	650	2150	1300
P-25MX	25	65	8.0	1720	780	2150	1660
P-30MX	30	65	9.0	1880	780	2250	1800
P-35MX	35	80	10	2300	800	2480	1900
P-40MX	40	80	12	2350	800	2550	2200
P-45MX	45	100	14	2400	810	2680	2850
P-50MX	50	100	15	2550	810	2750	2960
P-60MX	60	125	16	2600	850	2960	3180
P-70MX	70	150	19	2650	1120	3050	3700
P-80MX	80	150	22	2650	1160	3180	3850
P-100MX	100	150	28	2750	1180	3250	3950
P-120MX	120	150	35	2800	1200	3450	4260
P-150MX	150	200	42	2950	1250	3600	4900

Due to the constant innovation, all the designs and specifications are subject to change without notice.

Heatless Adsorption Air dryer



» Technical parameter

Model	Air flow m ³ /min	Inlet/Outlet DN(mm)	Dimension			Weight (kg)
			L(mm)	W(mm)	H(mm)	
P-1WX	1.0	25	950	400	1250	220
P-2WX	2.5	25	950	410	1300	280
P-3WX	3.8	32	980	410	1380	350
P-7WX	7	40	1050	420	1450	610
P-10WX	10	50	1250	520	1950	860
P-12WX	12	50	1250	520	2030	950
P-15WX	15	65	1450	650	1950	1200
P-20WX	20	65	1680	780	2150	1590
P-25WX	25	65	1680	780	2250	1690
P-30WX	30	80	2100	800	2480	1800
P-35WX	35	80	2100	800	2550	2100
P-40WX	40	100	2150	810	2680	2750
P-45WX	45	100	2150	810	2750	2860
P-50WX	50	125	2180	850	2960	2980
P-60WX	60	125	2500	1100	2980	3500
P-70WX	70	150	2500	1100	3050	3650
P-80WX	80	150	2500	1100	3100	3860
P-100WX	100	150	2700	1150	3200	3900
P-120WX	120	150	2930	1180	3400	4200
P-150WX	150	200	3060	1200	3600	4800

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