

COOPERATIVE PARTNERS



Origin From Germany

Compressor System Expert

To Serve The World



SHANGHAI BESTCOMP COMPRESSOR CO., LTD

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IN RETROSPECT

Since 1981, Shanghai Besteomp Compressor Co., Ltd has been dedicated to the development & production of compressors over 4 decades, it has overseas R&D centers + provincial enterprise technology centers, 106 R&D technicians, 12 third-generation Rotorcomp patented lines, and cooperates with German Rotorcomp and American NREC to enhance technology R&D innovation capabilities and resource integration capabilities.

- › 1978 Development of our first own screw compressor with "ROLLING PROFILE®"
- › 1980 Foundation of ROTORCOMP VERDICHTER GmbH in Munich, Germany
- › 1991 Delivery of the first encapsulated screw compressor NK 40
- › 1996 Complete product line of air ends (B-series) from 5.5 up to 110 kW (up to 15 barg)
- › 1998 Complete product line of compact units (NK-series) from 5.5 up to 45 kW (up to 15 barg)
- › 1999 ROTORCOMP delivers more than 10,000 screw units per year, founded Shanghai rotorcomp screw compressor company in Shanghai city, China
- › 2000 Delivery of the first serial booster module MK 80 (up to 40 barg, 48 kW)
- › 2002 Start up of our new state of the art factory UNICCOMP in the south of Munich for production of low and medium pressure screw compressors blocks and compact units, high and medium pressure piston compressor blocks as well as various components
- › 2006 Formation of the business-unit SCREW COMPRESSOR TECHNOLOGY within the BAUER GROUP; responsible for marketing & sales, product development and production of screw compressors
- › 2007 Expansion of our factory UNICCOMP to increase production capacity for machining operations and rotor production for screw compressors
- › 2008 Start up of the new test centre at UNICCOMP for endurance tests of new or modified screw compressors for worldwide approval and continuous monitoring of serial production to ensure highest quality Made in Germany

- › 2009 ROTORCOMP delivers more than 30,000 air ends and compact units per year to the world market and is a leading supplier of oil-injected screw compressors for OEM customers
- › 2010 30 Years of INNOVATION
Introduction of 3 new and innovative product generations to the world market:
EVO oil-injected air ends
EVO -NK oil-injected compact units
ETC -SV/IV catalytic converter for oil-free air class 0
- › 2013 The new model of screw units unveiled service for the whole world
- › 2014 Delivered more than 36,000 screw ends
- › 2015 Building joint venture with RIMA(HONGKONG)International co., Ltd and invested to develop oil free scroll compressor in Zhejiang China.
- › 2016 After the comprehensive acquisition of Shanghai Rotorcomp in 2020, Airera has overseas R&D centers + provincial enterprise technology centers, Hebei and Henan production bases.
- › 2017 Airera has been served customers include Huawei, Sinopec, GE, CNNR, CNPC, BYD, TOYOTA, Air product, PYLONTECH.....etc. over 48 countries. We keep going to contribute to green world with higher efficient clean air products.
- › 2018 Shanghai rotorcomp launched a completely new range of high efficiency, oil-free water-lub screw compressors meet ISO 8573-1 Class Zero to further enhance application scopes of food and beverage processing, the pharmaceutical industry (manufacturing and packaging), waste water treatment, chemical industries.
- › 2019 New generation PM VSD compressor issued, reach top standard GB19153-2019, energy saving performance is more 30%~42%, than last generation, wider frequency adjustable from 30Hz to 200Hz.
- › 2020 Built joint venture with Shanghai Rotorcomp to develop new oil free scroll compressor and delivered more than 1,200 sets for oxygen generation projects to fight with Covid-19 over 20 countries.

PROCESSING EQUIPMENT

With the advanced detection device and systemic method of detection we organize every procedure and quality checking, which affect the product quality will be strictly controlled. specific task, responsibilities, permissions, intercoordination and cross-promotion work together and form the whole quality management system.



