

Sincerity • Innovation • Excellence



Shanghai facility: SHANGHAI HANBELL PRECISE MACHINERY CO.,LTD
NO 8289 ,tingfeng road ,fengjing town, jinshan area in shanghai
TEL: 021-57350280 FAX:021-51368588
<http://www.hanbell.com.cn>

Taiwan facility: HANBELL PRECISE MACHINERY CO.,LTD
Taoyuan facility: No.51 three Rd,guanyin industry park,guanyin town,
taoyuan county,taiwan
TEL: 886-3-4836215 FAX:886-3-4836223
<http://www.hanbell.com>
Taizhong facility: No.10 jingke road,Chunsheli,Nantun District,Taizhong city,Taiwan
TEL: 886-4-23501886 FAX: 886-4-23501885
<http://www.hanbell.com>

Vietnam facility: HERMES VIET NAM MACHINERY COMPANY
Add : BLOCK 28-30-32, 11 STREET, TAN DUC INDUSTRIAL PARK,
HUU THANH COMMUNE,
DUC HOA DISTRICT , LONG AN PROVINCE, VIET NAM.
Tel: 0272-3769688 Fax: 0272-3769690

Europe facility: COMER S.R.L.(Europe Hanbell Company)
Office: Via T. Grossi 1, Piano 6, 21047 Saronno(VA), Italy
Factory:Via IV Novembre 3, 21040 Uboldo(VA), Italy
Tel: +39-02-962-80188 Fax: +39-02-962-48011
<http://www.hanbell.com>



AA6/AE6 Series
AA6-AM Screw Air Compressor



SHANGHAI HANBELL PRECISE MACHINERY CO.,LTD

ABOUT US



Shanghai Hanbell Precise Machinery Co., Ltd. has specialized to manufacture screw compressor for the industrial market as well as for the air conditioning and refrigeration applications. It has also continuously developed centrifugal refrigeration compressor.

With a deep understanding of its customer, the engineers of Shanghai Hanbell Precise Machinery Co., Ltd. can make innovative design and products without stopping. Fully experienced service staffs provide satisfactory service to the customers all over the world. These are fully recognized by customers and considered as the world highest performance product and quality supplier.

Through all from its history and product quality, Shanghai Hanbell Precise Machinery Co., Ltd. has accomplished a worldwide good reputation from customers and end-users and has become no. 1 brand power in air compressor market in China.

Hanbell is equipped with the fully automated storage system, AGV and measuring stands to ensure high efficiency and high quality for the customers. Hanbell is opening new page of air compressor history and making contributions to customers.

▼ Taiwan Taoyuan Facility



▼ Taiwan Taichung Facility



▼ Vietnam Facility



▼ Italy Facility



AE6 series



AA6 series

New Ideological Style

"slender styling" , "Overall enclosure" , " easy maintenance " , " simple installation" reduces sound levels and save the space in job-site, to prevail any advanced air compressors' characteristic existing in the world.

Advanced Patented Profile

The 3rd Generation of Alpha Symmetric 5 to 6 patented rotors profile are designed to operate at low tip speed with high volumetric efficiency, discharge pressure up to 1.6MPa and generate low vibration.

Multi-protection Interlock

Micro computer controller equipped with pressure and temperature sensors provide diagnostics for additional protection of internal components, which enables to offer many alarm messages and many errors for protection.

Quality Certification

Hanbell utilizes 3D measuring devices to strictly maintain high quality standards. Every Hanbell Compressor is well proven and fully tested prior to delivery.

High Rigidity Chassis

Rigid design structure allows for less vibration and low noise during compressor operation. Common base frame is designed for easy handling through forklift.

Intelligent control system

Intelligent monitoring provides the best service and the easiest maintenance. Master/Slave Interlock control is optional by customers' request. ACMS remote monitoring system and modbus function are also available. If you have any requirements, please contact Hanbell for detailed information.



