Quality of Excellence, product of Innovation, Transaction of Integrity

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www.toolmasterbd.com

THE TOOL MASTER & ENGINEERING CO.
ESTD: 1983
ONE-STOP TEMPERATURE CONTROL SOLUTION SERVICE PROVIDER
Our valued customer

Our supplied product

- Exhaust fan
- FRP Roof fan
- Cow house Hanging fan
- FRP Wall Fan

- Natural Turbine
- Floor dryar
- HVLS Fan
- Ceiling fan

- Axial blower
- Portable blower
- Centrifugal Blower
- Air Filter

- Dehumidifier
- Cooling Pad
- Evaporative Air cooler
- Wall Fan
- Low Noise Ventilation Fan
The Tool Master & Engineering Company has focused on becoming a leader in the air management/ventilation system in industrial sector since its founding in 1983. For more than two decades. We have been researching, designing and bringing to market “Ventilation Solutions” that ensure better indoor air quality in the building where we work and live. We have the ability to handle any air moving solution.

The Tool Master & Engineering Company was established in 1983 under the direction of our Managing Director Late Haji Md. Abdul Alim.

We own factory of 15000 square feet situated in the reputed and bustling BSCIC industrial area of Tongi, Gazipur.

We have the best manufacturing equipment from Germany, Italy, Malaysia, Thailand, Taiwan and China and the best engineering force in our working team to offer our customers with the superior products.

Overview
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Scope of field:
- Garments and Textile
- Supermarket Store
- Agricultural field Greenhouse
- Warehouse Racking store
- Printing packaging sector
- Power plant Ventilation
- Food processing Sector
Drop Hammer Exhaust Fan
Imported from China

- **Fan pulley**: The pulleys are made of high-strength aluminum-magnesium alloy die-casting, lightweight, strong corrosion resistance, reducing the weight of the fan blade. The special three-ribbed pulley design eliminates internal stress and improves its own rigidity and stability without breaking.

- **Motor**: High-performance fan-specific motors can be customized according to customer needs, voltage and frequency, pass 3C certification, protection level IP55, insulation level F level, there are domestic motors and imported motors for customers to choose to use.

- **Blade**: Fan blades are stamped and formed from Krupp stainless steel, dust-free, beautiful and durable. The special blade shape design ensures that the air volume is large, not deformed or broken, and all kinds of making the air volume the same.

- **Hammer**: The high-strength nylon swing weight opening mechanism is used to ensure the opening and closing of the blades is flexible and stable.

- **Fan bearing**: The fan bearing adopts the special waterproof design of the double-row bearing, and water cannot enter. High strength, low noise, maintenance-free and long service life.

- **Fan belt**: The belt adopts imported belt to ensure the service life and maintenance-free.

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<table>
<thead>
<tr>
<th>Model</th>
<th>Air Flow (C/MH)</th>
<th>Power (w)</th>
<th>Voltage (v)</th>
<th>Diameter (mm)</th>
<th>Dimension (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMEC-400</td>
<td>2900</td>
<td>370</td>
<td>220/380</td>
<td>400</td>
<td>400x600x350</td>
</tr>
<tr>
<td>TMEC-500</td>
<td>3600</td>
<td>370</td>
<td>220/380</td>
<td>500</td>
<td>400x600x350</td>
</tr>
<tr>
<td>TMEC-600</td>
<td>14000</td>
<td>370</td>
<td>220/380</td>
<td>600</td>
<td>600x600x350</td>
</tr>
</tbody>
</table>

---

**Table:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Blade Diameter (mm)</th>
<th>Blade Rotation Speed (RPM)</th>
<th>Motor Rotation Speed (RPM)</th>
<th>Air Flow (M3/Hr)</th>
<th>Total Pressure (Pa)</th>
<th>Noise (Desibels)</th>
<th>Input Power (kw)</th>
<th>Rated Voltage (v)</th>
<th>Height (mm)</th>
<th>Width (mm)</th>
<th>Thickness (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMEC-1380</td>
<td>1250</td>
<td>439</td>
<td>1400</td>
<td>44000</td>
<td>56</td>
<td>&lt;75</td>
<td>1.1</td>
<td>380</td>
<td>1380</td>
<td>1380</td>
<td>400</td>
</tr>
<tr>
<td>TMEC-1220</td>
<td>1100</td>
<td>460</td>
<td>1400</td>
<td>38000</td>
<td>73</td>
<td>&lt;70</td>
<td>1.1</td>
<td>380</td>
<td>1220</td>
<td>1220</td>
<td>400</td>
</tr>
<tr>
<td>TMEC-1100</td>
<td>1000</td>
<td>600</td>
<td>1400</td>
<td>32500</td>
<td>70</td>
<td>&lt;70</td>
<td>0.75</td>
<td>380</td>
<td>1100</td>
<td>1100</td>
<td>400</td>
</tr>
<tr>
<td>TMEC-900</td>
<td>750</td>
<td>630</td>
<td>1400</td>
<td>28000</td>
<td>65</td>
<td>&lt;65</td>
<td>0.55</td>
<td>380</td>
<td>900</td>
<td>900</td>
<td>400</td>
</tr>
<tr>
<td>TMEC-800</td>
<td>710</td>
<td>660</td>
<td>1400</td>
<td>22000</td>
<td>60</td>
<td>&lt;60</td>
<td>0.37</td>
<td>380</td>
<td>800</td>
<td>800</td>
<td>400</td>
</tr>
<tr>
<td>TMEC-600</td>
<td>508</td>
<td>700</td>
<td>1400</td>
<td>10000</td>
<td>50</td>
<td>&lt;60</td>
<td>0.37</td>
<td>380</td>
<td>600</td>
<td>600</td>
<td>400</td>
</tr>
</tbody>
</table>
Push-Pull Exhaust Fan

