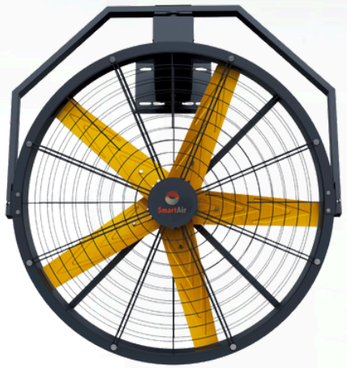
SMARTAIR PERMANENT MAGNET VARIABLE FREQUENCY WALL FAN

APPLICABLE APPLICATIONS

The wall fan is customized to solve the complex environment that is not suitable for the installation of industrial large ceiling fans, and can be used for some factors such as ceiling structure, load bearing, crane, etc. Places where the installation space of industrial large ceiling fan is not ideal. It is a new type of fan for space ventilation and personnel cooling in industrial plant, logistics warehouse, waiting room, exhibition hall, gymnasium, large shopping mall and other large space places.



Industrial Plants

ogistics and Storage

Gym

Waiting Room

Cafeteria

Exhibition Halls

Sports facilities

Large Shopping Malls

PERMANENT MAGNET VARIABLE FREQUENCY WALL FAN

SmartAir
Balance Your Climate

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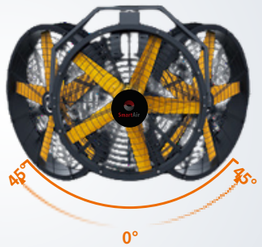
SMARTAIR PERMANENT MAGNET VARIABLE FREQUENCY WALL FAN

FLEXIBLESUSPENSION SYSTEM

The fan can be installed in various scenarios such as steel structure columns/concrete walls. The structural components of the whole machine are seamlessly welded with high-strength hot-rolled plates, treated with ceramic technology, and then subjected to high-voltage electrostatic spraying. It has the characteristics of corrosion resistance, vibration resistance, and fall prevention, and can be used worry- free for many years.

LEFTANDRIGHTSHAKING FUNCTION

The fan is equipped with an independent automatic switch shaking function, which can swing left and right at a wide angle of 45 degrees to project the airflow to the maximum usage area.



Energy efficient

IP55 protection standard

Convenient installation

Maintenance-free

Low usage cost

Super quite

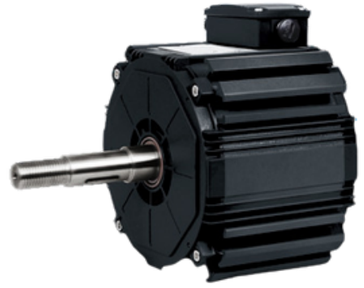
SmartAir permanent magnet variable frequency wall fan is a new type of industrial fan specially designed for factories and workshops with limited ventilation space. Adopt self-designed frequency conversion speed regulation, high efficiency and energy saving permanent magnet synchronous motor. It has the advantages of low noise, small volume, light weight and beautiful appearance. Fans adopt a unique airfoil blade design with a diameter of 0.9-2m. It adopts the principle of aerodynamics and advanced technology to produce a natural breeze system through the circulating airflow field formed by the powerful air stirring force. The human body will feel the three-dimensional wind from all directions, increase the evaporation area of sweat and improve the comfort. At the same time, avoid using the traditional high-speed fan to cause various health problems of human body under directional wind all the year round, and greatly improve the environmental comfort. HDB series wall fan can be adjusted according to the actual demand of different occasions, the wind speed is 1m-6. Adjustable within 7m/s. In the open space, the maximum air supply distance of an energy-saving fan is up to 24m.

SMARTCONTROL SYSTEM

Support mobile phone intelligent control(Optional)

• Control system: Adopting IP54 protection level, it is not afraid of external oil pollution, dust, and moisture interference. VVC control technology is easy to debug and highly adaptable.
• The system is a position free positive rotation wave vector control, which is resistant to electromagnetic interference, radiation, small in size, light in weight, and has a beautiful appearance.
• The system functions are simple and easy to understand, with sensitive and clear button operations.
• The system comes with overvoltage, undervoltage, and undervoltage regulation, as well as protection against current, phase loss, overload, collision, overheating, lightning strikes, and abnormalities.
• Customizable intelligent control methods: WLAN, Bluetooth, 4G, Time, PID, Temperature control and centralized control.

PERMANENTMAGNET SYNCHRONOUS MOTOR



- **No copper loss of rotor**
- **High efficiency**
- **High power factor**
- **Improve grid environment**
- **FM width(0~100HZ)**
- **Small size and light weight**
- **Energy efficient (Power saving)**

FAN BLADES

Adopting aluminum-magnesium alloy extrusion molding, with high strength, good toughness, light weight, long life.

TECHNICAL DATA

Model	Voltage (V)	frequency (Hz)	Current (A)	Power (kW)	Rotating Speed (r/min)	Air speed (m/s)	Air flow (m3/h)	Noise (dB)	Air Supply distance (m)
HDB-200	220/380	50/60	3.6/1.8	1.0	300	6	70000	≤45	≤24
HDB-150	220/380	50/60	2.8/1.6	0.75	420	6.1	40000	≤45	≤24
HDB-120	**220/380**	**50/60**	**2.6/1.3**	**0.75**	**600**	**6.3**	**26000**	**≤45**	**≤20**
HDB-90	220/380	50/60	2.3/1.2	0.55	870	6.8	16000	≤45	≤20
HDB-60	220/380	50/60	2.6/1.3	0.55	1050	6.8	10200	≤45	≤15