Hison Axial Flow Fans

Introduction
Hison Marine Axial Flow Fans, formerly know as Howden Fans are manufactured to international Quality Standard. Axial flow fans are available from sizes 305mm to 1800mm diameter, and incorporated with heavy duty marine grade impellers with aerofoil blades for better efficiencies and lower sound level.

Performance
Ranges from $100m^3/hr$ to $250000m^3/hr$ and static pressure up to $125mmwg$

Construction
Fans for marine industries and offshore project are ruggedly constructed to withstand stringent and hostile environment.

Explosion proof motors and spark Resistance Construction Fans are available on requirement. Spark Resistant Construction Fans are built in accordance to AMCA standard 99-0401-86, Type B Constructions.

Anti-Spark Ring on standard fans is available on request.

Testing
Performance of fans are tested in accordance to AMCA Publication 211 and comply with the requirement of the AMCA Certified Ratings Program.

Sound ratings shown are based on tests and procedures in accordance with AMCA Standard 300 and 301

Direction of Airflow
Versatility of airflow direction of form 'B' or form 'A'

Typical Applications
- Air Conditioning
- Building Ventilation
- Marine Industries
- Offshore Projects
- Oven Exhaust
- Spray Booth Exhaust
- Cooling
- Kitchen Exhaust, etc….
Hison Axial Flow Fans

Direction of Airflow
Versatility of airflow direction of form 'B' or form 'A'

![Illustration of airflow direction 'B' and 'A'.]

Surface Coating
- Hot Dipped Galvanized to EN ISO 461:1999 which also comply to ASTM A123, A153 and BS 729.
- Blasted to SA 2-1/2 and coated with Hi-Built epoxy paint for marine environment and most industries applications.
- Special painting to user specification is available upon request.

Impeller
Adjustable Blades angles design to meet varied volume and pressure system requirements featuring the blade shank with tapered conical section. The tapered section fits into a conical slot in the hub, providing a taper lock fit. A bolt is cast into the blade, projecting into the hub and is secured on the inside by lock-washer and nut.

Balancing Standard
All fan impellers are statically and dynamically balanced to ISO 1940-1973 (E) G: 6.3 standards.

Motors
All Fans shall be supplied with totally enclosed, high efficiency motors of IP 55 degree of protection, foot-mounted Class F insulation, built to International Standard (IEC)

Special motors such as Explosion Proof, 2 speeds, Class H or D.C. motors are available to suit each specific application.

Accessories
- Separate upstream and downstream guide vanes
- Inlet/Outlet Silencers
- Mounting Feet
- Inlet Cones
- Matching Flange
- Mushroom Ventilators
- Control Damper
- Wire Guards
- Anti-Vibration Mountings

* Fan silencers are recommended for sound level exceeding 80dBA at 3m distance.
Note:
1) The dimensions quoted in this publication are generally correct, but should be checked at the time of ordering. Hison reserves the right to change design and specifications without notice.
2) All dimensions in mm.
3) Inspection doors are standard for 800mm dia fan and above.
4) Certified dimensions and weights can be furnished after receipt of order.

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<th>FAN MODEL</th>
<th>THICKNESS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D (MAX)</th>
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*Performance certified is for installation type D - Ducted inlet, Ducted outlet
*Performance ratings do not include the effects of appurtenances (accessories)
*The AMCA Certified Ratings Seal applies to air performance and the Fan Efficiency Grade ratings only.
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**FAN STATIC PRESSURE - Pa**

<table>
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<tr>
<th>AIR VOLUME - m³/s</th>
<th>PERFORMANCE m³/s @ STATIC Pa</th>
<th>SOUND POWER DATA (dB)</th>
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**Sound Power Level (dB):** Overall, Sound Pressure Level (dB(A))

**Pitch Angle:**
- 4°
- 8°
- 12°
- 16°
- 20°
- 24°
- 28°
- 32°

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A-1000-X-a3-03-R3, July 2013
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