BW CNC vertical and horizontal machining center (Germany)



Holroyd rotor profile grinder (UK)



Toshiba horizontal machining center (Japan)

PRODUCT CERTIFICATE



DETECTION EQUIPMENT



SERIES HIGH END NK SERIES SCREW COMPRESSOR

Hot sale! Oil Lube Rotary Screw Air Compressor

Description:

1. World-leading integrated screw air end
2. Good environmental adaptability
3. Extraordinary cooling system design
4. Economic running costs
5. ISO, TUV, GA, SGS, CE and MA certificates



INTEGRATED COMPONENTS ARE

- >> EVO oil injected air end with rolling profile
- >> Intake valve with control unit and air filter
- >> Oil reservoir and oil separation system with coalescing cartridge(e)
- >> Oil filter and oil thermostatic valve
- >> Minimum pressure and non-return valve
- >> Various options available such as safety valve, oil level sight glass, maintenance indicators



Model	Capacity m3/min*					Power (Kw)	Weight Kg	Noise dB (A) **	Dimension L×W×H(mm)
	7 bar	8 bar	10 bar	13 bar	15 bar				
AGFD-7.5	1.30	1.20	1.04	0.90	0.80	7.5	265	65±3	750×750×1000
AGFD-11	1.79	1.70	1.58	1.32	1.17	11	350	65±3	950×850×1300
AGFD-15	2.45	2.40	2.15	2.00	1.65	15	360	67±3	950×850×1300
AGFD-18.5	3.10	3.00	2.80	2.50	2.10	18.5	535	70±3	1200×850×1300
AGFD-22	3.69	3.60	3.20	2.75	2.45	22	550	70±3	1200×850×1300
AGFD-30	5.20	5.00	4.50	3.70	3.25	30	640	72±3	1200×850×1300
AGFD-37	6.50	6.40	5.80	4.80	4.30	37	810	72±3	1380×1000×1300

* Free air delivery for the complete package in accordance with ISO 1217, Appendix C, at 20°C ambient temperature and maximum pressure.

**Emitted sound level as per PN8NTC2.3.

Note:

1. Can be customized according to the user's requirements: air-cooled / water-cooled type, oil content, the special outline dimension design according to need to order and technical agreement shall prevail;
2. Frequency converters (optional);
3. 1 year warranty for compressor unit, 5 years warranty for air end.

ADVANTAGES OF ROTORCOMP -COMPACT UNITS



Made in Germany

Advantages for Manufacturers

- Reduced design costs increase of profitability
- High operation reliability
- Small space requirement with compact design
- Customised for OEM
- Pre-define total costs
- Lower assembly costs
- Simplified service and maintenance
- Simplified purchase of technical equipment
- Competitive design package
- Solid cast iron low operation noise
- Simplified and safe handling/application high technical standard
- Lower assembly costs
- Variable applications

AIRERA HIGH END EVO SERIES SCREW COMPRESSOR

The screw air end of compressor Made In Germany

Advantages of our new EVO technology

- > New ROLLING PROFILE– ultimate efficiency with reduced noise
- > Long life cycle due to increased bearing dimensions and wear-free ROLLING PROFILE
- > Wide operating pressure range from 5 to 15 barg
- > High quality manufacturing and assembling – “Made in Germany”
- > Quality assurance – bench test of every air end before leaving our factory
- > Easy application selection with our new ROTORCOMP-SIZING AIR software
- > Highest flexibility for your package design
 - Suitable for all types of drive driving motors
 - Drive options: Belt drive, direct drive, internal gear drive
 - Base and face-flange mounting



1.Special driving guard system to keep long-term working more safe



2.Pick up French White High-end Schneider contactor,more durable in extreme enviroment



