Transmax

SCREW AIR COMPRESSOR

CONTENTS

A

SERIES 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 icrease energy consumption, Transmax 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 direct drive Screw air compressor

Model No.		LG-30G	LG-40G	LG-50G	LG-60G	LG-75G	LG-100G	LG-125G	LG-150G	LG-175G	LG-200G	LG-250G	LG-285G	LG-300G	LG-350G	LG-380G
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"	$1\frac{1}{2}$"			2"			DN65			DN80		DN100		

Technical specification of belt drive Screw air compressor

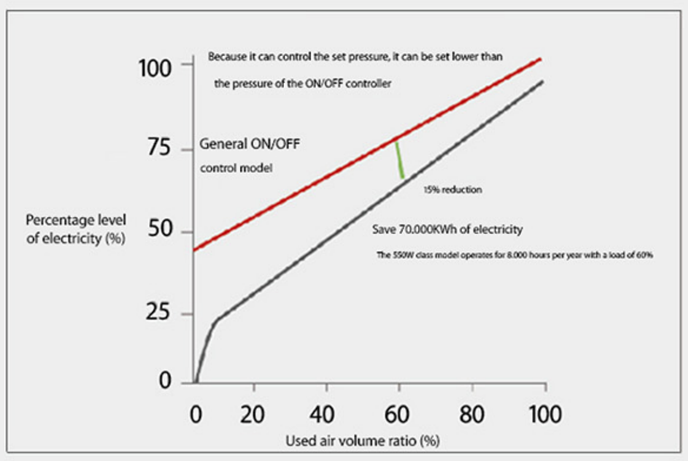
Model No.		LG-5	LG-7.5	LG-10	LG-15	LG-20	LG-25	LG-30	LG-40	LG-50	LG-60	LG-75	LG-100
Air Delivery / Discharge Pressure (m^3/min/Mpa)		0.65 / 0.7	0.85 / 0.7	1.3 / 0.7	1.8 / 0.7	2.6 / 0.7	3.0 / 0.7	3.8 / 0.7	5.3 / 0.7	6.4 / 0.7	7.4 / 0.7	10.3 / 0.7	13.6 / 0.7
		0.55 / 0.8	0.75 / 0.8	1.2 / 0.8	1.6 / 0.8	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)		$\frac{3}{4}$"			1"				$1\frac{1}{4}$"	$1\frac{1}{2}$"		2"	

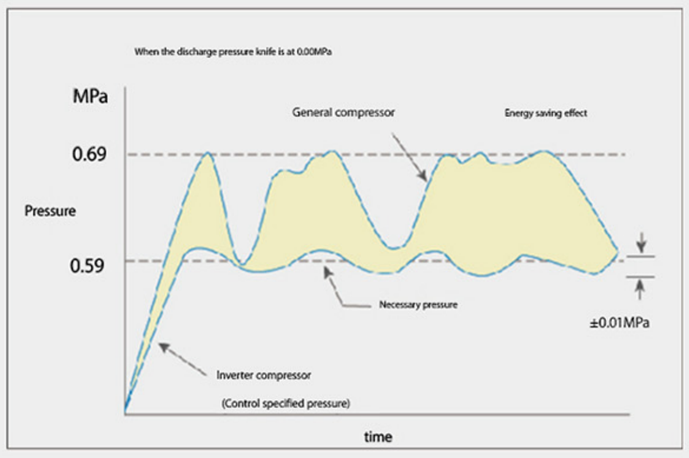
Technical specification of water cooling direct drive Screw air compressor

Model No.		LG-100GW	LG-125GW	LG-150GW	LG-175GW	LG-200GW	LG-250GW	LG-285GW	LG-300GW	LG-350GW	LG-380GW	LG-425GW	LG-480GW	LG-560GW
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 technical parameters are subject to change without further notice.

Each Transmax 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		LG-7.5VF	LG-10VF	LG-15VF	LG-20VF	LG-25VF	LG-30VF	LG-40VF	LG-50VF	LG-60VF	LG-75VF	LG-100VF
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 Pipe 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		LG-30GVF	LG-40GVF	LG-50GVF	LG-60GVF	LG-75GVF	LG-100GVF	LG-125GVF	LG-150GVF	LG-175GVF	LG-200GVF	LG-250GVF	LG-285GVF	LG-300GVF	LG-350GVF	LG-380GVF
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 Pipe Diameter (inch)		1"	$1\frac{1}{2}$"			2 "			DN65			DN85		DN100		

Note:The above technical 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°C, higher efficient than open-type protection level IP23. Protection level IP23 magnetic motor ultimate temperature for magnetic loss at 150°C. Air compressor in using strong magnets easily adsorbed dust and late iron leads to lower efficiencfy, if adsorption chemical fiber flocking, will cause a fire. Transmax 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

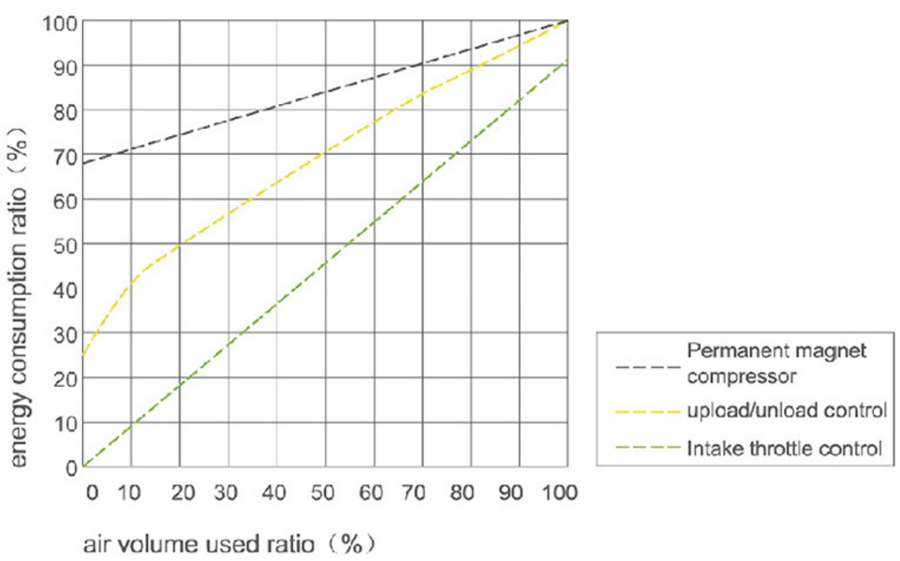
Use rotation type oil filter , totally filtering impurity inside lubricating oil, internally installed temperature control valve, adapt the temperature in different regions , ensure the quality of lubricating oil and oil pressure, easily change, don't worry about oil leakage

Intelligent touch screen operation

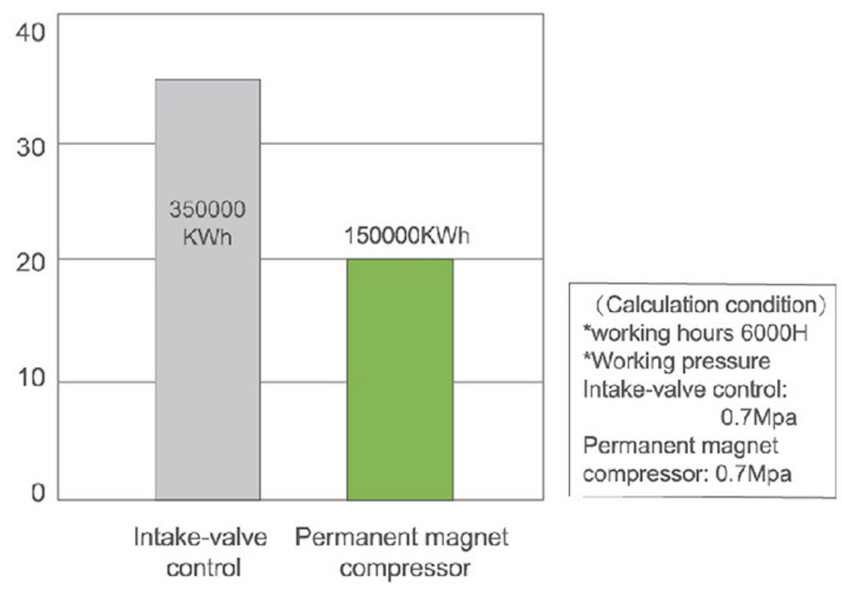
Use computer controller, Humanized operation interface, not only adjust and monitoring compressor comprehen-sively , but high end network IT , make remote network control become realistic.