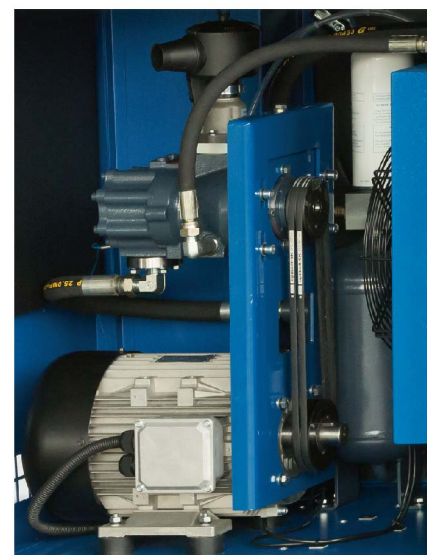
High-efficiency and energy-saving design

Use of imported volume control valve together with suction control system can control volume flow efficiently and adjust power consumption of air compressor.



Belt tension design

Belt tension can be adjusted in free space. This design can save time spent in shutdown and labor during traditional replacement of belt.



Excellent cooling system

Use of fin-shaped structure and combination of oil cooler and after-cooler result in compact size, higher efficiency in heat exchange, rustproof. The special design in fan's angle also leads to higher efficiency and lower noise; its better performance in heat dissipation effectively low running and discharge temperature on compressor air.



Bigger sized and effective cooler

Hanbell compressor uses aluminium vacuum brazed coolers of sufficiently large size and multiple fins helps in effective heat dissipation. A further advantage of having bigger sized cooler is that it can operate with lower sized cooling fans.



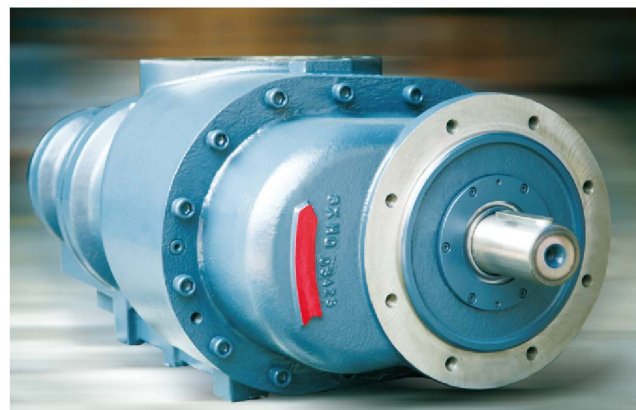
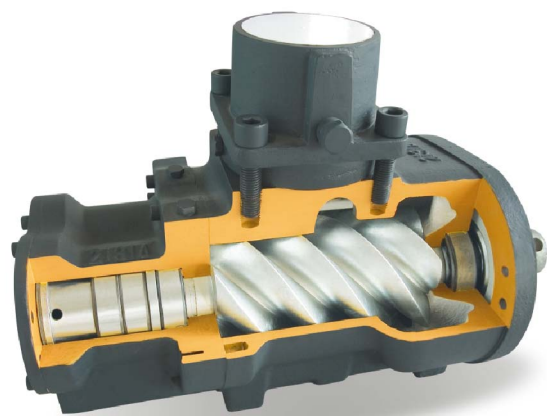
Stainless steel tube design

Stainless steel tube has been widely used in piping design of Hanbell air compressor and effectively protects piping from rust. Its piping layout results in neat appearance and ease of maintenance.



Heavy-duty Air Ends

Low Cost and High Performance



Advanced Patented Rotor Profile

1. Up-to-date 5 6 Asymmetrical Rotor Profile
2. Low Tip Speed and Higher Volumetric Efficiency

Heavy-duty Design

1. Max. Working Pressure 40MPa
2. Low-lip-speed Design

Excellent Air Ends

Optimized 5 6 asymmetrical rotor profile for the best match and high efficiency
Heavy-duty Design: Max. working pressure 1.6 MPa
Advanced material technology
Use of Imported SKF Bearings, longer Bearing Life
Solid/ Durable/ High performance equivalent to other Foreign well-known brands

