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Axis Thermal ENGINEERING COMPANY

CENTRIFUGAL AIR BLOWER

COMBUSTION SYSTEM

Axis Centrifugal Air Blowers are used in the applications, where the requirement of air for combustion, suction, blowing, venturisuction, dust collection, and scrubbers etc.,



Axis Centrifugal Air Blowers are designed with impellers of backward & forward curved blades, materials of mild steel, aluminium, FRP, and Heat resistant – materials. Our blowers are designed in such a way with water cooling, jackets to operate with hot air of 350°C.

Axis centrifugal air blowers had three variants which are

1. Direct Drive (DD),
2. Belt Drive (BD),
3. Coupling Drive (CD).

Direct Drive

Impeller is mounted directly on the motor shaft. Therefore the speed of the impeller will be as same of motor used in ambient air handling requirements.

Belt Drive

Impeller will be mounted on the bearing shaft and it will be driven by the motor shaft through pulleys & belt. Impeller speed can be designed based on the customer requirements. But it has limitations like torque, pressure, volume and load current.

Coupling Drive

Impeller will be directly coupled with motor. This model is widely used in places where the requirements of motor load are huge. In this case, impeller speed will be as motor sped. But motor torque will be minimized on the impellers due to couplings.

Axis centrifugal air blowers are designed for Pressure

in of wg	2	4	6	8	10	12	16	18	22
mm of wg	50.8	101.6	152.4	203.2	254	304.8	406.4	457.2	558.8
Pascal	5080	10160	15240	20320	25400	30480	40640	45720	55880

in of wg	24	28	32	36	40	44	48	56	66
mm of wg	609.6	711.2	812.8	914.4	1016	1117.6	1219.2	1422.4	1676.4
Pascal	60960	71120	81280	91440	101600	111760	121920	142240	167640

Volume

In	cubic foot/min	100000 - 100
In	cubic meter/min	3531000 - 3531
Motor HP		
In	HP	1 HP - 150 HP
In	KW	0.75 KW - 113 KW

NOTE: Dimensions shown are subject to change. please obtain certified prints from Axis Thermal Engineering Company. If space limitations or other considerations make exact dimension(s) critical.

WARNING: Situations dangerous to personnel and property can develop from incorrect operation of combustion equipment. Axis Thermal urges compliance with National Safety Standards and Insurance Underwriters recommendations, and care in operation.

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