



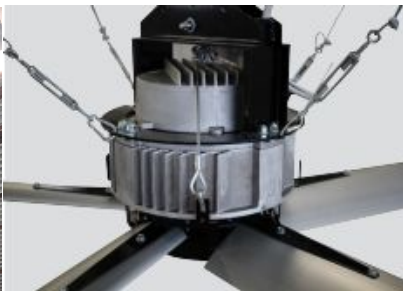
EQ Series

Powered by the sophistication of Italian design and engineering, Refresh Fans have been created specifically for North American climates and applications.

Efficient. Effective. Essential.

Direct Drive Motor. Green Technology Energizes the Earth and your Business.

INDUSTRIAL



EQ SERIES FANS ARE MADE FOR:

**Warehouses / Distribution
Manufacturing Facilities
Refrigeration / Cold Storage Buildings
Airport hangars
Automotive
Telecom / Data Hosting Centers
Showrooms**

MOST REFRESHING HVLS FANS IN THE WORLD

Our mission is simple. Manufacture fans that circulate large volumes of air, offering excellent energy and cost savings, coupled with extraordinary performance. This ideology makes our fans the most refreshing, possibly in the world.

INDUSTRIAL STRENGTH. REFRESHING FANS. GREATER PRODUCTIVITY.

Industrial facilities require widespread airflow. Machines and people, both, perform better when the temperature of a facility is regulated to create better working conditions. During winter, Refresh Fans help preserve heat indoors, and, prevent hot air from escaping, through stratification. Come summer, the fans can help bring down perceived temperatures through effective air circulation. Refresh Fans help improve worker productivity, safety and reduce costs.

BENEFITS AND FEATURES:

- ❑ Silent operation with gearless motor and custom airfoil design
- ❑ Diameter options from 10 to 20 feet
- ❑ Ideal to integrate with HVAC systems, for energy savings and CO2 emission reduction
- ❑ Maintenance free motor & Robust steel structure for long life
- ❑ Key safety features (main security wire, additional stabilizing cables, hub safety ring)
- ❑ Blades terminals designed to optimize performance and acoustic comfort
- ❑ Hub cover for better aesthetics and protects motor from dust
- ❑ Simple electrical connections
- ❑ Integrated EMC filters to prevent electromagnetic interference from other devices
- ❑ Fans are suitable for operating temperatures up to +50°C
- ❑ IP 65 rating for easy cleaning with water jets



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Coconut Creek, FL
33073

Canada:
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Richmond Hill, Ontario
L4B 1C7

EQ RANGE HIGH VOLUME LOW SPEED FANS

Technical Specification



Intertek

5014727

Conforms to UL STD 507
Certified to CSA STD C22.2#113



APPLICATION

The EQ range of high volume low speed fans are designed to be installed in high ceilings to redistribute air towards floor level.

They generate an airstream which covers a large area and creates a cooling effect in summer months, while through destratification in winter pushing the warm air down to occupant level.

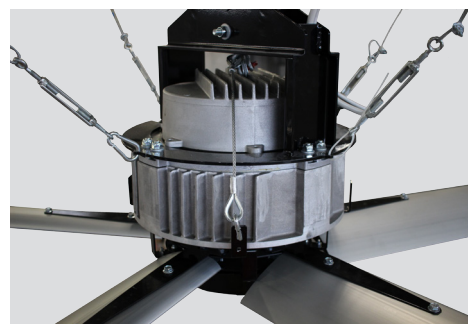
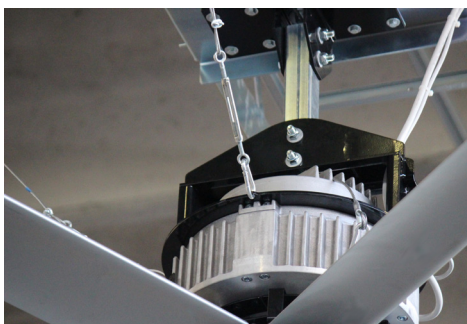
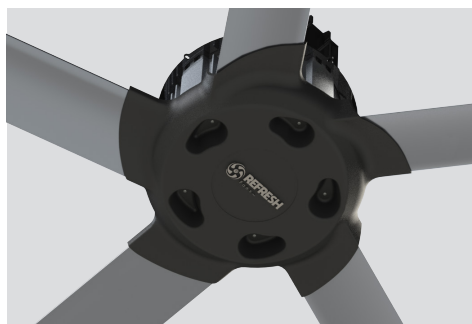
They are suitable for commercial, industrial and agricultural applications such as warehouses, manufacturing facilities, auto industry, shopping malls, airports, sports centers, greenhouses, cannabis production, and dairy farms.

