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Introduction

Perkins Blowers Co started manufacturing Fans & Blowers, General Ventilation and Air Pollutions Control Equipments way back in 2002. The plant is located in HSIDC Indl. Estate Kundli, Sonepat, Haryana, and equipped with latest Machines. Over these years the company has proliferated its technological base and bringing a wide range of High Pressure Blowers and Systems that are specially designed to meet the requirements of highly sophisticated industrial machines/ applications. Our manufacturing expertise ensures competitive, efficient, robust & energy-saving solutions. Those have acclaimed reputation India-wide for applications in processes involving hazardous, harmful or explosive gases.

Perkins Blowers have proven performance in pressure applications up to 1550 mm of WG. Also developed a new blower series to meet the requirement to meet abundant air quantity at low pressure and low power for general ventilation purpose. Ever since its inception, Perkins operating philosophy has been that of providing its customers with an international quality product at a significant price advantage. We have always focused on backing our excellent quality of production with an efficient after sales service to bring post purchase dissonance down to a negligible level. This has resulted in a situation where virtually no marketing is necessary and demand chases the supply.

Perkins has a well versed sales personnel who possesses years of experience in the field of application engineering and are capable of suggesting a best system for specific requirements; right from conceptualization, engineering, cost analyses, techno commercial report submission, designing, manufacturing, installation and maintenance. We hold the reputation of meeting the rated performance of the installed projects ensuring no time wastage of customer and thereby significantly earning the confidence of customer. We have state of the art facilities for designing and development using CAD & CAM facilities for designing our equipments.

Perkins also takes pride in our custom-tailored solutions that revolve around well-engineered products maintained at competitive prices. All our products are available in an assortment of construction materials including mild and stainless steel, aluminum, plastics or even special alloys to meet the dynamic requirements of application and adopt newer technology as per changing times.

Our motto "Excellence By Design", reflects our commitment to providing the best, from quotation to installation and beyond. We will do everything in our power provide excellence in service to our customers.

As the nature of our Business wherein the sizes are endless; our in-house tool room aids us in adopting and implementing dies, jigs, fixtures "Just in Time" and ensures to meet the delivery target and of course the surface finish of products under manufacturing.

We specialize in working with the following specified Industries: All process plant & Industries, Cement Industries, Textile Industries Spinning & Weaving units, Steel Industries steel re-rolling mills, furnaces, Engineering Companies, Chemical Industries Pharmaceuticals / Fertilizer plants, Glass & Ceramic Industries, Captive Power Plants (Diesel Generators / Turbine Houses/ Boilers), Soap / detergent Industry and many more

The nature of projects/ equipments we deal with:

- * Industrial Axial-Fans
- * Industrial Centrifugal Blowers
- * Evaporative Air Cooling Systems (Media & Spray Type)
- * Air Curtain (For Energy Conservation)
- * Roof Extractors
- * Cyclone Separator/Dust Collector
- * Bag Houses (Bag Dust Collectors)
- * Industrial Fume Exhaust Systems
- * Wet Scrubber (For Hazardous Gases)
- * Sound Proofing (D.G. Enclosure)
- * Air Filters (HVAC)
- * Air Control & Distribution Equipments (Dampers, Grills & Diffusers)

We also provide General purpose Ventilation Systems, Air Pressurization, and Energy Audit for Air Moving Equipments.



Precise Machineries (Profile Cutting)

Best Welding (MIG/TIG/Spot/Gas)

Exclusive Surface Finish

Computerized Testing (Dynamic Balancing)

Does your utility machineries consuming highe<mark>r energy</mark> and e<mark>rrodi</mark>ng your business margins; consult us for a perfect energy efficient remedy and experience the gain year after year. Hundreds of our "Monumental" projects speaks their performances on their own.



Industrial Axial Flow Fans

Perkins Axial Flow Fans covers a wide range of air quantities and pressures, and are suitable for common ventilation of plants as well as special industrial installations.

These fans have cast aluminum alloy impellers with high-efficiency aerofoil section blades. They are designed to optimized the relationship between air quantity, pressure, and power consumption.

These fans can be tailored to various arrangements according to need. Arrangement (X): Direct Driven Vane Axial Fans. Arrangement (Y): Indirect Driven (Belt driven) Vane Axial Fans.

