HighQ

SCREW AIR COMPRESSOR

HighQ

SCREW AIR COMPRESSOR

PRODUCT MANUAL

COMPACTED

SCREW AIR COMPRESSOR

Our compacted compressors are the ideal "all in one"solution for our cusromers who are looking for a turnkey solution .no piping required, all ready for a turnkey , only connect to electricity and compressed air net and you can tart operation.

The advantages to our customers

1、 Compact design smallfoot print

Due to the small foot print you can install this unit almost anywhere.

2、 Plug & play

No expensive piping necessary and easy to connect.

3、 High quality of compressed air by integrated dryer

No codensed water in he compressed air which is good for all compressed air consuming machines Low residual oil content helps to pirotect the environment.

4、 Low noise level ,super noise isolated

Due to low noise levels you can operate this compressor almost anywhere.

5、 Integrated cyclone separator and filer (option)

With the integrated cyclone separator , pre and after filter (option) you have a guarantedd quality high. Quality of compressed air.

6、 With of without speed control

Compacted units are available as fixed speed or as an option with variable speed allowing the user the flexibillty of only generating the amount of compressed air required thus saving energy and electricity.

SOFT START DESIGN

Impact of compressor statup on power grid and mechanical part is greatly reduced by frequency conversion startup mode which can not damage electrical equipment.

SYNCHRONOUS DESIGN

When screw machine is stably ,rotor rotation speed and power grid frequency are constant without slip ratio .

If the frequency of the power grid is kept constant , rotation speed of sychrronous motor during steady state is aconstant without relation to load.

LOW NOISE

Permanent magnet synchronous one-piece screw air compressor :

Noise of frequency conversion system is lower that under rotation speed in most working conditions.

Air end nosie and wear are reduced , thereby extending maintence and use life.

MORE ENERGY EFFICIENT

With permanment magnet motor & Frequency conversion control , whole machine excessds first degree energy efficiency,saving more then 35%-40% energy.

MORE ENVIRONMENTALLY FRIENDLY

Low noise ;
High energy efficiency;
Small starting current reducee electrical shock to electrical components , which extends life of machine and accessories.

MORE EFFICIENT

Integral design of compressor and air tank with movable bottom corner makes it more convenint and flexible to use.

Technical Parameters Of integrated air Compression Screw air campressor

Model			HQ-10C	HQ-15C	HQ-20C	HQ-30C	HQ-50C
Discharge pressure 0.6~1.0(MPa)	Air delivery (m^3/min)		1.3/0.7	1.8/0.7	2.6/0.7	3.8/0.7	6.4/0.7
			1.2/0.8	1.6/0.8	2.4/0.8	3.6/0.8	6.2/0.8
			1.0/1.0	1.3/1.0	2.2/1.0	3.0/1.0	5.8/1.0
			0.8/1.2	1.2/1.2	1.7/1.2	2.6/1.2	6.0/1.2
Air Dryer	m^3/min		1	2	2.5	3.8	6.5
Air Tank	Volume (L)		300/500				
Motor	Power (kw)		7.5	11	15	22	37
	Driver method		Star-Delta Start/ Frequency Start				
Dimension	Length (mm)		1900	1900	1900	1900	1900
	Width (mm)		650	800	800	900	1000
	Hight (mm)		1750	1900	1900	2000	2180
Weight (kg)			600	650	650	800	800
Air outlet Pipe Diameter (inch/mm)			3/4"	1"	1"	1"	1 1/2"

Note:The above thechnical parameters are subject to change without further notice.

SCREW AIR COMPRESSOR

Direct drive system: high efficient output

Be different from belt drive system, which is due to the wear and slip of belt reduce efficiency and increase energy consumption, HighQ direct drive system is to ensure high efficiency of energy transmission and constant flow output.

Air filter

Imported filter paper with high accuracy, increase filter area, reduce inhalation resistance, increase safety filter core, cyclone filter greatly improve the safety factor and filtration efficiency. It Can filter out molecule in the air, so that avoid air end rotor and bearing wearing, extend the service life of lubrication, filter and oil separator.

Oil/Air separator

The new filter material , using the rotating type design for easy disassembly and replacement. Separation filter core can separate remaining oil in the air, improve the cleanliness of the compressed air, reducing pollution of residual oil on gas used equipment and after treatment system.

High efficient motor

High performance fully enclosed air cooling motor, extremely strong power. IP54 protection class motor, protect the internal dust, insulation class F grade. Achieve long-term continuous without failure under high temperature condition.

Technical specification of belt drive Screw air conpressor

Model No.		HQ-5	HQ-7.5	HQ-10	HQ-15	HQ-20	HQ-25	HQ-30	HQ-40	HQ-50	HQ-60	HQ-75	HQ-100
Air Delivery / Discharge Pressure (m^3/min/Mpa)		0.65 / 0.7	0.85 / 0.7	1.3 / 0.7	1.8 / 0.7	2.6 / 0.7	3.0 / 0.7	3.8 / 0.7	5.3 / 0.7	6.4 / 0.7	7.4 / 0.7	10.3 / 0.7	13.6 / 0.7
		0.55 / 0.8	0.75 / 0.8	1.2 / 0.8	1.6 / 0.8	2.4 / 0.8	2.8 / 0.8	3.6 / 0.8	5.0 / 0.8	6.2 / 0.8	7.2 / 0.8	9.6 / 0.8	13.0 / 0.8
		0.40 / 1.0	0.56 / 1.0	1.0 / 1.0	1.3 / 1.0	2.2 / 1.0	2.4 / 1.0	3.0 / 1.0	4.5 / 1.0	5.8 / 1.0	6.8 / 1.0	8.5 / 1.0	10.9 / 1.0
		0.35 / 1.2	0.48 / 1.2	0.8 / 1.2	1.2 / 1.2	1.7 / 1.2	2.0 / 1.2	2.6 / 1.2	3.6 / 1.2	4.6 / 1.2	6.0 / 1.2	7.6 / 1.2	9.8 / 1.2
Cooling Model		Air-Cooled											
Discharge Temp (℃)		<Ambient temperature+15℃											
Lubricant(L)		12			14		16			18		54	72
Noise Level		62 ± 3 dB(A)			65 ± 3 dB(A)		68 ± 3 dB(A)				72 ± 3 dB(A)		
Driving way		Belt											
Maindriver	Power (Kw)	4	5.5	7.5	11	15	18.5	22	30	37	45	55	75
	Starting Method	Direct start			Y-△Starter								
Electricity		380V / 50Hz											
Dimension	Length (mm)	750	800		1000		1100		1200	1300		1500	1750
	Width (mm)	600	600		800		900		900	1100		1300	1350
	Height (mm)	950	980		1280		1400		1380	1480		1680	1750
Net weight (kg)		220	280	310	450	480	550	580	680	840	920	1450	1760
Air Outlet Pipe Diameter(inch)		3/4"			1"				1 1/4"	1 1/2"		2"	

Technical specification of direct drive Screw air conpressor

Model No.		HQ-30D	HQ-40D	HQ-50D	HQ-60D	HQ-75D	HQ-100D	HQ-125D	HQ-150D	HQ-175D	HQ-200D	HQ-250D	HQ-285D	HQ-300D	HQ-350D	HQ-380D
Air Delivery / Discharge Pressure (m^3/min/Mpa)		3.95 / 0.7	5.4 / 0.7	6.6 / 0.7	8.0 / 0.7	10.8 / 0.7	13.8 / 0.7	17.2 / 0.7	21.5 / 0.7	25.6 / 0.7	30.0 / 0.7	34.2 / 0.7	38.6 / 0.7	42.8 / 0.7	45.0 / 0.7	49.2 / 0.7
		3.8 / 0.8	5.2 / 0.8	6.4 / 0.8	7.8 / 0.8	10.2 / 0.8	13.2 / 0.8	16.5 / 0.8	20.5 / 0.8	24.0 / 0.8	29.0 / 0.8	33.0 / 0.8	37.0 / 0.8	40.0 / 0.8	43.1 / 0.8	48.0 / 0.8
		3.2 / 1.0	4.6 / 1.0	6.0 / 1.0	6.5 / 1.0	6.5 / 1.0	11.2 / 1.0	15.0 / 1.0	19.0 / 1.0	22.0 / 1.0	26.2 / 1.0	30.0 / 1.0	34.0 / 1.0	36.5 / 1.0	39.5 / 1.0	43.2 / 1.0
		2.8 / 1.2	3.8 / 1.2	4.8 / 1.2	5.6 / 1.2	5.8 / 1.2	10.5 / 1.2	13.0 / 1.2	17.5 / 1.2	19.0 / 1.2	24.5 / 1.2	28.0 / 1.2	32.0 / 1.2	34.0 / 1.2	36.3 / 1.2	40.5 / 1.2
Cooling Model		Air-Cooled														
Discharge Temp (℃)		<Ambient temperature+15℃~18℃														
Lubricant(L)		16	18			54	72		90		110		125		150	
Noise Level		65 ± 3 dB(A)				72 ± 3 dB(A)				75 ± 3 dB(A)			82 ± 3 dB(A)			
Driving way		Direct drive														
Maindriver	Power (Kw)	22	30	37	45	55	75	90	110	132	160	185	200	220	250	280
	Starting Method	Y-△Starter														
Electricity		380V / 50Hz														
Dimension	Length (mm)	1320	1550		1600	1800	2000	2200	2800		3200			3800		
	Width (mm)	800	1000		1000	1150	1200	1350	1900		2030			2100		
	Height (mm)	1300	1420		1480	1650	1750	1850	1690		2100			2650		
Net weight (kg)		650	820	900	1080	1520	1880	2080	2850	3220	3850	4350	4500	4650	5600	7900
Air Outlet Pipe Diameter(inch)		1"	1 1/2"			2"			DN65			DN80		DN100		