3.Advanced oil &Air system to keep higher efficient

Model	Capacity(m3/min)*				Power(kw)		In/outlet	Noise dB(A)**	Dimension LxWxH in mm	Weight kg
	8bar	10bar	13bar	15bar	Motor	Motor(Fan)				
AGFD-5.5	0.87	0.75	0.61	0.53	5.5	0.09	G1	69	800x750x900	300
AGFD-7.5	1.2	1.04	0.9	0.8	7.5	0.09	G1	69	800x750x900	320
AGFD-11	1.79	1.58	1.32	1.17	11	0.18	G1	70	800x750x900	340
AGFD-15	2.4	2.15	1.84	1.65	15	0.18	G1	70	1080x750x1000	360
AGFD-18.5	3	2.8	2.50	2.1	18.5	0.37	G1	72	1310x850x1160	730
AGFD-22	3.6	3.2	2.75	2.45	22	0.37	G1	72	1310x850x1160	650
AGFD-30	5	4.5	3.7	3.25	30	0.75	G1-1/4	72	1500x1000x1320	1150
AGFD-37	6.4	5.8	4.8	4.3	37	0.75	G1-1/4	72	1500x1000x1320	1180
AGFD-45	7.6	7	5.8	5	45	1.1	G1-1/4	72	1500x1000x1320	1280
AGFD-55	10	9	7.8	6.5	55	1.1	G2	76	1750x1200x1500	1380
AGFD-75	13	11.5	9.8	8.8	75	1.1	G2	76	1750x1200x1500	1540
AGFD-90	16.5	14.3	12	11	90	2.2	G2	79	1750x1200x1500	1850
AGFD-110	20.5	17.5	14.5	13.5	110	2.2	G2	79	2150x1500x1760	2200
AGFD-132	23.5	21	18.5	16	132	2.2	G2	79	2150x1500x1760	2200
AGFD-160	28	25	22	20	160	4.0	G1-1/2	81	2350x1600x1760	2450
AGFD-200	36	33	25	22	200	5.5	DN100	83	2550x1600x1760	2680
AGFD-250	43	40	36	31	250	7.5	DN100	85	2550x1600x1760	3050

* Free air delivery for the complete package in accordance with ISO 1217, Appendix C, at 20°C ambient temperature and maximum pressure. **Emitted sound level as per PN8NTC2.3.

Note:

1. Can be customized according to the user's requirements: air-cooled / water-cooled type, oil content, the special outline dimension design according to need to order and technical agreement shall prevail;
2. Frequency converters (optional);
3. 1 year warranty for compressor unit, 5 years warranty for air end.

