

Industrial Centrifugal Air Curtain



OPTIMIZED AIR CURTAIN SOLUTIONS

- Improved Comfort
- Energy Savings
- Reliable Protection

Heavy-Duty Airflow Protection for Industrial Doorways

Models: HFM-4509-L-GA, HFM-4510-L-GA, HFM-4512-L-GA, HFM-4515-L-GA, HFM-4518-L-GA, HFM-4520-L-GA



The Industrial Centrifugal Air Curtain creates a powerful and continuous air barrier that effectively separates indoor and outdoor environments. Designed for heavy-duty applications, it helps minimize energy loss, block dust, insects, exhaust gases, and odors, while maintaining a comfortable and clean indoor space.



380V / 50Hz Three-Phase Power

Industrial-grade three-phase power for stable and efficient operation.



High Air Speed up to 25 m/s

High-velocity airflow forms a strong air barrier to control air exchange.



Large Airflow up to 9400 m³/h

Powerful airflow capacity ensures effective coverage for wide industrial doors.



Centrifugal Design for Industrial Doors

Centrifugal turbo fan delivers strong, stable airflow for demanding environments.



Stable Continuous Operation

Engineered for long-term, continuous operation with reliable performance.



This catalog presents our Industrial Centrifugal Air Curtain solutions, engineered for reliable performance, energy efficiency, and comfort in industrial environments.

Core Technology & Selection Guide

1. Three-Phase Asynchronous Motor

The HUANGXI industrial series uses a three-phase asynchronous motor with 380V, 50Hz rated voltage.

Built for continuous industrial operation, it delivers stable performance, high starting torque, and long service life under demanding environments.