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

*Energy saving performance curve



*Example for electric charges annually (Air volume used ratio 50%)



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%.

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

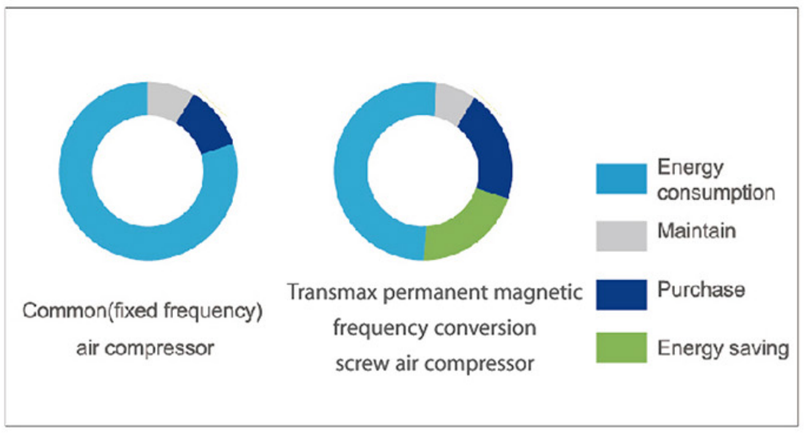
A common 75KW air compressor , running 8000 hours annually, electric charge is RMB0.78/degree, Electric charge for one year:

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

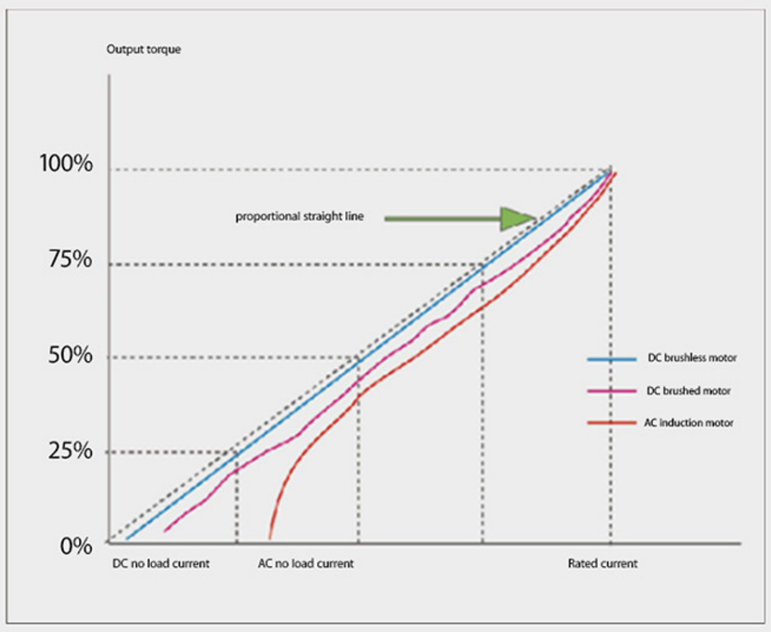
Transmax permanent magnetic frequency conversion 75KW screw air compressor save about 40% energy annually, in total :

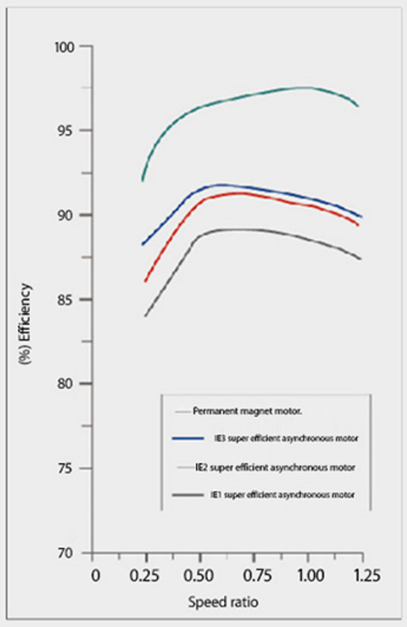
$73,638*40%=$29455

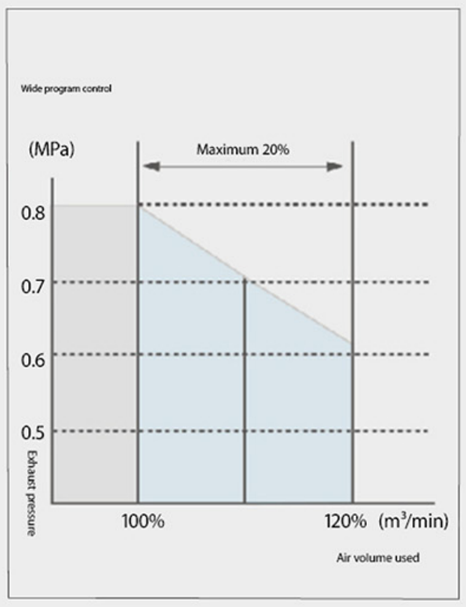
Return on invest (ROI): one year1.



Self-developed and produced motor







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%

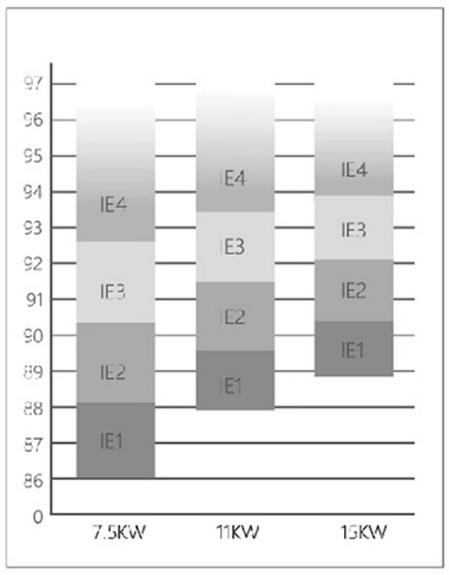
Use high-performance lubricating oil, ensure low residual oil:

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 efficient



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	NO
	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 compressor

Model		LGPM-10	LGPM-15	LGPM-20	LGPM-30	LGPM-40	LGPM-50	LGPM-60
Discharge pressure 0.6~1.0(MPa)	Air delivery (m³/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 (°C)		Ambient temperature±15°C						
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"

Model		LGPM-75	LGPM-100	LGPM-125	LGPM-150	LGPM-175	LGPM-200	LGPM-250	LGPM-285
Discharge pressure 0.6~1.0(MPa)	Air delivery (m³/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 (°C)		Ambient temperature±15°C							
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 technical parameters are subject to change without further notice.

S SERIES

SCREW AIR COMPRESSOR

High efficiency of the radiator

Radiator fan adopts axial flow fan with high air volume top inverted suction fan, which is easy to maintain.

Institutional stability

Left hexagonal small tuyere, embellishing the aesthetic appearance , better heat dissipation of the motor.

Large air out

Unique design makes the air discharge smoothly and improves the working efficiency of the air compressor.

Full inlet

Simple and efficient Heat Dissipation Design with Double Air Nozzles at the bottom and Fans at the top.