New rotorcomp sizing air software

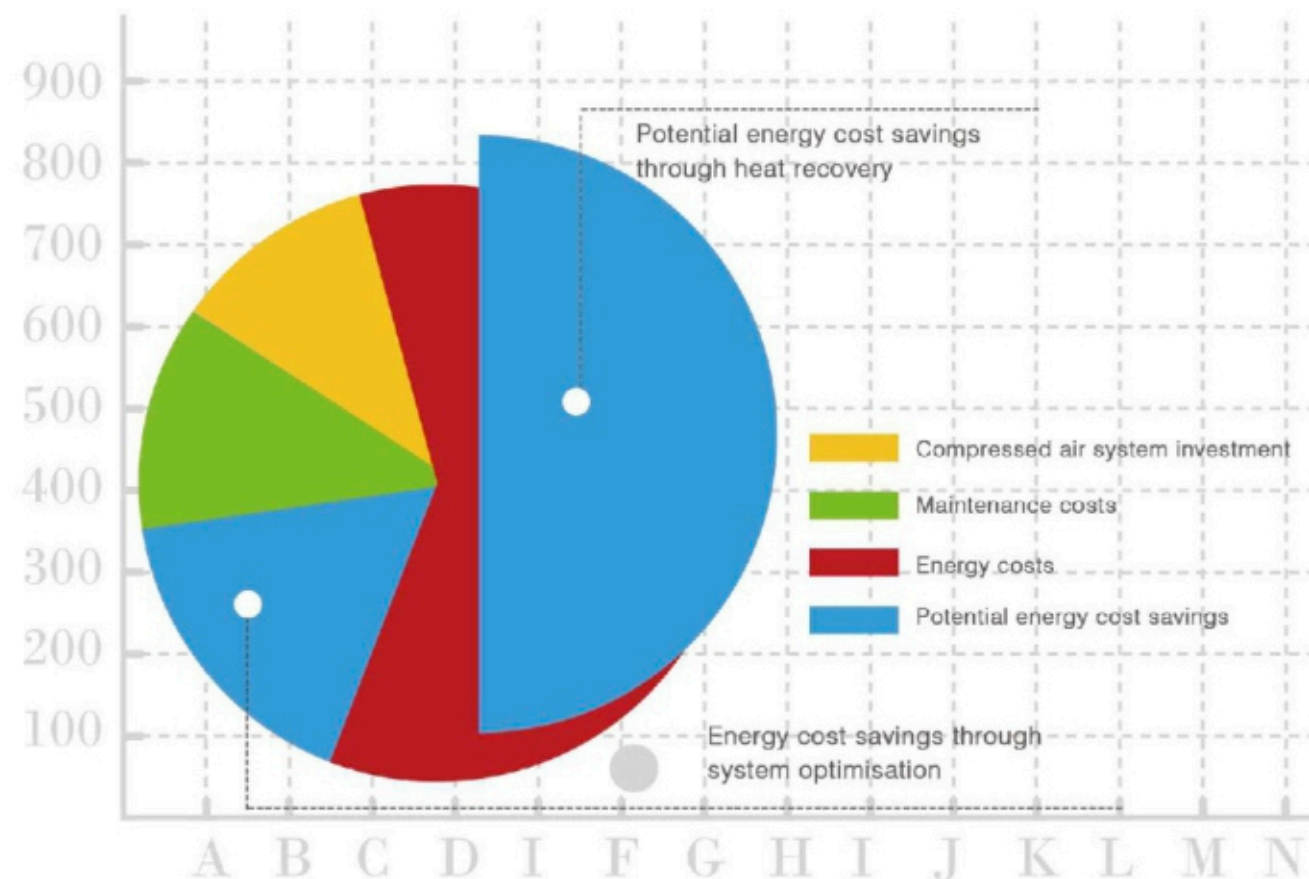
- > Recommends the most efficient EVO types
- > Calculates performance data
- > Indicates technical limits
- > Provides essential information for your drive
- > Determines important data for your cooling system



HAI AIRERA VSD COMPRESSOR

ADVANTAGES OF SHANGHAI AIRERA VSD COMPRESSOR

1. The air end made In Germany
2. Wider frequency change from 15-60Hz to keep more safe and lower cost after long-term working than most of suppliers in the world
3. Only choose best IP55 VSD main motor with 1.2 service factor and VSD fan motor for cooling system, reach higher energy-saving standard: CN.CE-1306-06/16
4. Patented driving guard system
5. Multi-touch controller to make it easier to control



PRINCIPLE OF VECTOR CONTROL VSD TECHNOLOGY:

The frequency control allows for a very large FAD regulation from 25% up to 100%. Adaptation to differing compressed air requirements is assured by infinite speed adjustment of the drive motor which is actuated by a frequency converter with simultaneous speed adjustment of the compressor air end. Due to the extensive range of frequency adjustments, it is possible, even in case of little air consumption, to adapt the air delivery to the actual demand in compressed air and to almost completely avoid switching and idle operation.

Note: We also can choose ABB, Schneider inverters according to the need.