Technical specification of water cooling direct drive Screw air conpressor

Model No.		HQ-100W	HQ-125W	HQ-150W	HQ-175W	HQ-200W	HQ-250W	HQ-285W	HQ-300W	HQ-350W	HQ-380W	HQ-425W	HQ-480W	HQ-560W
Air Delivery / Discharge Pressure (m^3/min/Mpa)		13.8 / 0.7	17.2 / 0.7	21.5 / 0.7	25.6 / 0.7	30.0 / 0.7	34.2 / 0.7	38.6 / 0.7	48.2 / 0.7	45.0 / 0.7	49.2 / 0.7	58.2 / 0.7	64.2 / 0.7	73.0 / 0.7
		13.2 / 0.8	16.5 / 0.8	20.5 / 0.8	24.0 / 0.8	29.0 / 0.8	33.0 / 0.8	37.0 / 0.8	40.0 / 0.8	43.1 / 0.8	48.0 / 0.8	55.5 / 0.8	61.9 / 0.8	67.0 / 0.8
		11.2 / 1.0	15.0 / 1.0	19.0 / 1.0	22.0 / 1.0	26.2 / 1.0	30.0 / 1.0	34.0 / 1.0	36.5 / 1.0	39.5 / 1.0	43.2 / 1.0	51.0 / 1.0	55.5 / 1.0	61.9 / 1.0
		10.5 / 1.2	13.0 / 1.2	17.5 / 1.2	19.0 / 1.2	24.5 / 1.2	28.0 / 1.2	32.0 / 1.2	34.0 / 1.2	36.3 / 1.2	40.5 / 1.2	45.3 / 1.2	51.0 / 1.2	56.2 / 1.2
Cooling Model		Water-Cooled												
Discharge Temp (℃)		≤ 40												
Lubricant(L)		72		90		110		125		150			180	
Noise Level		70 ± 3 dB(A)			75 ± 3 dB(A)			82 ± 3 dB(A)				84 ± 3 dB(A)		
Driving way		Driect drive												
Maindriver	Power (Kw)	75	90	110	132	160	185	200	220	250	280	315	355	400
	Starting Method	Y-△Starter												
Electricity		380V / 50Hz								10KV (6KV) / 50Hz				
Dimension	Length (mm)	2000	2200	2800		3200			3800			4200		
	Width (mm)	1200	1350	1900		2100			2100			2250		
	Height (mm)	1750	1850	1690		2650			2650			2350		
Net weight (kg)		1880	2080	2850	3220	3850	4350	4500	4650	5600	7900	9200	9500	9800
Air Outlet Pipe Diameter(inch)		2"		DN65		DN80						DN100		

Note:The above thechnical parameters are subject to change without further notice.

HighQ
SCREW AIR COMPRESSOR

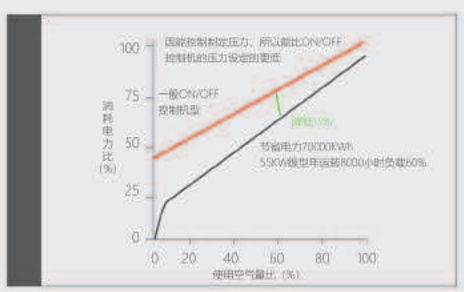
Each HighQ air compressor can run with frequency conversion

Why would you use frequency conversion compressor?

Because of frequency conversion compressor will matching customers actual gas accurately, it can greatly reduce your electricity bills, and has many advantage, you will be able to get maximum return of investment, and later save spending every year. In the compressor the entire working life, energy consumption occupies so that cost the most. An energy saving of your compressed air compressor system have a significant impact.

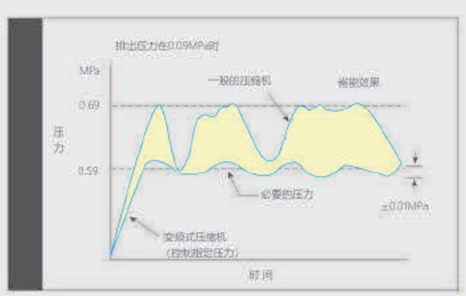
Each screw air comprssor runs with frequency conversion.

* Frequency converter integrated inside the machine, save a space.
* No energy loss, no current peak, realize the constant pressure.
* Vector frequency converter, motor constant torque output.
* Low speed, no load startup, high reliability.
* Frequency converter and PLC integration, easy to operate, humanized management.



Directly saving-energy reach to 40%

* Uninstall losses to a minimum.
* Compressed air without emptying into the atmosphere
* Conversion between loading and unloading damage avoided to a great extent.
* Frequency conversion compressor accurate pressure control allows a smaller bandwidth , and lower working pressure, reducing power consumption.



Indirectly saving-energy

Frequency conversion compressor provided by the " low pressure" energy saving effect can bring more a year :

* Save 5% energy than other base load compressor.
* Leakage loss exists in compressed air system, 6 bar than 7 bar damage reduced by 13%.
* Air compressor consumes less air in low pressure runtime. In addition to direct energy saving, indirect energy saving in air compressor can bring energy saving 10%.

TECHNICAL DATA FOR BELT FREQUENCY CONVERSION SCREW AIR COMPRESSOR

Model		HQ-7.5VFB	HQ-10VFB	HQ-15VFB	HQ-20VFB	HQ-25VFB	HQ-30VFB	HQ-40VFB	HQ-50VFB	HQ-60VFB	HQ-75VFB	HQ-100VFB
Air Delivery / Discharge Pressure (m3/min/Mpa)		0.85 / 0.7	1.3 / 0.7	1.8 / 0.7	2.6 / 0.7	3.0 / 0.7	3.8 / 0.7	5.3 / 0.7	6.4 / 0.7	7.4 / 0.7	10.3 / 0.7	13.6 / 0.7
		0.75 / 0.8	1.2 / 0.8	1.6 / 0.8	2.4 / 0.8	2.8 / 0.8	3.6 / 0.8	5.0 / 0.8	6.2 / 0.8	7.2 / 0.8	9.6 / 0.8	13.0 / 0.8
		0.56 / 1.0	1.0 / 1.0	1.0 / 1.0	2.2 / 1.0	2.4 / 1.0	3.0 / 1.0	4.5 / 1.0	5.8 / 1.0	6.8 / 1.0	8.5 / 1.0	10.9 / 1.0
		0.48 / 1.2	0.8 / 1.2	0.8 / 1.2	1.7 / 1.2	2.0 / 1.2	2.6 / 1.2	3.6 / 1.2	4.6 / 1.2	6.0 / 1.2	7.6 / 1.2	9.8 / 1.2
Cooling Model		Air-Cooled										
Discharge Temp (℃)		<Ambient temperature+15℃										
Lubricant(L)		12		16				18			54	72
Noise Level		65 ± 2dB(A)	68 ± 2 dB(A)			70 ± 2 dB(A)				72 ± 2 dB(A)		
Driving way		Belt										
Maindriver	Power (Kw)	5.5	7.5	11	15	18.5	22	30	37	45	55	75
	Starting Method	Variable Frequency Starting										
Electricity		380V / 50Hz										
Dimension	Length (mm)	850		1150		1200			1300		1500	1750
	Width (mm)	800		850		1000			1300		1450	1500
	Height (mm)	1120		1300		1400			1480		1680	1750
Net weight (kg)		280	380	580	590	620	650	760	920	1080	1650	1880
Air Outlet Pipc Diameter (inch)		$\frac{3}{4}$"		1"				$1\frac{1}{4}$"	$1\frac{1}{2}$"		2"	