CONSTRUCTION

- Upper frame made of painted iron welded structure to protect the motor.
- Safety cables and guy wires included for maximum safety and stability
- Standard 32" downrod (different lengths available).
- 5 specially designed airfoils made from aluminum EN AW 6063 T6. The surface is anodized to avoid corrosion.
- Aerodynamically shaped blade terminals made in plastic.
- Custom hub design, complete with redundant safety features.
- High efficiency three-phase EC brushless motor purpose built for HVLS technology, 200-480Vac/3ph/50/60Hz, IP65, with integrated electronic system and EMC filters. Suitable for S1 continuous service. Variable speed controllable.

FEATURES & BENEFITS

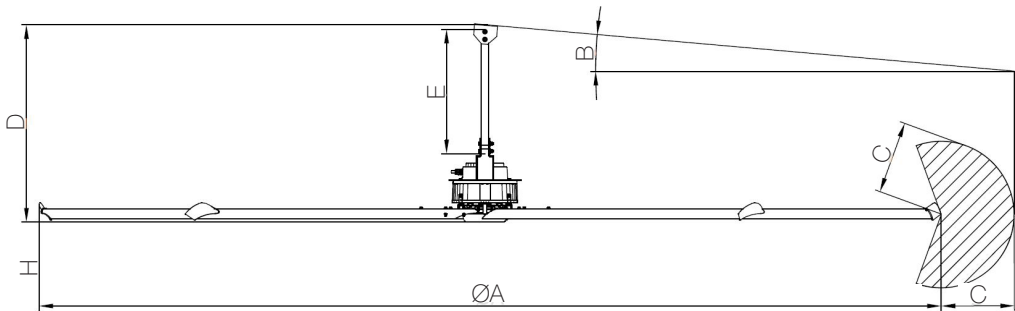
- Silent operation thanks to gearless motor and custom airfoil design.
- Ideal to integrate with HVAC systems, for energy saving and CO2 emission reduction.
- In winter months they are suitable for destratification of an environment by pushing the warm air towards the floor level, so to even the temperature and to prevent the HVAC system from running inefficiently.
- In summer months the constant breeze eliminates hot and cool spots in the building by improving the internal environment and creating a natural cooling effect. The air movement also helps keep insects away.
- Maintenance free motor.
- Robust steel structure for long life.
- Key safety features (main security wire, additional stabilizing cables, hub safety ring).
- Blades terminals designed to optimize performance and acoustic comfort.
- Hub cover to protect the motor from dust and better aesthetics.
- Simple electrical connections.
- Integrated EMC filters to prevent electromagnetic interference from other devices.
- Fan are suitable for operating temperatures up to +50°C.
- Unit performances are tested to the latest AMCA standard meaning accurate information that can be relied upon.
- Designed and manufactured in accordance with Machinery Directive (MD), Low Voltage Directive (LVD), Electromagnetic Compatibility Directive (EMC) and 327/2011 Regulation (ErP Directive).
- IP 65 rating for easy cleaning with water jets.



