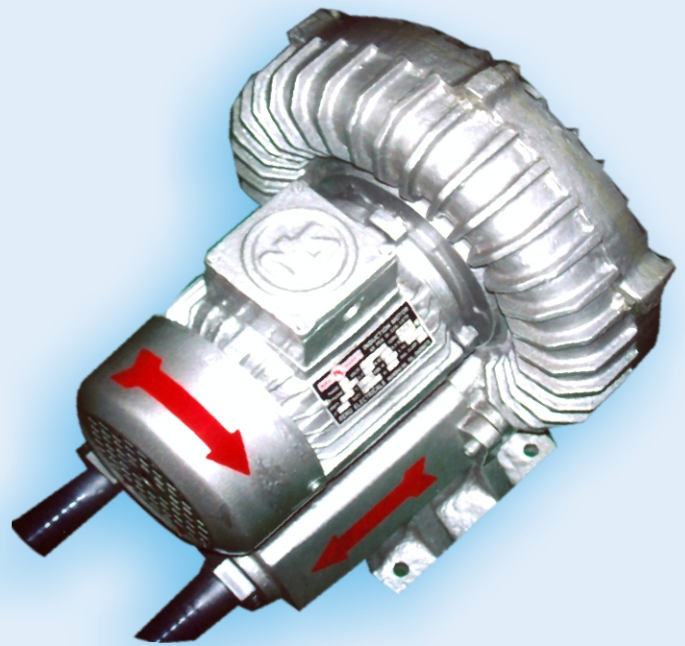


# RENU ELECTRICALS



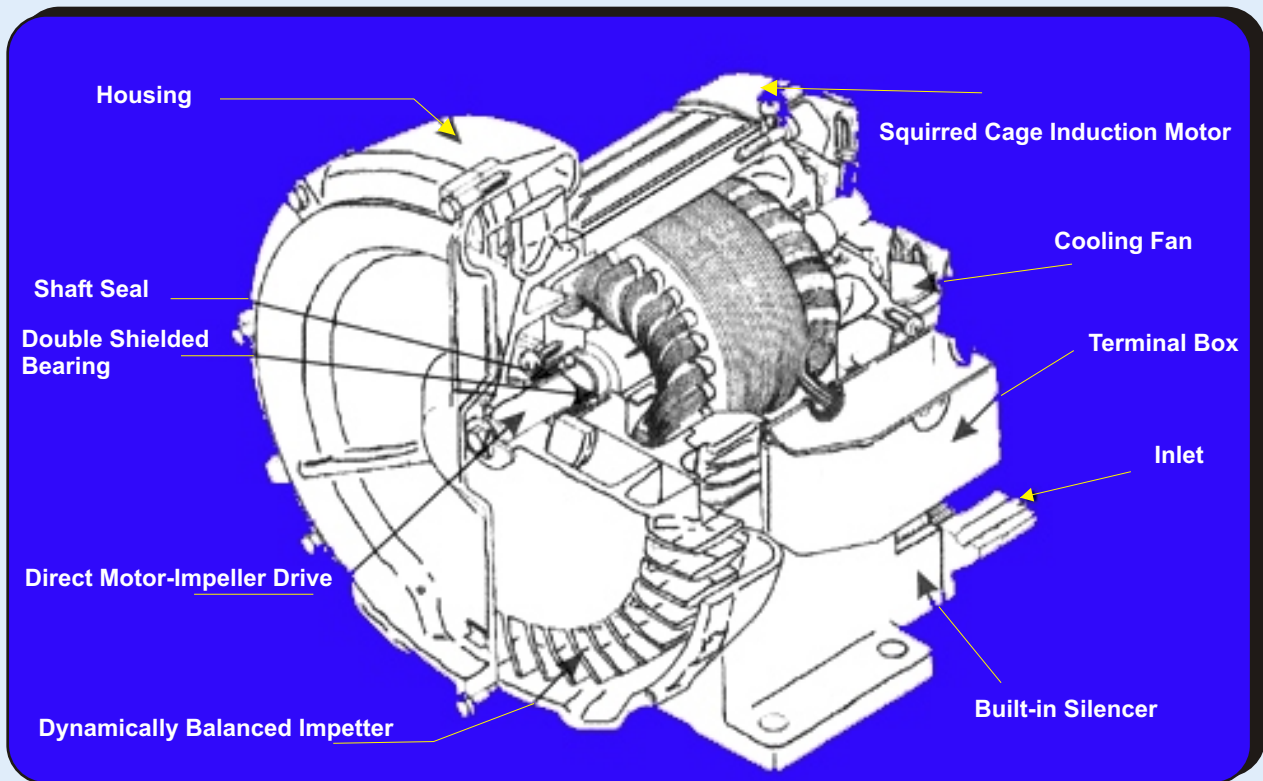
Manufacturer of :  
"NAUSHAKTI" Brand Induction Motors  
(Single & Three Phase),  
Turbine Blowers Twin Tri Lobe  
ROOT BLOWERS, Vibro Motors

Gala No. 121/308, Ashok Nagar, Cama Estate, Service Road, Opp. Indian Oil Petrol Pump, Goregaon (East),  
Mumbai - 400 063, INDIA, Tel : 022 - 6451 6502 Fax : 091- 022 - 2820 8275 Mobile : 09867068844, 09870439926