Model	Air flow(m3/min)*				Power(kw)		In/outlet	Noise dB(A)**	Dimension LxWxH in mm	Weight kg
	8bar	10bar	13bar	15bar	Motor	Motor (Fan)				
AGFD-5.5 VP	0.22-0.87	0.19-0.75	0.16-0.61	0.14-0.53	5.5	0.09	G1	69	800x750x900	400
AGFD-7.5 VP	0.30-1.20	0.25-1.04	0.25-0.90	0.20-0.80	7.5	0.09	G1	69	800x750x900	420
AGFD-11 VP	0.45-1.79	0.40-1.58	0.33-1.32	0.30-1.17	11	0.18	G1	70	800x750x900	440
AGFD-15 VP	0.60-2.40	0.54-2.15	0.50-1.84	0.42-1.65	15	0.18	G1	70	1080x750x1000	460
AGFD-18.5 VP	0.75-3.00	0.73-2.80	0.63-2.50	0.53-2.10	18.5	0.37	G1	72	1310x850x1160	550
AGFD-22 VP	0.90-3.60	0.80-3.20	0.70-2.75	0.65-2.45	22	0.37	G1	72	1310x850x1160	570
AGFD-30 VP	1.25-5.00	1.15-4.50	0.95-3.70	0.85-3.25	30	0.75	G1-1/4	72	1500x1000x1320	880
AGFD-37 VP	1.60-6.40	1.45-5.80	1.20-4.80	1.10-4.30	37	0.75	G1-1/4	72	1500x1000x1320	880
AGFD-45 VP	1.90-7.60	1.75-7.00	1.45-5.80	1.25-5.00	45	1.1	G1-1/4	72	1500x1000x1320	880
AGFD-55 VP	2.50-10.0	2.25-9.00	2.00-7.80	1.65-6.50	55	1.1	G2	76	1750x1200x1500	1280
AGFD-75 VP	3.25-13.0	2.90-11.5	2.45-9.80	2.20-8.80	75	1.1	G2	76	1750x1200x1500	1440
AGFD-90 VP	4.20-16.5	4.80-14.3	3.00-12.0	2.75-11.0	90	2.2	G2	79	1750x1200x1500	2000
AGFD-110 VP	5.20-20.5	4.50-17.5	3.70-14.5	3.50-13.5	110	2.2	G2-1/2	79	2150x1500x1760	2200
AGFD-132 VP	5.90-23.5	5.30-21.0	4.75-18.5	4.00-16.0	132	2.2	G2-1/2	79	2150x1500x1760	2200
AGFD-160 VP	7.0-28.0	6.5-25.0	5.5-22.0	5.0-20.0	160	4.0	G2-1/2	81	2350x1600x1760	2450
AGFD-200 VP	9.0-36.0	8.5-33.0	6.5-25.0	5.5-22.0	200	5.5	DN100	83	2550x1600x1760	2680
AGFD-250 VP	11.0-43.0	10.0-40.0	9.0-36.0	7.6-31.0	250	7.5	DN100	85	2550x1600x1760	3050

* Free air delivery for the complete package in accordance with ISO 1217, Appendix C, at 20°C ambient temperature and maximum pressure. **Emitted sound level as per PN8NTC2.3.



AGCD SERIES DIRECT DRIVEN SCREW COMPRESSOR

Very Competitive Pricing

Low Capital Cost + Low Operating Cost + Exceptional Reliability & Efficiency =
Economical Cost



DESCRIPTION:

1

1. Drives and electrics

The almost loss-free power transmission guarantees reliable, high-performance compressor operation. The regular maintenance requirement is reduced to lubrication of the motor. All the electronic components are brand products of leading manufacturers.

2

2. Air end block – reliable centrepiece – Design in Germany

The centrepiece of the compressor is the air end, which is constructed and manufactured with the most modern production methods in Germany. The optimal air end for your compressor can be used on a modulating basis. In frequency-controlled units, where the operating pressure changes, adjustments can also be made on the frequency controller to optimally adjust the speed of the compressor to the compressor performance.

3

3. Electric motor

Only electric motors from well-known manufacturers of protection class IP54/IP23 are used. As a standard, the drive motors are monitored both thermally (via the thermistor of the motor) as well as electronically

4

4. Oil separation system

Compressors up to 132 kW are equipped with external separators that can be changed in a simple spin-off/spin-on process. Larger units have an internal separator cartridge. Due to the excellent separation efficiency of the system as a whole, the compressors can be used in the pressure range of 5.0 to 15.0 bar. Special pressures on request.

