



## The Tool Master & Engineering Co.

Quality of Excellence, product of Innovation, Transaction of Integrity

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THE TOOL MASTER & ENGINEERING CO.  
ESTD: 1983

ONE-STOP TEMPERATURE CONTROL  
SOLUTION SERVICE PROVIDER



[www.toolmasterbd.com](http://www.toolmasterbd.com)

# Our valued customer



# Our supplied product





## Overview

*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 Tongji, 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.*

## Scope of field:



# Drop Hammer Exhaust Fan

Imported from China



Model	Blade Diameter (mm)	Blade Rotation Speed (RPM)	Motor Rotation Speed (RPM)	Air Flow (M3/Hr)	Total Pressure (Pa)	Noise Desibels	Input Power (kw)	Rated Voltage (v)	Height (mm)	Width (mm)	Thickness (mm)
TMEC-1380 (54")	1250	439	1400	44000	56	<75	1.1	380	1380	1380	400
TMEC-1220 (48")	1100	460	1400	38000	73	<70	1.1	380	1220	1220	400
TMEC-1100 (42")	1000	600	1400	32500	70	<70	0.75	380	1100	1100	400
TMEC-900 (36")	750	630	1400	28000	65	<65	0.55	380	900	900	400
TMEC-800 (32")	710	660	1400	22000	60	<60	0.37	380	800	800	400
TMEC-600 (24")	508	700	1400	10000	50	<60	0.37	380	600	600	400



## ● Fan pulley

The pulleys are made of high-strength aluminum-magnesium alloy die-casting, light weight, 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 ways 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 blinds 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.



Model	Air Flow (CMH)	Power (w)	Voltage (v)	Diameter (mm)	Dimension (mm)
TMEC-400	2900	370	220/380	400	400x400x350
TMEC-500	3600	370	220/380	500	480x480x350
TMEC-600	14000	370	220/380	600	600x600x350

# 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 double sealed bearings, waterproof design, high strength, low noise, maintenance-free, and long service life;
- The stainless steel blade formed by Krupp one-time stamping is 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.



Model	Blade Diameter (mm)	Frequency (Hz)	Motor Rotation Speed (RPM)	Air Flow (M3/Hr)	Inport Power (w)	Noise Desibels	Rated Voltage (v)	Height (mm)	Width (mm)	Thickness (mm)
TMPP-1380	1270	50	<1400	48000	1100	<64	380	1380	1380	450
TMPP-1000	910	50	<1400	35000	750	<64	380	1000	1000	450



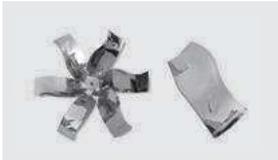
### ● Fan pulley

The fan pulley is made of high-strength aluminum-magnesium alloy die-casting, reducing weight, the impeller blades are complete, and high corrosion resistance. Reinforced rib design. Eliminate internal stress, improve its own rigidity and stability, will not break.



### ● 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 ways of making the air volume the same.



### ● Nylon Pull push system

The sliding mechanism can fully open the blinds, ensuring minimum air resistance and maximum air volume. When closed, it can effectively prevent wind, rain and dust.



### ● 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.

## FRP Wall Exhaust Fan

Glass Steel Exhaust Fan Imported From China and Taiwan



### 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 fully-sealed direct-connecting aluminum shell motor in the world, which will never rust, and effectively avoid the energy loss and maintenance costs caused by belt slippage and breakage.
- The cross-type 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-aging.
- FRP one-piece die-cast fan blades, light weight and high efficiency.



