



CENTRIFUGAL BLOWER

DUSTECH CENTRIFUGAL BLOWERS/FANS

DUSTECH Industrial Centrifugal blowers are heavy duty, highly efficient line of material handling and air moving blowers, incorporating all the latest improvements to meet the requirement of applications in foundries, engineering industries and chemical plants etc.

DUSTECH Blowers are manufactured with air handling capacity of 300CMH to 2,00,000 CMH against system resistance upto 1,200 mm WG, at density of 1.2 kg/cu.m. And in two stage blowers upto 2,500 mm WG.



Single Inlet Blower



Limit Load Blower



Combustion Blower

The housing is of sheet steel, and completely welded construction with a circular inlet and rectangular outlet. For, bigger sizes, this housing are of horizontal-split type to provide easier access to the impeller. The housing is supplied in 16 different directions of discharge (as shown on front image)

The Impellers are multi bladed and constructed for smooth vibration free running. All impellers are suitably precision balanced. There are different types of wheels to suit different pressure range and application.



Straight Radial Blade



Backward Curved Blade



Self-Cleaning Blade



Limit Load Blade



Forward Curved Blade

STRAIGHT RADIAL BLADE

The blade is of rugged construction and is suitable for handling heavy and fibrous dust. This can also be used for Pneumatic Conveying System.

BACKWARD CURVED BLADE

This is an air wheel with backward curved blades of aerodynamic form to convey clean air and gas. This wheel has the highest efficiency. IT can be used in any Forced Draft Application.

SELF-CLEANING BLADE (Radial Blade)

This wheel has backward curved blades with radial tip and possesses self – cleaning properties. This Wheel is suitable for handling air, which contains fumes or light dry dust. Good Self Cleaning characteristics available with or without shroud& Impeller with hard facing on blower.

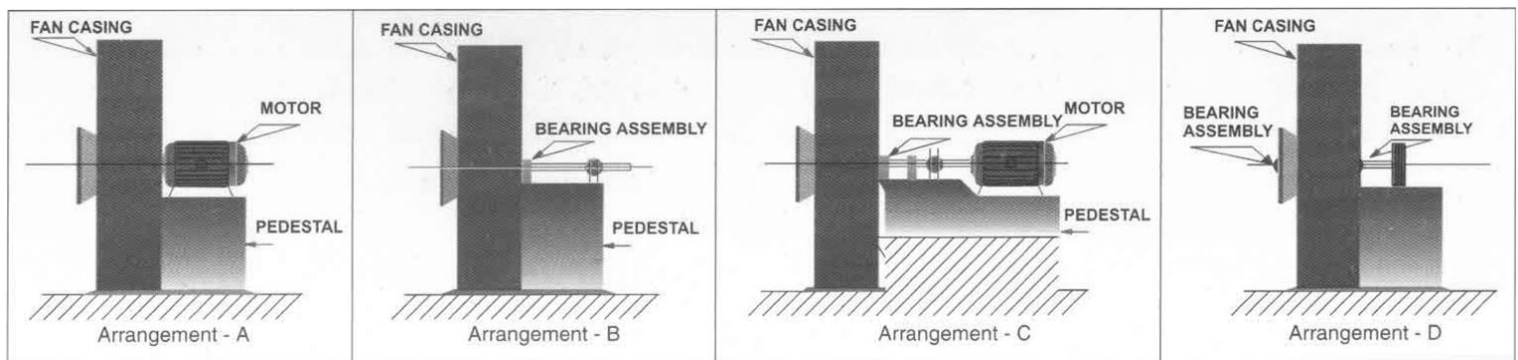
LIMIT LOAD BLADE

These blades has Backward cum Forward curved type i.e., S-type. The BHP consumption for particular RPM is limited at different pressure and hence called limit load. i.e., there will be slight variation of BHP at different pressure for particular RPM. These fans are heavy duty as compared to forward curved blade impeller fans and are used for Air Conditioning, Air cooling, and Ventilation Purpose etc.

FORWARD CURVED BLADE

The Blades of this impeller are bending towards to the direction of rotation. These blades are of light weight and are generally fabricated from GI/Aluminium sheet and are used for Air Conditioning, Air Cooling, and Ventilation Purpose etc.

DIFFERENT DRIVE ARRANGEMENTS



DIFFERENT DRIVE ARRANGEMENT

Four type of drive arrangement is provided.

