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SINO-FOREIGN JOINT VENTURE
PROFESSIONAL MANUFACTURE



YILUMA SCREW AIR COMPRESSOR

Yiluma Single Stage Energy Saving Series

Large Air volume dissipation structure



Quick dissipation

large Air volume reverse sucking axial fan, easy for maintenance.

Stable structure

hexagonal air outlet on the left size, beautiful appearance, better dissipation for the motor



Big discharge

discharge air smoothly by specilize design, improve air compressor running efficiency.

Large air inlet

double tuyeres and top fan, supplement and complement each other, simple and high efficiency dissipation desgin.



Specialize inside, simple in shape

- ★ Small footprint thanks to small and exquisite shape;
- ★ Customized and specilized shock pad is imported from Switzerland, high efficient damping, strong interference resistance, oil and heat resistance;
- ★ Airend and radiator are connected by sufficient thickness and seamless steel pipe;
- ★ Power frequency coupling direct connection structure, permanent magnet direct connection structure, no belt aging, more efficient and durable;
- ★ Self developed protection level IP54 motor, more safety , higher efficiency, more energy saving;
- ★ Use stable MAM890 controller, easy operation.



Technical parameters

Yiluma Single Stage Energy Saving Series									
Model	S-10	S-15	S-20	S-30	S-50	S-60	S-75	S-100	
Discharge Pressure (Mpa)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
Air Delivery (m³/min)	1.08	1.6	2.3	3.3	6.2	7.1	9.2	12.6	
Power (Kw)	7.5	11	15	22	37	45	55	75	
Lubricant (L)	3	5	5	5	12	12	31	31	
Drive method	power frequency								
Cooling	Air								
Discharge Temperature (°C)	≤Ambient temperature±15°C								
Electricity (V/Hz)	380V/50Hz								
Dimension	L(mm)	880	1100	1100	1200	1350	1350	1860	1860
	W(mm)	660	730	730	900	1000	1000	1200	1200
	H(mm)	1000	1050	1050	1220	1330	1330	1600	1600
Weight (Kg)	185	270	290	450	550	650	780	830	
Air outlet Pipe Diameter (inch/mm)	G 3/4"	G 3/4"	G 3/4"	G 1"	G 1 1/4"	G 1 1/2"	G 2"	G 2"	

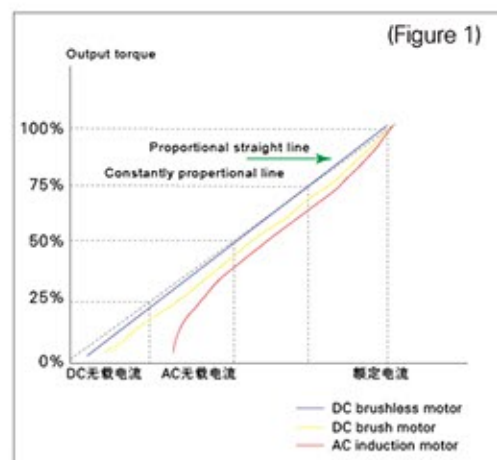
Note: The above technical parameters are subject to change without future notice.

Yiluma Single Stage Permanent Magnet Series



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. (Figure 1)

Wider Frequency converting control range:

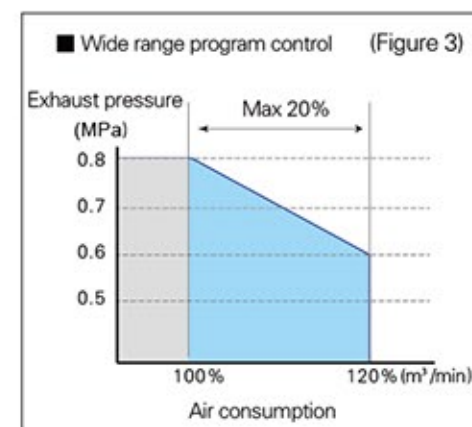
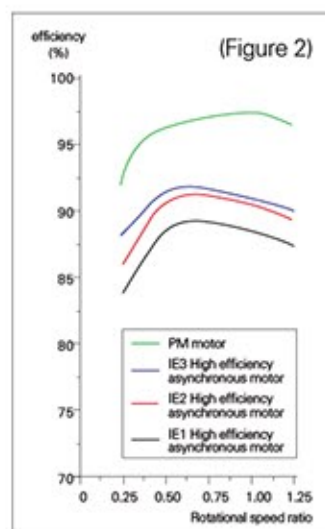
Permanent-magnet synchronous motor still keep high efficient under slow-speed of revolution, high torque, so the range of frequency converting control mode is wider, more stable operation, quicker response.