TECHNICAL DATA FOR DIRECT DRIVEN FREQUENCY CONVERSION SCREW AIR COMPRESSOR

Model		HQ-30VFD	HQ-40VFD	HQ-50VFD	HQ-60VFD	HQ-75VFD	HQ-100VFD	HQ-125VFD	HQ-150VFD	HQ-175VFD	HQ-200VFD	HQ-250VFD	HQ-285VFD	HQ-300VFD	HQ-350VFD	HQ-380VFD
Air Delivery / Discharge Pressure (m3/min/Mpa)		3.95 / 0.7	5.4 / 0.7	6.6 / 0.7	8.0 / 0.7	10.8 / 0.7	13.8 / 0.7	17.2 / 0.7	21.5 / 0.7	25.6 / 0.7	30.0 / 0.7	34.2 / 0.7	38.6 / 0.7	42.8 / 0.7	45.0 / 0.7	49.2 / 0.7
		3.8 / 0.8	5.2 / 0.8	6.4 / 0.8	7.8 / 0.8	10.2 / 0.8	13.2 / 0.8	16.5 / 0.8	20.5 / 0.8	24.0 / 0.8	29.0 / 0.8	33.0 / 0.8	37.0 / 0.8	40.0 / 0.8	43.1 / 0.8	48.0 / 0.8
		3.2 / 1.0	4.6 / 1.0	6.0 / 1.0	6.5 / 1.0	8.8 / 1.0	11.2 / 1.0	15.0 / 1.0	19.0 / 1.0	22.0 / 1.0	26.2 / 1.0	30.0 / 1.0	34.0 / 1.0	36.5 / 1.0	39.5 / 1.0	43.2 / 1.0
		2.8 / 1.2	3.8 / 1.2	4.8 / 1.2	5.6 / 1.2	7.8 / 1.2	10.5 / 1.2	13.0 / 1.2	17.5 / 1.2	19.0 / 1.2	24.5 / 1.2	28.0 / 1.2	32.0 / 1.2	34.0 / 1.2	36.3 / 1.2	40.5 / 1.2
Cooling Model		Air-Cooled														
Discharge Temp (℃)		<Ambient temperature+15℃														
Lubricant(L)		16	18			54	72		90		110		125		150	
Noise Level		65 ± 2 dB(A)				72 ± 2 dB(A)				75 ± 2 dB(A)			82 ± 2 dB(A)			
Driving way		Direct														
Maindriver	Power (Kw)	22	30	37	45	55	75	90	110	132	160	185	200	220	250	280
	Starting Method	Variable Frequency Starting														
Electricity		380V / 50Hz														
Dimension	Length (mm)	1320	1550			1800	2000	2200	2600		2700			3200		
	Width (mm)	800	1000			1150	1200	1350	1450		1700			1950		
	Height (mm)	1300	1420			1650	1750	1850	2000		2300			2450		
Net weight (kg)		700	900	980	1180	1650	1950	2200	2980	3380	4280	4580	4880	5080	6100	8500
Air Outlet Pipc Diameter (inch)		1"	$1\frac{1}{2}$"			2"			DN65			DN85		DN100		

Note:The above thechnical parameters are subject to change without further notice.

OIL-FREE

SCROLL AIR COMPRESSOR

JAPAN ANEST IWATA AIR-END

Quiet

Scroll type unique silent, micro vibration to provide a comfortable working space, even at night without worry about the impact of the environment.

Convenient

Equipped with high performance computer circuit board, the monitor screen will display the operation status and various fault warning.

It also can be based on customer requirements to offer poweroutage automatic recovery.

Clean

No need for oil lubrication, of course, is clean air. Due to the standard equipment of anti rust air receiver, drainage is also clean. So you can always keep the environment clean.

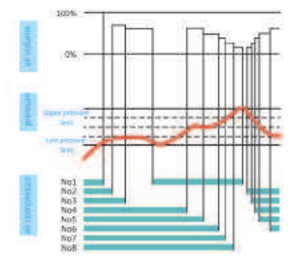
Compact

The compressor shape a new look of smart design, the pursuit of the ultimate miniaturization created a simple box, greatly reduced the installation area.

Through multilevel control, the best operation and energy saving are realized.

The multiple compressors built in 1 sets of case. According to the use of air volume by multilevel free control the best units' running, thereby avoiding the unnecessary operation, to achieve the energy saving.

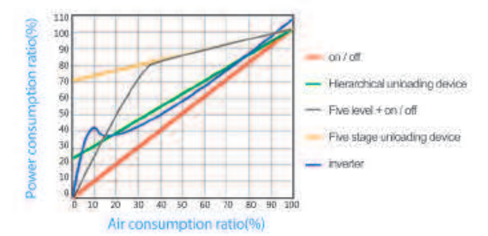
superior operation for Multilevel control energy-saving (multi stage)



Multi level control with the energy saving surpass the frequency conversion control

Using the least energy consumption of the on / off control. According to the usage of air volume and 、the actual situation, to achieve the best operation.

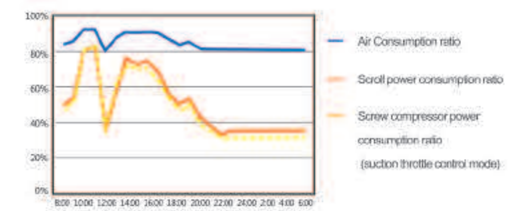
Power consumption ratio is different according to the control mode



Substantial inhibition of electricity consumption, energy saving effect is excellent

When the amount of air consumption changes, the compressor will be controlled by different ways to produce a large error. < Think Air> can restrain the energy consumption to the minimum, thus improve the energy saving effect.

Compare with the ratio of energy consumption



Technical parameters of oil - free scroll air compressor

Model		SCR-5	SCR-10	SCR-15	SCR-20	SCR-40	SCR-50
Air delivery (m³/min)		0.42	0.84	1.26	1.68	3.36	4.20
Discharge pressure (MPa)		0.65-0.8	0.65-0.8	0.65-0.8	0.65-0.8	0.65-0.8	0.65-0.8
Noise Level (dB(A))		49±3	54±3	56±3	58±3	59±3	60±3
Power (kw)		4	7.5	11	15	30	37
Quantity of Air end		1	2	3	4	8	10
Dimension	Length (mm)	750	1100	1150	1300	1620	1620
	Width (mm)	628	800	830	870	1300	1300
	Hight (mm)	850	980	1350	1730	2120	2120
	Weight (kg)	160	350	450	620	1230	1450
1MPa specification							
Air delivery (m³/min)		0.355	0.71	1.065	1.42	2.84	3.55
Discharge pressure (MPa)		0.8~1.0	0.8~1.0	0.8~1.0	0.8~1.0	0.8~1.0	0.8~1.0
Noise Level (dB(A))		50±3	53±3	56±3	58±3	59±3	59±3
Dimension	Length (mm)	750	1100	1150	1300	1620	1620
	Width (mm)	628	800	830	870	1300	1300
	Hight (mm)	850	980	1350	1730	2120	2120
	Weight (kg)	160	350	450	620	1230	1450

Note:The above thechnical parameters are subject to change without further notice.

PERMANENT

MAGNETIC SERVO SCREW AIR COMPRESSOR

Direct drive separated structure, totally enclosed IE4 permanent magnetic motor

Use protection level IP54 permanent magnetic motor, easy maintenance . Ultimate temperature for magnetic loss is above 180℃, higher efficient than open-type protection level IP23. Protection level IP23 magnetic motor Ultimate temperature for magnetic loss at 150℃. Air compressor in using strong magnets easily adsorbed dust and late iron leads to lower efficiency , if adsorption chemical fiber flocking, will cause a fire. HighQ IP54 permanent magnetic motor more safety, more efficient, more energy saving.

Special sensorless open-loop control technology inverter

Directly use open-loop specialized variable-frequency speed control system. via gradually increased frequency inverter to start, leave out encoder, easy maintain.