Model	Propeller Dia. mm/(Inch)	Fan blade Quantity	Rated Speed R/min	Air flow m <sup>3</sup> /h	Rated power Kw/HP	Voltage	Complete Size (mm)	Installation hole size
DLF-850	660/(25")	6	700	13000	0.37/0.5		850*850*450	800*800
DLF-1060	880/(36")	6	520	28000	0.55/0.75	380V/220V	1060*1060*560	1000*1000
DLF-1260	1080/(43")	6	520	40000	0.75/1	50HZ/60HZ	1260*1260*560	1200*1200
DLF-1460	1250/(50")	6	520	44000	1.1/1.5	3/1	1460*1460*600	1400*1400

## Roof Mounted Power Ventilation System



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-louver vents; attic fans... - and their effectiveness.

### Details of Roof Mounted Ventilation system

- 1) Body Material: FRP.
  - 2) Blade: Aluminum Alloy/FRP/S,S
  - 3) Number of Blade: 03 Pcs.
  - 4) Motor: IP 55 Grade F class insulation.
  - 5) Rain protection: FRP.
- Country of Origin Taiwan.

### Size: 48" (Inch)

Dimension: 239.6x160(94,70)cm  
 Max airflow: 46,500m<sup>3</sup>/Hr  
 Voltage/frequency: 380V/50Hz  
 Power: 1.5HP (IP 55 Grade - F class insulation)  
 Motor RPM: 700, Fan RPM: 650  
 Noise: 65 dB

### Size: 36" (Inch)

Dimension: 120x152(96,55)cm  
 Max airflow: 30,500 m<sup>3</sup>/Hr  
 Voltage/frequency: 380V/50Hz  
 Power: 01 HP (IP 55 Grade - F class insulation)  
 Motor RPM: 800, 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, Poultryies and Live stock farms.

# Natural Turbine Ventilation System



### 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:

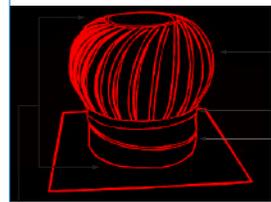
- Positive extraction removes heat, fumes, steam and dust.
- Improves productivity.
- Improves indoor air quality.
- Water and bird proof.
- Reduces structural damage.
- Protects stored goods.
- Human and environmentally friendly.

### 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

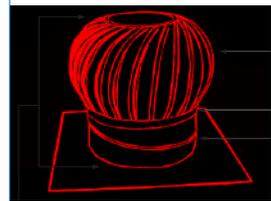


- Rotor Head/Wind blade Dia: 685 mm
- Rotor Head Collar Dia: 590 mm
- Neck Dia: 560 mm
- Neck height: 284 mm
- Total Height: 458 mm

Country of Origin: Taiwan



China origin Roof fan details

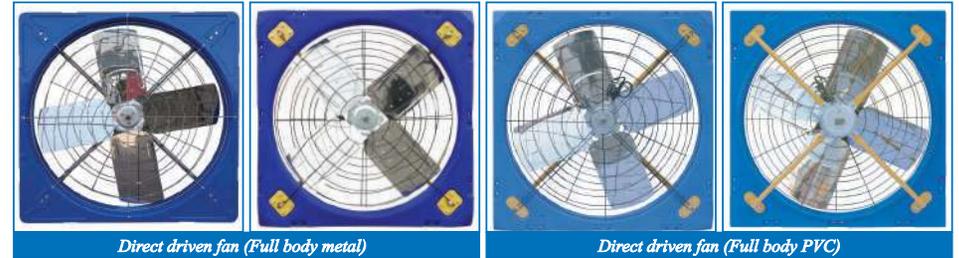


- Rotor Head/Wind blade Dia: 585 mm
- Rotor Head Collar Dia: 550 mm
- Neck Dia: 508 mm
- Neck height: 182 mm
- Total Height: 458 mm

