

# Безмасляные винтовые воздушные нагнетатели Серия АНГ



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# OIL-FREE SCREW AIR BLOWER

- ① High Reliability, 24 hours running
- ② Screw type reduces energy cost by an average of 30%
- ③ Permanent Magnet synchronous Frequency technology offers extra energy saving
- ④ PLC control, remote operation, Multi-machine control supplied



## ENERGY-SAVING

The AirKing AHG range reduce energy cost at least 25% at 0.5bar, energy saving will reach more than 60% when pressure high to 0.8bar-1.5bar.

## LATEST TECHNOLOGY

AirKing guarantees exceptional reliability, Latest technology, High Quality controlled. Which supply best after sold service. AirKing screw Blowers Suitable for harsh environment with high temperature, dust and high humidity.



## PMSM MOTOR

High efficiency Permanent magnet synchronous motor, Large starting torque, Specially designed According to blower performance, Improve efficiency, Reduce specific power, The motor can run for a long time at 55 °C, IP54 Protection.



## SILENCING SYSTEM

Silencer with low noise screw air end, Drive components are constructed with vibration insulation, reducing the intake and exhaust sound, which make the machine running at very low noise.



### AIR FILTER

Intake air filtration can reach 15um, Pressure loss does not exceed 500Pa, Clean intake air, Low pressure drop, high efficiency, Intake sound design, soundproof cover, make the whole machine silence.



### CONTROL SYSTEM

Touch 7 inch display, easy operation, 24-hour warning notice, remote operation support. Intelligent dynamic display, Failure analysis recovery, Multi-machine joint control, Multi-point temperature detection and control protection, Load factor automatic adjusting etc.



### FREQUENCY CONVERTER

High quality frequency converter, Soft start, Frequency, Change power factor and Over current, over pressure, over load protection etc.



### SYSTEMATIZATION

Design combination with excellent performance parts, reducing operating failures, Achieve higher exhaust pressure, More flow output, Energy consumption ratio is first in the blower industry.

Both Screw Blower and Roots Blower is Positive displacement fan, If the two are to be compared, Can be simply boiled down to the difference in compression principle, Screw Blower is more energy saving, stability, low noise.

When Roots Blower In the process of running and conveying air, No change in volume between the rotors, The pressure comes from forcing a large amount of air into a relatively small external cavity. for example: In a pipe or a air tank, The density of air in outside continues to increase, and pressure produce. Commonly referred to as "external compression" . Roots Blower is simple structure , Forced air supply (air supply is not affected by exhaust pressure), No pressure on itself. Screw Blower working principle is different from Roots Blower, The air is sucked in and discharge. When air is sucked in, there is large space between rotors, With the rotation of the rotor, the space gradually become smaller, when the air exhaust, the space become very small.

That is compressing  $2\text{m}^3$  of air into  $1\text{m}^3$  of air during rotating, the pressure goes up. The high pressure not come from outside pipe, its come from the air end space change. This is Internal compression.