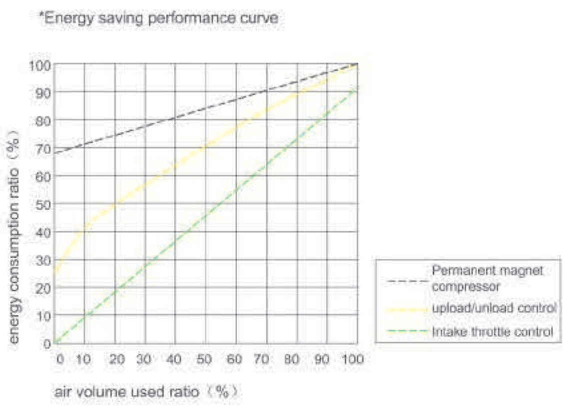
Oil filter

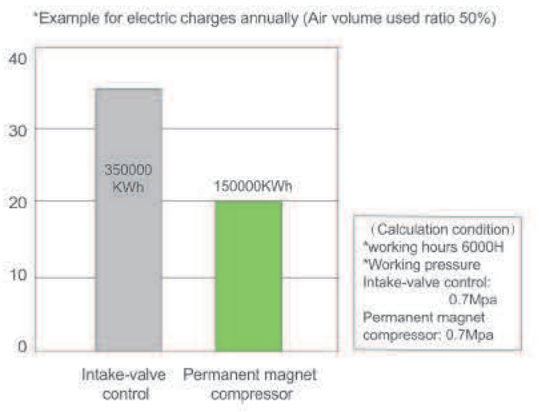
Use rotation type oil filter , Totally filtering impurity inside lubricating oil, internally installed temperature control valve, adapt the temperature in different regions , ensure the quality of lubricating oil and oil pressure, easily change, don't worry about oil leakage

Intelligent touch screen operation

Use computer controller, Humanized operation interface, not only adjust and monitoring compressor comprehensively , but high end network IT , make remote network control become realistic.

The new energy saving configuration is saving more than common screw air compressor 40%





Cost comparison

When purchasing compressor , costs in the traditional sense (purchasing cost+ maintenance costs), Only 25% of to the total cost, while energy consumption cost is 75%.

HighQ permanent magnetic frequency conversion screw air compressor save 35-45% energy more than common (fixed frequency) air compressor;

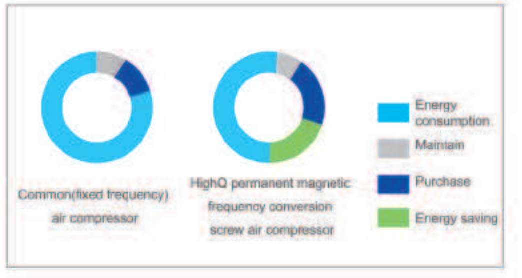
A common 75KW air compressor , running 8000 hours annually, electric charge is RMB0.78/degree, Electric charge for one year:

75KW*8000 hours*RMB0.78/ kW•h =$73,638

HighQ permanent magnetic frequency conversion 75KW screw air compressor save about 40% energy annually, in total :

$73,638*40%=$29455

Return on invest (ROI): one year1.



HighQ
SCREW AIR COMPRESSOR

SELF-DEVELOPED AND PRODUCED MOTORS

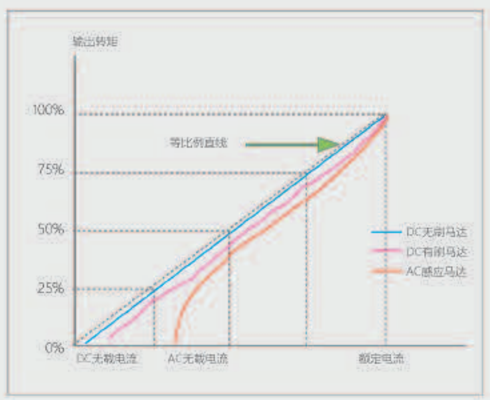


图1

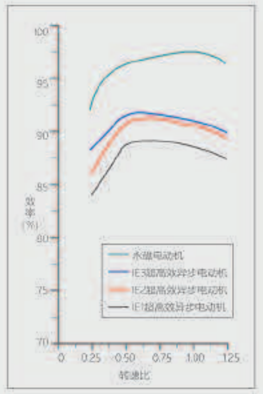


图2

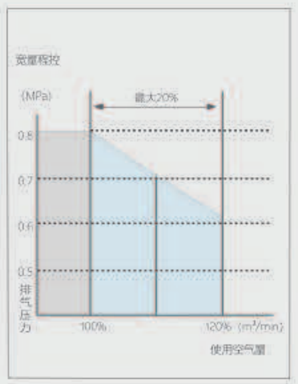


图3

Particular motor technology

Permanent magnet use high-strength NdFeB (neodymium iron boron) magnetic steel, high magnetic energy product and coercivity of NdFeB magnetic steel, make rare-earth permanent magnet motor have small size, light weight, high efficient, good character etc., a series of advantages.

Slow-speed of revolution, high torque:

Output torque and incoming current of permanent-magnet synchronous motor become linear, the most suitable for rotating equipment applications of fix torque loading requirement (screw air compressor is the typical fixed torque loading device), big startup torque, easily overcome static friction force, a lot advantages, like frequently start and stop, sudden acceleration and deceleration, quick start, current not easy overload etc.

Wider Frequency converting control range:

Permanent-magnet synchronous motor still keep high efficient under slow-speed of revolution, high torque, so the range of frequency converting control mode is wider, more stable operation, quicker response.

High efficient:

The difference of permanent-magnet synchronous motor and common asynchronous motor is rotor structure, permanent magnet pole is installed to instead of field winding to proceed excitation, no need Reactive excitation current, it will obviously improve power factor, reduce rotor loss, and no copper loss under stable operation, efficient reach more than 96%.

Smaller dimension:

Because energy consumption reduce, it will directly reduce waste heat inside motor, demand area of heat dissipation will also reduce, the dimension of motor can be reduced at least 30%, reduce weight 35%, the design is compact, reduce machine dimension.

Motor temperature protection function, ensure motor steady running:

Use PTC temperature sensor, to manage by controller, protect motor under temperature abnormal.

Width control technology, increase air delivery:

Under constant power precondition, on the basis of different exhaust pressure, adjust compressor rotate speed, to increase air delivery, the maximum increase 20%

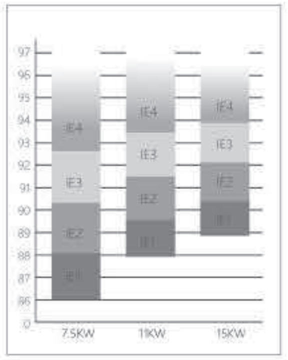
Use high-performance lubricating oil, ensure low residual oil:

Frequency conversion use specialized lubricating oil and inlet filter, to restrain the degradation of lubricating oil, furthermore via three stage separation, centrifugal separation, gravitational separation and filtering separation, dispose lubricating oil in the air, make exhaust residual oil control reach optimal level in the world.

Reliable.High Antijamming capacity.Energy saving.Long service life...

New drive system

According to IEC 60034-30:ed.02 compare capacity of motor efficien



Class 4 energy efficient
IE1: standard (~EFF2)
IE2: high efficient (~EFF1)
IE3: high efficient
IE4: super high efficient

motor technology		IE1	IE2	IE3	IE4
asynchronous motor	single phase	OK	OK	hard	[illegible]
	three phase	OK	OK	OK	hard
synchronous motor	switch brush	OK	OK	OK	hard
permanent magnetic motor		OK	OK	OK	OK

Technical Parameters Of One Stage Compression Screw air campressor

Model		HQ-10PM	HQ-15PM	HQ-20PM	HQ-30PM	HQ-40PM	HQ-50PM	HQ-60PM
Discharge pressure 0.6~1.0(MPa)	Air delivery (m^3/min)	1.9/0.7	2.7/0.7	3.1/0.7	4.3/0.7	6.2/0.7	7.4/0.7	8.1/0.7
		1.7/0.8	2.4/0.8	2.9/0.8	4.1/0.8	5.5/0.8	7.0/0.8	7.8/0.8
		1.5/1.0	2.0/1.0	2.5/1.0	3.6/1.0	5.0/1.0	6.1/1.0	7.3/1.0
		1.4/1.2	1.7/1.2	2.3/1.2	3.2/1.2	4.1/1.2	5.3/1.2	6.3/1.2
Cooling		air cooling						
Discharge temperature (℃)		Ambient temperature±15℃						
Lubricant (L)		7	10		12	22		24
Noise Level (dB(A))		60±3	65±3			66±3	68±3	
Driving way		Direct drive						
Motor	Power (kw)	7.5	11	15	22	30	37	45
	Driver method	Frequency conversion starting						
Electricity (V / ph / Hz)		380V/50Hz						
Dimension	Length (mm)	920	1320	1350	1320	1400	1400	1800
	Width (mm)	650	800	800	900	1000	1000	1250
	Hight (mm)	1050	1300	1300	1500	1580	1580	1900
	Weight (kg)	400	450	500	600	710	800	1050
Air outlet Pipe Diameter (inch/mm)		3/4"	1"	1"	1"	1 1/4"	1 1/2"	2"

