NAU SHAKTI®

RE BLOWERS
INDIA PVT. LTD.

The Power Of Innovation & Excellence

MANUFACTURER

3 PHASE AND SINGLE PHASE TURBINE BLOWER, SIDE CHANNEL BLOWER, INDUCTION MOTOR, AXIAL FAN, CENTRIFUGAL BLOWER, ROOT BLOWER CONSISTING **"NAUSHAKTI"** MAKE

TECHNICAL SPECIFICATION

Performance Data for blowers in Vacuum and Pressure Operation

Single Stage Models (NS Series)

MODEL	Phase (Single / Three)	Stage (Single / Double)	MOTOR		CAPACITY		PRESSURE		VACUUM	WEIGHT	INLET & OUTLE SIZE
			Kw	HP	M3/Hr	CFM Max	M BAR Max	PSI Max	M BAR Max	Kg	D inch
NS_50-SS	Single / Three	Single	0.37	0.5	90	53	90	1.26	-55	22	1.25
NS_75-SS	Single / Three	Single	0.55	0.75	100	59	125	1.75	-120	25	1.25
NS_100-SS	Single / Three	Single	0.75	1	200	118	140	1.96	-130	27	1.5
NS_150-SS	Single / Three	Single	1.1	1.5	220	129	155	2.17	-145	36	2
NS_200-SS	Single / Three	Single	1.5	2	280	165	200	2.8	-165	40	2
NS_300-SS	Single / Three	Single	2.2	3	350	206	225	3.15	-220	40	2
NS_500-SS	Three	Single	3.7	5	500	294	250	3.5	-245	83	2.5
NS_750-SS	Three	Single	5.5	7.5	620	365	270	3.78	-260	100	3.5
NS_1000-SS	Three	Single	7.5	10	800	471	350	4.9	-340	130	4
NS_1500-SS	Three	Single	11	15	1000	589	400	5.6	-385	150	5
NS_2000-SS	Three	Single	15	20	1500	883	460	6.44	-450	160	5.5

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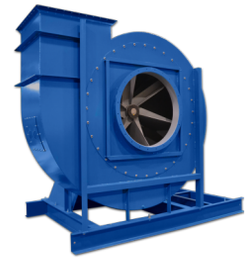
Double Stage Models (NS Series)

MODEL	Phase (Single / Three)	Stage (Single / Double)	MOTOR		CAPACITY		PRESSURE		VACUUM	WEIGHT	INLET & OUTLE SIZE
			Kw	HP	M3/Hr	CFM Max	M BAR Max	PSI Max	M BAR Max	Kg	D inch
NS_100-DS	Single / Three	Double	0.75	1	100	59	220	3.08	-195	27	1.5
NS_150-DS	Single / Three	Double	1.1	1.5	125	74	230	3.22	-210	36	2
NS_200-DS	Single / Three	Double	1.5	2	150	88	295	4.13	-290	40	2
NS_300-DS	Single / Three	Double	2.2	3	200	118	370	5.18	-365	40	2.5
NS_500-DS	Three	Double	3.7	5	350	206	430	6.02	-420	83	3
NS_750-DS	Three	Double	5.5	7.5	450	265	560	7.84	-550	100	3.5
NS_1000-DS	Three	Double	7.5	10	600	353	680	9.52	-670	130	4
NS_1500-DS	Three	Double	11	15	900	529	750	10.5	-740	-	5
NS_2000-DS	Three	Double	15	20	1600	936	900	12.6	-750	-	5.5





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Single Stage Models (RE Series)