Arrangement A:

The Impeller is directly mounted on the shaft. This arrangement is convenient when the speed of the blower corresponds to the rated motor speed. The motors to be used are horizontal foot mounted/flange type. The Maximum temperature permissible for this arrangement is 80°C.

Arrangement B:

The Impeller is directly mounted on the shaft supported by two Ball / roller bearings enclosed in a plumber block housing placed on a pedestal. This arrangement is preferred where the motor speed doesn't permit direct drive or for a desired speed of the impeller. The shaft is extended on one side to receive a pulley. Blowers of size 70 and above are supplied with split type housing. The maximum permissible temperature for this arrangement is 150°C but with cooling disc, the arrangement can handle upto 380°C.

Arrangement C:

The arrangement is a combination of both **Arrangement A** and **Arrangement B**. Here, the blower is supplied with an extended pedestal to accommodate both the bearing assembly unit and the AC motor. The wheel is mounted on a shaft. Supported by bearings on one side, and couples directly to the AC motor through a suitable coupling. This arrangement is suitable when the blower is required to run at a rated speed and at the same time keeping the motor away from the air stream. Inspection/ maintenance of motor is easy in this arrangement and is suitable for high temperature.

Arrangement D:

For Belt drive, the impeller is suspended between bearings, one on each side of housing, with pulley overhung. Furnished in single and double inlet fans.

These Industrial Blowers can be manufactured in Stainless Steel, Carbon Steel and Aluminium according to the requirement and application. Coating with special corrosive resistance paint or FRP lining can also be offered.

Type	Total Pressure Max.	Type	Total Pressure Max.	Type	Total Pressure Max.
DECBL	130 mm WG	DEMBM	450 mm WG	DEHBM	800 mm WG
DECSL	110 mm WG	DEMRM	600 mm WG	DEHRM	900 mm WG
DEMRL	300 mm WG	DEMSM	400 mm WG	DEHSM	500 mm WG
DEMSL	250 mm WG			DEHBH	1200 mm WG
				DEHSH	1100 mm WG

DUSTECH COMBUSTION AIR BLOWER

DUSTECH IS SPECIFICALLY MANUFACTURING HIGH PRESSURE SUPPLY AIR FAN FOR COMBUSION SYSTEM IN DIRECT DRIVE ARRANGEMENT. THE FAN CAN BE USED FOR OTHER APPLICATION AS PER THE TECHNICAL DATA GIVEN BELOW.

Medium Pressure (28" WG AT 20°C)

Model	H.P.	C.F.M	NM ³ /Hr.
DEHS 3/28	3	300	510
DEHS 5/28	5	550	930
DEHS 7.5/28	7.5	850	1450
DEHS 10/28	10	1200	2040
DEHS 15/28	15	1700	2890
DEHS 20/28	20	2200	3740
DEHS 25/28	25	3000	5100
DEHS 30/28	30	3500	5950
DEHS 40/28	40	4800	7900

HIGH Pressure (10" WG at 20°C)

Model	H.P.	C.F.M	NM ³ /Hr.
DEHS 5/40	5	400	680
DEHS 7.5/40	7.5	600	1020
DEHS 10/40	10	800	1360
DEHS 15/40	15	1200	2040
DEHS 20/40	20	1600	2720
DEHS 25/40	25	2000	3400
DEHS 30/40	30	2400	4080
DEHS 40/40	40	3200	5200