The Vane axial fans are further classified as Fixed blade and Variable pitch Blade Fans.

Normally foot mounted motors are used to power the impeller in an direct driven arrangement. In applications where the temperature and/or quality of air does not allow to flow over motor, we manufacture axial fans power train in IP55 Enclosure using ball bearings and V-Belt drive arrangement; virtually all parts become unexposed to the handled air.

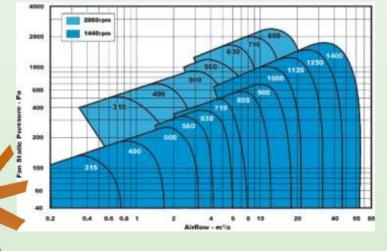
Vaneaxial Fans Die Casted Aluminum Fans

| Model | RPM | Motor | CAPACITY (CMH) AT VARIOUS STATIC PRESSURES | | | | | | | | | | Limit Load |
|---------|------|-------|--|--------|--------|--------|--------|-------|--------|--------|-------|-------|------------|
| | | HP | Free Delivery | 6mm | 12.5mm | 19mm | 25mm | 32mm | 38mm | 45mm | 50mm | 65mm | HP |
| PV-380 | 2860 | 1.5 | 7820 | 7650 | 7480 | 7200 | 6800 | 6375 | 5780 | | | | 0.056 |
| | 1400 | 0.25 | 3825 | 3340 | | | | | | | | | |
| PV-450 | 2860 | 5 | 13515 | 13300 | 13050 | 12800 | 12500 | 12070 | 11650 | 11100 | 10500 | 8925 | 0.14 |
| | 1400 | 0.5 | 6610 | 6050 | 4970 | | | | | | | | |
| PV-530 | 1440 | 1.5 | 10838 | 10250 | 9270 | 7900 | | | | | | | |
| | 930 | 0.5 | 6970 | 5780 | | | | | | | | | 0.303 |
| PV-610 | 1440 | 2 | 16150 | 15540 | 14580 | 13350 | 11690 | | | | | | |
| | 930 | 0.75 | 10405 | 9180 | | | | | | | | | 0.588 |
| PV-710 | 1440 | 5 | 25602 | 24900 | 24050 | 23000 | 21200 | 19720 | 17200 | | | | |
| | 960 | 1.5 | 17040 | 15850 | 13685 | | | | | | | | 1.27 |
| PV-815 | 1440 | 7.5 | 38080 | 37400 | 36380 | 35360 | 34000 | 32300 | | | | | |
| | 1440 | 10 | | | | | | | 30450 | 28220 | 24650 | | 2.47 |
| | 960 | 2.5 | 25330 | 24055 | 22100 | 19125 | | | | | | | |
| PV-915 | 1460 | 15 | 55040 | 54230 | 53300 | 52200 | 51000 | 49640 | 47770 | 45800 | 43180 | 37400 | 4.47 |
| | 960 | 5 | 36150 | 35020 | 32980 | 30100 | 26265 | | | | | | |
| PV-1065 | 960 | 10 | 57800 | 56270 | 54400 | 51700 | 48025 | 43690 | 38200 | | | | 9.65 |
| | 720 | 5 | 43265 | 40970 | 37000 | 31500 | | | | | | | |
| PV-1220 | 960 | 20 | 85765 | 83300 | 82650 | 80325 | 76840 | 42850 | 68200 | 62560 | 56000 | | 18.8 |
| | 720 | 7.5 | 64400 | 61880 | 58750 | | | | | | | | |
| | 720 | 10 | | | | 53800 | 47000 | | | | | | |
| PV-1370 | 970 | 30 | 123500 | 121890 | 119680 | 116960 | 113900 | | | | | | |
| | 970 | 35 | | | | | | 72845 | 106760 | 102000 | 96730 | 83250 | 33.8 |
| | 720 | 15 | 91530 | 89760 | 84830 | 80240 | 74800 | 66980 | 57000 | | | | |
| | | | | | | | | | | | | | |

(Higher sizes upto 1600 mm can be manufactured upon specific requirements)

Energy Efficient Fans

Perkins has developed a new Energy Efficient Series Fans of Al & GRP-Material to save the power up to 10% of the conventional fan impellers. These impellers have adjustable pitch blade (10 to 40 Deg.) and Operating temperature range from -40 to 110 Deg Cel. Max. & Efficiency 86%.