型号 Model		HQ-75PM	HQ-100PM	HQ-125PM	HQ-150PM	HQ-175PM	HQ-200PM	HQ-250PM	HQ-285PM
Discharge pressure 0.6~1.0(MPa)	Air delivery (m^3/min)	11.4/0.7	15.3/0.7	17.3/0.7	21.7/0.7	26.1/0.7	29.8/0.7	34.0/0.7	36.9/0.7
		10.5/0.8	14.5/0.8	16.5/0.8	20.5/0.8	24.3/0.8	29.0/0.8	32.3/0.8	35.1/0.8
		9.3/1.0	11.8/1.0	14.4/1.0	19.1/1.0	22.0/1.0	26.1/1.0	29.0/1.0	31.3/1.0
		8.3/1.2	10.5/1.2	11.3/1.2	17.0/1.2	19.5/1.2	25.0/1.2	26.0/1.2	27.5/1.2
Cooling		air cooling							
Discharge temperature (℃)		Ambient temperature±15℃							
Lubricant (L)		54	72		90			132	
Noise Level (dB(A))		72±3			75±3			78±3	
Driving way		Direct drive							
Motor	Power (kw)	55	75	90	110	132	160	185	200
	Driver method	Frequency conversion starting							
Electricity (V / ph / Hz)		380V/50Hz							
Dimension	Length (mm)	1800	1800	2200	2560	2560	2900	3500	3500
	Width (mm)	1250	1250	1300	1800	1800	2200	2100	2100
	Hight (mm)	1900	1900	1850	1850	1850	1960	2100	2100
	Weight (kg)	1450	1780	2000	2550	2950	3200	3990	4220
Air outlet Pipe Diameter (inch/mm)		2"	2"	2"	DN65	DN65	DN80	DN80	DN80

Note:The above thechnical parameters are subject to change without further notice.

MEDIUM PRESSURE

PM VSD air compressor

Heat well, long life

Unique design and reasonable layout of the formation of efficient cooling system and high heat dissipation efficiency.

It uses a special permanent magnet motor,No waste unloading and starting current

It avoids possible power loss and has a longer working life.

Easy maintenance, low malfunction

High reliability， stable use.

Simple operation, convenient management.

Easy maintenance , simple overhaul， promote proction efficiency

High-efficiency and energy-saving, clean air

Medium pressure PM VSD air compressor can save 35% electricity for the user under the condition of ensuring the original working efficiency. Part of the laser cutting process can use the compressor to cut, saving an average of 60 percent of gas costs laser cutting technology.

custom-make oil, purer air.

Less-vibration and Lowness-noise

Using large rotor to reduce the unit speed, which is lower than the normal screw machine speed, and the full load speed is at 2000RPM, making the unit more quiet.

Diagram of special air compressor system for laser cutting equipment

① Medium pressure PM VSD air compressor ② Air water separator ③ Tank ④ Q-grade filter

⑤ P-grade filter ⑥ Dryer ⑦ S-grade filter ⑧ Laser cutting equipment

Technical Parameters Of middle pressure permanent magnetic frequency conversion air compressor

Model		HQ-10PM	HQ-15PM	HQ-20PM	HQ-25PM	HQ-30PM	HQ-40PM	HQ-50PM
Discharge pressure (MPa)		16						
Air delivery (m^3/min)		0.5	1	1.5	1.8	2.2	3.1	3.6
Cooling		air cooling						
Discharge temperature (℃)		Ambient temperature±15℃						
Lubricant (L)		12	14		16			18
Noise Level (dB(A))		60±3	65±3				68±3	
Driving way		Belt						
Motor	Power (kw)	7.5	11	15	18.5	22	30	37
	Drive method	Frequency conversion starting						
Electricity (V / ph / Hz)		380V/50Hz						
Dimension	Lentgh (mm)	850	1150	1150	1320	1320	1682	1682
	Width (mm)	800	800	800	800	900	1000	1000
	Hight (mm)	1123	1273	1273	1300	1500	1423	1423
Weight (kg)		400	450	500	530	600	800	830
Air outlet Pipe Diameter (inch/mm)		3/4"	1"	1"	1"	1"	1 1/2"	1-1/2"

Note:The above thechnical parameters are subject to change without further notice.

LOW

PRESSURE SCREW AIR COMPRESSOR

High reliability original air end

The new generation of screw rotor with excellent performance, reliable operation, automatically adjust the internal compression ratio. In the exhaust pressure range of 0.2~0.5 Mpa, the optimal ratio of power (energy efficiency) is maintained. To ensure that the lowest operating cost for a long time no fault operation.

High efficiency motor

Optimization of motor shell design, All the designs are in line with international standards, Innovative rotor design, so the motor power loss is reduced by 40%, and the wide range of voltage adaptation make compressor is more energy saving, also air pressure is more constant.

Oil filter

Using Rotary filter, can filter out the impurities in the lubricant completely, have temperature control valve inside, Adapt to the regional temperature, to ensure the quality of lubricating oil and oil pressure, easy to replace, without the worry of oil.

Intelligence touch screen operating system

Using computer platform controller, to adjust and monitor the operation parameters of the twelve statements quality of air compressor, When the preset value, the controller automatically sends out a warning or stop, while showing the cause of the failure, and writes the history fault records, so that the remote network control becomes a reality.

Best parts, excellent performance

Scientific design

If your device only needs under 0.3MPA compressed air, air end discharge air of our series is the low pressure air you need.

Energy saving highlights

Using high volumetric efficiency screw air end ,avoid the process of compression and expansion energy loss, low pressure screw compressor will save the energy for more than 30%, energy-saving effect is remarkable, you save the energy that it will let you recover the investment in less than a year.

Stable and reliable

The system runs in low pressure ,Parts with small force and heat low load .Compressor run more stable, reliable, longer life .

Technical Parameters Of low pressure Screw air conpressor

Model		HQ-30LPM-3	HQ-50LPM-3	HQ-60LPM-3	HQ-75LPM-3	HQ-100LPM-3	HQ-125LPM-3
Discharge pressure (MPa)		0.3					
Free airdeliver (m^3/min)		6.0	10.7	13.2	16	23.5	28
Power (kw)		22	37	45	55	75	90
Exhaust Interface		2"	DN65	DN65	DN80	DN80	DN100
Noise Level (dB(A))		68±3	70±3	70±3	72±3	72±3	74±3
Dimension	Length (mm)	1600	1800	1800	2100	2900	2900
	Width (mm)	1000	1310	1310	1600	2000	2000
	Hight (mm)	1350	1880	1880	2150	2100	2100
	Weight (kg)	860	1180	1400	1980	2650	3460

Model		HQ-150LPM-3	HQ-175LPM-3	HQ-50LPM-5	HQ-60LPM-5	HQ-75LPM-5
Discharge pressure (MPa)		0.3		0.5		
Free airdeliver (m^3/min)		33.5	45	9.85	11.5	15
Power (kw)		110	132	37	45	55
Exhaust Interface		DN125	DN160	DN65	DN65	DN65
Noise Level (dB(A))		74±3	78±3	70±3	70±3	72±3
Dimension	Length (mm)	2900	4000	1600	1800	1800
	Width (mm)	2000	2150	1050	1310	1310
	Hight (mm)	2100	2400	900	1880	1880
	Weight (kg)	3850	4200	940	1280	1560

Model		HQ-100LPM-5	HQ-125LPM-5	HQ-150LPM-5	HQ-175LPM-5	HQ-200LPM-5	HQ-250LPM-5
Discharge pressure (MPa)		0.5					
Free airdeliver (m^3/min)		18.5	23	27.5	37.5	40.5	49
Power (kw)		75	90	110	132	160	185
Exhaust Interface		DN80	DN80	DN80	DN125	DN125	DN150
Noise Level (dB(A))		72±3	75±3	75±3	78±3	78±3	80±3
Dimension	Length (mm)	2050	3200	3200	3500	4000	4400
	Width (mm)	1550	2000	2000	1850	2050	2250
	Hight (mm)	2050	2250	2250	2200	2350	2400
	Weight (kg)	2080	2850	3360	4150	5720	6400

Note:The above thechnical parameters are subject to change without further notice.

TWO

STAGE PM SCREW AIR COMPRESSOR

Double stage compression structure, more energy saving

compression and high efficiency screw machine is a low pressure ratio , a greater degree of lower volume leakage , to improve energy efficiency!

The core is the two - level compression of the injection screw air compressor in the same power than the single - stage compression of the injection screw air compressor and more 12%-23% air volume

Low vibration to make the unit running more stable

Lower than ordinary screw speed , and the use of multiple damping springs, so that the unit has a higher stability

Low speed noise

Using large rotor to reduce the unit speed, full load speed in the 2000RPM is a more quiet guarantee

Optimization of air duct structure

The new air duct structure design, so that the whole air duct pressure difference, the structure is more beautiful

Optimization of air duct structure

The motor and the permanent magnet direct host adopts a split type structure,with IP54 protection grade of the motor , low temperature rise, high efficiency.

