

Features

1. Hanbell Air-End with high efficiency design, patented rotor profiles and heavy duty bearing extend the life cycle of compressors.
2. Permanent magnet variable frequency motor is adopted which has the characteristics of high efficiency, large starting torque, reasonable structure and so on.
3. Brand inverter PID constant voltage control technology, variable frequency speed regulation, energy-saving technology.
4. Controller with multi-functional touch color screen, which supports multi language (English, Chinese...), standard modbus communication protocol.
5. Oil-air tank with high reliability 3000 hour operating to ensure that the oil content in the compressed air is less 3PPM.
6. Elegant appearance, small footprint and high versatility of the parts and platform



PRODUCTS CATALOGUE



MODEL		ALH-08A-AM	ALH-11A-AM	ALH-15A-AM	ALH-22A-AM	ALH-37A-AM	
COMPRESSOR	Air Flow (m ³ /min)	0.8 MPa	0.44-1.1	0.72-1.8	0.88-2.2	1.44-3.6	2.52-6.3
	Discharge Temperature (°C)	Ambient Temperature+15 °C					
	Air Outlet Size (inch)	1/2"	3/4"	3/4"	1"	1 1/2"	
	Driven Mode	Direct					
	Lubricant Volume (L)	4	9	10	13	20	
	Capacity Control	Frequency Conversion					
	Max Allowable Ambient Temp (°C)	45°C					
MOTOR	Motor Power (kW)	8	11	15	22	37	
	Voltage (V)	220, 380					
	Starting Mode	Inverter Start (PM Motor)					
COOLER	Cooling Mode	Air-Cooled					
	Fan Power (kW)	0.15	0.28	0.28	0.52	0.75	
	Air Volume (m ³ /h)	2600	5700	5700	8100	1200	
DIMENSION	Net Weight (kg)	170	247	254	344	515	
	Length (mm)	900	1080	1080	1200	1300	
	Width (mm)	670	750	750	850	1000	
	Height (mm)	880	1050	1050	1240	1430	

AA6/AA6-AM ALH-AM

Series
Screw Air Compressor



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Specification-AA6 Series direct driving

Features

Minimum Pressure Valve
Use aluminum material, with an outstanding anticorrosive properties. With fully functional blocks (one way). Set starting pressure stable, ensuring priority to provide enough pressure to push in the circulatory system, and the lubricant oil for Air End.

Stainless Steel Pipes
Use the form piston structure which will close immediately when the compressor stops, preventing the lubricant oil sprayed out, ensuring the boot when compressor unload, minimizing power loss.

Suction Valve
Design the whole pipe using stainless steel materials, strong structure, durable, very credible, very effective in anticorrosion inside the pipe.

Structural Transmission Off Motor & Air End
Use Designs to connect directly 1:1 the Air End and motor use links in the form of low center of gravity, reduce noise and vibration, increases stability during the operation.



High Temperature Cooling System

Use form of separator design, avoiding the situation the initial heat exchanger and the after heat exchanger mutual communication, to prolong service life. Especially, compressor can operate normally when the ambient temperature reaches 45 °C. And at the same time to avoid only one division damaged but the entire system must be replaced, reducing repair costs.

Smart Micro Controller

Simple operation, can be set in English/Chinese (Traditional/Simplified). It is possible to set control and intelligent management of time using air filter, oil filter, oil separators, lubricant oil. And also including features chain controller and remote control to meet customers choice

High-efficiency Motors

Use saving-energy and high-efficiency motors, fitted with imported bearings, IP54 protection class, F rate insulation. Consistent with State's newest standards GB18613 / 2013's, performance can be raised to an average of about 4%.

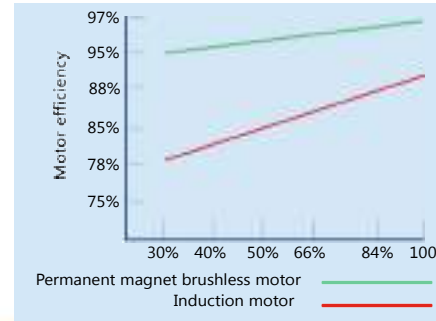
Coupling Transmission

Linkage of motor and Air End automatically aligns using coupling imported with elasticity, eliminates vibration (shaking), separate vibration between motor and air end, ensuring operational efficiency.

Specification-AA6-AM Series

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.