5

5. Oil circuit

The amount of oil in the units is determined in such a way as to extend the oil change intervals (depending on ambient conditions). An oil level sensor is integrated as standard and is read by the controller. All the units in this series have a horizontal oil separation vessel in which the oil is separated from the compressed air highly efficiently at low speeds.

SCREW ROTOR PROFILE DESIGN FEATURES:

First, the curved face of the rotors engaged fully, thus contributing to the formation of a hydrodynamic lubrication film, reducing the contact zone of the lateral leakage, improve compressor efficiency; as well as to improve the processing, test performance of the rotor.

Second, using the design ideas of bigger rotor, bigger bearing, low-speed, speed lower than other brands up to 30 ~ 50%, this could reduce noise and vibration, reducing the compressed air temperature and improve the rigidity of rotor and prolong its life, reduce sensitivity to the impurity and the oil carbide.

Third, fully meet or exceed the national standard GB19153-2003 "air compressors energy efficiency limit !



ADVANCED DESIGNS FOR EXCELLENT PERFORMANCE

Multi-touch control, unmanned operation, intelligent operation;
Main and key parts all introduce imported brands to ensure that control system is reliable;
With AD/DB, continuous three operation modes to minimize the operating costs;
Phase sequence protection, motor overload protection function;
Automatic start/stop function;
Air flow automatic adjustment function;
Overpressure, overtemperature automatic alarm and shutdown protection function;
Oil-air separator, filters high pressure drop alarm protection function;
Can realize local, remote and multiple compressors joint control.

1. Air end-made in Germany

Ultimate efficiency and reduced noise of advantages of our new EVO® technology of air end made in Germany

2. Cooling system

Optimized air-cooled system, higher-efficient fan motor and oversized cooler german designed with excellent energy-saving performance, durable in high-temp working environment

3. Air Filter

It has 99.99 % filtration efficiency and fully complies with ISO 5011 standards.

4. Oil Separation System

The air purity meets ISO standard 8573-1:1991, Class 3 Oil Residues.

5. Intelligent control System

Simply control with all the parameters show on the screen, high precisely curable button and remote control optional. Coloful multi-touch screen as option.

6. Higher efficient energy-saving motor

IP55 IE-3 motor in CE & MEPS standard high temperature F class, Optimized fan and fan cover designs ensure the optimum cooling and quieter operation. Over sized cast iron conduit boxes make connections easy. Safe and reliable operation in high-temp working environment.

7. New switch cabinet

No fuse for control line: Stable and reliable protection for exposed terminals: safety
High quality transformer: CE; Stable and reliable
High quality terminals: CE; Stable and reliable