Eliminate inefficient conversion process from full load to unload, Avoid unload power consumption.

Microcomputer synchronous control system, according to the exhaust temperature, control the fan speed, the suppression of current waste.

Cooling fan frequency conversion control, energy saving about 5%.

Provide free choice of pressure from 4bar to 13bar, which can minimize reduce energy consumption.

Under low rotating speed , permanent magent motor work status is higher 20% above efficiency than common motor.

Frequency conversion range from 25%~100% , The greater fluctuation for air consumption whole system , energy saving effect is more obvious.

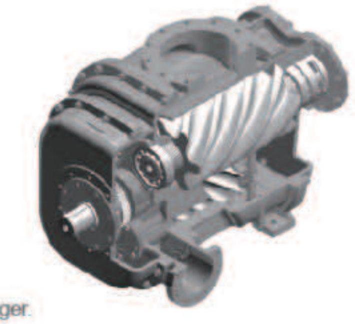
Productfeatures

Two-stage compression reduces the compression ratio per level, reducing internal leakage and increase the volumetric efficiency, reduces the bearing load, improve the working life of the host.

Two stage compression instead of single stage compression, nearly a 15% increase in displacement, can realize a 15% more energy saving effect.

Developing capacity Core techndogy

The rotor type line using the latest design patent, after more than twenty working procedure of finish machining, to ensure the precision of the rotor type line, reliability and validity.



In one case, the first order of the compressor rotor and the two stage of the compressor rotor are combined in one case, and the direct drive of the helical gear is respectively.So that each level of the rotor can get the best line speed, compression transmission efficiency is higher.

Each stage compression compression ratio by the accurate design reduces the bearing and gear load.

Per level compression ratio is small, less leakage, high volume efficiency.

Borne by two head under the same power load, the bearing force is small, live longer.

Technical Parameters Of Two Stage Compression Screw air compressor

Model		HQ-30TPM	HQ-50TPM	HQ-60TPM	HQ-75TPM	HQ-100TPM	HQ-125TPM	HQ-150TPM
Discharge pressure 0.6~1.2(MPa)	Air delivery (m^3/min)	4.2/0.7	7.2/0.7	9.8/0.7	12.8/0.7	17.5/0.7	20.8/0.7	24.5/0.7
		4.1/0.8	7.1/0.8	9.7/0.8	12.5/0.8	16.5/0.8	19.8/0.8	23.5/0.8
		3.5/1.0	6.3/1.0	7.8/1.0	9.6/1.0	12.5/1.0	16.9/1.0	19.7/1.0
		3.2/1.2	5.4/1.2	6.5/1.2	8.6/1.2	11.2/1.2	14.3/1.2	17.6/1.2
Cooling		air cooling or water cooling						
Discharge temperature (℃)		≤40						
Lubricant (L)		18	54	72	90		110	
Noise Level (dB(A))		72±2			75±2			
Driving way		direct drive						
Power (kw)		22	37	45	55	75	90	110
Electricity (V / ph / Hz)		380V/50Hz						
Dimension	Length (mm)	1600	1700	2100	2100	2300	2900	2900
	Width (mm)	900	1100	1400	1400	1450	2200	2200
	Hight (mm)	1500	1600	1850	1850	1950	1960	1960
	Weight (kg)	730	1080	1980	2180	2280	3200	3360
Air outlet Pipe Diameter (inch/mm)		1 1/2"	1 1/2"	2	2	2	DN80	DN80

Model		HQ-175TPM	HQ-200TPM	HQ-250TPM	HQ-285TPM	HQ-300TPM	HQ-350TPM	HQ-380TPM	HQ-425TPM
Discharge pressure 0.6~1.0(MPa)	Air delivery (m^3/min)	30/0.7	34.5/0.7	41/0.7	44.6/0.7	48.6/0.7	55/0.7	62/0.7	65/0.7
		28/0.8	33.6/0.8	38.4/0.8	43/0.8	47/0.8	54/0.8	60/0.8	62/0.8
		23.5/1.0	30/1.0	32.5/1.0	38.5/1.0	41.9/1.0	46/1.0	51/1.0	55/1.0
		19.8/1.2	23.8/1.2	28.6/1.2	32.8/1.2	38/1.2	40/1.2	45/1.2	47/1.2
Cooling		air cooling or water cooling							
Discharge temperature (℃)		≤40							
Lubricant (L)		125		150		180		110	
Noise Level (dB(A))		82±2				84±2			
Driving way		direct drive							
Power (kw)		132	160	185	200	220	250	280	315
Electricity (V / ph / Hz)		380V/50Hz							
Dimension	Length (mm)	2900	2800	3500	3500	3800	3800	4000	4350
	Width (mm)	2200	2200	2100	2100	2100	2100	2120	2120
	Hight (mm)	1960	1960	2100	2100	2650	2650	2200	2200
	Weight (kg)	3450	3850	3990	5890	6500	6800	7200	7800
Air outlet Pipe Diameter (inch/mm)		DN80	DN80	DN100	DN100	DN100	DN125	DN125	DN125

Note:The above thechnical parameters are subject to change without further notice.

HighQ SCREW AIR COMPRESSOR

REFRIGERATED AIR DRYER

Composition of refrigent air dryer system

Drying chamber or manifold.

Vacuum system: used to overcome obstacles and accelerate air flow.

Heat source: to provide energy.

Low temperature condenser: used to maximize the vapor pressure difference and capture vapor freezes, avoid water vapor pollution vacuum pump.

Product characteristics

In strict accordance with iso9001, gb150, iso7183 refrigerant air dryer standard, qs, pressure vessel inspection specifications for design and manufacture of production and testing, to ensure product safety and reliable operation;

Adopting new and enclosed refrigeration compressor, super cooling, stable running, low noise, reliable performance, energy saving, long service life;

Condenser, choose high quality materials, heat transfer coefficient is high, small size, compact structure;

Components, control components are the use of international good quality brands, excellent performance, improve service life;

Equipment structure reasonable design, convenient in maintenance, box-type appearance, beautiful and easy;

Increase the size of the evaporator heat transfer area, better heat transfer effect, guarantee the stability of the machine dew point;

Special design of cold and hot delivery, perfect use of the cold source of the outlet and the entrance of the hot air heat transfer. Avoid pipeline condensation, and achieve the effect of energy saving;

High efficiency of air - water separation devices with good drainage system design, not block, with a filter net can be cleaned regularly, condensed water discharge closed to steady;

Cooling system with automatic pressure switch to automatically control the fan power supply, to achieve maximum power saving effect;

Unique design of refrigeration system, the temperature is low and not frozen, good coolant filtration system, no ice plug phenomenon; completely remove the compressed air moisture;

Low running cost, low consume less, to avoid the cost of consumables.

Why would you choose refrigent type air dryer?

The traditional drying can damage cells, cause material shrinkage, in the process of freezing drying the structure of the samples will not be destroyed, because the solid ingredients are controlled by the support in the seat of the ice. When ice sublimation, it will leave pore in dry surplus materials. So keep the activity of the biological and chemical structure of the product and its integrity. In the lab, freeze and there are many different USES, it in many biological chemical and pharmaceutical applications is indispensable. It is used to obtain can be preserved for a long period of biological materials, such as microbial cultures, blood, enzyme, the drugs, in addition to the long-term preservation of stability, also retained its inherent biological activity and structure. Therefore, freeze-drying was used to prepare for structure research (such as electron microscopy studies) tissue samples, freeze drying and is applied to chemical analysis, it can get dry state samples, or concentrated samples in order to increase the sensitivity analysis. Freeze-dried make sample composition stability, also do not need to change the chemical composition, is the ideal means for analysis.