Vane Axial Fan, with Aluminum Blades in Direct Driven arrangement. Normally used for Industrial-purpose Ventilation and Exhaust applications.

Applications:

- · Textile Humidification
- · Captive Power Plant Ventilations
- · Generator Canopies
- · Supply Air
- · Exhaust/Venting applications



Vane Axial Fan with GRP Blades



Vane Axial Fan with GRP Blades (Energy Efficient Series) in Direct driven arrangement. Normally used for general-purpose ventilation and exhaust.

Applications:

- Generator Canopies
- · Exhaust Air Axial Flow Fan
- Roof Extractor
- · Booster Fans for in-line ducts etc.

Bifurcating Fan

Bifurcating Fan with Aluminum/GRP Blade. Normally used for High temperature & dusty air/fumes.

The Drive motor gets ventilation from a different chamber (usually exposed to atmosphere).

The process air is generally ducted at both ends of fans and travells without stricking electric motor.

A drop in efficiency of around 25% is to be reckoned for such selections.



Vane Axial Indirect Driven Fan



Vane Axial Fan with Aluminum/GRP Blade in Indirect Driven arrangement (V-Belt driven).

Normally used for High temperature & dusty air/fumes.

All the impellers are available in wide ranges of dia. and number of blades to achieve coverage entire applications possible. Each impellers is statically and dynamically balanced on micro processor controlled computerized machine as per IS-1940 balance quality grade G-6.3.



Centrifugal Fans

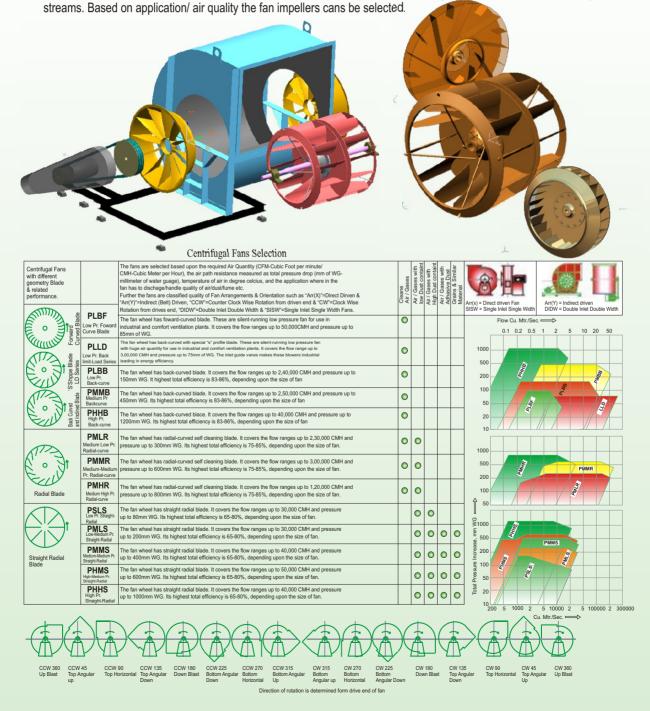
Perkins Centrifugal Fans are well engineered, high efficiency, Low noise air moving blowers, are manufactured with latest machineries to meet the requirement of process / clean air handling applications in Foundry, Power Plants, Engineering Industries and Cement Producing Plants.

These Fans are provided with single and multiple (Parallel or series operation) impellers to suit wide range of air discharge and pressure development combinations.

These Fans are made in a wide range of impeller sizes varying from 200 to 2750mm diameter having air-handling capacities of 500CMH to 3,00,000CMH, while the pressure developed by the fan could be as high as 1500 mm WG (Reference air/gas density of 1.20 Kg./cu.mtr.).

These Fans can be fabricated in Mild Sheet Steel/ SS-304/ SS-316-L/ SS-310/ Aluminum alloy & FRP Coated at reasonably higher thickness. We provide exclusive surface finishing & coating such as Hard Chrome grounded Shaft, Enamel/ Epoxy / PU/ Rubber seal paints.