- The unique push-pull opening mechanism ensures that the shutters can be opened and closed freely;
- The push-pull opening device is made of high-strength nylon, 100% raw material, high strength and long service life;
- Double row sealed bearings, waterproof design, high strength, low noise, maintenance-free, and long service life;
- The blade is double row, fully formed by Kimp precision stamping, not broken, deformed, beautiful and durable;
- The whole set of fan blades is checked and calibrated by high-precision dynamic balance to ensure smooth operation of the fan without vibration, reduce noise, and effectively increase service life;
- The unique recessed fan handling handle design can effectively avoid the inconvenience during loading, unloading and handling, and will not affect the installation and appearance of the fan;
- Equipped with national standard high-efficiency energy-saving motors, passed the national 3C certification, protection class IP55, insulation class F.

<table>
<thead>
<tr>
<th>Model</th>
<th>Blade Diameter (mm)</th>
<th>Frequency (Hz)</th>
<th>Motor Rotation Speed (RPM)</th>
<th>Air Flow (M3/Hr)</th>
<th>Import Power (W)</th>
<th>Noise Desibels</th>
<th>Rated Voltage (v)</th>
<th>Height (mm)</th>
<th>Width (mm)</th>
<th>Thickness (mm)</th>
</tr>
</thead>
</table>
Roof ventilation may help control moisture in winter and remove heat from the attic, in the summer; and may also be useful in strategies involving convective stack ventilation (in hot climates) or to avoid ice dams, in cold climates. Anyway, alone, roof ventilation will not solve thermal problems in the living space below the attic (see Box). And it all depends largely on climate and home design issues.

This page presents the different types of attic ventilation systems - soffit and ridge vents; gable vents; roof-lower vents; attic fans... and their effectiveness.

### Features
- The outer shell is formed by high-strength anti-corrosion FRP material at one time, and the surface of the shell is coated with a layer of bright gel-coat, which is beautiful and generous.
- Adopt the most advanced high-efficiency full-sealed direct-connecting aluminum shell motor in the world, which will never rust, and effectively avoid the energy loss and maintenance costs caused by oil leakages.
- The cross-edge motor bracket is made of stainless steel, and the fan blades are made of aluminum alloy die-casting, which is corrosion-resistant and strong.
- PVC shutters, anti-corrosion and anti-crack.
- FRP one-piece die-cast fan blades, light weight and high efficiency.

### Details of Roof Mounted Ventilation system
1. **Body Material**: FRP.
2. **Blade**: Aluminum Alloy/FRP/SS
3. **Number of Blade**: 93 Pcs.
4. **Motor**: IP 55 Grade 3 class insulation.
5. **Rain protection**: FRP.
6. **Country of Origin**: Taiwan.

#### Size: 48” (Inch)
- **Dimension**: 239.6x160/94.70cm
- **Max airflow**: 46.500m³/hr
- **Voltage/Frequency**: 380V/50Hz
- **Power**: 3.5HP (IP 55 Grade - F class insulation)
- **Motor RPM**: 700, Fan RPM: 650
- **Noise**: 65 dB

#### Size: 36” (Inch)
- **Dimension**: 120x120/95.55cm
- **Max airflow**: 30,500 m³/hr
- **Voltage/Frequency**: 380V/50Hz
- **Power**: 1HP (IP 55 Grade - F class insulation)
- **Motor RPM**: 600, Fan RPM: 700
- **Noise**: 65 dB

### Application Field:
- Textile Factory (Dyeing, Finishing), Utility unit (Boiler, Generator room), Substation Room, Printing and packing room, Bakeries, Paper mills, Stores, Poultries, and Livestock farms.