MODEL		AA6-22A	AA6-37A	AA6-45A	AA6-55A	AA6-75A	AA6-90A	AA6-110A	AA6-132A	AA6-160A	AA6-185A	AA6-200A	AA6-250A	AA6-315A
Air Flow (m³/min)	0.8 MPa	3.7	6.8	8.0	9.8	13.1	16.8	20.0	23.2	28.2	32.3	35.6	42.6	52.3
	1.0 MPa	3.0	5.5	6.5	7.7	9.5	12.6	15.1	19.0	22.3	26.5	31.3	38.0	46.3
	1.3 MPa	2.9	5.1	5.5	6.5	9.0	11.6	12.1	15.4	19.1	21.8	24.5	33.3	42.4
Discharge Temperature (°C)	Ambient Temperature+15 °C													
Air Outlet Size (inch)	1 1/4"	1 1/4"	1 1/2"	DN50	DN50	DN65	DN80	DN80	DN100	DN100	DN100	DN100	DN125	DN125
Transmission Mode	Coupling Transmission													
Lubricant Volume (L)	16	22.5	22.5	60	65	70	80	85	135	150	160	160	160	160
Capacity Control	0-100% Stepless Control													
Max Allowable Ambient Temp (°C)	45°C													
Rated Output (kW)	22	37	45	55	75	90	110	132	160	185	200	250	250	315
Terminal Box Position	On The Top													
Voltage (V)/Frequency(Hz)	380V/50Hz/60Hz													
Type	TEFC													
Starting	Y-Δ													
Cooling Mode	Air-Cooled													
Fan Power (kW)	0.37	0.75	1.50	1.50	0.37*2	0.75*2	0.75*2	1.5*2	2.2*2	2.2*2	2.65*2	2.65*2	2.65*2	2.88*2
Air Flow (m³/min)	75	125	183	194	320	470	500	366	633	732	933	933	933	1333
Safety Protection	Relief Valve, High Discharge Temperature & Pressure Protection, Over Current Protection, Phase Loss/Phase Reverse/Phase Sequence Monitoring													
Maintenance Indication	Air Filter, Oil Filter, Oil Separator, Lubricant, Motor Greasing													
Micro Controller	Digital Temperature/Pressure Display Control, Auto Running Stop Control, Time Running/Stop Control, Master/Slave Interlock Control (Optional), Scalable Central Monitor (Optional)													
Net Weight (Kg)	620	900	1200	1450	2040	2050	3370	3450	3390	4200	4780	6310	7300	7300
Length (mm)	1350	1450	1550	1900	2500	2500	2980	2980	3280	3280	3450	4000	4000	4000
Width (mm)	830	950	1150	1500	1500	1600	1850	1850	1880	1880	2000	2150	2150	2150
Height (mm)	1200	1300	1400	1600	1700	1700	2020	2020	2120	2120	2150	2250	2250	2250

MODEL		AA6-22A-AM	AA6-37A-AM	AA6-45A-AM	AA6-55A-AM	AA6-75A-AM	AA6-90A-AM	AA6-110A-AM	AA6-132A-AM	AA6-160A-AM
Air Flow (m³/min)	0.8 MPa	1.1-3.7	2.0-6.8	2.4-8.0	2.9-9.8	3.9-13.1	5.0-16.8	6.0-20.0	7.0-23.2	8.5-28.2
	1.0 MPa	1.0-3.0	1.9-5.5	2.1-6.5	2.7-7.7	3.5-9.5	4.4-12.6	5.3-15.1	6.2-19.0	7.6-22.3
	1.3 MPa	0.8-2.9	1.5-5.1	1.7-5.5	2.3-8.5	2.9-9.0	3.5-11.6	4.4-12.1	5.1-15.4	6.2-19.1
Discharge Temperature (°C)	Ambient Temperature+15 °C									
Air Outlet Size (inch)	1 1/4"	1 1/4"	1 1/2"	DN50	DN50	DN65	DN80	DN80	DN80	DN100
Transmission Mode	Coupling Transmission									
Lubricant Volume (L)	16	22.5	22.5	60	65	70	80	85	85	135
Capacity Control	Frequency Conversion									
Max Allowable Ambient Temp (°C)	45°C									
Rated Output (kW)	22	37	45	55	75	90	110	132	132	160
Terminal Box Position	On The Top									
Voltage (V)/Frequency (Hz)	380V/50Hz/60Hz									
Type	TEFC									
Starting	Inverter Start									
Cooling Mode	Air-Cooled									
Fan Power (kW)	0.37	0.75	1.50	1.50	0.37*2	0.75*2	0.75*2	1.5*2	1.5*2	2.2*2
Air Flow (m³/min)	75	125	183	194	320	470	500	366	633	732
Safety Protection	Relief Valve, High Discharge Temperature & Pressure Protection, Over Current Protection, Phase Loss/Phase Reverse/Phase Sequence Monitoring									
Maintenance Indication	Air filter, oil filter, oil line separator, oil, change, motor greasing									
Micro Controller	Digital Temperature/Pressure Display Control, Auto Running Stop Control, Time Running/Stop Control, Master/Slave Interlock Control (Optional), Scalable Central Monitor (Optional)									
Net Weight (Kg)	550	970	1280	1600	2420	2120	3200	3520	3520	3460
Length (mm)	1350	1450	1550	1900	2500	2500	2980	2980	2980	3280
Width (mm)	830	950	1150	1500	1600	1600	1850	1850	1850	1880
Height (mm)	1200	1300	1400	1600	1700	1700	2020	2020	2020	2120

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 0.1 MPa with testing tolerance ±5%. 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.