International Certifications



European PED Certification



Machinery Safety



ISO9001 Certification



Explosion Proof Certification



ISO9001 Certification



"Symbol of Excellence" Taiwan



Lloyd's Register Marine Certificate



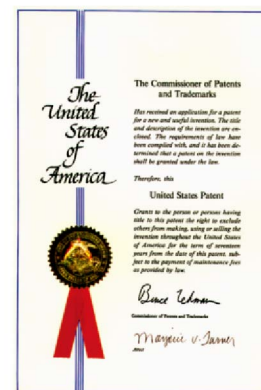
CE Certificate



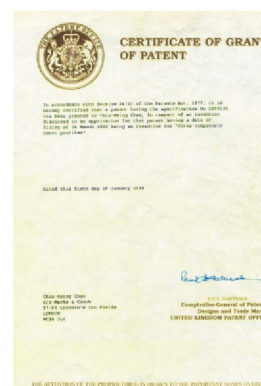
UL Approval

Technological Capability Index

Multinational Patents:



USA Screw Rotor Patent



UK Screw Rotor Patent



China Screw Rotor Patent

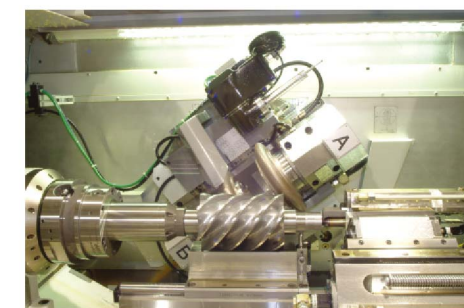
Main Facilities:



3-D Coordinate Measuring Machine in Shanghai Factory



CNC 3-D Coordinate Measuring Machine



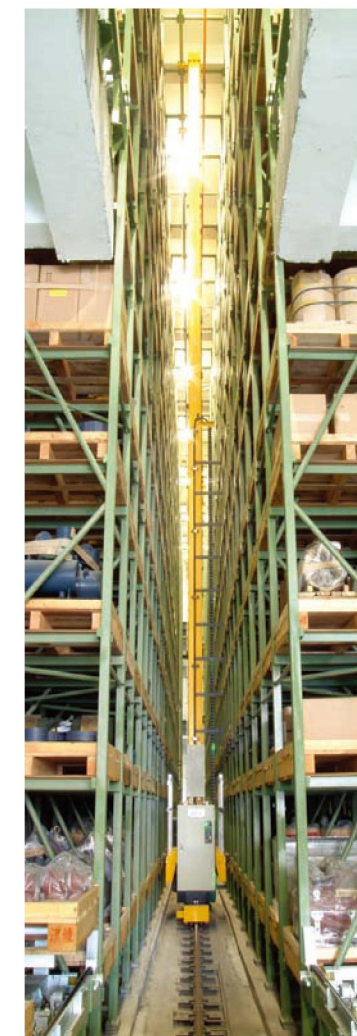
CNC Screw Rotor Grinding Machine



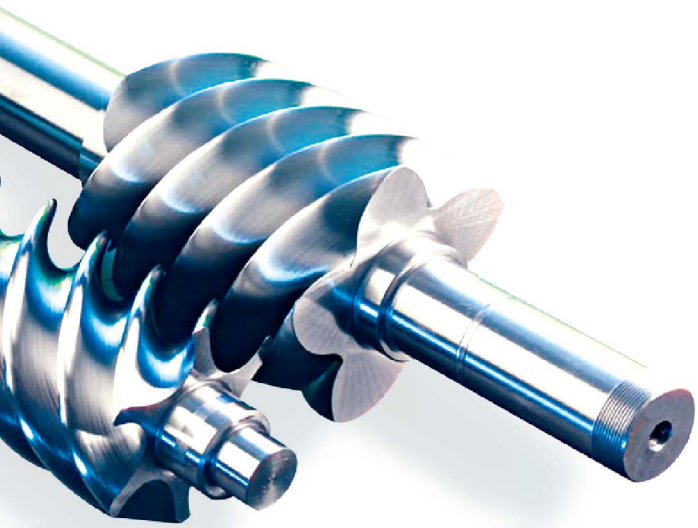
Streamlined Screw Rotor Assembly



AGV+AS/RS



Automated Storage and Retrieval System



Quality environment safety policy

- Quality first
- Customer satisfaction, Safe & efficient
- Energy saving & Environment protection, Eco- environment
- Law-abiding, Continuous improvement