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.

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%. (Figure 2)



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%. (Figure 3)

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.

Technical parameters

Yiluma Single Stage Permanent Magnet Series									
Model	SV-10	SV-15	SV-20	SV-30	SV-50	SV-60	SV-75	SV-100	
Discharge Pressure (Mpa)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
Air Delivery (m³/min)	1.1	1.75	2.35	3.4	6.3	7.15	9.3	12.7	
Power (Kw)	7.5	11	15	22	37	45	55	75	
Lubricant (L)	3	5	5	5	12	12	31	31	
Drive method	Variable Frequency Starting								
Cooling	Air								
Discharge Temperature (°C)	≤ Ambient temperature ± 15°C								
Electricity (V/Hz)	380V/50Hz								
Dimension	L(mm)	880	1100	1100	1200	1350	1350	1860	1860
	W(mm)	660	730	730	900	1000	1000	1200	1200
	H(mm)	1000	1050	1050	1220	1330	1330	1600	1600
Weight (Kg)	160	250	270	420	500	600	750	810	
Air outlet Pipe Diameter (inch/mm)	G 3/4"	G 3/4"	G 3/4"	G 1"	G 1 1/4"	G 1 1/2"	G 2"	G 2"	

Yiluma Integrated machine series												
Model	Discharge Pressure (Mpa)	Air Delivery (m³/min)	Power (Kw)	Lubricant (L)	Drive method	Cooling	Discharge Temperature (°C)	Electricity (V/Hz)	Dimension	Weight (Kg)	Air outlet Pipe Diameter (inch/mm)	Tank(L)
S-10T	0.8	1.08	7.5	3	power frequency	Air	≤ Ambient temperature ± 15°C	380V/50Hz	1240*660*1380	290	G 3/4"	180
SV-10T		1.1			Variable Frequency Starting					265		

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

Yiluma Two Stages Permanent Magnet Series



Big Suction Valve

- ★ Big diameter, low pressure drop.
- ★ 0 default, long lifetime.

Original two stage air end

- ★ Coaxial integrated structure.
- ★ Simple and compact structure, Saves space.
- ★ High efficiency driving.

High Efficiency Cooling System

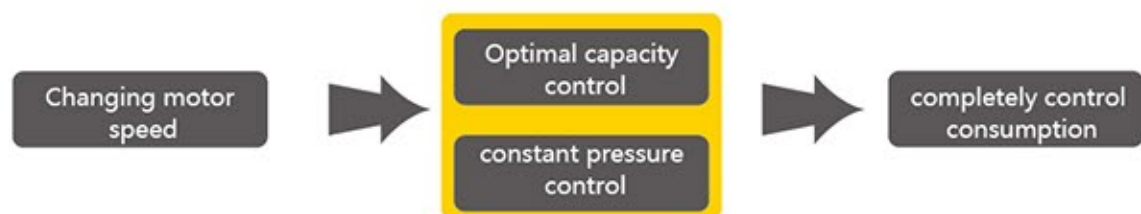
- ★ Oil Cooler and after-cooler operate separately, improve cooling performance. Long lifetime, prevent damage of cooler from temperature difference.

Super High Efficiency Permanent Magnet Motor

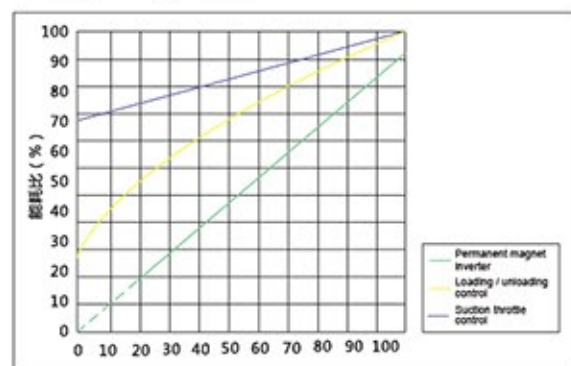
- ★ Permanent Magnet Motor constant temperature is at 70-80 °C.
- ★ Highly reduce motor current.
- ★ 1500rpm/min, low speed, super high torque, super quiet, long lifetime.
- ★ Protection Level IP54.