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### FRP Wall Exhaust Fan

Glass Steel Exhaust Fan Imported From China and Taiwan

<table>
<thead>
<tr>
<th>Model</th>
<th>Propeller Dia. (Inch)</th>
<th>Fan blade material</th>
<th>Fan blade quantity</th>
<th>Airflow (m³/hr)</th>
<th>Airflow power (W)</th>
<th>Voltage</th>
<th>Complete Size (mm)</th>
<th>Installation hole size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DUF-650</td>
<td>660(25&quot;)</td>
<td>6</td>
<td>700</td>
<td>13000</td>
<td>0.37/0.5</td>
<td>850</td>
<td>900x450</td>
<td>800x800</td>
</tr>
<tr>
<td>DUF-700</td>
<td>680(29&quot;)</td>
<td>6</td>
<td>520</td>
<td>28800</td>
<td>0.36/0.75</td>
<td>380V/220V</td>
<td>1000x1000x180</td>
<td>1000x1000</td>
</tr>
<tr>
<td>DUF-720</td>
<td>1066(42&quot;)</td>
<td>6</td>
<td>520</td>
<td>40000</td>
<td>0.75/1</td>
<td>380V/220V</td>
<td>1200x1200x180</td>
<td>1200x1200</td>
</tr>
<tr>
<td>DUF-1460</td>
<td>1208(50&quot;)</td>
<td>6</td>
<td>520</td>
<td>44000</td>
<td>1.1/1.5</td>
<td>380V/220V</td>
<td>1460x1460x180</td>
<td>1400x1400</td>
</tr>
</tbody>
</table>
Advantages of Turbine Roof Ventilation:
Turbine roof vents are some of the best ventilation devices around. There are a number of reasons why you may choose to install turbine roof vents into your attic space, rather than looking for attic fans or other kinds of pot-style vents.

Benefits of Industrial Roof Ventilation Systems:
- Positive extraction removes heat, fumes, steam and dust.
- Improves productivity.
- Improves indoor air quality.
- Water and bird proof.
- Reduces structural damage.
- Protects stored goods.
- Human and environmentally friendly.

Natural Turbine Ventilation System
Origin Taiwan & China
No power needed.
Easy-installation and maintenance.
Natural wind drives, working 24 hours of whole day.

Taiwan origin Roof fan details
- Rotor Head/Wind blade Dia: 685 mm
- Rotor Head Collar Dia: 590 mm
- Neck Dia: 560 mm
- Neck height: 284 mm
- Total Height: 458 mm

China origin Roof fan details
- Rotor Head/Wind blade Dia: 585 mm
- Rotor Head Collar Dia: 550 mm
- Neck Dia: 508 mm
- Neck height: 182 mm
- Total Height: 458 mm

Main Performance
- Fan blade is made of mirror stainless steel by punch forming. Large air volume, no deformation, no dust, attractive and durable.
- Fan galvanized round frame with zinc-coated of 180g/sqm, increase zinc-coated layer, to ensure never rust.
- Flanging edge backflow design increase ventilation, reduce vibration and noise, improve fan’s stability.
- Fan blades are adjusted by intelligent dynamic-balance tester, ensure the fan smooth running, lower vibration, less noise, increase stability and service life.
- Motors with aluminum-magnesium alloy housing, good heat emission, high efficiency, reasonable dimension, light weight, low current, big torque.

Direct driven fan technical data

Belt driven fan technical data

Cow-House Hanging Fan
HVLS Industrial Ceiling Fan

HVLS industrial ceiling fans are used to circulate air in large commercial buildings. They are particularly useful in warehouses and manufacturing facilities that have high ceilings. Most industrial ceiling fans have metal or hard plastic blades and spin at very high RPMs. Because of the high velocity at which they spin, they must be installed at least 10 feet from the ground and are not considered safe for residential applications. Industrial fans are also used to draw the heat down from the ceiling and are often referred to as heat fans. The Emerson industrial ceiling fan models that have the high grade motors will last the longest and have the best performance.

<table>
<thead>
<tr>
<th>Model</th>
<th>TMEC-HV-3600</th>
<th>TMEC-HV-5200</th>
<th>TMEC-HV-6200</th>
<th>TMEC-HV-7200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan Diameter (mm)</td>
<td>3600</td>
<td>5200</td>
<td>6200</td>
<td>7200</td>
</tr>
<tr>
<td>Number of Blade</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Motor Power (kw)</td>
<td>1.1 kw</td>
<td>1.5 kw</td>
<td>1.5 kw</td>
<td>1.5 kw</td>
</tr>
<tr>
<td>Rated Voltage (V/Ph/Hz)</td>
<td>380V, 3-P, 50Hz</td>
<td>380V, 3-P, 50Hz</td>
<td>380V, 3-P, 50Hz</td>
<td>380V, 3-P, 50Hz</td>
</tr>
<tr>
<td>The Maximum Air Speed (m/s)</td>
<td>3</td>
<td>3.5</td>
<td>4</td>
<td>4.5</td>
</tr>
<tr>
<td>The Maximum Rotate Speed (RPM)</td>
<td>65</td>
<td>62</td>
<td>58</td>
<td>55</td>
</tr>
<tr>
<td>Total Weight (kg)</td>
<td>100</td>
<td>105</td>
<td>110</td>
<td>115</td>
</tr>
<tr>
<td>Area Covered (m²)</td>
<td>900</td>
<td>1100</td>
<td>1300</td>
<td>1450</td>
</tr>
</tbody>
</table>

VFD Control Panel: Power Supply: 380V/3P/50Hz, control panel specifies with Schneider load switch. Denmark imported Danfoss VFD, Frequency converter with the functions of over current, over voltage, under voltage, phase lack, overload and overheat protection. It would automatically stop when the motor is stuck and the fan blades are blocked.