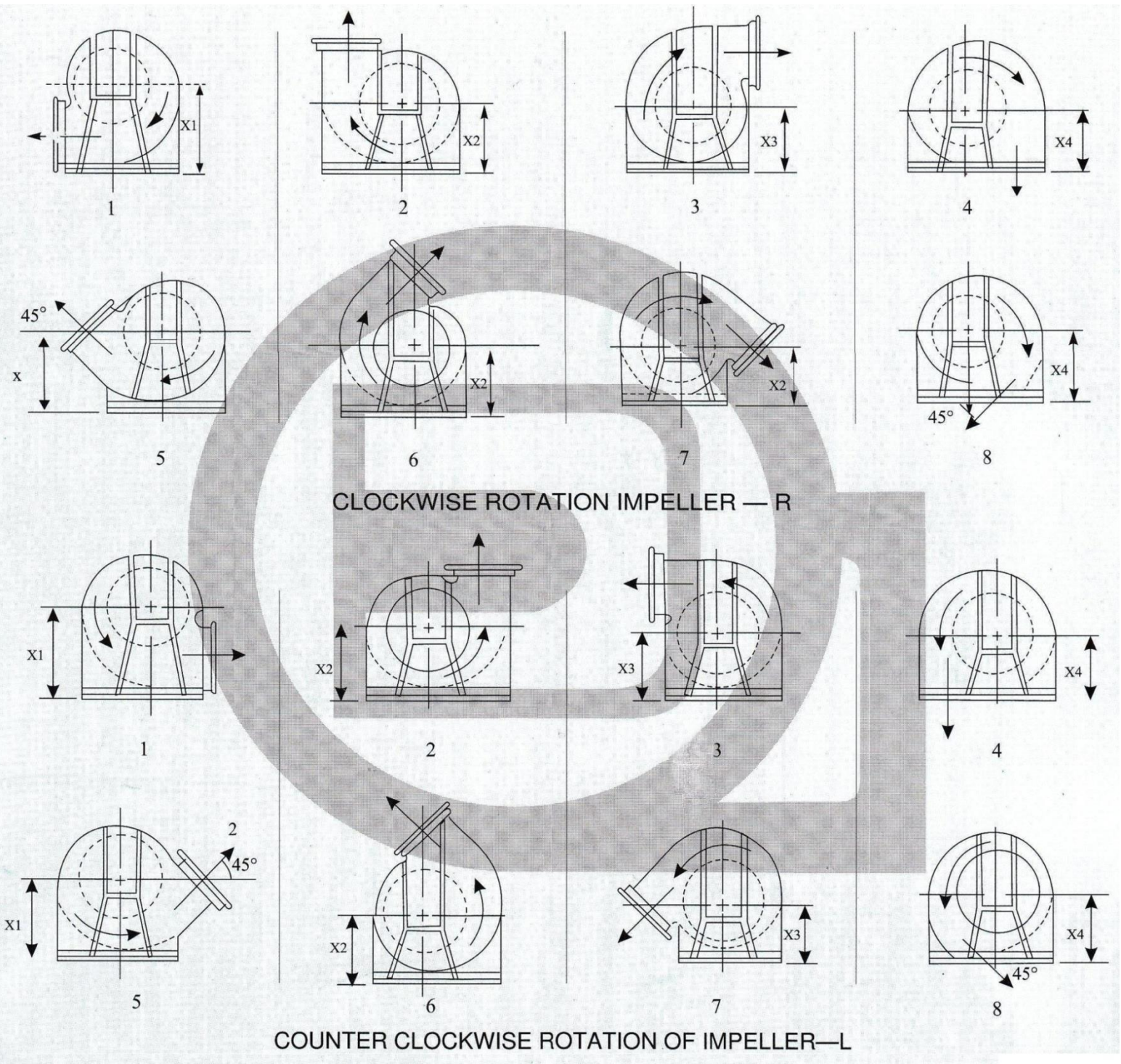
TO ensure us to Select the right fan for your requirement. Please send us the Following information

- Air/Gas Quantity (CFM/CMH)
- Static & Total Pressure (mmWG/InchesWG)
- Operating Temperature (C°/F°)
- Application
- Discharge Direction (As per next Page)
- Type of Drive required (Direct/V-belt)
- MOC
- Gas Density
- Dust Content & Type of Dust

***ANY SPECIAL REQUIREMENT**

*Dustech guarantees its products to be free of defects in materials and workmanship for a period of one year from date of delivery from the factory, provided motors are properly installed with overload protector.

ORIENTATION





Five Stars



Stability



Safety



Easy Maintenance



Power Saving



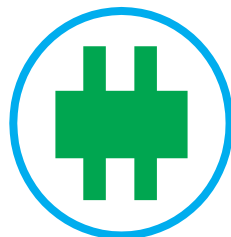
Cost Effective



Artistic



Convenience



Intelligence



Performance

OUR OTHER EQUIPMENTS:

- ‡ Centrifugal Blower
- ‡ Axial Flow Fan
- ‡ Bag Filter
- ‡ Cyclone

- ‡ Wet Scrubber
- ‡ Dry Scrubber
- ‡ Spiral-Round Duct
- ‡ Rectangular Ducting

- ‡ Air Washer
- ‡ ESP Fume Collection Unit
- ‡ ESP Oil Collection Unit
- ‡ Flat-Oval Ducting



DUSTECH



DUSTECH ENGINEERS PVT. LTD

Plot No. 7 B, 13/3 Mile Stone, Mathura Road, Faridabad-121001 [HR.] INDIA

Ph. : +91 129 4158076 E-mail: Dustech@rediffmail.com, Sales@dustech.in

Web: www.Dustech.in