Country of Origin: China

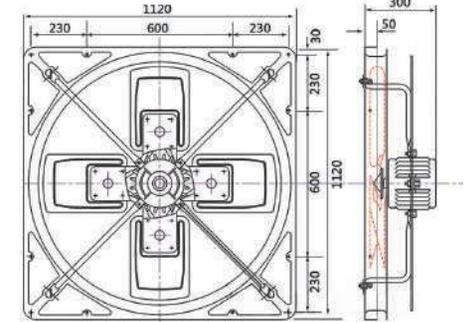
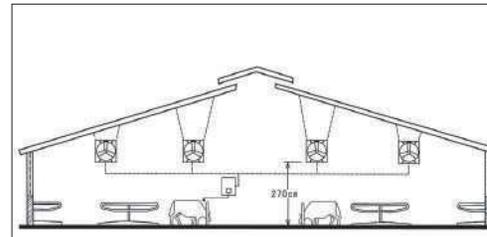


# Cow-House Hanging Fan



### 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.

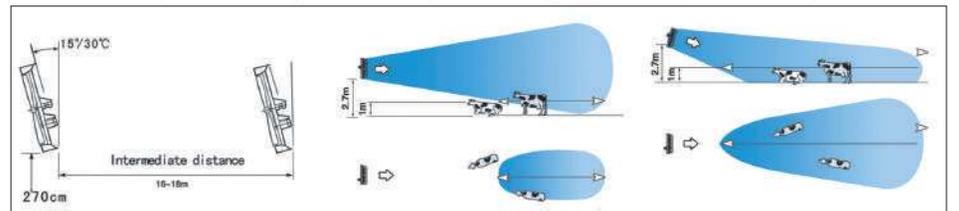


Belt driven fan technical data

Model specifications	Diameter blades (mm)	Blades rotational speed rpm	Motor rotational speed rpm	Air flow (m³/h)	(Pa) Total pressure	Noise decibels	(W) Input power	(V) Rated voltage	(mm) Height	(mm) Width	(mm) Thickness
DLFE-1375(50°)	1250	439	1400	46000	56	≤60	1100	380	1375	1375	365

Direct driven fan technical data

(model)	Diameter blades	Rated voltage	Pole	Frequency	Input power	Air flow
DJF(d)-1000	1000mm	380V	8	50HZ	400W	19800m³
DJF ( d ) -1000-2	1000mm	380V	10	50HZ	600W	30000m³



# 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.

Model	TMEC-HV-3600	TMEC-HV-5200	TMEC-HV-6200	TMEC-HV-7200
Fan Diameter (mm)	3600	5200	6200	7200
Number of Blade	5	5	5	5
Motor Power (kw)	1.1 kw	1.5 kw	1.5 kw	1.5 kw
Rated Voltage (V/PH/Hz)	380V, 3-P, 50Hz	380V, 3-P, 50Hz	380V, 3-P, 50Hz	380V, 3-P, 50Hz
The Maximum Air Speed (m/s)	3	3.5	4	4.5
The Maximum Rotate Speed (RPM)	65	62	58	55
Total Weight (kg)	100	105	110	115
Area Covered (m <sup>2</sup> )	900	1100	1300	1450

**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; Φ35mm 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.

# Dehumidifier

## What is dehumidifier:

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 8,500m<sup>3</sup>/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.



## Application Field:

Textile Factory (Dyeing, Finishing), Utility unit (Boiler, Generator room), Substation Room, Printing and packing room, Bakeries, Paper mills, Stores, Poultry and Live stock farms.

## 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

Power-off Protection

Trademark: DXSL or OEM

Specification: CE, ROHS, CCC, ISO9001

Origin: China

## Technical Information:

1. Model: M0H-7480BC

2. Moisture Removal: 480 L/D (30%, 80%RH)

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: 600-800m<sup>2</sup>

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

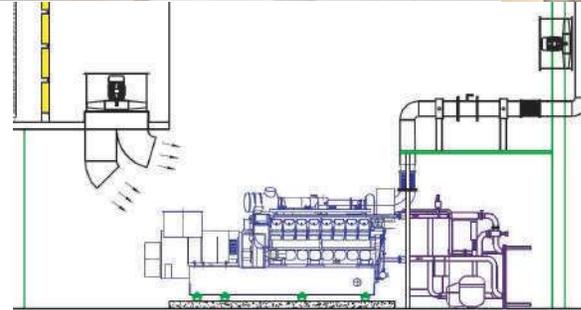
Ceiling fans are the most neglected appliances when people think about reducing electricity consumption in their house. Most people focus on lighting to fix their high electricity bills, but fans consume a lot more than lights. To give a perspective a regular ceiling fan consumes 75 Watts as compared 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.