REFRIGERATED AIR DRYER PARAMETER

Model	FN-7.5F	FN-10F	FN-15F	FN-20F	FN-30F	FN-50F	FN-75F
Capacity(m³/min)	1.2	1.95	2.2	2.6	3.8	6.5	9.5
Utilization cinditions	A.The max Temp at the inlet:80℃ B.The max ambinet Temp:45℃ C.Working pressure:10bar(Pressure more than 10bar can be specilized)						
Refrigerant	R22/R407C/R134A						
Refrigerant compressor	1/2HP	1/2HP	3/4HP	3/4HP	1HP	1-1/2HP	2HP
Power	AC 1 220V 50Hz						
Dia.of air iniet/outiet	1"	1"	1"	1-1/2"	1-1/2"	1-1/2"	2-1/2"
Length(cm)	70	70	70	70	100	100	125
Width(cm)	42	42	42	42	50	50	57
Heigth(cm)	71	71	71	76	85	90	101
Net weight(kg)	40	45	50	60	100	120	180

Model	FN-100F	FN-150F	FN-200F	FN-300F	FN-400F	FN-500F	FN-600F
Capacity(m³/min)	13	19.5	26	39	49	65	76
Utilization cinditions	A.The max Temp at the inlet:80℃ B.The max ambinet Temp:45℃ C.Working pressure:10bar(Pressure more than 10bar can be specilized)						
Dew Point Temp	2-5℃ (its atoms dew point is equal to-20℃						
Refrigerant	R22/R407C/R134A						
Refrigerant compressor	3HP	4HP	5HP	7-1/2HP	8HP	10HP	12-1/2HP
Power	AC 1 220V 50Hz						
Dia.of air iniet/outiet	2-1/2"	3"	3"	4"	4"	5"	5"
Length(cm)	125	140	140	180	180	200	200
Width(cm)	57	63	63	70	70	70	80
Heigth(cm)	111	119	124	140	140	140	150
Net weight(kg)	200	300	320	400	460	600	630

Model	FN-300W	FN-400W	FN-500W	FN-600W	FN-700W	FN-1000W	FN-1500W	FN-2000W
Capacity(m³/min)	35	45	55	65	75	100	150	200
Utilization cinditions	A.The max Temp at the inlet:80℃ B.The max ambinet Temp:45℃ C.Working pressure:10bar(Pressure more than 10bar can be specilized)							
Dew Point Temp	2-5℃ (its atoms dew point is equal to-20℃							
Refrigerant	R22/R407C/R134A							
Refrigerant compressor	7-1/2HP	8HP	10HP	12-1/2HP	15HP	20HP	30HP	40HP
Power	AC 3 380V 50Hz							
Dia.of air iniet/outiet	4"	5"	5"	6"	6"	8"	8"	10"
Dia.of Cooling Water pipe	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	2"	2-1/2"	2-1/2"
The quantity of The cooing Water (L/min)	96	175	175	250	250	375	525	750
The Water-cooling tower(T/n)	10	15	20	20	25	30	50	60
Length(cm)	155	180	190	200	200	220	230	240
Width(cm)	96	110	120	125	125	130	160	270
Heigth(cm)	130	140	140	155	160	180	200	130
Net weight(kg)	486	568	660	850	990	1160	1450	1900

Note:The above thechnical parameters are subject to change without further notice.

ABSORPTION AIR DRYER

Check valve

Stainless steel check valve , stainless steel material , defend the corrosion

Controller

Intelligent control, autonomous develop and research,high precision

Muffler filter

The main material is made using attract good frequency performance, high temperature ultra-fine sound-absorbing glass wool as the main body, and the muffler filter by the special treatment of the US and other material combinations

Product characteristics

standards,ISO7183 adsorption standards,QS,pressure tank testing to design,manufacture, produce and test, ensure product safety and reliable operation.

reasonable structure of the tower and control procedures can ensure that compressed air and desiccant impact location and contact time. Adsorbent use national standard elevation purity alumina, molecular sieves, vacuum filling way, not to pink, long service life.

Using adsorption tank with pressure vessel certificate, safety performance is guaranteed.

Heater with high strength properties, high pressure resistance, resistant motor, good heating and insulation.

Adopt intelligent controller,show operation data on time,high precision, good system stability,Easy to operate and learn.

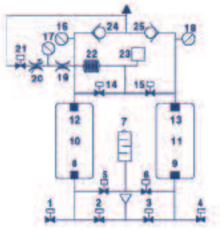
High-performance pneumatic control valve, fast action response,long service life , good stability , With standard low consumption solenoid valve,high precision,action is fast.

Muffler filter, Multi-fiber material,muffler material,equipped with unique design mechanical silencer,low noise.

Working conditions and technical specifications

I.AT.	≤45℃
Working Pressure	0.6~0.95MPa
Air Consumption	≤7%
Inlet Oil Content	≤0.1ppm
Pressure Dew Point	-20~-40℃
Adsorbent	Alumina,molecular sieving
Control Mode	Microcomputer Automatic Control

Note: special standards can be customized



1.4 air outlet valve
2.3 air inlet valve
5.6 reducing valve
7.filter
8. 9.Inlet diffuser
10.11 adsorption tank
12.13 outlet diffuser
14.15 regeneration valve
16.18 A.B tower pressure gauge
17 regeneration pressure gayge
19. restriction orifice
20.regeneration adjust valve
21. Reduced pressure shutoff valve
22.heater
23. Temperature sensor
24.25 air outlet check valve

slight heat regeneration adsorption air dryer system flow chart

TECHNICAL DATA FOR HEATLESS REGENERATION ADSORPTION AIR DRYER

TYPE		QH-015	QH-020	QH-026	QH-038	QH-069	QH-085	QH-110	QH-140	QH-180
Flowrate (Nm³/min)		1.5	2.0	2.6	3.8	6.9	8.5	11.0	14.0	18.0
Adsorbent Weight (Kg)		28	40	55	90	155	200	250	305	345
Inlet/outlet (Pt)		G-3/4"	G1"	G1-1/4"	G1-1/4"	G1-1/2"	G1-1/2"	G2"	DN65	DN65
Domensions (Mm)	Length	670	670	860	860	860	860	1000	1330	1350
	Width	620	620	660	660	720	720	870	800	850
	Height	1600	1600	1320	1450	1820	1820	1950	2200	2200
Weight (Kg)		185	209	270	317	398	448	482	587	745

TECHNICAL DATA FOR HEATLESS REGENERATION ADSORPTION AIR DRYER

TYPE		QH-220	QH-280	QH-320	QH-380	QH-460	QH-550	QH-670	QH-750	QH-850
Flowrate (Nm³/min)		22.0	28.0	32.0	38.0	46.0	55.0	67.0	75.0	85.0
Adsorbent Weight (Kg)		385	530	645	725	910	1080	1200	1320	1500
Inlet/outlet (Pt)		DN65	DN80	DN80	DN100	DN100	DN125	DN150	DN150	DN150
Domensions (Mm)	Length	1370	1450	1650	1650	1650	2100	2150	2180	2320
	Width	950	1000	1560	1560	1610	1800	1850	2030	2150
	Height	2150	2250	2250	2360	2580	2900	2950	2980	3200
Weight (Kg)		895	1155	1207	1449	1652	1816	2325	2750	3125

TECHNICAL DATA FOR SLIGHT HEAT REGENERATION ADSORPTION AIR DRYER

TYPE		QH-026	QH-038	QH-069	QH-085	QH-110	QH-140	QH-180	QH-220	QH-280	QH-320	QH-380	QH-460
Flowrate (Nm³/min)		2.6	3.8	6.9	8.5	11.0	14.0	18.0	22.0	28.0	32.0	38.0	46.0
Adsorbent Weight (Kg)			90	155	200	250	305	345	385	530	645	725	910
Air Consumption		0.18	0.266	0.476	0.595	0.77	0.98	1.19	1.54	1.96	2.38	2.94	4.06
Heaing Power (Kw)		1.2	1.5	2	3	3.5	4	4.2	5	7	7.5	8	10
Inlet/outlet (Pt)		G1-1/4"	G1-1/4"	G1-1/2"	G1-1/2"	G-2"	DN65	DN65	DN65	DN80	DN80	DN100	DN100
Domensions (Mm)	Length	860	860	860	860	1000	1330	1350	1370	1450	1650	1650	1650
	Width	660	660	720	720	870	800	850	950	1000	1560	1560	1610
	Height	1320	1450	1820	1820	1950	2200	2200	2150	2250	2250	2360	2580
Weight (Kg)		273	322	429	489	572	715	845	924	1165	1235	1495	175

TYPE		QH-550	QH-670	QH-750	QH-850	QH-950	QH-1100	QH-1300	QH-1500	QH-1700	QH-2300	QH-2900	QH-3700
Flowrate (Nm³/min)		55.0	67.0	75.0	85.0	95.0	110.0	130.0	150.0	170.0	230.0	290.0	370.0
Adsorbent Weight (Kg)		1080	1200	1320	1500	1700	2200	2500	2800	3100	4200	5200	6800
Air Consumption		4.90	4.55	5.25	5.95	6.65	7.70	9.10	10.5	11.9	16.1	20.3	25.9
Heaing Power (Kw)		12.5	15	20	22	28	33	39	45	50	70	85	110
Inlet/outlet (Pt)		DN125	DN150	DN150	DN150	DN150	DN150	DN150	DN200	DN200	DN250	DN250	DN300
Domensions (Mm)	Length	2100	2150	2180	2320	2400	2500	2600	2800	3000	3300	3500	3700
	Width	1800	1850	2030	2150	2200	2250	2280	2300	2350	2500	2800	3000
	Height	2900	2950	2980	3200	3200	3300	3400	3400	3500	3500	3600	3700
Weight (Kg)		2127	2472	2912	3180	3350	3800	4100	4500	4800	6000	7100	8800

Note:The above thechnical parameters are subject to change without further notice.