SPECIALIZE INSIDE, SIMPLE IN SHAPE

- ★ Small and delicate body shape achieves minimal floor space.
- ★ Shock pad imported from Switzerland is highly effective in damping, flexibility, oil and temperature resistance.
- ★ Strict selection of thick-walled seamless steel pipe connection between air end and radiator.
- ★ Direct split structure, no belt aging, more durable.
- ★ Independent research and development of IP54 protective motor, safer, more efficient and more energy-saving.
- ★ Using stable MAM890 controller, easy to operate.

Technical Data for S series Screw air compressor

Fixed frequency											
Model		S-10	S-15	S-20	S-30	S-50	S-60	S-75	S-100	S-125	S-150	S-175
Discharge Pressure (Mpa)		0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Air Delivery (m^3/min)		1.08	1.6	2.3	3.3	6.2	7.1	9.2	12.6	15.7	19.8	22.8
Power (Kw)		7.5	11	15	22	37	45	55	75	90	110	132
Lubricating oil(L)		3	5	5	5	12	12	31	31	45	60	60
Cooling		Air										
Driving way		Direct										
Discharge Temperature(℃)		≤Ambient temperature±15℃										
Noise Level (dB(A))		62±2	65±2	65±2	67±2	70±2	72±2	75±2	75±2	75±2	75±2	75±2
Dimension	L(mm)	880	1100	1100	1200	1350	1350	1860	1860	1860	2400	2400
	W(mm)	660	730	730	900	1000	1000	1200	1200	1205	1470	1470
	H(mm)	1000	1050	1050	1220	1330	1330	1600	1600	1700	1900	1900
Weight (Kg)		185	270	290	450	550	650	780	830	940	1050	1200
Air outlet Pipe Diameter (inch/mm)		G $\frac{3}{4}$"	G$\frac{3}{4}$"	G$\frac{3}{4}$"	G 1"	G1$\frac{1}{4}$"	G1$\frac{1}{4}$"	G2"	G2"	DN65	DN65	DN65

PM variable frequency											
Model		SV-10	SV-15	SV-20	SV-30	SV-50	SV-60	SV-75	SV-100	SV-125	SV-150	SV-175
Discharge Pressure (Mpa)		0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Air Delivery (m^3/min)		1.1	1.75	2.35	3.4	6.3	7.15	9.3	12.7	15.9	20	23
Power (Kw)		7.5	11	15	22	37	45	55	75	90	110	132
Lubricating oil(L)		3	5	5	5	12	12	31	31	45	60	60
Cooling		Air										
Driving way		Direct										
Discharge Temperature(℃)		≤Ambient temperature±15℃										
Noise Level (dB(A))		62±2	65±2	65±2	67±2	70±2	72±2	75±2	75±2	75±2	75±2	75±2
Dimension	L(mm)	880	1100	1100	1200	1350	1350	1860	1860	1860	2400	2400
	W(mm)	660	730	730	900	1000	1000	1200	1200	1205	1470	1470
	H(mm)	1000	1050	1050	1220	1330	1330	1600	1600	1700	1900	1900
Weight (Kg)		160	250	270	420	500	600	750	810	910	1020	1150
Air outlet Pipe Diameter (inch/mm)		G $\frac{3}{4}$"	G$\frac{3}{4}$"	G$\frac{3}{4}$"	G 1"	G1$\frac{1}{4}$"	G1$\frac{1}{4}$"	G2"	G2"	DN65	DN65	DN65

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

MEDIUM PRESSURE

PM VSD air compressor for laser cutting equipment

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 protection 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.

Technical parameters of middle pressure permanent magnetic frequency conversion air compressor

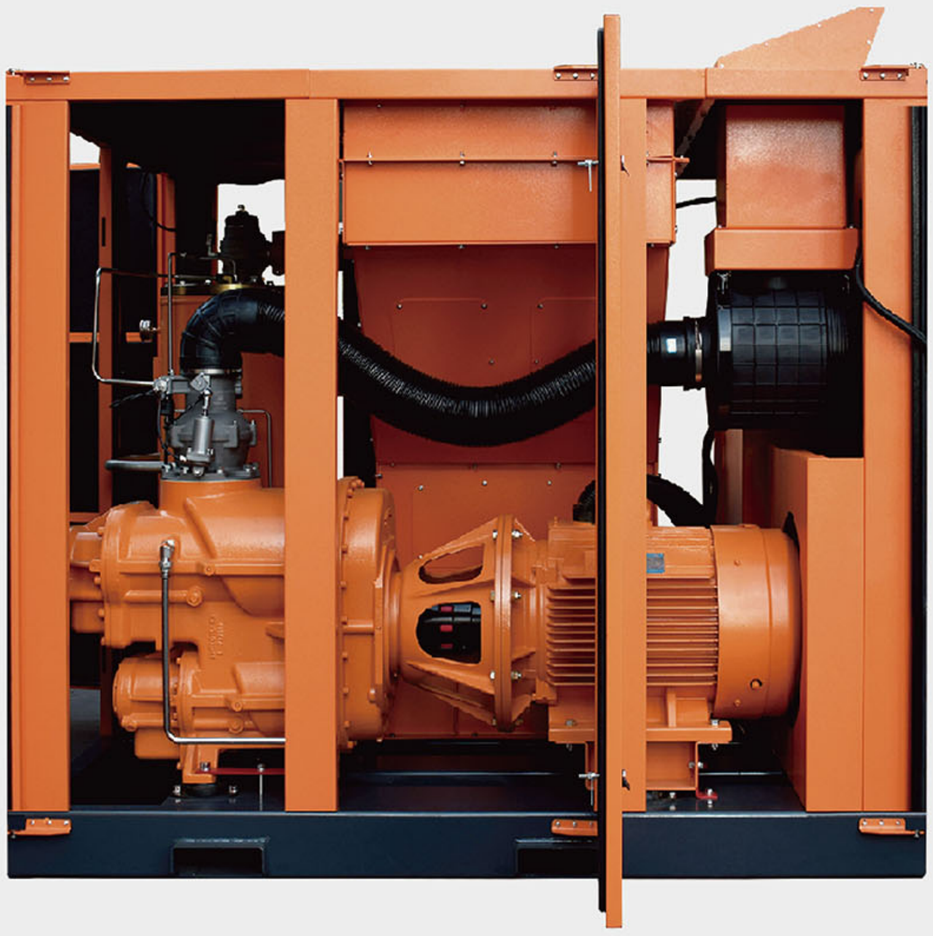
Model		LGPM-10	LGPM-15	LGPM-20	LGPM-25	LGPM-30	LGPM-40	LGPM-50
Discharge pressure (MPa)		1.6						
Air delivery (m³/min)		0.5	1.08	1.5	1.8	2.2	3.1	3.6
Cooling		air cooling						
Discharge temperature (℃)		Ambient temperature±15℃						
Lubricant (L)		4	6		8		16	18
Noise Level (dB(A))		60±3	65±3				68±3	
Driving way		Belt/Direct						
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	1060	1060	1200	1200	1400	1400
	Width (mm)	800	750	750	900	900	1000	1000
	Hight (mm)	1123	950	950	1250	1250	1580	1580
Weight (kg)		400	190	190	350	350	800	830
Air outlet Pipe Diameter (inch/mm)		3/4"	3/4"	3/4"	1"	1"	1 1/2"	1-1/2"

Model		LGPM-15TD	LGPM-20TD	LGPM-30TD
Discharge pressure (MPa)		1.6		
Air delivery (m³/min)		1.0	1.5	2.2
Cooling		air cooling		
Discharge temperature (℃)		Ambient temperature±15℃		
Lubricant (L)		6		
Noise Level (dB(A))		65±3		
Driving way		Belt/Direct		
Motor	Power (kw)	11	15	22
	Drive method	Frequency conversion starting(or fixed frequency)		
Electricity (V / ph / Hz)		380V/50Hz		
Cold drying machine	Model	HD-20AC	HD-20AC	HD-30AC
	Air delivery(m³/min)	1.5	1.5	3.0
	Dimension(mm)	450*300*600	450*300*600	750*360*550
Dimension(mm)		1860*750*1550	1860*750*1550	1850*1320*1860
Weight (kg)		400	400	950
Air outlet Pipe Diameter (inch/mm)		3/4"	3/4"	3/4"

Note:The above technical 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, hign 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 Technology

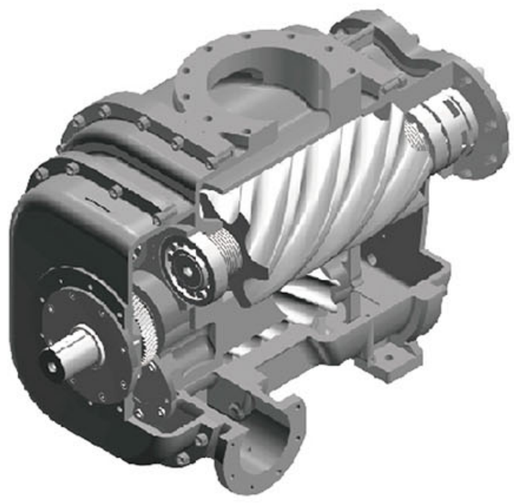
The rotor type line using the latest design patent, after more than twenty working procedure of finish machining, to ensure the precision of the rotor type line, reliability and validity.