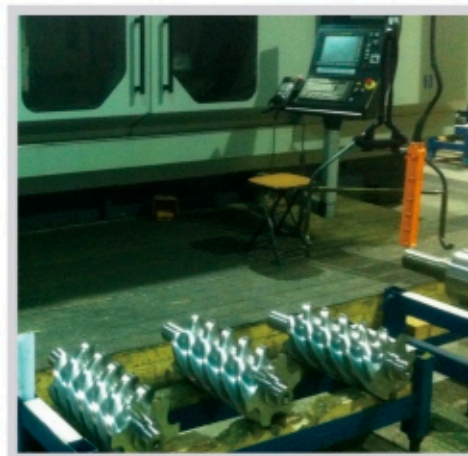
8. Unique driving guard system

The special design to keep the driving system more safe and longer lifereliable

9. Intake valve

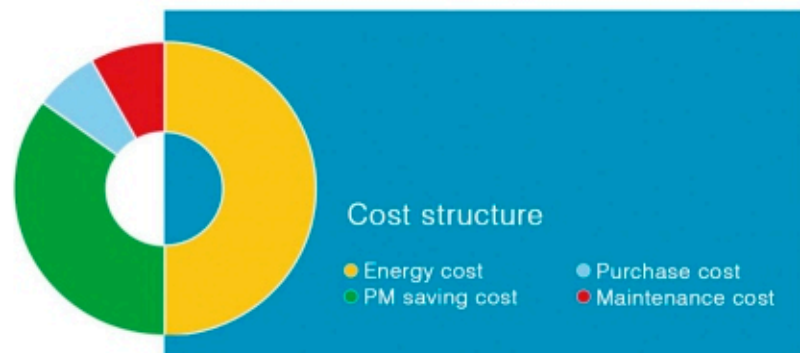
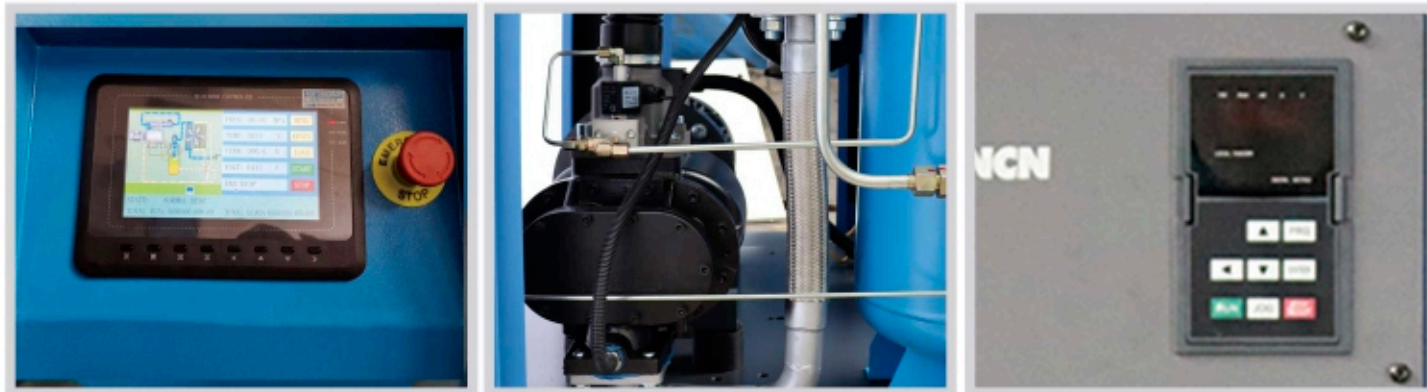
Advacned disgn to adjust volume 0-100% smoothly, less air pressure lost or oil leaking.
Utilize a normally closed inlet valve, which provide very smooth Y-Δ starting. It's advanced design also results in the very low inlet pressure drop, thus more air flow and higher compressor efficiency.





ADVANTAGES OF SHANGHAI AIRERA PM VSD COMPRESSOR

1. Adopted Rotor is made by Germany Processing Equipment; Adopting World Famous Brand SKF Bearing
2. Permanent Magnetic Motor Cooling Structure Patent Design,
Application no: ZL 201320216379.0 Class F Insulation, Grade B Temperature rising.
3. Only choose best IP55 PM main motor with 1.2 service factor and PM fan motor for cooling(option) system, reach higher energy-saving standard: CN.CE-1306-06/16
4. Directly drive
5. Multi-touch controller to make it easier to control



1. High-efficiency PM motor saves energy about 6- 7%, Compared with three phase asynchronous motor.
2. Latest air end, one -shaft structure make it more compact, stable and high-efficiency.
3. Due to itelligent inverter technology, PM variable frequency air compressor saves energy up to 30%.
4. Has several patented technologies.
5. Industrial house-keeper with remote control system.fluctuation of the system, themore obvious the energy saving effect.