MODEL	Phase (Single / Three)	Stage (Single / Double)	MOTOR		CAPACITY		PRESSURE		VACUUM	WEIGHT	INLET & OUTLE SIZE
			Kw	HP	M3/Hr	CFM Max	M BAR Max	PSI Max	M BAR Max	Kg	D inch
RE_50-SS-SP01	Single	Single	0.37	0.5	85	50	100	1.26	-55	22	1.25
RE_100-SS-SP01	Single	Single	0.75	1	100	59	150	2.18	-150	12	1.25 inch
RE_150-SS-SP01	Single	Single	1.3	1.5	210	124	170	2.47	-170	22	2 inch
RE_200-SS-SP01	Single	Single	1.5	2	210	124	200	2.90	-190	24	2 inch
RE_100-SS-TP01	Three	Single	0.75	1	100	59	150	2.18	-150	12	1.25 inch
RE_150-SS-TP01	Three	Single	1.3	1.5	210	124	170	2.47	-170	22	2 inch
RE_200-SS-TP01	Three	Single	1.5	2	210	124	200	2.90	-190	24	2 inch
RE_300-SS-TP01	Three	Single	2.2	3	265	156	220	3.19	-235	28	2 inch
RE_500-SS-TP01	Three	Single	4	5	700	412	140	2.03	-150	57	2.5 inch
RE_750-SS-TP01	Three	Single	5.5	7.5	530	312	300	4.35	-300	63	2.5 inch
RE_1000-SS-TP01	Three	Single	7.5	10	530	312	430	6.23	-320	66	2.5 inch
RE_1000-SS-TP01	Three	Single	11	15	900	530	400	5.6	-385	150	5
RE_1000-SS-TP01	Three	Single	15	20	1200	706	460	6.44	-450	160	5.5

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Double Stage Models (RE Series)

MODEL	Phase (Single / Three)	Stage (Single / Double)	MOTOR		CAPACITY		PRESSURE		VACUUM	WEIGHT	INLET & OUTLE SIZE
			Kw	HP	M3/Hr	CFM Max	M BAR Max	PSI Max	M BAR Max	Kg	D inch
RE_100_DS-SP01	Single	Double	0.7	1	85	50	240	3.48	-240	15	1.25 inch
RE_100_DS-TP01	Three	Double	0.7	1	85	50	240	3.48	-240	15	1.25 inch
RE_150-DS-TP01	Three	Double	1.3	1.5	110	65	290	4.21	-280	18	1.25 inch
RE_150-DS-SP01	Single	Double	1.3	1.5	110	65	290	4.21	-280	18	1.25 inch
RE_200-DS-SP01	Single	Double	1.5	2	140	82	320	4.64	-300	22	1.25 inch
RE_200-DS-TP01	Three	Double	1.5	2	140	82	320	4.64	-300	22	1.25 inch
RE_300-DS-TP01	Three	Double	2.2	3	150	88	440	6.38	-330	27	1.25 inch
RE_500-DS-TP01	Three	Double	4	5	230	135	490	7.11	-390	44	2.5 inch
RE_750-DS-TP01	Three	Double	5.5	7.5	500	294	260	3.77	-240	69	2.5 inch
RE_1000-DS-TP01	Three	Double	7.5	10	520	306	400	5.80	-400	86	2.5 inch

Note :

1. Blowers are also available with motors suitable for 60 Hz frequency and different operating voltages
2. Blower customization with FLP motor/other make motor can be accomodated subject to the requirement

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Features

Die Cast Impeller

Promotes smoother air flow and higher volumetric efficiency.

Thermal Protector Built - In

Protects the motors from overheating for greater reliability

Dynamically Balanced Impeller

Smoother operation, Allows vibration free installation in OEM equipment

Suction & Discharge Silencers

Reduces noise levels to below OSHA standards. Make it more comfortable for employees working rear the blowers

Double shielded shaft bearing

Better grease retention, increased reliability

Motor shaft-mounted impeller

Eliminates the need for couplings, belts or gears, Nothing to break or wear out.