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		LGGPM-30	LGGPM-50	LGGPM-60	LGGPM-75	LGGPM-100	LGGPM-125	LGGPM-150
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	23	40		54	60	
Noise Level (dB(A))		72±2			78±2		82±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	1810	1810	1980	2360	2280
	Width (mm)	900	1100	1430	1430	1480	1580	1930
	Hight (mm)	1500	1600	2080	2080	2130	2250	2095
	Weight (kg)	730	1080	1810	1810	2100	2570	2820
Air outlet Pipe Diameter (inch/mm)		1 1/2"	1 1/2"	2"	2"	DN65	DN65	DN65

Model		LGGPM-175	LGGPM-200	LGGPM-250	LGGPM-285	LGGPM-300	LGGPM-350	LGGPM-380	LGGPM-425
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)		90		150		180		221	
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)	2430	2500	3500	4110	4110	4110	4350	4350
	Width (mm)	1980	2126	2100	2100	2100	2100	2100	2100
	Hight (mm)	2095	2130	2100	2650	2650	2650	2200	2200
	Weight (kg)	3050	3600	3990	5500	6500	6800	7200	7800
Air outlet Pipe Diameter (inch/mm)		DN80	DN80	DN100	DN100	DN100	DN100	DN125	DN125

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

BLUE STORM

series PM VSD air Compressor

Small Model

New appearance, innovation of industrial screw;
Small area cover;
50% energy saving;
Super quietly (as low as 60dB(A));
7.5-75KW all series.

Compact Structures

Small area cover.
The coaxial of rotor and motor.
Isolation of drive and hot-cold cooling system.

High Efficiency

Ultimate energy saving
Free air displacement 0-100% free switch with gas demandHigh efficiency motor efficiency of 96%, to the international IE4 efficiency level.

High Reliability

The system more simple design, with 30 years of experience and technology of our Transmax, the perfect intergration of the latest technology low maintenance cost, less parts and longer working hours.

Super Quietly

Special air hose design reduces windage and reduces noise by 20%.
More efficient cooling fan, special fan shaped line, air volume increased by 15%.

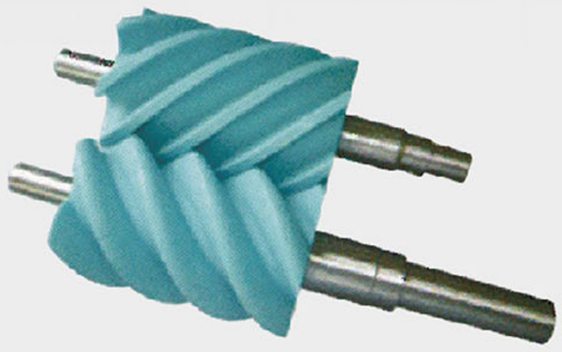
Technical Parameters Of blue storm PM frequency conversion air compressor

Model		M-10	M-15	M-20	M-30	M-50
Discharge pressure 0.7~1.0(MPa)	Air delivery (m³/min)	1.2/0.7	1.8/0.7	2.4/0.7	3.6/0.7	6.2/0.7
		1.1/0.8	1.7/0.8	2.2/0.8	3.4/0.8	6.1/0.8
		0.8/1.0	1.5/1.0	1.7/1.0	2.9/1.0	5.1/1.0
Cooling		air cooling				
Discharge temperature (℃)		< Environmental temperature+15℃				
Lubricant (L)		5	7	7	10	16
Noise Level (dB(A))		60±3	62±3	62±3	63±3	65±3
Driving way		direct drive				
motor	Power (kw)	7.5	11	15	22	37
	Straing Method	variable frequency starting				
Electricity (V / ph / Hz)		380V/50Hz				
Dimension	Length (mm)	650	742	742	800	900
	Width (mm)	610	682	682	780	878
	Hight (mm)	1255	1420	1420	1590	1740
Weight (kg)		180	245	245	340	480
Air outlet Pipe Diameter (inch/mm)		3/4"	3/4"	3/4"	1"	1-1/4"

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

WATER

LUBRICATION TWIN SCREW AIR COMPRESSOR



Ceramic and resin composite rotor

Bronze casing

Original import air end

Air driven by innovation

After years of development, we are proud to introduce the most innovative and valuable screw compressor "GP Series" with water as rotor lubricant , and put forward many advantages of our products.

High efficiency

1. Prevent air leakage
2. More air is discharged than dry-type
3. Reduce energy consumption

Oil-free

1. Oil-free compressor
2. Non-pollution

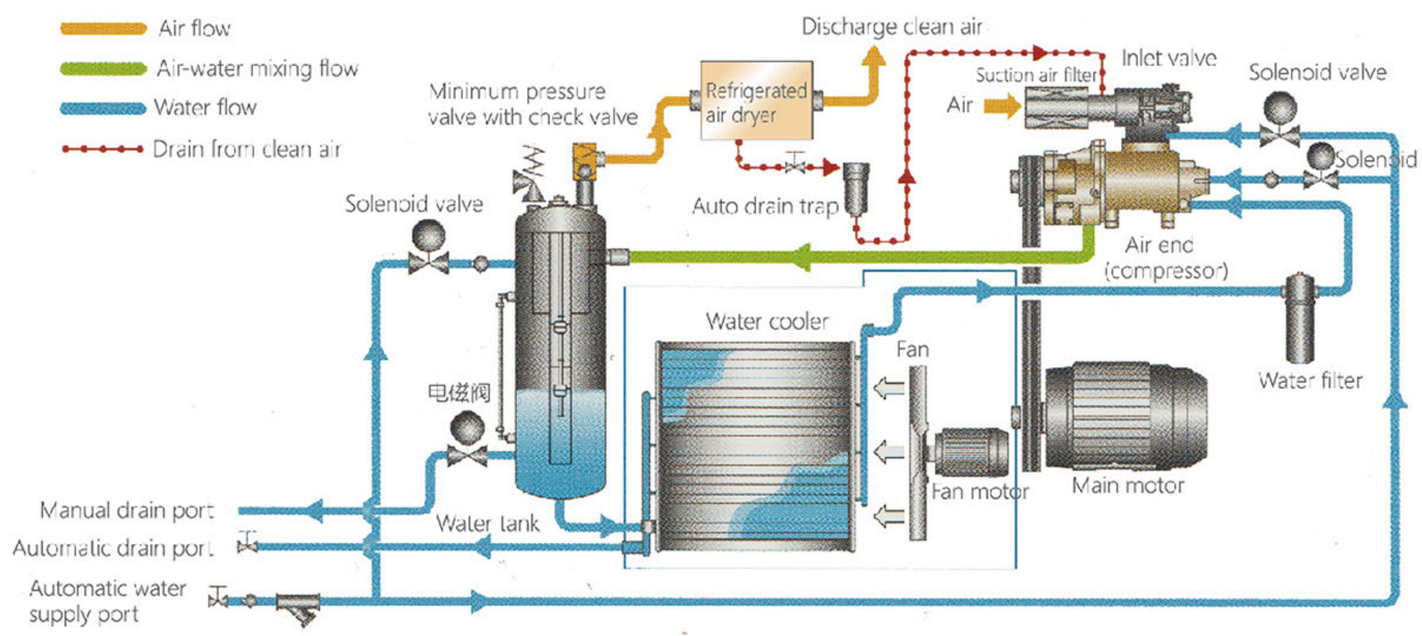
Reliable structure

1. Anti-rust ceramic composite resin rotor and bronze shell
2. Maintain water quality with a self-circulating water system

