



Bigg Fan

HVLS



Restaurant



Warehouse



Distribution Center



Factory



Sports Complex



Shopping Mall



Public/School Halls



Airport



Logistics Center

BIGG Fan Functions:



Energy Saving, Reduce Heating Bills

- Low Air Cooling Cost
- Improve working climate & employees efficiency
- Nature Air Cooling &
- Keep healthy fresh air reducing bacteria.

Why Choose Bigg Fan



BENEFITS

1. Outstanding coverage without draft, fully encompassing air circulation.
2. Energy efficient design, quick return on investment, Cut facility energy cost up to 30%
3. Effective supplement to Air conditioning, provide 3 to 5% savings on energy cost.
4. At optimal height, the fan can produce coverage area of 5 to 6 times greater than the overall fan diameter.

Bigg Fan Features:



- ▶ World Top Class Germany Nord Motor System, Coaxial Helical Gear Reducer



1. Small gear backlash assembly and grinding process, lower noise.
2. Strengthened bearing frame structure, ladder output shaft, large oil seal, strengthened fuselage structure, higher safety.
3. New Generation High energy-Efficiency IE 2 Motor, Low Noise
4. CCC, CE, UL certificated.

- ▶ Shell Omala S4GX highest-quality life time synthetic oils
- ▶ Imported SKF32-VL-II Taped roller VL bearings,
- ▶ Simrit high temperature double lipped output oil seals.
- ▶ Gearbox automatic exhaust Valve
- ▶ 6 pcs new designed Airfoil, AA6063T6511, surface carbon fluoro painting
- ▶ Cold forged external clamp type wing
- ▶ High-intensity hub is forged from imported aviation aluminum alloy material ALUM AA7075 with 1500 T high pressure
- ▶ Danfoss Powerful Variable Frequency Driver (VFD inverter)
- Built-in RF interference filter, inhibit the motor cable send radio interference.
- Built-in Intelligent logic controller, implement perfect and reliable operation
- Built-in brake chopper, convert device kinetic energy to braking power
- Features such as earth-ground fault, over temperature and short circuit protection.
- General RS485FC protocol, to achieve any control system communication

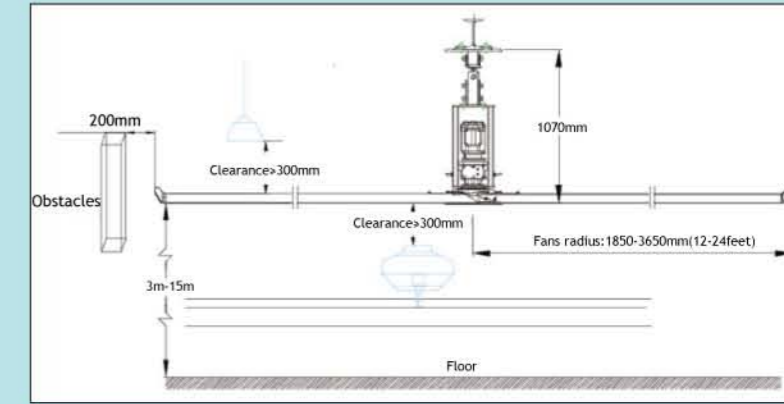


- ▶ Precision CNC machined hub
- ▶ Dynamically balanced and tested
- ▶ Hub strength 570Mpa+
- Hub surface evenness tolerance controlled within 0.01mm
- AA7075 T1500 high pressure forged hub, T6 treatment
- Bigg fan security
- Core technology

What Safety Measures BIGG Fan Have?

- Safety Philosophy: Safety, Safety, Again Safety
Security as the core technology, High performance as the pursuit aim
1. Fasteners: fasteners strength 12.9 Grade, practical stress endure above 10 times.
 2. Safety Wire rope: Each rope can bear strength over 1000kg;
 3. Anti-off protective structure design; anti-off disc, conical shaft & reverse threaded bolts. ---If failure occurs, the safety discs would prevent the hub falling down;
 4. L-type safety retainers connect all the wings together as one
 5. Variable Frequency controlling system automatically alarm and stop the operation

What Installation conditions BIGG Fan needs?