Intelligent Frequency Conversion Controller

- ★ Controlled by Huada specialized inverter and energy saving logic, achieve best energy saving at any loading condition. Track pressure changing quickly, limit pressure fluctuation at $\pm 0.01\text{Mpa}$, precisely offers necessary air flow by.
- ★ By controlling best air flow and constant pressure, achieve energy saving.
- ★ By controlling speed, achieve air flow adjustment.(Figure 1)
- ★ Inverter soft start.(Figure 2)

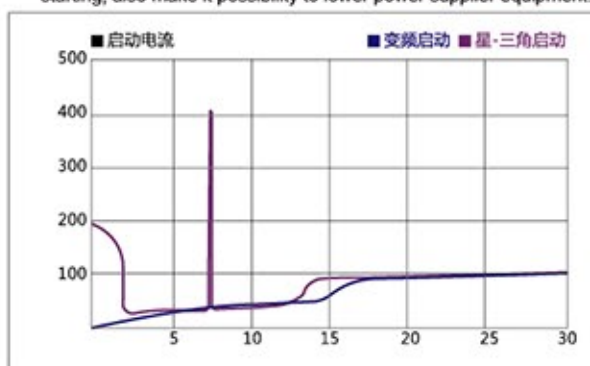


■ Energy Saving performance curve



(Figure 1)

■ Lower starting peak current by inverter soft start, achieve stable starting, also make it possibility to lower power supplier equipment.



(Figure 2)

High performance spare parts

- ★ Use high performance oil filter

Big oil filter,
Ensure oil clean, extend oil and machine inner parts using time.



- ★ Use big and high performance air filter

As dust environment solvement, reducing pressure loss and extend clean time by using big air suction filter.

Using centrifugal and filtering two detaching ways.
ISO5011 Dust filtering accuracy 99.98%



- ★ Air / oil separator

Use high efficiency air/oil separator, by centrifugal separation, gravity separation, filter separation 3 stages oil separation processing, make residual oil of discharging air lower than 3ppm.

First separation Centifugal separation

Compressed air mixed with lubricated oil,inside compressed housing which separated by centrifugal force inside air/oil separator tank;

Second separation Gravity separation

Air/oil separator impact air/oil separator tank inner wall by centifugal separation, precipitate to the bottom of air/oil separator tank because of gravity. Remove sucked iron powder ect micro metal plate at the bottom of air/oil separator tank by magnetic filter, prevent iron powder scratching air/oil separator;

Third separation Filter separation

Use suitable air flow big air/oil separator element, collect lubricated oil by cylindrical fiber filter element.





Technical parameters

Yiluma Two Stages Permanent Magnet Series							
Model	SVD-30	SVD-40	SVD-50	SVD-60	SVD-75	SVD-100	
Discharge Pressure (Mpa)	0.8	0.8	0.8	0.8	0.8	0.8	
Air Delivery (m³/min)	4.1	6.1	7.1	9.0 8	11.4	15.2	
Power (Kw)	22	30	37	45	55	75	
Lubricant (L)	5	12	12	31	42	42	
Drive method	Variable Frequency Starting						
Cooling	Air						
Discharge Temperature (°C)	≤Ambient temperature±15°C						
Electricity (V/Hz)	380V/50Hz						
Dimension	L(mm)	1200	1350	1350	1860	1860	1860
	W(mm)	900	1000	1000	1200	1200	1200
	H(mm)	1250	1450	1450	1600	1700	1700
Weight (Kg)	470	780	830	1200	1350	1420	
Air outlet Pipe Diameter (inch/mm)	G 1"	G1½"	G1½"	G2"	G2"	G2"	

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



Global Service Network

24H after-sales technical support hot line service, solves users problems at anywhere and anytime. After-sales department arranges engineer to solve problems on user site in time once default happened.

After-sales service department consist of Professional sales team and technical engineers, dispatched to stay at users places and offers in time and high quality service year after year.

Annual training is offered to Global agents and after-sales engineers, for mastering new product, new technology, new material,new crafts in order to offer most advancing high quality product service.

Complete accessories, provide offering accessories to users and companies by the lowest price, sufficient stock for a long period.