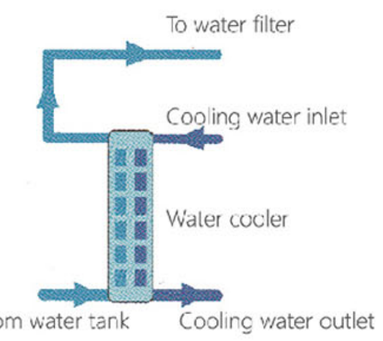
Easy to maintain

The two-stage rotor is relatively simple compared with the complex dry type

Diagram of air cooling



Water cooled type



Note: For water cooled type,cooling system in white frame on left diagram ☐ is changed as above.

Technical Parameters Of water lubrication frequency conversion twin screw air compressor

Model		GP15BESA-DV	GP22BESA-DV	GP37BESA-DV	GP37BES-DV	GP55BES-DV	GP75BES-DV
Air delivery (m^3/min)		0.7-2.3	1.0-3.5	1.8-6.1	1.8-6.1	2.8-9.2	3.8-12.7
Discharge pressure (MPa)		0.49-0.88	0.49-0.88	0.49-0.88	0.49-0.88	0.49-0.88	0.49-0.88
Cooling		Air	Air	Air	Water	Water	Water
Power (kw)		15	22	37	37	55	75
Dimension	Length (mm)	1735	1735	2010	2010	2110	2110
	Width (mm)	1030	1030	1186	1186	1310	1310
	Hight (mm)	1450	1450	1450	1450	1740	1740
	Weight (kg)	850	910	1280	1165	1650	1980

Technical Parameters Of water lubrication twin screw air compressor

Model		GP15BESA-DV	GP22BESA-DV	GP37BESA-DV	GP37BES-DV	GP55BES-DV	GP75BES-DV
Air delivery (m^3/min)		2.3/1.8	3.5/2.7	6.1/4.9	6.1/4.9	9.2/7.0	12.7/10.3
Discharge pressure (MPa)		0.69-0.88	0.69-0.88	069-0.88	0.69-0.88	0.69-0.88	0.69-0.88
Cooling		Air	Air	Air	Water	Water	Water
Power (kw)		15	22	37	37	55	75
Dimension	Length (mm)	1735	1735	2010	2010	2110	2110
	Width (mm)	1030	1030	1186	1186	1310	1310
	Hight (mm)	1450	1450	1450	1450	1740	1740
	Weight (kg)	845	900	1260	1145	1590	1860

Note:The above technical 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 compressor

Model		LGL-30-3	LGL-50-3	LGL-60-3	LGL-75-3	LGL-100-3	LGL-125-3
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		LGL-150-3	LGL-175-3	LGL-50-5	LGL-60-5	LGL-75-5
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		LGL-100-5	LGL-125-5	LGL-150-5	LGL-175-5	LGL-200-5	LGL-250-5
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 technical parameters are subject to change without further notice.

OIL-FREE

SCROLL AIR COMPRESSOR

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.

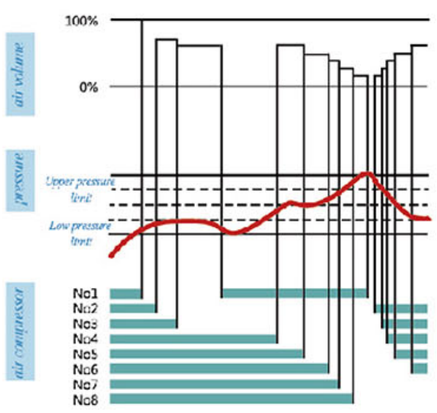
Compact

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)



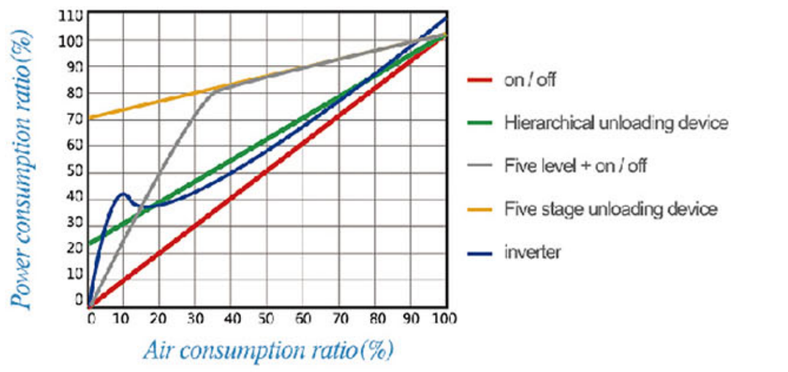
Substantial inhibition of electricity consumption, energy saving effect is excellent

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.

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

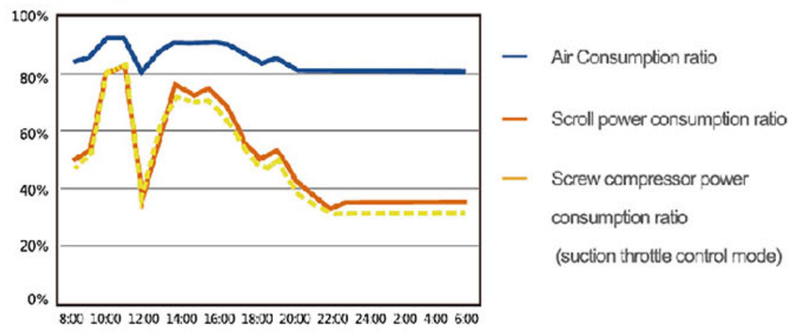
Using the least energy consumption of the on / off control. According to the usage of air volume and 、the actual situation, to achieve the best operation.

Power consumption ratio is different according to the control mode



Compare with the ratio of energy consumption

For using <Think Air>series



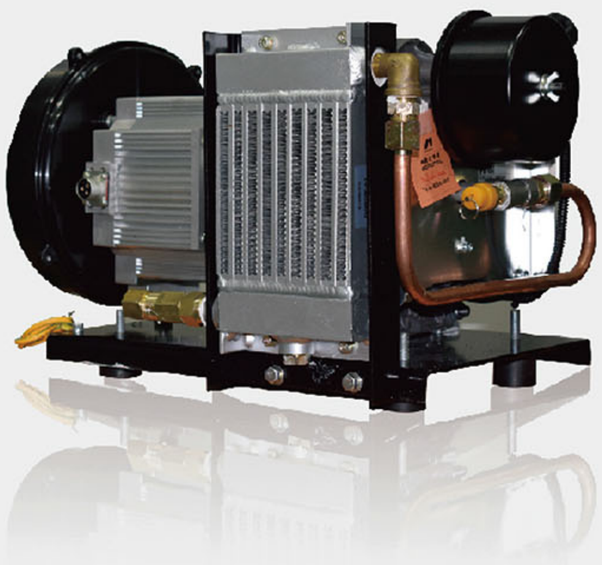
Technical parameters of oil - free scroll air compressor