Our pride:

Stock code :002158;
ISO 9001 quality qualified enterprise ;
ISO 14001 environment qualified enterprise;
OHSAS 18001 health and safe qualified enterprise;
CRAA products qualified enterprise;

Our reputation:

High tech. foreign invested enterprise;
High tech.enterprise;
National main enterprise;
Patent pilot enterprise;
Taiwan famous brand product;
Taiwan famous trademark;

Certificate:

Screw rotoed profiles patented in china,USA,
UK,TAIWAN,and so on;
USA UL certified; Swiss LR vessels certified
Taiwan précsed certified; International standard;
Explosion-protection qualified certified;
Other patents ;

Specification-AE6 series belts driving

Model	Motor power (kW)	Exhaust pressure (bar)	Volume flow (m³/min)	Export size (inch)	Unit net weight (kg)	Dimensions (L*W*H) mm
AE6-08A	7.5	8	1.1	Rp3/4	290	800*660*920
		10	1.0			
		13	0.7			
AE6-11A	11	8	1.7	Rp3/4	310	870*660*980
		10	1.5			
		13	1.2			
AE6-15A	15	8	2.4	Rp1 1/4	350	1050*700*1030
		10	2.1			
		13	1.7			
AE6-18A	18.5	8	2.9	Rp1 1/4	430	1050*750*1100
		10	2.6			
		13	2.1			
AE6-22A	22	8	3.6	Rp1 1/4	600	1150*750*1300
		10	3.2			
		13	2.3			
AE6-30A	30	8	5.0	Rp1-1/2	700	1150*850*1300
		10	4.3			
		13	3.5			
AE6-37A	37	8	5.9	Rp1-1/2	780	1100*1100*1400
		10	5.1			
		13	4.1			

Note: All the above models can also be offered with Variable Speed Drive (VSD)

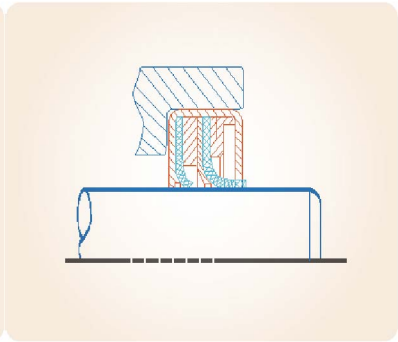
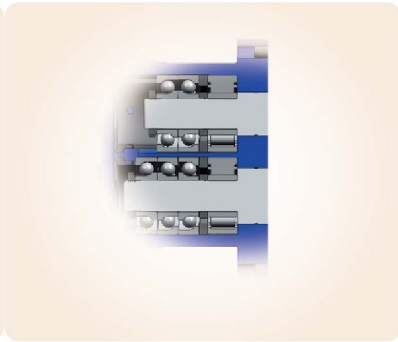
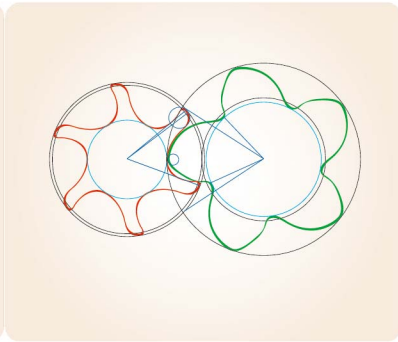
- The technical data is based on ISO1217&ISO2151, suction temperature 20°C; relative humidity 60%; suction pressure 0.1MPa with testing tolerance ±5%.
- In addition to the above-mentioned models, please contact us for other options.
- Standard power source 50Hz/60Hz 380V/440V 3 phase. Please contact us for other power source.
- Hanbell reserves the right to change the design without notice.