Fan Blade: Made of 6061 high quality 2mm thick aviation aluminum magnesium with T6 treatment, features corrosion resistance, high strength, high toughness, fatigue resistance and anti-oxidation treatment. Surface smooth then easy to clean. The blade is Concave & Convex design up to aerodynamics principle, with special winglet at end, the individual blade length is 3400mm.

Motor System: Italy imported and integrated Bonfiglioli motor & gearbox: protection grade IP55; power 1.1/1.5/2.0kw; Ø35mm large diameter output shaft with imported Fluorine rubber double oil seal for durability.

Chassis System: Made of aluminum magnesium integrity, made by 1800T heat forge, and cut and processed by high precision CNC machine to confirm the consistency and intensity features, also to guarantee the dynamic balance of blades.

Multiple Security Protection Features:
1. Unique design of steel loop chain for 5pcs of blade security connection. The five blades come to an organic whole in case of any blade falling.
2. Unique Chassis bearing device, extends the chassis oriented distance, avoid reducer and motor spindle directly to withstand axial force to ensure the service life of internal bearing and shaft of motor & gearbox integrated machine.
3. High strength bolts made of 30CrMnSi material, level 12.9, and using the thread fastening agent 271 to prevent loosening. The guaranteed load can be up to 35500N-152000N, means 3-5 tons, the total weight of Qixiang HVLS fan is only 115kg.
4. Germany brand-new FAG bearings, the transmission system made of high strength steel structure processed by high precision numerical control(CNC)technology. Strong mechanical properties and high dimensional accuracy to ensure the service life of the bearing.
5. Four pieces of inclined steel ropes are tensed towards 4 directions below the motor frame, to prevent rotation vibration in large inertia and guarantee the operation stability and security.
6. Triple anti-falling safety protection rings interlock with each other, to connect the fan at the same time also to ensure the stabilities of each individual system in case of any single falling.
7. Imported Denmark Danfoss variable frequency drive(VFD), Reduce the motor whistle, improve the control pulse signal quality; Intelligent slow acceleration and deceleration, high protection for motor & gearbox together with transmission system!
8. Patented Double Outer Bearing Safety System a. Extend the oriented distance from the motor shaft to the chassis b. Service as a buffer, the motor & gearbox will not directly undertake the bearing load. c. Prevent shaking or vibration d. Prevent wheel gear friction and oil spilling e. Avoid the big knockout force when emergency stops or improper operation f. Extend of service life and to be maintenance free.
Dehumidifire

**What is dehumidifire:**
Industrial dehumidifiers are ideal for lowering humidity levels to around 50%RH and at temperatures above 15°C.

The machine DC range offers capacities from 75-930 litres per day and air flows from 800 to 8,500m³/h, making the dehumidifiers ideal for drying complete buildings. The systems can deliver dry air directly to a room’s atmosphere or be connected to a building’s ventilation system.

All models come with a hot-gas defrost feature as standard and only use highly efficient R410A refrigerant gas.

The DC category dehumidifiers can be free-standing or positioned on mobile trolleys for use around a building. Dry air can be delivered directly to a room’s atmosphere or ducted to a building’s ventilation system.

The housing is galvanised metal with a powder coated enamel as standard and available in stainless steel as an option.

Operation is controlled via its on-board digital display, an optional remotely located controller up to 50m away or via a BMS (Modbus).

The DC category dehumidifiers use energy efficient EC fans with a three speed selection.

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**Application Field:**
Textile Factory (Dyeing, Finishing), Utility unit (Boiler, Generator room), Substation Room, Printing and packing room, Bakeries, Paper mills, Stores, Poultries and Livestock farms.

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**Items Details:**
- Model NO. TMEC-DHF-001
- Display: LED Display
- Power off Memory Function: Yes
- Size: H*1600*W610*L400
- Controller: Automatic Defrost System
- Automatic Humidity Control: Yes
- Intelligent Microcomputer Control System: Yes
- Usage: Home, Industry, Warehouse
- Dehumidifier Function: Washable Air Filter
- Classification: Dehumidification
- Dehumidifier Type: Cooling
- Humidity Control: Automatic
- Power Type: AC Source
- Timing Function: With Timing Function
- Water Shortage Power-off Protection: With Water Shortage Protection
- Trademark: DXSL or OEM
- Specification: CE, ROHS, CCC, ISO9001
- Origin: China