Control system

PRINCIPLE OF PERMANENT MAGNET VSD TECHNOLOGY:

The frequency control allows for a very large FAD regulation from 25% up to 100%[30(50)-150(200)Hz]. Adaptation to differing compressed air requirements is assured by infinite speed adjustment of the drive motor which is actuated by a frequency converter with simultaneous speed adjustment of the compressor air end.

Due to the extensive range of frequency adjustments, it is possible, even in case of little air consumption, to adapt the air delivery to the actual demand in compressed air and to almost completely avoid switching

Model	Air flow(m3/min)*				Power(kw)		In/outlet	Noise dB(A)**	Dimension L×W×H in mm	Weight kg
	8bar	10bar	13bar	15bar	Motor	Motor (Fan)				
AGCD-5.5 VP	0.22-0.87	0.19-0.75	0.16-0.61	0.15-0.50	5.5	0.09	G3/4	69	900×700×940	185
AGCD-7.5 VP	0.30-1.15	0.25-1.00	0.25-0.75	0.20-0.60	7.5	0.09	G3/4	69	900×700×940	215
AGCD-11 VP	0.45-1.65	0.40-1.50	0.33-1.15	0.30-0.90	11	0.18	G1	70	1060×700×1200	395
AGCD-15 VP	0.60-2.30	0.54-2.05	0.50-1.65	0.42-1.10	15	0.18	G1	70	1060×700×1200	415
AGCD-18.5 VP	0.75-3.00	0.73-2.60	0.63-2.00	0.53-1.80	18.5	0.37	G1	72	1200×850×1200	430
AGCD-22 VP	0.90-3.50	0.80-3.20	0.70-2.40	0.65-1.95	22	0.37	G1	72	1200×850×1200	495
AGCD-30 VP	1.25-5.00	1.15-4.50	0.95-3.60	0.85-3.00	30	0.75	G1-1/2	72	1400×1000×1300	740
AGCD-37 VP	1.65-6.60	1.45-5.80	1.20-4.80	1.10-3.60	37	0.75	G1-1/2	72	1400×1000×1300	805
AGCD-45 VP	1.90-7.60	1.75-7.00	1.45-5.80	1.25-4.70	45	1.1	G1-1/2	72	1400×1000×1300	845
AGCD-55 VP	2.50-10.0	2.25-9.00	2.00-7.80	1.65-5.80	55	1.1	G2	76	1850×1300×1450	1260
AGCD-75 VP	3.25-13.0	2.90-11.5	2.45-9.80	2.20-7.60	75	1.1	G2	76	1850×1300×1450	1460
AGCD-90 VP	4.00-15.3	3.80-14.0	3.00-12.0	2.75-9.50	90	2.2	G2	79	2100×1300×1500	1650
AGCD-110 VP	5.20-20.5	4.50-17.5	3.70-14.5	3.50-12.0	110	2.2	G2-1/2	79	2540×1640×1800	1850
AGCD-132 VP	5.90-23.5	5.30-21.0	4.75-17.5	4.00-14.5	132	2.2	G2-1/2	79	2540×1640×1800	2350
AGCD-160 VP	7.10-28.0	7.10-26.0	6.05-22.0	6.05-18.3	160	3.8	G2-1/2	80	2540×1640×1800	2490
AGCD-185 VP	9.2-30.6	8.0-29.3	7.5-29.3	6.5-21.4	185	5.5	DN80	80	2350×1500×1760	3300
AGCD-200 VP	9.05-36.0	9.05-33.0	7.15-25.0	7.15-21.0	200	7.6	DN80	80	3150×1800×2100	3390
AGCD-250 VP	11.3-45.0	11.3-40.0	9.25-32.0	8.5-28.0	250	7.6	DN80	81	3150×1800×2100	3690
AGCD-280 VP	13.5-49.2	13.5-45.0	11.5-41.3	9.5-32.0	280	11	DN100	81	3450×2000×2200	5790
AGCD-315 VP	15.5-56.5	15.5-50.5	12.5-45.0	12.0-36.0	315	11	DN100	83	3450×2000×2200	6890