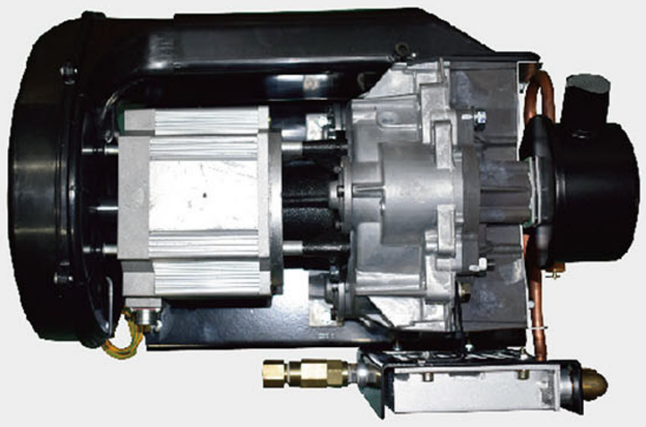
Model		SCR-5	SCR-10	SCR-15	SCR-20	SCR-30	SCR-40
Air delivery (m^3/min)		0.42	0.84	1.26	1.68	2.52	3.36
Discharge pressure (MPa)		0.65-0.8	0.65-0.8	0.65-0.8	0.65-0.8	0.65-0.8	0.65-0.8
Noise Level (dB(A))		62±2	62±2	63±2	63±2	63±2	65±2
Power (kw)		4	7.5	11	15	30	30
Quantity of air end		1	2	3	4	4	8
Dimension	Length (mm)	750	1100	1150	1200	1620	1620
	Width (mm)	628	800	830	870	1200	1300
	Hight (mm)	850	980	1380	1810	1735	2120
	Weight (kg)	160	350	450	620	800	1230
1MPa specification							
Air delivery (m^3/min)		0.355	0.71	1.065	1.42	2.31	2.84
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))		62±2	62±2	63±2	63±2	63±2	65±2
Dimension	Length (mm)	750	1100	1150	1200	1620	1620
	Width (mm)	628	800	830	870	1200	1300
	Hight (mm)	850	980	1380	1810	1730	2120
	Weight (kg)	160	350	450	620	800	1230

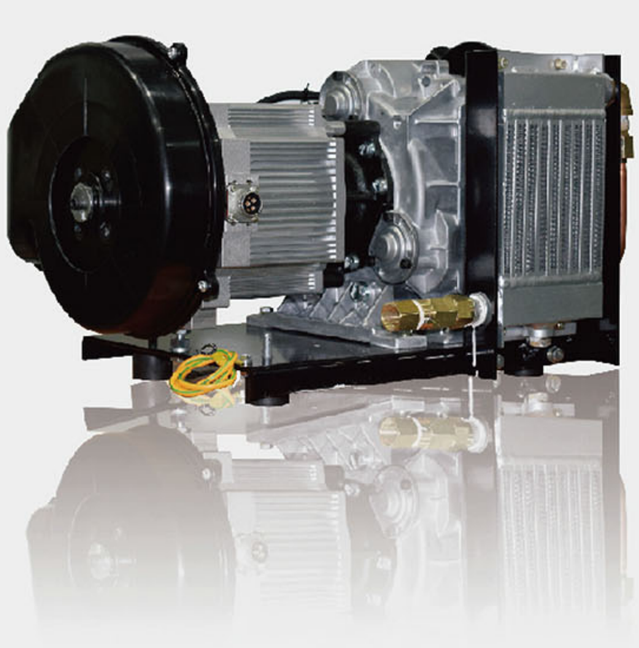
Note:The above technical parameters are subject to change without further notice.

OIL FREE

SCROLL OF NEW ENERGY VEHICLES







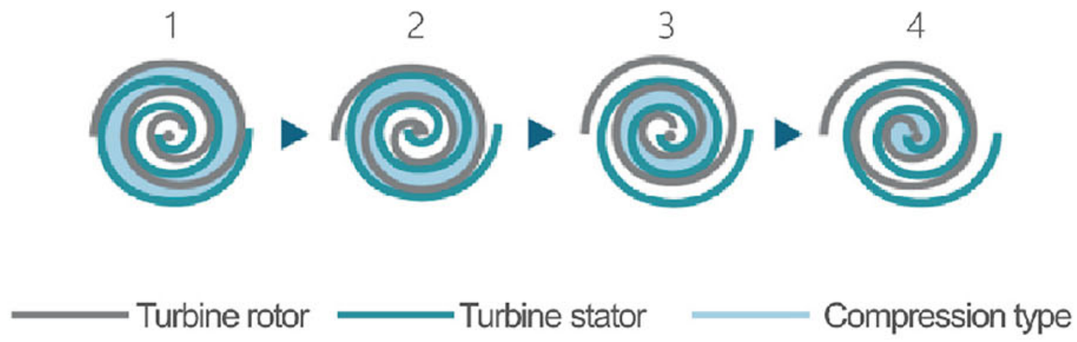
Product presentation

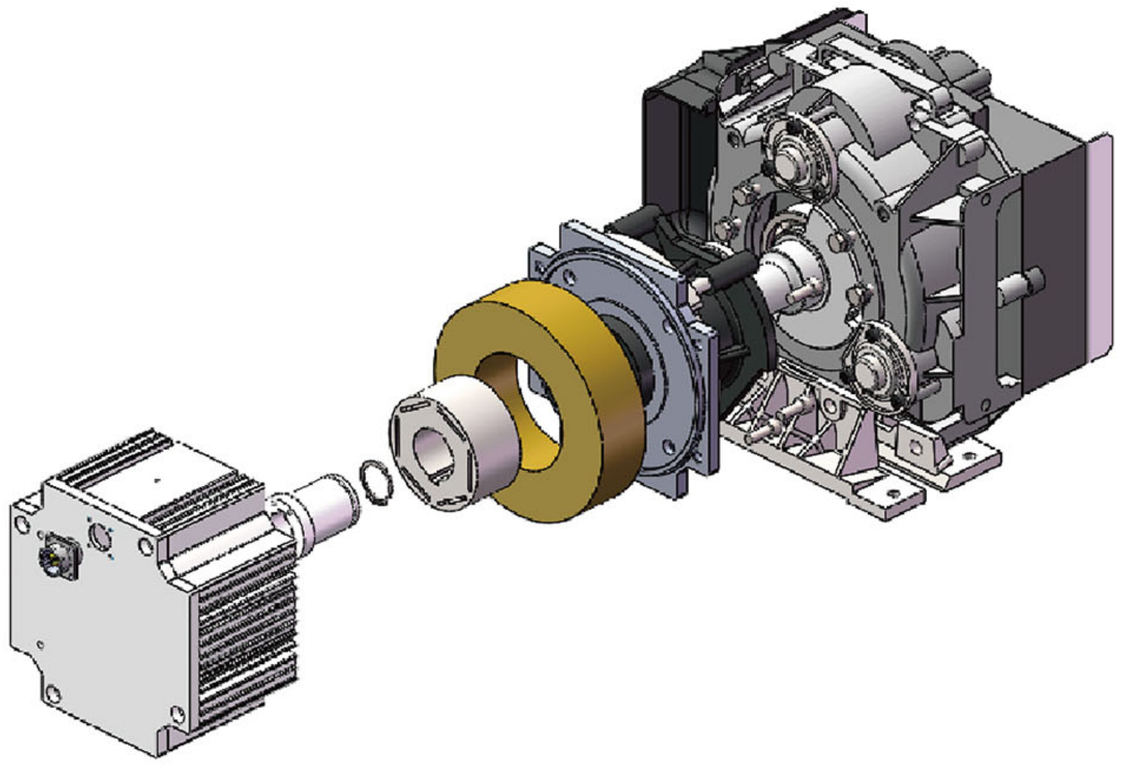
The braking, suspension and other auxiliary systems of new energy vehicles al require compressed air to power them. Therefore, air compressor is an important part of new energy vehicle. Under the condition of fully meeting the requirements of air volume, the Transmax vehicle complete oil-free scroll machine can achieve a stable, reliable and maintenance-free solution for the on-board compressed air system, and lead the development of new energy automotive on-board compressor in the future with perfect quality.