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**Technical Information:**
1. Model: M0H-7480BC
3. Voltage: 380V~50Hz
4. Rated Input Current: 20.0A
5. Rated Input Power: 10KW
6. Operating Temperature: 5-38°C
7. Drainage: Soft Pipe
8. Timer: 1~24h
9. Unit Volume: 1800X1200X550 mm
10. Net Weight: 220 KG
11. Gross Weight: 233 KG
12. Suitable Area: 600-800m²
13. Noise Level: 45dB (A)
14. Refrigerant: R134a
15. Compressor: Scroll compressor, 3 minutes delayed for protecting the compressor, high efficient and saving power
16. Defrost: Automatic defrosting
17. Humidity Control: Automatic humidity control, RH40-90% adjustable
Energy Savings Ceiling Fan

Ceiling fans are the most neglected appliances when people think about reducing electricity consumption in their house. Most people focus on lighting to fix their high electricity bills, but fans consume a lot more than lights. To give a perspective a regular ceiling fan consumes 75 Watts as compared to a regular (most inefficient) tube-light that consumes 35 Watts. Also a ceiling fan is used during the day as well as night whereas a light is used only during the night. In totality ceiling fans consumes more than twice or thrice the amount of electricity as compare to lights. But most people ignore power consumption of ceiling fans while buying them.

<table>
<thead>
<tr>
<th>SPAN(MM/INCH)</th>
<th>900MM</th>
<th>1050MM</th>
<th>1200MM</th>
<th>1400MM</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATTAGE(W)</td>
<td>28</td>
<td>32</td>
<td>28</td>
<td>35</td>
</tr>
<tr>
<td>AIR DELIVERY(CMM)</td>
<td>157</td>
<td>210</td>
<td>230</td>
<td>270</td>
</tr>
<tr>
<td>RPM</td>
<td>470</td>
<td>430</td>
<td>380</td>
<td>280</td>
</tr>
<tr>
<td>SERVICE VALUE</td>
<td>5.6</td>
<td>6.6</td>
<td>8.2</td>
<td>7.7</td>
</tr>
<tr>
<td>FREQUENCY(HZ)</td>
<td>48-52</td>
<td>48-52</td>
<td>48-52</td>
<td>48-52</td>
</tr>
<tr>
<td>POWER FACTOR</td>
<td>0.99</td>
<td>0.99</td>
<td>0.99</td>
<td>0.99</td>
</tr>
<tr>
<td>NO. OF BLADES</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>BEARING (DOUBLE)</td>
<td>Deep Groove Double sided Steel shielding</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REMOTE CONTROL (12 KEYS)</td>
<td>Speed Control, Boost Mode, Timer &amp; Sleep Mode</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Generator room ventilation system

Proper generator room ventilation is essential for both the efficiency and safety of any operation. Ventilation is key for engine combustion support, to control engine and alternator heat, and for purging harmful odors and fumes from generator rooms. While designing generator rooms, it is important to take ventilation basics into consideration. Make sure to put all necessary components of a successful ventilation system into place, including air intake and outlet vents, fans, and air ducts.

- **Characters**: 1) large fowing rate, 2) lower resistance, 3) high dirt holding, 4) single or double flange.
- **Filter media**: fiber glass media or polypropylene filter media.
- **Separation**: aluminum membrane.
- **Frame material**: galvanization-steel plate.
- **Seal**: fiberglass cotton.
- **Max. working temperature**: 85o C.
- **Max. working humidity**: 80%
- **Efficiency**: 96-98% (EN779:2012).
- **Application**: the filters are used in the industries of medicament, electronics, foodstuff and the air condition etc for mid filtering.

We can supply any customize filtration system.
The circulation of the room air and supply of a workplace with sufficient oxygen is indispensable, especially in the industrial sector. Axial fans are the most established models for ventilating rooms that are easy to install on the wall and can be used to complete larger pipe ventilation systems.

With high power ratings, rugged metal housings and extra features, industrial fans in our product category are designed to meet the high demands of commercial customers.

**Primary Applications of Axial Fans**

Axial fans are used in a large number of industries, for a variety of applications. Some of the major applications of axial fans have been listed herein. Industrial axial fans are designed so as to create a large volume of airflow at low pressure.

Thus, there are many different ways in which they can be used. One of the major areas in which these fans are widely used, is for cooling or air-conditioning. Moving the hot air from one location to another, so as to cool a room or even an entire building, is a task that is perfectly suited for axial fans.

**Car Parking Jet Fan**

Jet fans are placed at strategic positions to ensure air movement and mixing throughout the car park. The combination of this thrust ventilation principle with mechanical exhaust and (natural and/or mechanical) fresh air supply results in an optimal ventilation system for enclosed car parks.