	900MM	1050MM	1200MM	1400MM
SPAN(MM/INCH)	900/36	1050/42	1200/48	1400/56
WATTAGE(W)	28	32	28	35
AIR DELIVERY(CMM)	157	210	230	270
RPM	470	430	380	280
SERVICE VALUE	5.6	6.6	8.2	7.7
FREQUENCY(HZ)	48-52	48-52	48-52	48-52
POWER FACTOR	0.99	0.99	0.99	0.99
NO. OF BLADES	3	3	3	3
BEARING (DOUBLE)	Deep Groove Double sided Steel shielding			
REMOTE CONTROL (12 KEYS)	Speed Control, Boost Mode, Timer & Sleep Mode			



## 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 flowing 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 : 80o C.
- Max. working humidity : 80%
- Efficiency : F6-F8 (EN779:2002).
- 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



# Axial, Tube Axial fan & 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.



## Details Axial Fan

Country of Origin: Italy, Japan, Malaysia

Size: 600 mm - 1200 mm

Product Range: 5,000 M<sup>3</sup>/hr upto 200,000 M<sup>3</sup>/hr

(We can supply customer recommendation )

- 01) Body Material : MS / SS Sheet 4.0 - 6.5 mm Thickness. (Origin Japan)
- 02) Blade : 03-10 Pcs Aluminum Alloy per set. (Origin Japan)
- 03) Ball Bearing : NSK (Heat / Water Proof) (Origin Japan)
- 04) V-belt : Mitsubishi (Origin Thailand)
- 05) Inner Shaft : Carbon Steel (Origin UK)
- 06) Motor Brand : ABB/Siemens/Teco
  - Electric Power : 1.5 - 10.00 HP
  - Fan RPM : 1400
  - Motor RPM : 1450
  - Volt : 380.
  - Air Flow : 1,000 M<sup>3</sup>/hr - 40,000 M<sup>3</sup>/hr
- 07) Paint : Powder Coated.

### 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.

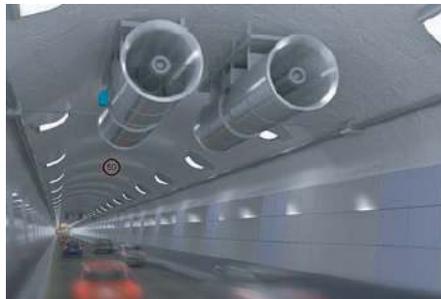


## Tunnel Ventilation Jet fan



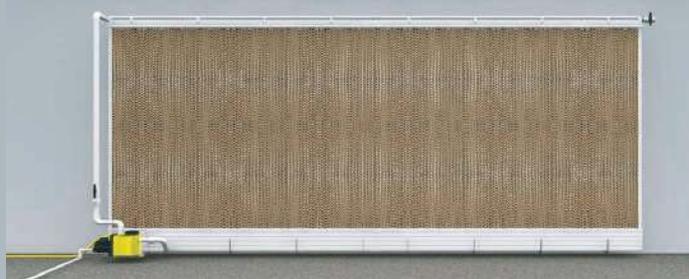
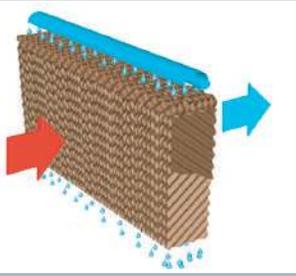
The need for tunnel ventilation is critical for the life and safety of any person utilizing the metro, rail or road tunnels throughout the world. Typically the equipment is used for smoke extraction or control for the time it takes people to evacuate the tunnel under emergency conditions. They are also utilized to control exhaust fumes and to provide standard ventilation when required.

