2.7–4.7 m	8,200 m³	36 dB(A)	500 m²
FAN DIAMETER	AIRFLOW / MIN, MAX	WHISPER QUIET	COVERAGE, MAX

WHY AURORA SERIES

PMSM DIRECT-DRIVE MOTOR

Permanent-magnet, gearless design. No oil, no belts — virtually maintenance-free, IP64 protected.

SMART SPLIT CONTROLLER

US TI chip, stepless speed, timer and power-off memory, with multi-layer electrical protection.

AIRCRAFT-GRADE BLADES

AA6063T6511 aluminum airfoil with reinforced ribs and built-in anti-drop steel cable.

BUILT TO LAST

3-year official warranty and a 10–15 year service life under proper installation.

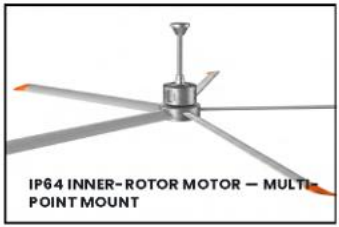
TECHNICAL DATA

AURORA SERIES

MODEL	AU-2EEX	AU-3EEX	AU-4EEX	AU-5EEX
Fan Diameter (m/ft)	2.7 / 9	3.3 / 11	4.0 / 13	4.7 / 16
Max Air Flow (m³/min)	5,580	6,800	7,500	8,200
Motor Power (kW)	0.3	0.3	0.55	0.55
Current 110/220 V (A)	2.2 / 1.3	2.2 / 1.3	3.7 / 2.2	3.7 / 2.2
Speed (RPM)	30–100	30–100	30–80	30–70
Coverage Area (m²)	200	300	400	500
Noise dB(A)	36	36	36	36
Weight (kg)	30	32	38	40

* Supplied with VFD controller · Applicable mounting height 3.5–6 m · 110/220 V, 50/60 Hz

GEARLESS PMSM HUB — ZERO OIL, ZERO NOISE



IP64 INNER-ROTOR MOTOR — MULTI-POINT MOUNT

APPLICATIONS

Showroom | Gym & Fitness | Restaurant & Café | Retail & Mall | School & Church Hall | Lobby & Lounge

3-YEAR OFFICIAL WARRANTY

10–15 YEARS SERVICE LIFE

BIG HVLS FANS – HAMILTON AIR TECHNOLOGY JSC.

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DESIGNED FOR CUSTOMER

FACING SPACES

Hamilton Air
PREMIUM HVLS FANS

With its brushed-metal finish, minimal hub profile and silent operation, AURORA blends into modern commercial architecture instead of interrupting it.

THE HVLS FAN BUILT FOR SPACES WHERE PEOPLE NOTICE

Overview

Factories tolerate noise. Showrooms, gyms and restaurants don't. The AURORA Series was engineered for commercial environments where acoustic comfort, architectural aesthetics and energy efficiency matter as much as raw airflow. Its gearless PMSM direct-drive motor removes the single biggest source of noise, oil leaks and maintenance in traditional HVLS fans — the gearbox — delivering silent, continuous comfort across up to 500 m² per fan.

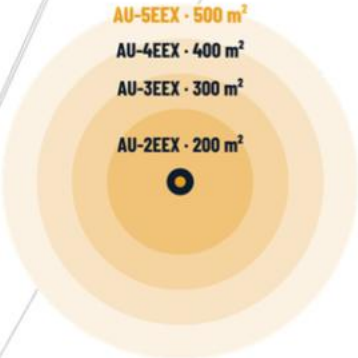
Gearless PMSM vs. Traditional Gearbox

In a conventional HVLS fan, an AC induction motor spins fast and a gearbox reduces the speed — adding oil, friction, noise and wear. AURORA's PMSM motor generates high torque at low RPM natively, so the blades connect directly to the rotor. Fewer parts, zero oil, near-silent operation.

VFD Inverter Controller

- VFD inverter controller with stepless speed regulation for smooth and energy-efficient operation.
- Split-type control system with a maximum control distance of 200 m, offering flexible installation and convenient operation.
- Integrated multi-level protection system, including over-current, over-voltage, phase-loss, and other electrical safety protections to ensure long-term reliability.

Coverage Logic

One Fan Replaces 10–15 Small Fans

HVLS physics is simple: a large diameter moving slowly pushes a massive, coherent column of air that spreads horizontally at floor level. A single AU-5EEX creates a perceived cooling effect of 4–6 °C across 500 m² — with one power point, one installation and one 0.55 kW motor instead of a ceiling full of small, noisy fans.