Product Features

1. High efficiency reliability: adopt imported head, high efficiency permanent magnet motor, independen heat dissipation ssytem, guarantee long interval repair and maintenance and few maintenance requirements.
2. High safety: less moving parts, simple structure, high safety
3. Long life: reliable operation of more than 8000 ~ 1000h, unique construction, long maintenance period, long service life
4. Comply with harsh environmental requirements: no vulnerability risk, no centralized treatment of conden-sate, comply with IP67 standards.
5. Quiet and comfortable: no contact, vibration and noise.
6. Energy saving and environmental protection: no oil and water, no oil and carbon pollution, no need to replace lubricationg oil and the disposal of filters, etc.

The rotor scroll according to the diagram 1-2-3-4 sequential rotation, the air is sucked the space between to stator vortex and vortex rotor, crescent (into the form of point symmetry) of the compression chamber volume becomes small, air compressed from the mouth of the center part of the exhaust discharge.





Technical parameters of oil free scroll air compressor of new energy vehicles

Model	HDW-2.2	HDW-3.7
Air delivery (m^3/min)	0.21	0.34
Discharge pressure (MPa)	0.8~1.0	0.8~1.0
Weight (kg)	35	40

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

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	HD-7.5AC	HD-10AC	HD-15AC	HD-20AC	HD-30AC	HD-50AC	HD-75AC
Capacity(m^3/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	HD-100AC	HD-150AC	HD-200AC	HD-300AC	HD-400AC	HD-500AC	HD-600AC
Capacity(m^3/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	HD-300WC	HD-400WC	HD-500WC	HD-600WC	HD-700WC	HD-1000WC	HD-1500WC	HD-2000WC
Capacity(m^3/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 technical parameters are subject to change without further notice.

ABSORPTION AIR DRYER

Working conditions and technical specifications

LAT.	≤ 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

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.

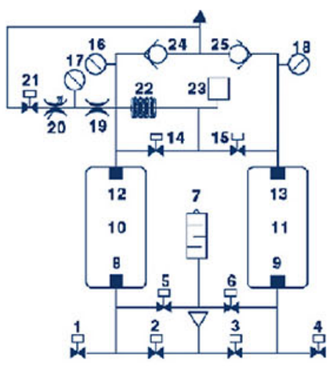
Using adsorption tank with pressure vessel certificate, safety performance is guaranteed.

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.



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 technical 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

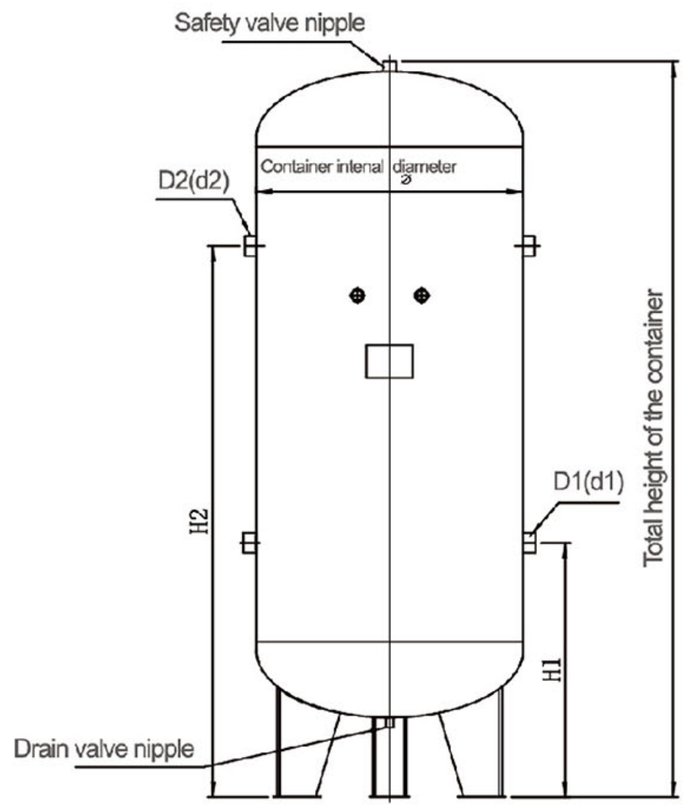
Easy installation, automatic maintenance-free.
The interval and discharge time can be adjusted and the test button is available.
Protection grade IP65, insulation grade H.
Equipped with filter ball valve, and drainage valve split into L-type structure. Shape dimension 106*47*91mm.
540g weight (including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

TECHNICAL DATA FOR PRECISION FILTER

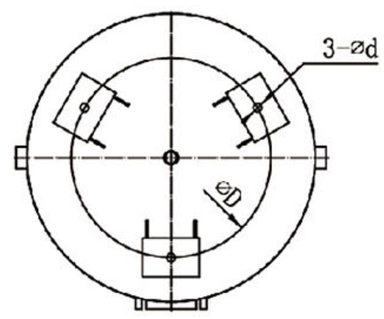
Model	Dimensions			m³/min CFM		m³/min CFM	P / S / M / X	Weight (kg)	Workingprssure (bar)
	A (mm)	B (mm)	C (mm)						
HD004	267.0	243.0	89.0	0.4	14.1	1″	1X004	1.1	16
HD007	267.0	243.0	89.0	0.7	24.7	1″	1X007	1.1	16
HD015	267.0	243.0	89.0	1.5	53.0	1″	1X015	1.1	16
HD024	513.5	480.0	109.0	2.4	84.7	1/2″	1X024	2.2	16
HD035	513.5	480.0	109.0	3.5	123.6	1 1/2″	1X035	2.2	16
HD060	513.5	480.0	109.0	6.0	211.9	1 1/2″	1X060	2.7	16
HD090	550.0	509.5	150.0	9.0	317.8	2″	1X090	4.25	16
HD120	928.0	887.5	150.0	12.0	423.7	2″	1X020	6.0	16
HD150	928.0	887.5	150.0	15.0	529.7	2″	1X150	6.0	16
HD240	1225.5	1133.0	275.0	24.0	847.5	PN16D65	1X240	28.5	12
HD360	1512.0	1100.0	473.0	36.0	1271.2	PN16D125	3X120	167	12
HD450	1706.0	1265.0	473.0	45.0	1589.0	PN16D150	3X150	140	12
HD600	1812.0	1315.0	520.0	60.0	2118.8	PN16D200	4X150	148	10

Note:The above technical 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	Flange DN80	2265	80	Flange DN80	24	630	Rp 1	R3/4
1.5 / 1.0	150	2765	900	768	80	Flange DN80	2268	80	Flange DN80	24	630	Rp 1	R3/4
1.5 / 1.3	150	2768	900	769	80	Flange DN80	2269	80	Flange DN80	24	630	Rp 1	R3/4
1.5 / 1.6	150	2770	900	770	80	Flange DN80	2270	80	Flange DN80	24	630	Rp 1	R3/4
2.0 / 0.8	150	2885	1000	784	80	Flange DN80	2364	80	Flange DN80	24	700	Rp 1	R3/4
2.0 / 1.0	150	2888	1000	786	80	Flange DN80	2366	80	Flange DN80	24	700	Rp 1	R3/4
2.0 / 1.3	150	2891	1000	787	80	Flange DN80	2367	80	Flange DN80	24	700	Rp 1	R3/4
2.0 / 1.6	150	3039	1000	761	80	Flange DN80	2370	80	Flange DN80	24	700	Rp 1	R3/4
3.0 / 0.8	150	3020	1200	848	100	Flange DN80	2398	100	Flange DN80	24	840	Rp 1	1/4 R1
3.0 / 1.0	150	3024	1200	850	100	Flange DN80	2400	100	Flange DN80	24	840	Rp 1	1/4 R1
3.0 / 1.3	150	3020	1200	848	100	Flange DN80	2398	100	Flange DN80	24	840	Rp 1	1/4 R1
3.0 / 1.6	150	3024	1200	850	100	Flange DN80	2400	100	Flange DN80	24	840	Rp 1	1/4 R1
4.0 / 0.8	150	3120	1400	917	125	Flange DN80	2395	125	Flange DN80	24	1050	Rp 1	1/2 R1
4.0 / 1.0	150	3074	1400	934	125	Flange DN80	2334	125	Flange DN80	24	1050	Rp 1	1/2 R1