There are three basic types of control that can be utilized: Portal to Portal, Shaft to Shaft and Portal to Shaft. These are used independently or in conjunction with each other. Fans utilized are both Axial, reversible and unidirectional as well as centrifugal.



# 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.



## 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.

## Gutter Frame System Parts

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

## Pipe system parts

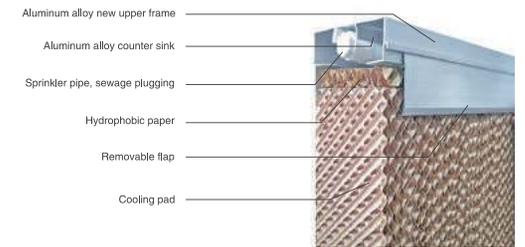
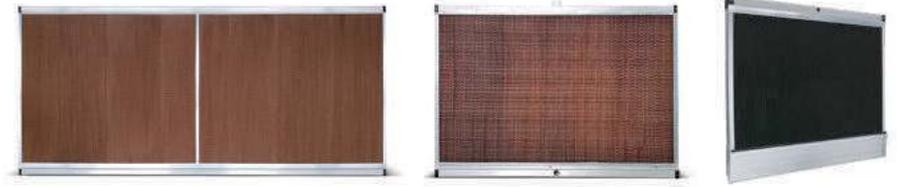
1. UPVc, Thread pipe
2. Tee.
3. Elbow.
4. Socket.
5. Nepple.
6. Union.
7. Gate valve.
8. Check valve, non-return valve.
9. Reducer socket.
10. Water pump.
11. Accessories.

## 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, dyeing and laundry, where have the hot workshop. As well as the shopping mall, the super market, waiting room and large indoor entertainment.



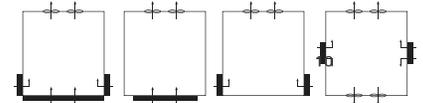
## Finished product display



## Instructions

- Water volume control: The water supply should make the wet curtain evenly soaked, and a fine water flow flows down the wet curtain ripples. 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 6-9, 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.

In the cooling system of the wet curtain-fan, the wet curtain is arranged opposite to the fan. The common layout of the wet curtain cooling system is as follows:



## Disassembly-free flushing

- When the water quality is not good enough to cause the shower pipe to be blocked, it can be directly rinsed with a high-pressure water gun without opening the water curtain frame, which is simple and practical.

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.

# Evaporative Air Cooler



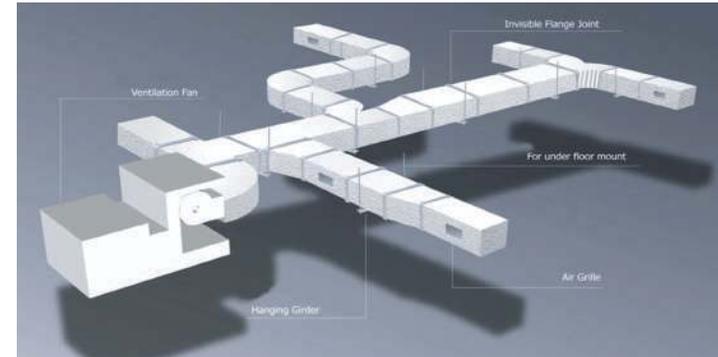
Down Discharge      Top Discharge      Side Discharge