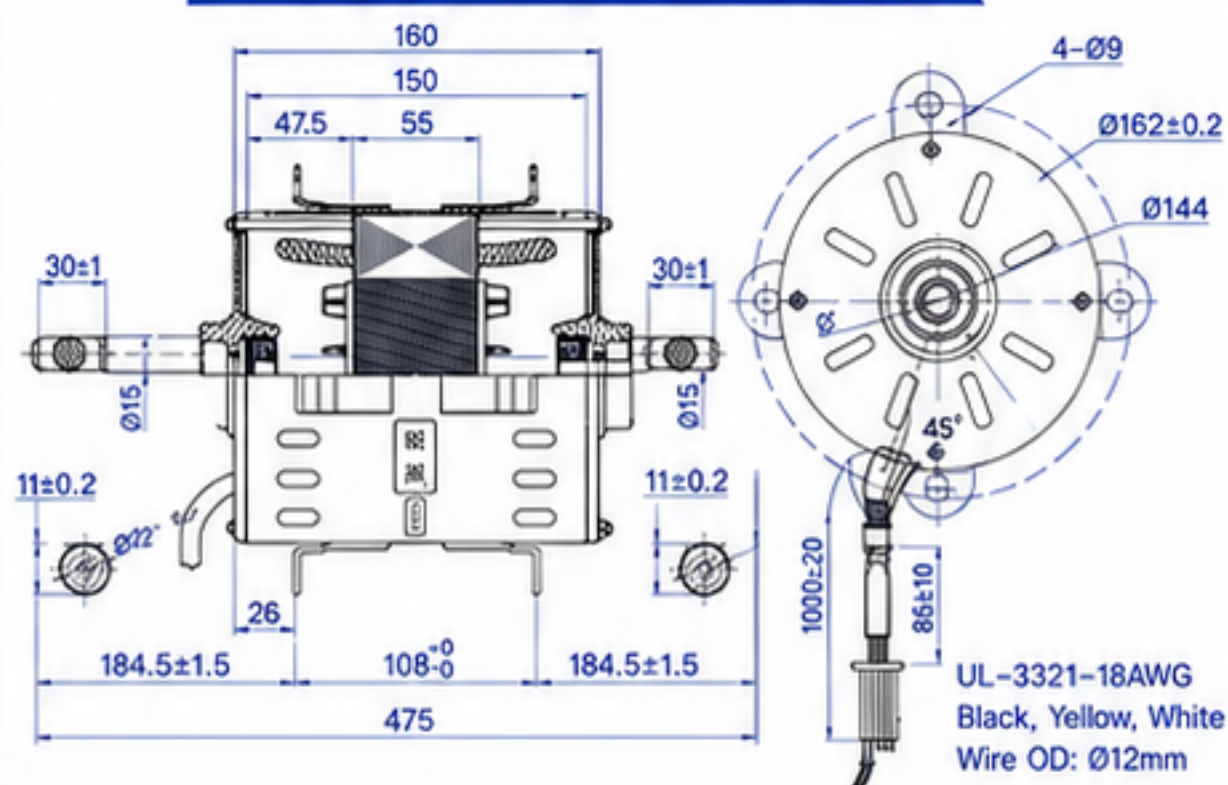


BUILT FOR CONTINUOUS OPERATION

- 380V / 50Hz Power Supply
- High Starting Torque
- Stable Under Load
- Long Service Life

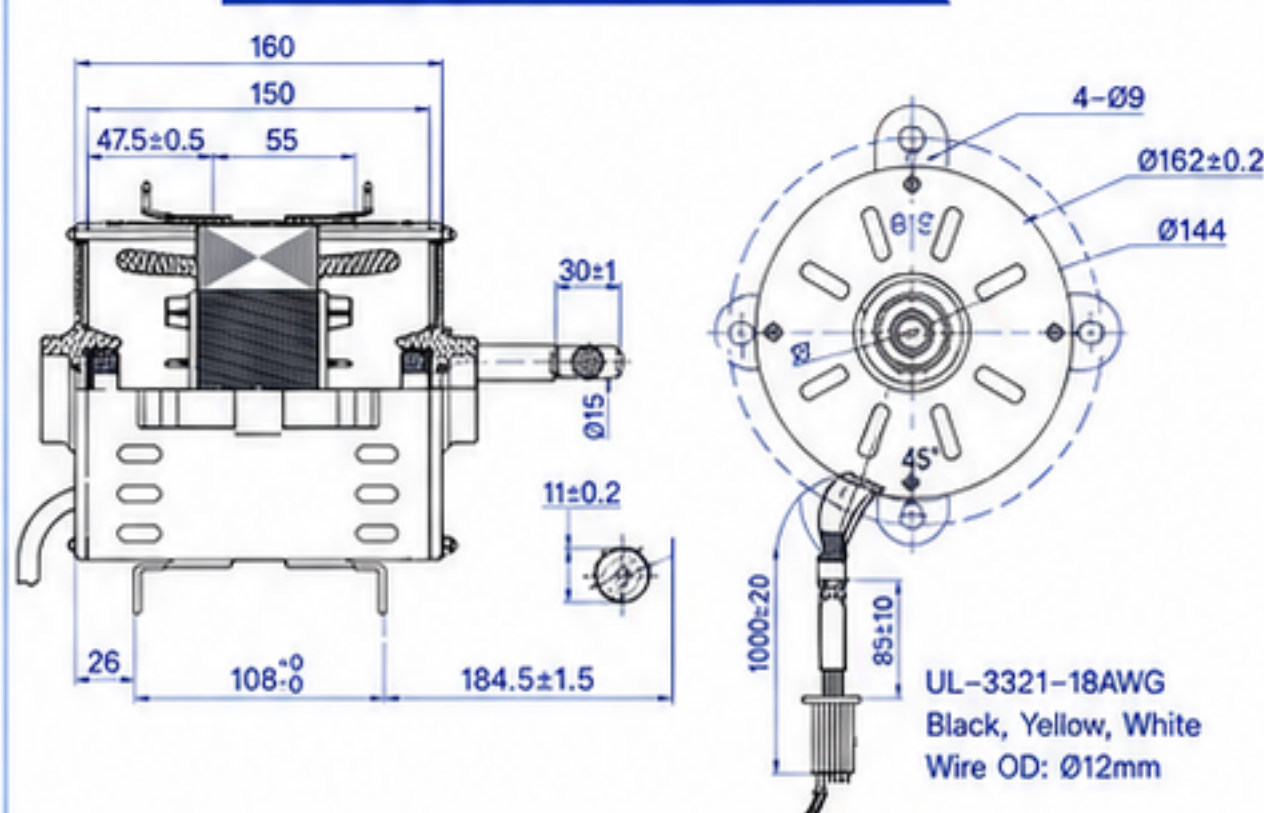
2. Two Motor Configurations

500W Double-Shaft Motor



Suitable for wider door openings or applications requiring higher air volume. The double-shaft design helps drive airflow more evenly across the full unit length.