The impeller blades are multibladed construction with its blade of special contour engineered to handle varied quality air



General Purpose Low Pressure Fan

LOW PRESSURE SERIES: These centrifugal air blowers are used where a large quantity of air at relatively low static pressure is required. These blowers finds applications in general purpose ventilation, air handling unit etc. and are available in SISW & DIDW construction. The low pressure centrifugal air blowers finds applications for wide variety of machineries as fitted by OEMs such as textile machine manufacturers, powder coating plants etc.



Industrial Purpose Medium Pressure Fan



These SISW blowers are used in various applications covering dust extraction / fume extraction and are widely used in cyclone separators, bag house dust collectors, both inlet and outlet are flanged to receive duct connections.

Industrial Purpose High Pressure Fan



These SISW blowers meets the heigest range of pressure upto 1200 mm Wg which can be achieved by using a centrifugal action. These are extremely used in wide variety of applications such as glass plant, furnaces, high pressure dust extraction systems, boilers, incinerators etc.

All the above mentioned models are made in various bill of materials such as Mild steel, stainless steel, Fibre glass reinforced plastic coated etc to meet various levels of operating temperature, corrosive nature, dust particle effect etc. the blade geometry and the air delivery angle is made as per site specific requirements as explained in our business catalogues pages.

Fan Fundamentals:

Air quantity (Volume flow Rate) q.,in Cubic Meter per unit of time (cu.mtr/sec)

Pressure p, in millimeter of water gauge (mm WG);

1mm WG= 1 Kgf/sq.mt.

The total pressure Pt is measure of the energy supplied to the air flow passing through the blower in quantum is an algebraic sum if the static pressure Ps. And the velocity pressure Pd.

Pt=Pd + (Ps)

The static pressure is equal to the manometer pressure as measured perpendicular to the direction of flow. The velocity pressure is measure of the kinetic energy of the air. It is calculated from the formula.

 $Pd = \frac{1}{2} \cdot 9.y.V.V)/g$

Where v is the air velocity in m/sec, y is the density if the air in kg.cu.m (which referring to a temperature of 20Deg. Cel. a relative humidity if 50% and barometric pressure of 760 mm mercury is equal to 1.2kg.cu.mt and g acceleration due to gravity = 9.81m/sec./sec..

The Power required Me; bhp

The power required is calculated from the formula

Me = $q \times Pt / 75. n$

Where n is the total (mechanical) efficiency of the blower.

OUR EMINENT CLIENTS

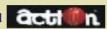
AARTI Steels Ltd



AffiniaMat India **Braking Pvt Ltd**



ACTION International



Amol Pharmaceuticals Pvt. Ltd.



Bosch Limited



Control & Switch Gear Co. Ltd.



Donaldson India Filteration Systems Pvt. Ltd.



Dabur India Ltd.



DLF Ltd.





Fiem Industries Ltd. Gillette India Ltd.



Gold Plus GlassIndl. Ltd.



GoodYear India Ltd



GlaxoSmithKline



HAFED



HCL Ltd.



HPCL-Mittal Energy Ltd.



Hindustan Nationa Glassl & Industries Ltd



Hindustan Gums & Chemicals Ltd.



Indomalt Processors P Ltd.



Hero Cycles Ltd.



ITC Limited (Food Division)



Jai Bharat Gums & Chemical Ltd.



J C Fasteners Ltd.



Jai Prakash Associates Ltd. (Cement Division)



JCBL Ltd.

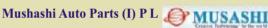


Lakshmi Precision Screws Ltd.



Mec Shot Blasting Equip PL





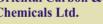
National Engineering Industries Ltd.(NBC)



OSRAM India Pvt. Ltd.



Oriental Carbon & Chemicals Ltd.





Poddar Tyres Ltd.



SABOO Coatings Ltd.



Semco Electric Pvt. Ltd.



Sunstar Overseas Ltd.



Shreyans Industries Ltd.



TCPL Packaging Ltd.



Tarang Kinetics Ltd.



TOYO Springs Ltd



VOGUE Textile Ltd.



Visteon Climate Systems India Ltd.





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