Items	Model-18	Model-13	Model-30
Phase	Phase 3/ 1	Phase 3/ 1	Phase 3/ 1
Speed	1/Variable	1/Variable	1/Variable
Work Controller	LCD	LCD	LCD
Per-Dust Filter	Yes	Yes	Yes
Remote control	Yes	Yes	Yes
Auto Water Drain	Automatic	Automatic	Automatic
Overload Protection	Yes	Yes	Yes
Pump Protection	Yes	Yes	Yes
Loss Phase Protection	Yes	Yes	Yes
Temperature & Humidify Display	Yes	Yes	Yes
Fan Type	Axial	Axial	Axial
Per-Cooling	Option	Option	Option
Shut-down clean	Option	Option	Option
Discharge type	Down/Top/Side	Down/Top/Side	Down/Top/Side
Dimension (mm)	1100 x 1100 x 950	1100 x 1100 x 980	1350 x 1350 x 1200
Pad size	(675+30) x 790 x 100	(675+30) x 790 x 100	(850+30) x 450 x 100
Vent size (mm)	642 x 642	642 x 642	900 x 900
Packed Size (Full on Pallet)	1125 x 1125 x 965	1125 x 1125 x 965	1375 x 1375 x 1225
load Quantity (Full) 20-/ 40'gp	20 / 40 pcs	20 / 40 pcs	8 / 16 pcs
Airflow (CMH)	18000	23000	30000
Pressure (pa)	180pa	180pa	280pa
Cooling Area (m2)	100-150	120-180	200-250
Power	1.1 KW	1.5 KW	3.0 KW
Noise	73 db	75 db	80 db
Water tank (L)	40	40	60
Water inlet	Automatic	Automatic	Automatic
Water Consumption (UH)	15-20	15-20	25-30
Net Weight (KG)	70 KG	75 KG	115 KG



# Ducting 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.



## 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

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 it has 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.



# Industrial Portable Axial and Misting Fan



AXIAL FAN LOW NOISE

DRUM LOW NOISE BLOWER				
Model	Spec (mm)	Power (w)	Speed (r/min)	Capacity (m <sup>3</sup> /min)
DZ(T)NO.3	300(12")	85	1400	24
DZ(T)NO.3.5	350(14")	120	1400	42
DZ(T)NO.4	400(16")	250	960	70
DZ(T)NO.5	500(20")	370	960	115
DZ(T)NO.6	600(24")	1100	960	200

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.

PORTABLE AXIAL BLOWER					
Model	Spec (mm)	Power (W)	Speed (r/min)	Capacity (m <sup>3</sup> /min)	Ducing
SF-25	250(10")	320	28000	42	10"/5M
SF-30	300(12")	520	2800	60	12"/5M
SF-35	350(14")	750	2800	82	14"/5M
SF-40	400(16")	1100	2800	96	16"/5M
SF-45	450(18")	1700	2800	125	18"/5M
SF-50	500(20")	750	1400	150	20"/5M
SF-55	600(24")	550	1200	190	24"/5M



PORTABLE AXIAL BLOWER



MISTING FAN

MISTING STAND FAN/WALL FAN					
Model	Spec (mm)	Power (W)	Speed (r/min)	Capacity (m <sup>3</sup> /min)	Water Tank Capacity (L)
MFS-50	500(20")	180	1350	170	24
FS-60	650(26")	300	1350	205	32
FS-65	500(20")	180	1350	170	4
FS-75	650(26")	300	1350	205	4



INDUSTRIAL WALL FAN

INDUSTRIAL WALL FAN				
Model	Spec (mm)	Power (W)	Speed (r/min)	Capacity (m <sup>3</sup> /min)
FB-65	650(26")	230	1400	205
FB-75	750(30")	350	1400	290

# 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.



Diameter	Voltage	Frequency	Speed	Watts	Capacity	Noise
mm	V	Hz	RPM	W	CMH	dB(A)
300 (12")	220~240	50/60	1400/1720	80/100	1800/2100	54
400 (16")	220~240	50/60	1400/1720	150/150	3480/4080	58
500 (20")	220~240	50/60	1400/1720	280/320	6600/7800	65
600 (24")	220~240	50/60	960/1120	350/370	7800/8400	64