240W Single-Shaft Motor



Suitable for smaller door openings or modular combination configurations.

3. Performance Highlights



Maximum air speed: **25 m/s**



No-load noise below **50 dB**



Effective motor vibration speed not exceeding **2.8 mm/s**



Motor shaft runout not exceeding **0.05 mm**



4. Selection Guide

Correct model selection should start with door height, door width, traffic frequency, and working environment. These factors help ensure optimal performance, energy efficiency, and reliable operation.



DOOR HEIGHT
Match the height of the opening.



DOOR WIDTH
Match the width of the opening.



TRAFFIC FREQUENCY
Consider the number of openings per day.



WORKING ENVIRONMENT
Consider temperature difference, dust, humidity and other factors.

Technical Parameters



OPTIMIZED AIR CURTAIN SOLUTIONS

- Improved Comfort
- Energy Savings
- Reliable Protection

Model	Rated Voltage (V)	Rated Frequency (Hz)	Power (W)	Wind Speed (m/s)	Airflow (m³/h)	Weight (kg)	Size (cm)
HFM-4509-L-GA	380	50	1300	25	3760	29	90 x 35.2 x 30.6
HFM-4510-L-GA	380	50	1400	25	4150	31	100 x 35.2 x 30.6
HFM-4512-L-GA	380	50	2000	25	5640	42	120 x 35.2 x 30.6
HFM-4515-L-GA	380	50	2600	25	7520	52	150 x 35.2 x 30.6
HFM-4518-L-GA	380	50	2800	25	8500	58	180 x 35.2 x 30.6
HFM-4520-L-GA	380	50	3300	25	9400	69	200 x 35.2 x 30.6

KEY FEATURES



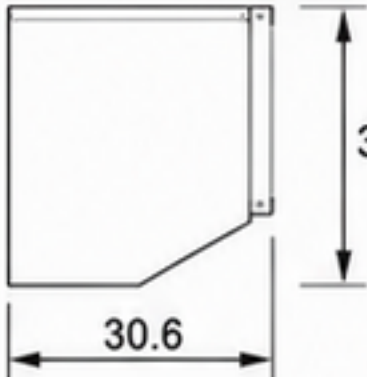
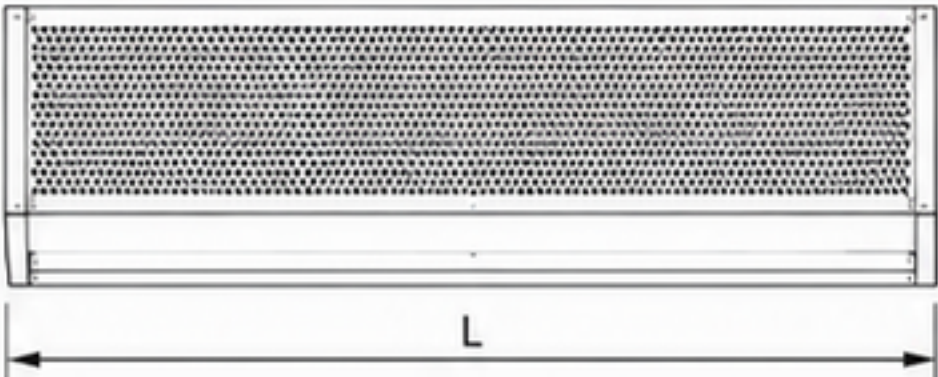
Three-phase industrial power supply



Designed for large industrial doorways



Vertical side-mounted solution available for selected openings



L = 90 / 100 / 120 / 150 / 180 / 200 cm

APPLICATION CASES

HUANGXI 皇禧
AIR CURTAIN SOLUTIONS

PROVEN PERFORMANCE IN REAL-WORLD ENVIRONMENTS

HUANGXI industrial air curtains are widely applied in logistics centers, warehouses, workshops, production lines, loading docks, and other large doorway environments, providing effective air separation, dust control, temperature retention, and energy savings.