▼ High efficiency compresso airends

▼ Multi-countries patented profiles

▼ Design for bushing with high loading

▼ Design for special shaft-sealing for leak proof





AA6 series

Specification—AA6 Series direct driving

Model	Motor power (kW)	Exhaust pressure (bar)	Volume flow (m³/min)	Export size (inch)	Unit net weight (kg)	Dimensions (L*W*H) mm
AA6-22A	22	8	3.7	Rc1-1/4	620	1350*830*1200
		10	3.0			
		13	2.9			
AA6-30A	30	8	4.7	Rp1-1/2	810	1450*950*1300
		10	3.7			
		13	3.6			
AA6-37A	37	8	6.8	Rp1-1/2	860	1450*950*1300
		10	4.7			
		13	4.6			
AA6-45A	45	8	8.0	DN50	1420	1900*1500*1600
		10	6.5			
		13	5.5			
AA6-55A	55	8	9.8	DN50	1450	1900*1500*1600
		10	7.7			
		13	6.5			
AA6-75A	75	8	13.1	DN50	2040	2500*1600*1700
		10	9.5			
		13	9.0			
AA6-90A	90	8	16.8	DN65	2050	2500*1600*1700
		10	12.6			
		13	11.6			
AA6-110A	110	8	20.0	DN80	3370	2980*1850*2020
		10	15.1			
		13	12.1			
AA6-132A	132	8	23.2	DN80	3350	2980*1850*2020
		10	19.0			
		13	15.4			
AA6-160A	160	8	28.2	DN100	3990	3280*1880*2120
		10	22.3			
		13	19.1			
AA6-185A	185	8	32.3	DN100	4200	3280*1880*2120
		10	26.5			
		13	21.8			
AA6-200A	200	8	35.6	DN100	4780	3450*2000*2150
		10	31.3			
		13	24.5			
AA6-220A	220	8	38.4	DN100	6000	3450*2000*2150
		10	33.5			
		13	28.2			
AA6-250A	250	8	42.6	DN125	6310	4000*2150*2250
		10	38.0			
		13	33.3			
AA6-280A	280	8	47.0	DN125	7000	4000*2150*2250
		10	42.6			
		13	37.8			
AA6-315A	315	8	52.3	DN125	7300	4000*2150*2250
		10	46.3			
		13	42.4			
AA6-355A	355	8	65.0	DN125	8000	4500*2150*2250
		10	51.7			
		13	46.1			

Note: All the above models can also be offered with Variable Speed Drive (VSD)

- The technical data is based on ISO1217&ISO2151, suction temperature 20°C; relative humidity 60%; suction pressure 0.1MPa with testing tolerance ±5%
- In addition to the above-mentioned models, please contact us for other options.
- Standard power source 50Hz/60Hz 380V/440V 3 phase. Please contact us for other power source.
- Water cooled model is available for models above 45kW.
- Hanbell reserves the right to change the design without notice.

Major Specifications:

Power Output: 7.5-355KW
Free Air Delivery: 1.1-65.0 m³/min (0.8Mpa)
Working Pressure: 0.8-1.6Mpa

Air cooler

It's designed as a split structure. Better cooling effect.Cooling air is from sides and hot air is expelled from top.
Compressors have no redundant opening so it is less noise.

Intelligent Control System

Color screen display, simple touch screen operation, multi-language optional, support joint control and timing start and stop function, realize the real unattended.

Centrifugal fan

Cooling air intake by large open impeller, large cooling air volume, smooth and uniform wind pressure, greatly improve the cooling effect. Low speed efficient motor greatly reduce operating noise.