型号/Model	压力/Pressure (Bar)	排气量/Air Flow (m <sup>3</sup> /h)	电机功率/Motor Power (KW)	电机转速/Motor Speed (rpm)	排气口尺寸 Air Outlet Size	外形尺寸/Size (L*W*H)mm	重量/Weight (KG)
AHG-30A-4	0.4	1312	22/30	2600	DN150	2700*1300*2000	1850
AHG-30A-6	0.6	974	22/30	2000	DN150	2700*1300*2000	1850
AHG-30A-8	0.8	964	22/30	2000	DN150	2700*1300*2000	1850
AHG-30A-10	1.0	814	22/30	1750	DN150	2700*1300*2000	1850
AHG-30A-12	1.2	667	22/30	1500	DN150	2700*1300*2000	1850
AHG-30A-15	1.5	522	22/30	1250	DN150	2700*1300*2000	1850
AHG-40A-4	0.4	1537	30/40	3000	DN150	2700*1300*2000	1850
AHG-40A-6	0.6	1305	30/40	2600	DN150	2700*1300*2000	1850
AHG-40A-8	0.8	1292	30/40	2600	DN150	2700*1300*2000	1900
AHG-40A-10	1.0	949	30/40	2000	DN150	2700*1300*2000	1900
AHG-40A-12	1.2	805	30/40	1750	DN150	2700*1300*2000	1900
AHG-40A-15	1.5	658	30/40	1500	DN150	2700*1300*2000	1900
AHG-50A-4	0.4	2177	37/50	2000	DN250	2950*1700*2300	2900
AHG-50A-6	0.6	1723	37/50	1600	DN250	2950*1700*2300	2900
AHG-50A-8	0.8	1521	37/50	3000	DN150	2700*1300*2000	1950
AHG-50A-10	1.0	1272	37/50	2600	DN150	2700*1300*2000	1950
AHG-50A-12	1.2	939	37/50	2000	DN150	2700*1300*2000	1950
AHG-50A-15	1.5	920	37/50	2000	DN150	2700*1300*2000	1950
AHG-60A-4	0.4	2608	45/60	2300	DN250	2950*1700*2300	2900
AHG-60A-6	0.6	2173	45/60	2000	DN250	2950*1700*2300	2900
AHG-60A-8	0.8	1698	45/60	1600	DN250	2950*1700*2300	2900
AHG-60A-10	1.0	1498	45/60	3000	DN150	2700*1300*2000	2000
AHG-60A-12	1.2	1259	45/60	2600	DN150	2700*1300*2000	2000
AHG-60A-15	1.5	1233	45/60	2600	DN150	2700*1300*2000	2000
AHG-75A-4	0.4	3524	55/75	3000	DN250	2950*1700*2300	2950
AHG-75A-6	0.6	3018	55/75	2600	DN250	2950*1700*2300	2950
AHG-75A-8	0.8	2151	55/75	2000	DN250	2950*1700*2300	2950
AHG-75A-10	1.0	2130	55/75	2000	DN250	2950*1700*2300	2950
AHG-75A-12	1.2	1482	55/75	3000	DN150	2700*1300*2000	2950
AHG-75A-15	1.5	1452	55/75	3000	DN150	2950*1700*2300	2950
AHG-100A-4	0.4	4710	75/100	2600	DN300	2950*1700*2300	3350
AHG-100A-6	0.6	3517	75/100	3000	DN250	2950*1700*2300	3000
AHG-100A-8	0.8	2988	75/100	2600	DN250	2950*1700*2300	3000
AHG-100A-10	1.0	2958	75/100	2600	DN250	2950*1700*2300	3000
AHG-100A-12	1.2	2108	75/100	2000	DN250	2950*1700*2300	3000
AHG-100A-15	1.5	1887	75/100	1750	DN250	2950*1700*2300	3000
AHG-120A-4	0.4	5489	90/120	3000	DN300	2950*1700*2300	3380
AHG-120A-6	0.6	3995	90/120	2300	DN300	2950*1700*2300	3380
AHG-120A-8	0.8	3482	90/120	3000	DN250	2950*1700*2300	3100
AHG-120A-10	1.0	3108	90/120	2800	DN250	2950*1700*2300	3100
AHG-120A-12	1.2	2928	90/120	2600	DN250	2950*1700*2300	3100
AHG-120A-15	1.5	2082	90/120	2000	DN250	2950*1700*2300	3100
AHG-150A-4	0.4	6098	110/150	3300	DN300	2950*1700*2300	3450
AHG-150A-6	0.6	5398	110/150	3000	DN300	2950*1700*2300	3450
AHG-150A-8	0.8	3974	110/150	2300	DN300	2950*1700*2300	3450
AHG-150A-10	1.0	3292	110/150	2000	DN300	2950*1700*2300	3450
AHG-150A-12	1.2	3412	110/150	3000	DN250	2950*1700*2300	3150
AHG-150A-15	1.5	2892	110/150	2600	DN250	2950*1700*2300	3150
AHG-175A-4	0.4	5997	132/175	3300	DN300	2950*1700*2300	3550
AHG-175A-6	0.6	5797	132/175	3200	DN300	2950*1700*2300	3550
AHG-175A-8	0.8	5307	132/175	3000	DN300	2950*1700*2300	3500
AHG-175A-10	1.0	4572	132/175	2600	DN300	2950*1700*2300	3550
AHG-175A-12	1.2	3907	132/175	2300	DN300	2950*1700*2300	3550
AHG-175A-15	1.5	3370	132/175	3000	DN250	2950*1700*2300	3250
AHG-220A-8	0.8	5966	160/220	3300	DN300	2950*1700*2300	3600
AHG-220A-10	1.0	5328	160/220	3000	DN300	2950*1700*2300	3600
AHG-220A-12	1.2	4530	160/220	2600	DN300	2950*1700*2300	3600
AHG-220A-15	1.5	3876	160/220	2300	DN300	2950*1700*2300	3600
AHG-250A-10	1.0	5920	185/250	3300	DN300	2950*1700*2300	3700
AHG-250A-12	1.2	5279	185/250	3000	DN300	2950*1700*2300	3700
AHG-250A-15	1.5	4494	185/250	2600	DN300	2950*1700*2300	3700

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