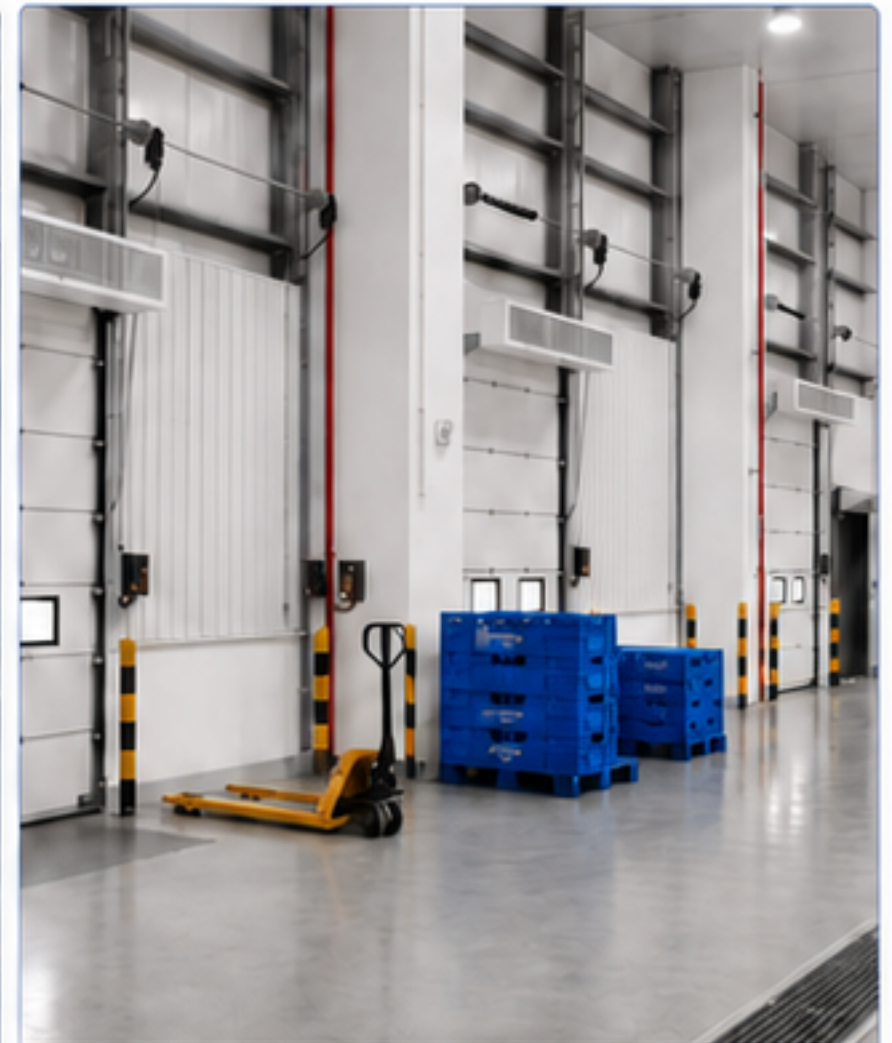
Vertical Side-Mounted Solution

Effective separation with minimal installation footprint.



Loading Dock

Maintains indoor conditions and keeps out dust, insects and pollutants.



Multiple Industrial Doors

Ideal for cold chain, food processing and high-traffic facilities.



Factory / Service Entrance

Compact design for exterior doors, helps block wind, dust and insects.



Exterior Industrial Door

Powerful airflow barrier for large exterior openings.



Effective Air Separation

Creates an invisible airflow barrier to reduce outside air infiltration.



Temperature Retention

Helps maintain stable indoor temperatures and reduce energy loss.



Dust & Insect Control

Blocks dust, fumes, and insects, improving indoor air quality.



Energy Efficient

Reduces HVAC load and lowers operating costs.



Reliable Airflow Protection Across Industrial Scenarios