BIGG Fan installation Chart

Installation Conditions:

- Structures: I-beam, H-beam, Concrete, Bent frame structure, Spherical structure etc.
- Building total height required is more than 5M.
- Safe distance between fan blade and obstacles should be more 0.3M, and the height between installation point and below obstacles, such as crane, is 1.2M.
- Input power: 380V or 220V (can meet Special voltage requirement)

BIGG fan Technological configuration

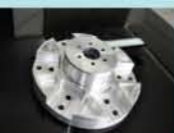
| Model | Size M/ft | Motor (KW/HP) | RPM | Air Volume (CMM) | (A) 380V | Coverage (SqM) | Weight Kgs | Noise dBA* |
|--------|-----------|---------------|------|------------------|----------|----------------|------------|------------|
| MBF 24 | 7.3/24 | 1.5/2.0 | 0-53 | 13,500 | 2.95 | 1800 | 125 | 50 |
| MBF 20 | 6.1/20 | 1.5/2.0 | 0-60 | 11,500 | 2.72 | 1380 | 113 | 50 |
| MBF 18 | 5.5/18 | 1.5/2.0 | 0-67 | 9,500 | 2.75 | 1050 | 108 | 53 |
| MBF 16 | 4.9/16 | 1.5/2.0 | 0-75 | 7,900 | 2.85 | 850 | 102 | 55 |
| MBF 12 | 3.7/12 | 1.5/2.0 | 0-75 | 6,100 | 2.72 | 630 | 90 | 55 |

BIGG Fan Components

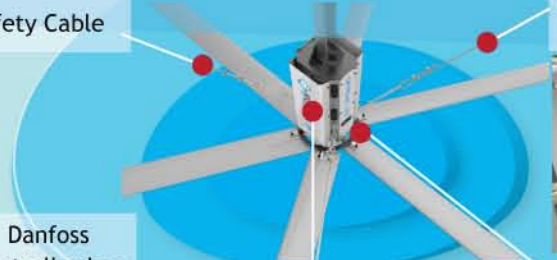
New Design Airfoil Cold forged External clamp wing



High Pressure Aluminum Forged Hub



Safety Cable

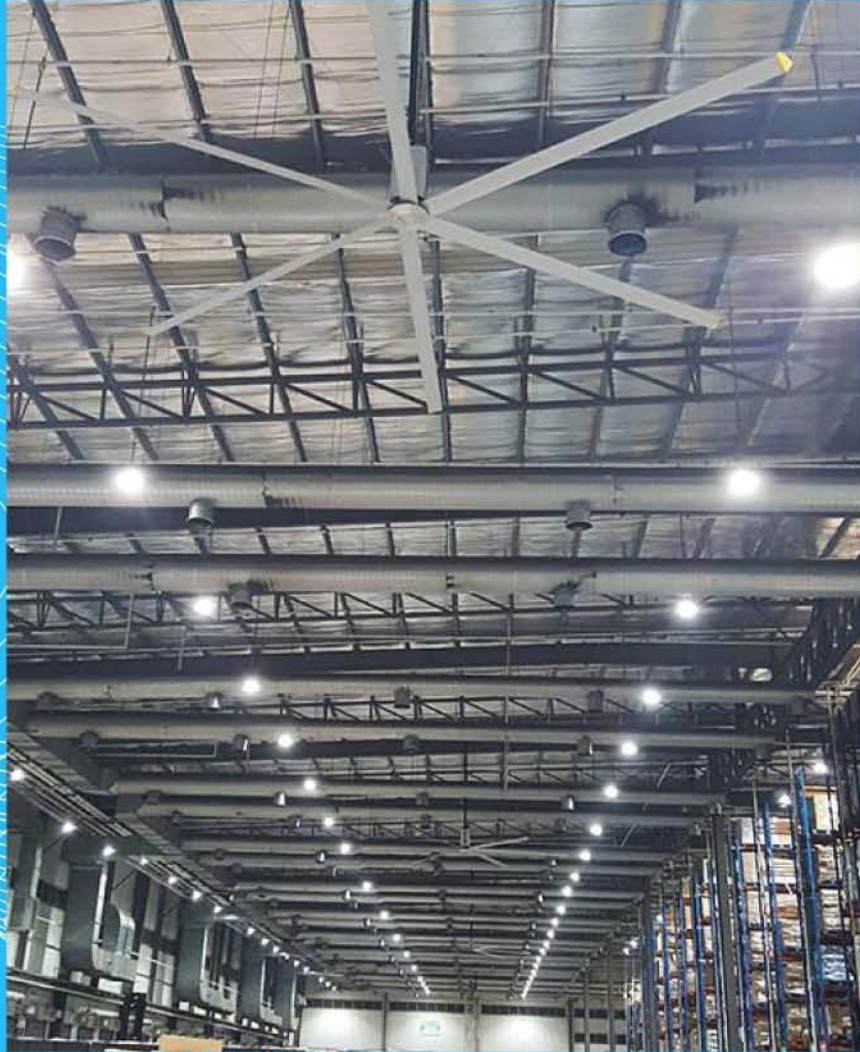


Danfoss Controller box



Germany Nord Motor Driver





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 **MAH TECH**

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