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

ACCESSORIES

Variable-frequency drive

The compressed air system is the most effective method of saving energy is equal to the amount of gas production, the traditional air compressor by loading, unloading, starting, stopping, Intake throttling and other air volume adjustment to control the intake,these methods have low precision, valves and electrical components of electric appliances frequent deficiency. Frequency conversion compressor is achieved by changing the speed of the motor to achieve the gas control, so that the gas production volume with the change of gas consumption, not only to adjust the accuracy, but also greatly reduce the valve and electrical components of the operating frequency, both energy saving and reliable is the remarkable characteristic of frequency conversion compressor. Variable frequency compressor can be set up by setting the frequency pressure to get the best working pressure, the pressure is generally lower than the maximum working pressure of the compressor (unloading pressure) compressor will be more relaxed, the relationship between the leakage of pipe network will be reduced.

Energy efficient motor

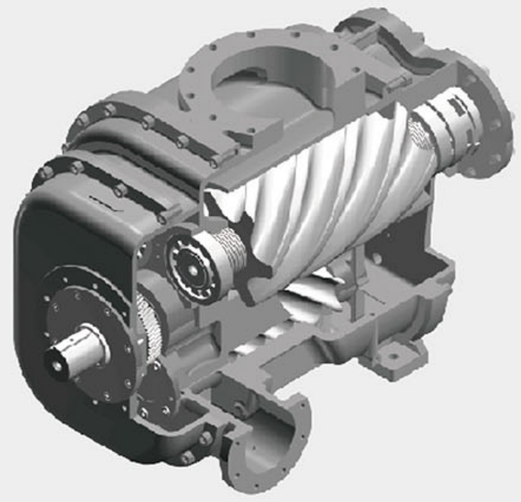
Power is extremely strong, bring lower energy consumption, higher reliability, protection level is IP54, the protection of the internal dust, insulation class F.
In order to ensure that the screw compressor to achieve reliable and durable, and to ensure that the industry's leading technology, our motor is in accordance with the requirements of the high level of motor manufacturers , such as : the motor is equipped with heavy SKF import bearings , we are still at the ends of the motor bearing housing is located in the lubrication grease filling port is particularly convenient for motor maintenance level is IP54, insulation class F grade, B grade heating . Due to the high level of protection , it is more effective to prevent water and dust from entering the motor windings, extending the service life of the motor. At present, compared with the same industry , the majority of manufacturers are using the IP23 protection level , and our company all the use of IP54 above the level of protection as the standard configuration of the product.

High efficient cooling system

Efficient cooling system to form a unique design and reasonable layout , high thermal efficiency , to ensure that both the high temperature , high humidity environment, can work continuously 24 hours a day.
The cooling system of the screw compressor is composed of oil cooler and compressed air cooler.
The cooling system of the screw air compressor is welded by the oil cooler and the compressed air. Using aluminium plate fin fin structure, unique structure, an increase of two times the heat exchange area, promote the spoiler, improve the heat transfer coefficient, the volume is small, (the volume is only general tube 1/3), light weight, high heat exchange efficiency.
Water cooled screw type air compressor will be installed directly in the cooler temperature control valve , simplify the circuit , reduce oil leakage problems caused by chance, at the same time, cooling system using 4 cooling fan work together, make full use of every inch of the cooler cooling area.

High efficiency screw machine

MAXTOP host: the use of third generation of asymmetric teeth, the main rotor five teeth, six vice rotor teeth, the gap between the teeth small, so that the loss of small, compared with the general efficiency of the screw compressor to improve the efficiency of nearly 25%, saving about 20%, the rotor with asymmetric type, with ball bearings and roller bearing and low speed operation, so wear less, maintenance costs less,long life. Screw machine is the heart of screw air compressor, its performance directly affects the operating cost and service life of the machine, advanced screw tooth shape, so that the machine's impact, vibration maximum reduction, and effectively extend the life of the moving parts, the best screw line speed and very high compression efficiency.
MAXTOP patent host uses advanced type line. Its characteristic is: the Yin and Yang rotor diameter is equal, compared with the 5/6 or 4/5, the female rotor has a higher rigidity, therefore is not easy to deformation, the internal leakage loss is small; has the best screw thread speed;
The main engine type line is the grinding process, and the screw is more accurate. The maximum reduction of the force of the screw, the effective extension of the life of the moving parts.
The noise of the screw type air compressor is 65 dB, which indicates that the processing precision of the compressor is high, the operation is small , the impact is small, and the main engine is designed and processed with advanced international level.
MAXTOP host has high efficiency, the best screw line speed than similar products on the market more than 5% energy saving.



Intelligent control system

All function in your fingertips

Microcomputer intelligent monitoring system, automatic operation, Chinese display, touch key, operating personnel without special training.
Friendly menu interface, operating parameters, the fault alarm down protection, can achieve PLC remote control, RS485 communication port to achieve multi unit interlocking control.

Save time and money and self diagnosis

Intelligent controller for continuous monitoring of the 12 important operating parameters of the compressor , when the deviation from the preset value , the controller automatically issued a warning or stop, while showing the cause of the failure, and write to the history of the fault records.

Automatic protection device for advanced microcom puter programming

Adopt advanced microcomputer programming automatic protection device control system, can realize the oil filter blockage, blockage of fine oil separator, air filter clogging warning, system too high exhaust temperature warning, main motor phase sequence error automatic protection. The control system has self diagnosis and protection function, and it is clear that all operation conditions are indicated, can be implemented without the 24 hours of work, is the most advanced modern screw compressor configuration.

Oil gas separator

Screw air compressor produces a lot of heat in the compressed air , usually we need to spray into the main engine lubricating oil, which mainly plays the role of heat dissipation, noise reduction, lubrication and sealing . Because of the discharged through the exhaust port for the mixture of oil and gas,need to go through the oil and gas separator system, on the one hand , saving operating costs (fuel consumption) , but also to ensure that the exhaust gas is clean.

The oil and gas separator adopts the rotary type design for easy removal and replacement , the separator core can separate the air , and the residual oil content is about 1-2ppm , which can improve the cleanliness of compressed air , and reduce the pollution of the residual oil to the compressed air and the gas equipment.

Minimum pressure valve

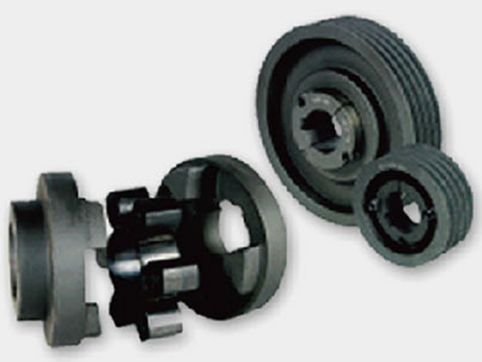
The world famous products, to ensure that the required pressure oil circulating compression system, prevent backflow of gas.

Oil filter

Using the rotary filter, completely remove impurities in the lubricant , the internal configuration of the temperature control valve, to meet the regional temperature, to ensure the quality of the lubricating oil and oil pressure, easy to replace and without oil leakage.

Intake valve

Using the world famous products ,according to the requirements of the amount of system 0-100%, automatic adjustment of gas consumption, reduce operating costs, a new professional design of the integrated intake control valve, the machine's light load start, load operation , reducing the operation of automatic control, to ensure the operation of the main engine is absolutely safe and economical.



High efficiency, long life of the transmission structure

Whether it is a belt drive, or a flexible coupling, the design life of 25000 hours, to ensure that use 8000 hours or more than 2 years.