The fully integrated JET FAN system developed by our principal includes three ventilation elements, some CO (carbon monoxide) detection sensors, a control panel and a CFD analysis: these are the essential requirements to design the most suitable ventilation system for a specific car park.
Evaporative Cooling Pad

Cooling pads cooling systems are used wherever air conditioning is required where there are higher than desirable temperatures. We have delivered fan and cooling pad systems in Bangladesh, covering a multitude of horticultural, agricultural Poultry & Livestock. Various Industrial application and warehouse cooling is required. In using these air conditioning systems proper engineering and design is required as the system has to be integrated with ventilation, exhaust and special air conditioning fans. We serve specialty markets and our evaporative air conditioning system is simple and provides cooling, efficient, low maintenance operation.

Structure And Cooling Principle:

Cooling pad system is the new type cooling system which is produced by our company for energy saving cooling equipment. Simple structure, large quantity of cold air, low price, low power consumption, fresh air and reliability service. It can be widely used in the textile, socks, clothing, glass, injection molding, rubber, painting, silk screening, toys, electronic, home appliances, footwear, printing, food processing, dyes and laundry, where have the hot workshop. As well as the shopping mall, the super market, waiting room and large indoor entertainment.

Cooling pad dimension

Height: 1800mm (6’) or 1500mm (5’)
Width: 600 mm (2’)
Depth/Thickness: 150mm (6”)
Color: Brown or Brown with one side black coated
Country of origin: Thailand or China.

Pipe System Parts

1. UPVC, Thread pipe
2. Tee
3. Elbow
4. Socket
5. Nipple
6. Union
7. Gate valve
8. Check valve, non-return valve
9. Reducer socket
10. Water pump
11. Accessories

Gutter Frame System Parts

1. Aluminium frame
2. Frame side plate
3. Split
4. Frame joint
5. Frame in cap
6. Semicircle pipe
7. Pipe carrier
8. Water pipe
9. Hook
10. Back water coupling
11. Accessories

Instructions

- Water volume control: The water supply should make the wet curtain evenly soaked, and the fine water flow flows down the wet curtain ribbons. The water volume can be controlled by adjusting the water supply valve.

- Water quality control: Keep the water source clean, the pH of the water is between 6-8, and the conductivity is less than 1000 micro ohms. Clean the pool and water circulation system regularly to ensure clean water supply. (Usually once a week) Keep the water supply in good quality. In order to prevent the growth of algae and other microorganisms on the surface of the wet curtain, 3-5ppm chlorine or bromine can be added to the water for short-term treatment. The concentration is 1ppm during continuous treatment.

Water Distribution and Return Systems provide the plumbing and mounting equipment needed to supply water to cooling pads and to collect and return the water after it has been sent through the cooling pads. Cooling pads don’t function without the water distribution and return system.
In heating, ventilation, and air conditioning (HVAC), ductwork is used for the forced transportation of air. This airflow includes the supplied air from inside your home that is in need of heating or cooling, the return and dispersion of this conditioned air throughout your house, and the exhausting of air as necessary out of the home. Pipes used to transfer water, gas, or refrigerant are not ductwork. Ductwork moves air. There are many different ductwork shapes and constructions, including rectangular, round, and oval cross-sectional shapes, with materials ranging from metals to fiberglass and flexible plastics.

**Benefits of Ducting System**

**Comfort:** Sealing and insulating ducts can help with common comfort problems, such as rooms that are too hot in the summer or too cold in the winter.

**Indoor Air Quality:** Fumes from household and garden chemicals, insulation particles, and dust can enter your duct system, aggravating asthma and allergy problems. Sealing ducts can help improve indoor air quality by reducing the risk of pollutants entering ducts and circulating through your home.

**Safety:** During normal operation, gas appliances such as water heaters, clothes dryers, and furnaces release combustion gases (like carbon monoxide) through their ventilation systems. Leaky ductwork in your heating and cooling system may cause “backdrafting,” where these gases are drawn back into the living space, rather than expelled to the outdoors. Sealing leaks can minimize this risk.

**Save Money:** Leaky ducts can reduce heating and cooling system efficiency by as much as 20 percent. Sealing and insulating ducts increases efficiency, lowers your energy bills, and can often pay for itself in energy savings. Plus, if you’re planning to install new heating and cooling equipment, a well-designed and sealed duct system may allow you to downsize to a smaller, less costly heating and cooling system that will provide better dehumidification.

**Protect the Environment:** Energy used in our homes often comes from the burning of fossil fuels at power plants, which contributes to smog, acid rain, and climate change. Simply put, the less energy we use in our homes, the less air pollution we generate. By sealing your ducts and reducing the amount of energy necessary to comfortably heat or cool your home, you can reduce the amount of air pollution generated.