Motors-Wide voltage & Frequency Range

Minimizes OEM inventory requirements

Dust-Proof Shaft Seal

Protect bearing from contaminants for longer life

Improved Cooling fan Design

Cools the motor and Blower, Quieter running and more efficient

Compact design

Space saving design makes it easier for OEM's to incorporate the blower into their equipment

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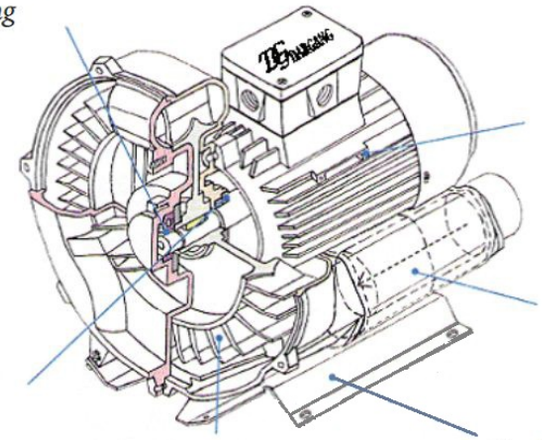
Products

- Side Channel Blower
- Turbine Blower
- Ring Blower
- Industrial Side Channel Blower
- Regenerative Blower
- Air Blower
- Centrifugal Blower
- Industrial Turbine Blower
- FRP Centrifugal Blower
- Root Blower
- Double Stage Turbine Blower
- Single Stage Vortex Blower
- Vertex Power Mizer Blower
- Double Stage Vortex Blower
- Vertex Blower
- High Vacuum Blower
- Double Stag Regenerative Blower
- 2 Stage Regenerative Blower

External bearing
Cool-running
Long life



Motor
Industrial quality 50/60Hz
Squired-cage motor
totally enclosed(IP55)
with F &H class insulation

Silencer
Built-in silencer

Shaft Seal
Motor protected by
maintenance-free shaft seal

Shock-absorbing mounting plate

High-efficiency die-cast
impellers for all types

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Principal of operation

This turbine blower is a non-positive displacements, high, volume, pressure, blower that can operate as either a compressor or a vacuum pump. It is also known as other names such as regenerative blower, vortex blower and side channel blower. All of the names describe the basic principle of operation of the blower.

The blower consist of an impeller mounted directly on a motor shaft and is rotated at a high speed of about 2900 R.P.M. on the periphery of the impeller are a large number of radial blades. The impeller is positioned between 2 end plates with the blades located with a channel on either side.

The turbine blower is ineffective, a multi stage compressor with each regeneration of the air becoming another "stage".

The basic construction of a turbine blower means that the only moving part is the impeller. Nothing touching except bearings. The method of compression means that there is no requirement for lubrication in the compression chamber. The discharge air is oil-less, no oil aerosols are present in the discharge air, nor carbon dust generated by sliding wanes. The blowers should be mounted vertically or horizontally.

Construction

Turbine blower is designed to meet the most critical application requirements. Each features an impeller, mounting base and housing manufactured of aluminum for maximum strength, reduced weight an increased corrosion resistance. The blower is constructed as a unit for mechanical simplicity and maximum structural integrity. The elimination of clutches, gears, belts and sliding vanes reduced periodic maintenance requirements while increasing reliability. All blower's impellers are dynamically balanced to virtual eliminate vibration while increasing overall long-termreliability. All the models have a shaft oil-seal between the impellers and bearing as well as double shield bearing to reduce the possibility of foreign material in influx and preclude air contamination.

Application

Air pollution monitoring equipments, hopper loader, vacuum lifting, gas transferring, Electroplating plant, Effluents treatment plant, waste water treatment plants, manufacturing of textiles, medical laboratory and measuring equipments, printing and paper handling, vacuum packaging, reprographics industry, aeration of fluids, pneumatic conveying, plastic industry, industrial ovens, vacuum cleaners.

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Side channel Blowers offer a wide field of application facilities wherever the use of air as energy supply leads to optimum results. The fields of application listed below present just a small summary therefore of the wide rang of possible uses of these units.

Application

- Pneumatic Air Tube Systems
- Pneumatic Conveying Systems
- Vacuum Cleaning Systems
- Vacuum Lifting Gear
- Vacuum Transport Systems
- Bottle Filling station
- Printing Machines
- Screen Printing Machines
- Air-Cushion Tables
- Drying Systems
- Welding Fume Extraction
- Textile Machinery
- Agriculture Machines
- Dental Equipment
- Water treatment
- Fish Pond Aeration
- Aquarium Aeration
- Aeration of Galvanic Tanks

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WORK

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