AM series

Major Specifications:

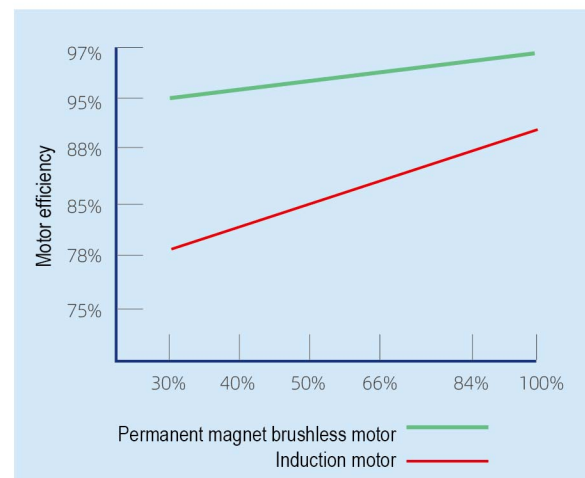
Power Output: 8-160KW

Free Air Delivery: 3.5-64.0 m³/min

Working Pressure: 0.8-1.6Mpa

Industry leading for high efficiency

Hanbell AM series can keep the efficiency up 96% on any load. Can save more than 38% energy compared with normal motor, can save more than 15% energy compared with Induction Frequency conversion motor. Compared with normal Induction Frequency conversion motor, the iron loss, armature ohmic loss can reduce 30%, so the efficiency will be higher.



Permanent magnet motor

The output torque and the input current of the permanent magnet motor is linear relationship, which is fit for the constant torque load machine application scenarios.(Please note: the air compressor is typical constant torque load machine);

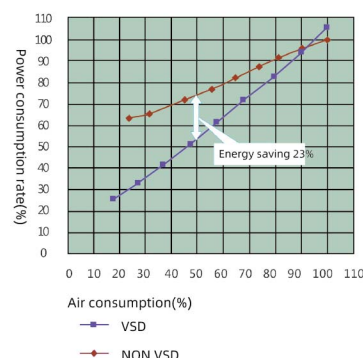
Low rotation running can easy conquer static frictional force, suit for continuous low loading working condition.