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ducting system

<table>
<thead>
<tr>
<th>Down Discharge</th>
<th>Top Discharge</th>
<th>Side Discharge</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Items</strong></td>
<td>Model-18</td>
<td>Model-13</td>
</tr>
<tr>
<td><strong>Phase</strong></td>
<td>Phase 3/1</td>
<td>Phase 3/1</td>
</tr>
<tr>
<td><strong>Speed</strong></td>
<td>1/Variable</td>
<td>1/Variable</td>
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<tr>
<td><strong>Work Controller</strong></td>
<td>LCD</td>
<td>LCD</td>
</tr>
<tr>
<td><strong>Per-Dust Filter</strong></td>
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<td>Yes</td>
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<tr>
<td><strong>Remote control</strong></td>
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<td>Yes</td>
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<tr>
<td><strong>Auto Water Drain</strong></td>
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<td>Automatic</td>
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<tr>
<td><strong>Overload Protection</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Pump Protection</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Loss Phase Protection</strong></td>
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<td>Yes</td>
</tr>
<tr>
<td><strong>Temperature &amp; Humidity Display</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Fan Type</strong></td>
<td>Axial</td>
<td>Axial</td>
</tr>
<tr>
<td><strong>Per-Cooling</strong></td>
<td>Option</td>
<td>Option</td>
</tr>
<tr>
<td><strong>Shut-down clean</strong></td>
<td>Option</td>
<td>Option</td>
</tr>
<tr>
<td><strong>Discharge type</strong></td>
<td>Down/Top/Side</td>
<td>Down/Top/Side</td>
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<tr>
<td><strong>Dimension (mm)</strong></td>
<td>1100 x 1100 x 950</td>
<td>1100 x 1100 x 980</td>
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<tr>
<td><strong>Pad size</strong></td>
<td>(675+30) x 790 x 100</td>
<td>(675+30) x 790 x 100</td>
</tr>
<tr>
<td><strong>Vent size (mm)</strong></td>
<td>642 x 642</td>
<td>642 x 642</td>
</tr>
<tr>
<td><strong>Packed Size (Full on Pallet)</strong></td>
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<td>1125 x 1125 x 965</td>
</tr>
<tr>
<td><strong>Load Quantity (Full) 20 / 40’gp</strong></td>
<td>20 / 40 pcs</td>
<td>20 / 40 pcs</td>
</tr>
<tr>
<td><strong>Airflow (CMH)</strong></td>
<td>180000</td>
<td>23000</td>
</tr>
<tr>
<td><strong>Pressure (pa)</strong></td>
<td>180pa</td>
<td>180pa</td>
</tr>
<tr>
<td><strong>Cooling Area (m2)</strong></td>
<td>100-150</td>
<td>120-180</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>1.1 KW</td>
<td>1.5 KW</td>
</tr>
<tr>
<td><strong>Noise</strong></td>
<td>73 db</td>
<td>75 db</td>
</tr>
<tr>
<td><strong>Water tank (L)</strong></td>
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<td><strong>Water inlet</strong></td>
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<tr>
<td><strong>Water Consumption (UH)</strong></td>
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</tr>
<tr>
<td><strong>Net Weight (KG)</strong></td>
<td>70 KG</td>
<td>75 Kg</td>
</tr>
</tbody>
</table>
Centrifugal Blower

**What is Centrifugal Blower:**
Centrifugal blowers are used in a wide range of air conditioning, ventilation, heating and clean room applications. A centrifugal blower intakes air through its center and directs it through a perpendicular opening in the housing. Unlike many other blowers, this is accomplished through an impeller, which is a vaned disk that increases pressure and flow of the gas being moved.

Centrifugal blowers find use in certain automotive applications; a centrifugal supercharger or turbocharger is basically a modified centrifugal blower. The boost generated from the supercharger is based on the speed of the blower, although care should be taken not to exceed the capacity of the engine, as this can lead to engine damage. Generally, when a turbo is not used, other blower types are preferred.

**Details of Centrifugal Fan**
- **Delivery & Suction size**: As per customer requirement.
- **Body Material**: MS Sheet.
- **Impeller**: Mild Steel / Stainless Steel / Aluminium Alloy
- **Impeller Size**: 5 Inch - 30 Inch.
- **Motor Brand**: ABB / Siemens / Crompton / China
- **Motor Grade**: IP-55 Grade
- **Electric Consumption**: 01 HP - 40 HP
- **Motor RPM**: 960/1440 / 2800
- **Volt**: 220 / 380 / 440 (1/3-Phase, 50 Hz)
- **Paint**: Powder coated.

Carpet or Floor drying Fan

**Floor drying fan** is specifically designed to speed up the drying process of carpet, hard floors and public toilet after cleaning by pulling warm, dry air from above and directing it across the floor, working at high-velocity airflow rates.

The use of floor drying fan and blower will provide the air circulation and targeted air flow that’s necessary to achieve thorough drying.

For best results, you should allow the floor dryer to operate on a 24/7 basis for up to a week after the carpet appears to be completely dry inside and out.

This ensures that no trapped moisture is remaining in the carpeting or padding.

**FLOOR DRYING FAN ADVANTAGES**
Using specialized tools for drying carpets and hard-surface floors can save you so much time and energy. Below are the advantages of floor drying fans and blowers:

- **Speedy drying** – can’t bear to walk on soggy carpets? It takes several days or weeks for carpets to dry without the intervention of a floor drying fan. Water damage specialists recommend drying carpets within 48 hours right after they have been cleaned to avoid the build-up of mold and mildew.