TECHNICAL SPECIFICATIONS

| Description | Diameter (A) | Weight | Airfoil Clearance on sides (C) | Max Speed | Max affected diameter | Sound ⁽¹⁾ Lp | Electric Power | Max Current | Minimum Circuit Size |
|-------------|--------------|-----------|--------------------------------|-----------|-----------------------|-------------------------|----------------|-------------|--------------------------------------|
| | ft (m) | lb (kg) | ft (m) | RPM | ft (m) | dB(A) | hp (kW) | A | |
| EQ10 | 10 (3.1) | 176 (80) | 1.2 (0.35) | 130 | 45 (14) | 55 | 1.1 (0.85) | 3.8 | 10A@200-240V, 3Φ 10A@400-480V, 3Φ |
| EQ12 | 12 (3.7) | 194 (88) | 1.5 (0.45) | 85 | 52 (16) | 52 | 0.8 (0.60) | 2.6 | |
| EQ14 | 14 (4.3) | 220 (100) | 1.5 (0.45) | 80 | 58 (17) | 55 | 0.9 (0.66) | 2.7 | |
| EQ16 | 16 (4.9) | 234 (106) | 1.8 (0.55) | 70 | 75 (23) | 56 | 1.1 (0.80) | 3.5 | |
| EQ18 | 18 (5.5) | 260 (118) | 1.8 (0.55) | 63 | 98 (30) | 49 | 1.2 (0.86) | 3.6 | |
| EQ20 | 20 (6.1) | 260 (118) | 1.8 (0.55) | 55 | 102 (31) | 50 | 1.2 (0.90) | 3.7 | |

@240V/60Hz supply, max speed
(1) Sound testing taken with the sensor 1.5m above the floor and 6m from the centre of the fan at 5m high, measured in a laboratory environment. Actual results in field conditions may vary due to sound reflecting surfaces and environmental conditions.



| Description | ØA | B max ceiling slope | C min safety distance from side obstruction | D fan height with standard downrod | E standard downrod length | H min fan installation height |
|-------------|------------|---------------------------|--|---|------------------------------------|--|
| | in. (mm) | ° | in. (mm) | in. (mm) | in. (mm) | in. (mm) |
| EQ10 | 120 (3050) | 15 | 14 (350) | 49 (1250) | 32 (800) | 120 (3050) |
| EQ12 | 144 (3650) | | 18 (450) | | | |
| EQ14 | 168 (4250) | | | 22 (550) | | |
| EQ16 | 192 (4850) | | 51 (1304) | | | |
| EQ18 | 216 (5450) | | | | | |
| EQ20 | 240 (6050) | | | | | |

ACCESSORIES

- Different length downrod.
- Potentiometer speed control with LED indicator.
- iBeam mounting kit.
- Glulam mounting kit.
- Aesthetic hub cover.



REFRESH
Fans inc.

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USA:
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www.refreshfans.com

ACCESSORIES

Downrod



- Downrod made from galvanised steel.
- Different length downrod on request.

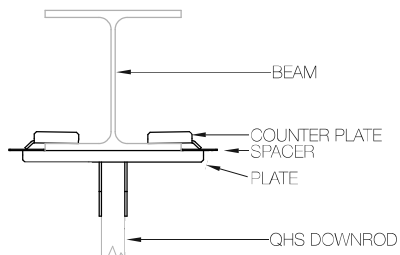
| Description | Weight (kg) | Dimensions (mm) |
|-------------|-------------|------------------|
| TUB1500 | 6,6 | 50x50x3 - L=1500 |

Speed controller



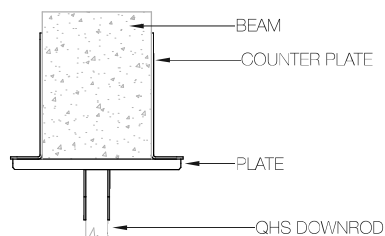
- Potentiometer with front knob to adjust the motor speed.
- Provided with two-pole switch (ON/OFF).
- Front yellow led to indicate that the load is active.
- Controls one fan only.
- 230V~ 50/60Hz.
- Supplied with IPX55 wall surface box.

I-Beam



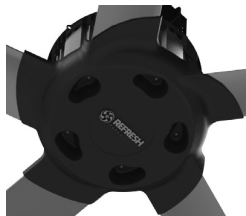
- I-Beam fixing kit suitable for standard IPE, HEA and HEB profiles.
- Fixing screws supplied.

Glulam



- Fixing kit suitable for rectangular beams with base between 100mm and 260mm.
- Fixing screws supplied.

Aesthetic hub cover



- Aesthetic hub cover made from robust plastic material.



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