Specification-AA6-AM series

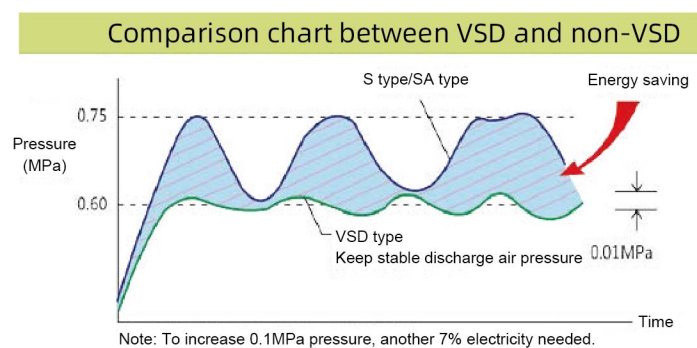
Model	Motor power (kW)	Exhaust pressure (bar)	Volume flow (m ³ /min)	Export size (inch)	Unit net weight (kg)	Dimensions (L*W*H) mm
AA6-08A-AM	7.5	8	0.4~1.1	Rp3/4	320	1100*700*1020
		10	0.4~1.0			
		13	0.3~0.8			
AA6-11A-AM	11	8	0.6~1.6	Rp3/4	340	1100*700*1020
		10	0.6~1.4			
		13	0.5~1.2			
AA6-15A-AM	15	8	1.0~2.4	Rc1-1/4	470	1350*830*1200
		10	0.8~2.1			
		13	0.8~2.0			
AA6-18A-AM	18.5	8	1.2~3.0	Rc1-1/4	540	1350*830*1200
		10	0.9~2.4			
		13	0.7~1.8			
AA6-22A-AM	22	8	1.5~3.7	Rc1-1/4	550	1350*830*1200
		10	1.2~3.0			
		13	1.2~2.9			
AA6-30A-AM	30	8	1.9~4.7	Rp1-1/2	740	1450*950*1300
		10	1.5~3.7			
		13	1.4~3.6			
AA6-37A-AM	37	8	2.7~6.8	Rp1-1/2	740	1450*950*1300
		10	1.9~4.7			
		13	1.8~4.6			
AA6-45A-AM	45	8	3.2~8.0	DN50	1320	1900*1500*1600
		10	2.6~6.5			
		13	2.1~5.5			
AA6-55A-AM	55	8	3.9~9.8	DN50	1350	1900*1500*1600
		10	3.1~7.7			
		13	2.6~6.5			
AA6-75A-AM	75	8	5.2~13.1	DN50	1780	2500*1600*1700
		10	3.8~9.5			
		13	3.6~9.0			
AA6-90A-AM	90	8	6.7~16.8	DN65	1940	2500*1600*1700
		10	5.0~12.6			
		13	4.6~11.6			
AA6-110A-AM	110	8	8.0~20.0	DN80	3000	2980*1850*2020
		10	6.0~15.1			
		13	4.8~12.1			
AA6-132A-AM	132	8	9.3~23.2	DN80	3170	2980*1850*2020
		10	7.6~19.0			
		13	6.2~15.4			
AA6-160A-AM	160	8	11.3~28.2	DN100	3580	3280*1880*2120
		10	8.9~22.3			
		13	7.6~19.1			
AA6-185A-AM	185	8	12.9~32.3	DN100	3900	3280*1880*2120
		10	10.6~26.5			
		13	8.7~21.8			
AA6-200A-AM	200	8	14.2~35.6	DN100	4580	3450*2000*2150
		10	12.5~31.3			
		13	9.8~24.5			
AA6-220A-AM	220	8	15.4~38.4	DN100	5800	3450*2000*2150
		10	13.4~33.5			
		13	11.3~28.2			
AA6-250A-AM	250	8	17.1~42.6	DN125	6100	4000*2150*2250
		10	15.2~38.0			
		13	13.3~33.3			
AA6-280A-AM	280	8	18.8~47.0	DN125	6900	4000*2150*2250
		10	17.1~42.6			
		13	15.1~37.8			
AA6-315A-AM	315	8	20.9~52.3	DN125	7200	4000*2150*2250
		10	18.5~46.3			
		13	17.0~42.4			
AA6-355A-AM	355	8	26.0~65.0	DN125	7900	4500*2150*2250
		10	20.7~51.7			
		13	18.4~46.1			

Note: All the above models can also be offered with Variable Speed Drive (VSD)

- The technical data is based on ISO1217&ISO2151, suction temperature 20°C; relative humidity 60%; suction pressure 0.1MPa with testing tolerance ±5%
- In addition to the above-mentioned models, please contact us for other options.
- Standard power source 50Hz/60Hz 380V/440V 3 phase. Please contact us for other power source.
- Water cooled model is available for models above 45kW.
- Hanbell reserves the right to change the design without notice.



Graph as shown upside: in comparison between inverter and non- inverter, assumed FAD demand as 50%, energy can be saved by 23%, but it can be bigger than 23% in lower FAD demand or big fluctuation in FAD demand.



Suitable customers for using VSD inverter Compressor

1. Customers who having big fluctuation in air consumption
 2. Customers who consider using multiple air compressors.
- One VSD air compressor make whole compressor system efficiency high, electricity cost saving.

Built-in Inverter

- Module type adopted, easy maintenance and extension
- High speed telecommunication port, MODBUS/BACnet/CANopen Cards support. And multiple telecommunication methods support.
- Design to increase lifetime and inspect major parts lifetime.
- PCB(Printed Circuit Board) painting method adopted to increase environmental tolerance.
- High performance cooler installed to enhance stable operation even in 50 °C ambient temperature, automatically adjust output rating to maintain high performance of inverter along ambient temperature increase.



If you choose the AM series, the energy saving profit you can get

2 sets of 30HP air compressor, 24 hours running, peak air deliver keep 40HP-55HP.

Check the air deliver to calculate the total air deliver. Use accumulative ammeter to record the power consumption in one day.