- A floor drying fan can significantly cut drying time and prevent the onset of hazardous microorganisms.

- **Highly portable** – despite their robust power and performance, industrial floor drying fans have a portable design that makes operation, transportation and application fast and easy. Targeted features – floors and carpets may be the hardest to dry because warm air doesn’t stay low in the ground. What makes floor blower effective is that they uniformly direct air across floors, something that standard fans cannot do.

Floor blower has profound uses and applications not only in property restoration but also in janitorial industry.
From the basic knowledge of the fan, the industrial axial fan, portable axial fan and misting fan, which is suitable for enterprises, companies, such large-scale enterprises use type. Voltage 220/440 available in ready stock.

**Industrial Portable Axial and Misting Fan**

**DRUM LOW NOISE BLOWER**

<table>
<thead>
<tr>
<th>Model</th>
<th>Spec (mm)</th>
<th>Power (W)</th>
<th>Speed (r/min)</th>
<th>Capacity (m³/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DZ(T)NO.3</td>
<td>300(12&quot;)</td>
<td>85</td>
<td>1400</td>
<td>24</td>
</tr>
<tr>
<td>DZ(T)NO.3.5</td>
<td>350(14&quot;)</td>
<td>120</td>
<td>1400</td>
<td>42</td>
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<tr>
<td>DZ(T)NO.4</td>
<td>400(16&quot;)</td>
<td>250</td>
<td>960</td>
<td>70</td>
</tr>
<tr>
<td>DZ(T)NO.5</td>
<td>500(20&quot;)</td>
<td>370</td>
<td>960</td>
<td>115</td>
</tr>
<tr>
<td>DZ(T)NO.6</td>
<td>600(24&quot;)</td>
<td>1100</td>
<td>960</td>
<td>200</td>
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</table>

**PORTABLE AXIAL BLOWER**

<table>
<thead>
<tr>
<th>Model</th>
<th>Spec (mm)</th>
<th>Power (W)</th>
<th>Speed (r/min)</th>
<th>Capacity (m³/min)</th>
<th>Dicing</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSF-25</td>
<td>250(10&quot;)</td>
<td>320</td>
<td>28000</td>
<td>42</td>
<td>10&quot;/5M</td>
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<tr>
<td>SF-30</td>
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<td>520</td>
<td>2800</td>
<td>60</td>
<td>12&quot;/5M</td>
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<tr>
<td>SF-35</td>
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<td>2800</td>
<td>82</td>
<td>14&quot;/5M</td>
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<tr>
<td>SF-40</td>
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<td>96</td>
<td>16&quot;/5M</td>
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<tr>
<td>SF-45</td>
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<td>1700</td>
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<td>125</td>
<td>18&quot;/5M</td>
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<tr>
<td>SF-50</td>
<td>500(20&quot;)</td>
<td>750</td>
<td>1400</td>
<td>150</td>
<td>20&quot;/5M</td>
</tr>
<tr>
<td>SF-55</td>
<td>600(24&quot;)</td>
<td>550</td>
<td>1200</td>
<td>190</td>
<td>24&quot;/5M</td>
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</table>

**MISTING STAND FAN/WALL FAN**

<table>
<thead>
<tr>
<th>Model</th>
<th>Spec (mm)</th>
<th>Power (W)</th>
<th>Speed (r/min)</th>
<th>Capacity (m³/min)</th>
<th>Water Tank Capacity (L)</th>
</tr>
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<tbody>
<tr>
<td>MFS-50</td>
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<td>180</td>
<td>1350</td>
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<tr>
<td>FS-60</td>
<td>650(26&quot;)</td>
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<td>1350</td>
<td>205</td>
<td>32</td>
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<tr>
<td>FS-65</td>
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<td>1350</td>
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<tr>
<td>FS-75</td>
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**INDUSTRIAL WALL FAN**

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<th>Model</th>
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<th>Power (W)</th>
<th>Speed (r/min)</th>
<th>Capacity (m³/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FB-65</td>
<td>650(26&quot;)</td>
<td>230</td>
<td>1400</td>
<td>205</td>
</tr>
<tr>
<td>FB-75</td>
<td>750(30&quot;)</td>
<td>350</td>
<td>1400</td>
<td>290</td>
</tr>
</tbody>
</table>

**Low Noise Ventilation Fan**

**Advantages of Low Noise Ventilation:**

We are specializes in custom engineered low noise fans for a spectrum of engine cooling, radiator, HVAC and refrigeration applications. The need for low noise fans has become vital for any hearing conservation program in accordance with the Occupational Safety & Health Administration’s Noise and Hearing Conservation Standards for workplace noise. These legislative measures outline provisions for noise mapping, protection against the effects of noise exposure, action plans for reduction, and set new noise emission standards for industries in America and around the world. Compliance is mandatory, and Multi-Wing is an unsurpassed resource for low noise fans.