SERIES

PRECISION FILTER

Product Features

* European imported filter core , World-renowned brands , Professional-quality reliable
* Precision filter use heavy-duty pressure casting aluminum shell:2.0MPA Inflation pressure leak can assure to operate safely
* Internal use best flow mechanics to design,pressure drop losses small,saving energy
* Special filter material:large flow and long operating life

Drain valve

By using the electronic drain valve to match the solenoid valve with the analog circuit solid state electronic timer, the condensed water of compressed air system can be discharged automatically and the discharge interval can be adjusted according to different needs.

Product Features

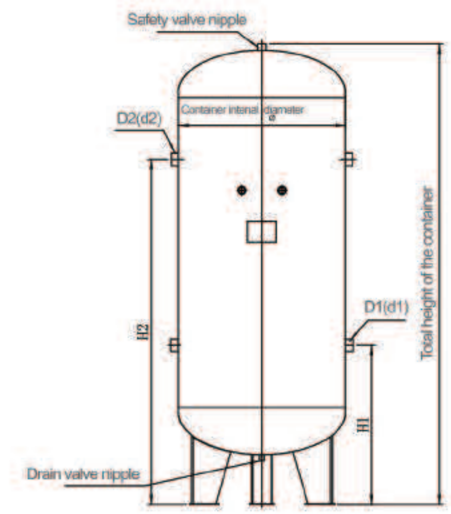
Easy installation, automatic maintenance-free.
The interval and discharge time can be adjusted and the test button is available.
Protection grade IP65, insulation grade H.
Equipped with filter ball valve, and drainage valve split into L-type structure. Shape dimension 106*47*91mm.
540g weight (including filter ball valves)

TECHNICAL DATA FOR PRECISION FILTER

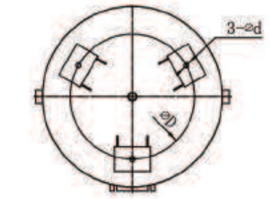
Model	Dimensions			m^3/min CFM		m^3/min CFM	P / S / M / X	Weight (kg)	Workingprssure (bar)
	A (mm)	B (mm)	C (mm)						
PAF-004	267.0	243.0	89.0	0.4	14.1	1"	1X004	1.1	16
PAF-007	267.0	243.0	89.0	0.7	24.7	1"	1X007	1.1	16
PAF-015	267.0	243.0	89.0	1.5	53.0	1"	1X015	1.1	16
PAF-024	513.5	480.0	109.0	2.4	84.7	1/2"	1X024	2.2	16
PAF-035	513.5	480.0	109.0	3.5	123.6	1 1/2"	1X035	2.2	16
PAF-060	513.5	480.0	109.0	6.0	211.9	1 1/2"	1X060	2.7	16
PAF-090	550.0	509.5	150.0	9.0	317.8	2"	1X090	4.25	16
PAF-120	928.0	887.5	150.0	12.0	423.7	2"	1X020	6.0	16
PAF-150	928.0	887.5	150.0	15.0	529.7	2"	1X150	6.0	16
PAF-240	1225.5	1133.0	275.0	24.0	847.5	PN16D65	1X240	28.5	12
PAF-360	1512.0	1100.0	473.0	36.0	1271.2	PN16D125	3X120	167	12
PAF-450	1706.0	1265.0	473.0	45.0	1589.0	PN16D150	3X150	140	12
PAF-600	1812.0	1315.0	520.0	60.0	2118.8	PN16D200	4X150	148	10

Note:The above thechnical parameters are subject to change without further notice.

SERIES TANK



connection orientation



TECHNICAL DATA FOR TANK

Specification Volume/Working pressure	Design Temp	Total height of the container	Container intenal diameter	Air inlet			Air outlet			Support		Safety valve nipple	Drain valve nipple
				Height (H1)	Diameter (D1)	Interface (d1)	Height (H2)	Diameter (D2)	Interface (d2)	Aperture (d)	Distance (D)		
0.3 / 0.8	150	1664	600	655	40	Rp11/2	1255	40	Rp11/2	20	420	Rp 3/4	R3/4
0.3 / 1.0	150	1666	600	656	40	Rp11/2	1256	40	Rp11/2	20	420	Rp 3/4	R3/4
0.3 / 1.3	150	1668	600	657	40	Rp11/2	1257	40	Rp11/2	20	420	Rp 3/4	R3/4
0.3 / 1.6	150	1670	600	658	40	Rp11/2	1258	40	Rp11/2	20	420	Rp 3/4	R3/4
0.5 / 0.8	150	2064	600	655	40	Rp11/2	1655	40	Rp11/2	20	420	Rp 3/4	R3/4
0.5 / 1.0	150	2066	600	656	40	Rp11/2	1656	40	Rp11/2	20	420	Rp 3/4	R3/4
0.5 / 1.3	150	2068	600	657	40	Rp11/2	1657	40	Rp11/2	20	420	Rp 3/4	R3/4
0.5 / 1.6	150	2070	600	658	40	Rp11/2	1658	40	Rp11/2	20	420	Rp 3/4	R3/4
0.6 / 0.8	150	1980	700	675	40	Rp11/2	1545	40	Rp11/2	24	490	Rp 3/4	R3/4
0.6 / 1.0	150	1982	700	676	40	Rp11/2	1546	40	Rp11/2	24	490	Rp 3/4	R3/4
0.6 / 1.3	150	1985	700	678	40	Rp11/2	1578	40	Rp11/2	24	490	Rp 3/4	R3/4
0.6 / 1.6	150	1987	700	679	40	Rp11/2	1549	40	Rp11/2	24	490	Rp 3/4	R3/4
1.0 / 0.8	150	2138	850	724	40	Rp11/2	1654	40	Rp11/2	24	595	Rp 1	R3/4
1.0 / 1.0	150	2408	800	697	40	Rp11/2	1937	40	Rp11/2	24	560	Rp 1	R3/4
1.0 / 1.3	150	2411	800	699	40	Rp11/2	1939	40	Rp11/2	24	560	Rp 1	R3/4
1.0 / 1.6	150	2413	800	670	40	Rp11/2	1940	40	Rp11/2	24	560	Rp 1	R3/4
1.5 / 0.8	150	2761	900	765	80	法兰DN80	2265	80	法兰DN80	24	630	Rp 1	R3/4
1.5 / 1.0	150	2765	900	768	80	法兰DN80	2268	80	法兰DN80	24	630	Rp 1	R3/4
1.5 / 1.3	150	2768	900	769	80	法兰DN80	2269	80	法兰DN80	24	630	Rp 1	R3/4
1.5 / 1.6	150	2770	900	770	80	法兰DN80	2270	80	法兰DN80	24	630	Rp 1	R3/4
2.0 / 0.8	150	2885	1000	784	80	法兰DN80	2364	80	法兰DN80	24	700	Rp 1	R3/4
2.0 / 1.0	150	2888	1000	786	80	法兰DN80	2366	80	法兰DN80	24	700	Rp 1	R3/4
2.0 / 1.3	150	2891	1000	787	80	法兰DN80	2367	80	法兰DN80	24	700	Rp 1	R3/4
2.0 / 1.6	150	3039	1000	761	80	法兰DN80	2370	80	法兰DN80	24	700	Rp 1	R3/4
3.0 / 0.8	150	3020	1200	848	100	法兰DN100	2398	100	法兰DN100	24	840	Rp 1	1/4 R1
3.0 / 1.0	150	3024	1200	850	100	法兰DN100	2400	100	法兰DN100	24	840	Rp 1	1/4 R1
3.0 / 1.3	150	3020	1200	848	100	法兰DN100	2398	100	法兰DN100	24	840	Rp 1	1/4 R1
3.0 / 1.6	150	3024	1200	850	100	法兰DN100	2400	100	法兰DN100	24	840	Rp 1	1/4 R1
4.0 / 0.8	150	3120	1400	917	125	法兰DN125	2395	125	法兰DN125	24	1050	Rp 1	1/2 R1
4.0 / 1.0	150	3074	1400	934	125	法兰DN125	2334	125	法兰DN125	24	1050	Rp 1	1/2 R1

Note:The above thechnical parameters are subject to change without further notice.