Use power frequency air compressor

When the air flow change, the air compressor keep loading and unloading, loss a lot of electric energy:

One day total air flow 6983 m³, one day total power consumption 985.4Kwh, unit air flow electric consumption (KWH/m³): 985.4KWh/6983m³=0.1410 KWh/m³

Power consumption in one year: 0.141KWh/m³ *8724m³*350days=430529KWh/year

Electric fee in one year: 430529KWh/year * 1 RMB=430529 RMB/year

Use Permanent magnet brushless frequency conversion air compressor:

Frequency control capacity is big, can control 30%-100% range of the air delivery, which can make the air flow and pressure match the factory need.

One day total air flow 8724 m³, one day total power consumption 781.4Kwh, unit air flow electric consumption (KWH/m³): 781.4KWh/8724m³=0.0890 KWh/m³

Power consumption in one year: 0.089KWh/m³ *8724m³*350days=271752KWh/year

Electric fee in one year: 271752KWh/year * 1 RMB=271752 RMB/year

Use the air compressor-AM can save the electric fee:

430529 RMB/year - 271752 RMB/ year = 158777.00 RMB/year

The map illustrates the global distribution of three major world religions, color-coded as follows:

- Christianity (Blue):** Predominant in North America (USA, Canada), Europe, Russia, and Australia.
- Islam (Green):** Predominant in the Middle East, North Africa, and parts of Central Asia.
- Hinduism (Yellow):** Predominant in South Asia (India, Pakistan, Bangladesh).

Other regions shown include South America (primarily Christianity), East Asia (primarily Christianity), and Southeast Asia (primarily Christianity, with some Islam in Indonesia and Malaysia).

Major countries and regions labeled include: ALASKA (USA), CANADA, GREENLAND (DENMARK), ICELAND, UNITED STATES, MEXICO, CUBA, EL SALVADOR, PANAMA, COLOMBIA, VENEZUELA, GUYANA, SURINAM, FRENCH GUIANA, EQUADOR, PERU, BRAZIL, BOLIVIA, ARGENTINA, CHILE, SOUTH AFRICA, MADAGASCAR, AUSTRALIA, NEW ZEALAND, RUSSIA, MOSKOW, KAZAKHSTAN, MONGOLIA, CHINA, NORTH KOREA, SOUTH KOREA, JAPAN, PHILIPPINES, MALAYSIA, SINGAPORE, INDONESIA, PAKISTAN, BANGLADESH, MYANMAR (BURMA), LAOS, THAILAND, VIETNAM, CAMBODIA, INDIA, SAUDI ARABIA, EGYPT, LIBYA, ALGERIA, MOROCCO, MAURITANIA, MALI, NIGER, CHAD, SUDAN, ETHIOPIA, SOMALIA, KENYA, UGANDA, RWANDA, BURUNDI, TANZANIA, ANGOLA, NAMIBIA, BOTSWANA, ZAMBIA, ZIMBABWE, MOZAMBIQUE, GABON, CONGO, CAMEROON, NIGERIA, GUINEA, COTE D'IVOIRE, GHANA, SENEGAL, GUINEA-BISSAU, SIERRA LEONE, LEBANON, SYRIA, JORDAN, IRAQ, TURKEY, GREECE, ITALY, ROMANIA, BULGARIA, MOLDOVA, UKRAINE, POLAND, GERMANY, FRANCE, SPAIN, PORTUGAL, IRELAND, UNITED KINGDOM, NORWAY, SWEDEN, FINLAND, ESTONIA, LATVIA, LITHUANIA, BELARUS, GEORGIA, ARMENIA, AZERBAIJAN, TURKMENISTAN, TAJIKISTAN, KIRGIZYAN, UZBEKISTAN, AFGHANISTAN, OMAN, YEMEN, ERITREA, and MALAWI.

on the domestic market in China, take advantage of rich resources in Asia to improve competitive edge of the products in the overseas market and make great efforts to win customers' satisfaction with quality products and the best service as the worldwide leading brand.

- 16