Email : [naushaktimotors@gmail.com](mailto:naushaktimotors@gmail.com),

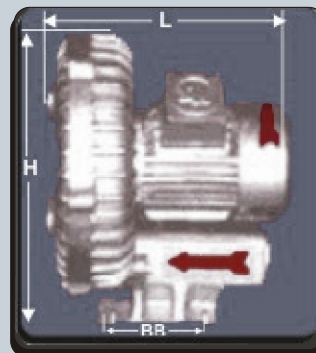
Website : [www.renuelectricals.net](http://www.renuelectricals.net), [www.naushaktimotor.com](http://www.naushaktimotor.com)

# Features



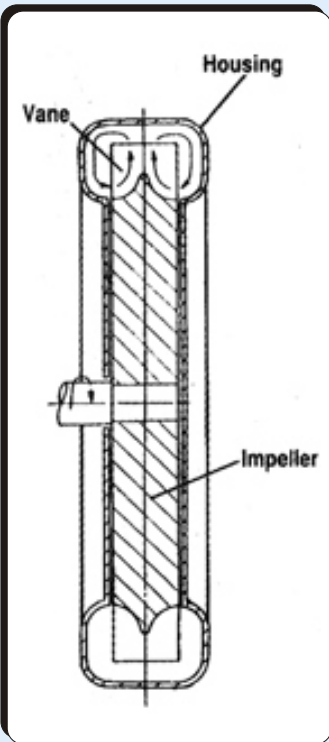
- **DIE CAST IMPELLER** - Promotes smoother air flow and higher volumetric efficiency.
- **THERMAL PROTECTOR BUILT-IN** - Protects the motors from overheating for greater reliability.
- **DYNAMICALLY BALANCED IMPELLER** - Smoother operation.  
- Allows vibration free installation in OEM Equipment.
- **SUCTION AND DISCHARGE SILENCERS** - Reduces noise levels to below OSHA standards Make it more comfortable for employees working near 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 AND FREQUENCY RANGE** - Minimizes OEM inventory requirements.
- **DUST PROOF SHAFT SEAL** - Protects bearing from contaminanats 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 equipments

# Technical Specification



Model	Motor	Capacity		Pressure		Vacuum	Height	Width	Length	Feet Size		Mounting	Weight	Inlet/Outlet Size
		M <sup>3</sup> /Hr	CFM	M BAR	PSI					M BAR	H mm.			
	Kw/HP	Max	Max	Max	Max	Max				mm	mm			
NS25-SS	0.18/0.25	50	29	60	0.84	50	250	253	250	120	210	8	14	1.00
NS50-DS	0.37/0.5	42	24	101	1.4	84	250	253	250	120	210	8	-	1.00
NS50-SS	0.37/0.50	90	53	90	1.26	76	320	310	305	120	230	8	22	1.25
NS100-DS	.75/1.0	77	45	151	2.1	126	320	310	305	120	230	10	-	1.25
NS-75-SS	0.55/0.75	120	71	125	1.75	105	345	335	335	120	265	10	25	1.25
NS-150-DS	1.1/1.5	102	59	210	2.94	175	345	335	335	120	265	10	-	1.25
NS-100-SS	0.75/1.0	200	118	140	1.96	118	360	330	365	120	265	10	30	1.5
NS-200-DS	1.5/2.0	170	99	235	3.29	195	360	330	365	120	265	10	-	1.5
NS-150-SS	1.1/1.5	250	147	155	2.17	130	360	350	365	120	265	10	36	1.5
NS-300-DS	2.2/3.0	212	123	260	3.64	217	360	350	365	120	265	10	-	1.5
NS-200-SS	1.5/2.0	300	177	180	2.52	151	360	350	400	120	265	10	40	2.00
NS-400-DS	3.0/4.0	255	148	302	4.23	252	360	350	400	120	265	10	-	2.00
NS-300-SS	2.2/3.0	400	235	225	3.15	189	420	410	390	95	285	10	49	2.5
NS-600-DS	4.0/6.0	340	197	378	5.29	316	420	410	390	95	285	10	-	2.5
NS-500-SS	3.7/5.0	500	294	250	3.50	210	420	410	450	95	285	12	51	2.5
NS-1000-DS	7.5/10	425	247	420	5.88	351	-	-	-	95	285	12	-	2.3
NS-750-SS	5.5/7.5	600	353	270	3.78	227	480	480	470	95	285	14	85	3.0
NS-1500-DS	11/15	510	296	450	6.3	376	-	-	-	95	285	14	-	3.0
NS-1000-SS	7.5/10	800	470	350	4.90	294	480	480	525	158	330	14	120	3.0
NS-2000-DS	15/20	680	394	588	8.24	491	525	637	650	158	330	14	-	3.0
NS-1500-SS	11.0/15.0	1000	588	400	5.60	335	-	-	-	158	330	14	-	3.0
NS-3000-DS	22/30	850	493	672	9.4	561	-	-	-	158	330	14	-	3.0
NS-2000-SS	15.0/20	1500	872	450	6.3	380	-	-	-	158	330	14	-	4
NS-4000-DS	37/40	1270	737	756	10.6	631	-	-	-	158	330	14	-	4

## Principal of Operation



This turbine blower is a non-positive displacement, high volume, high pressure, 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 consists 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, in effect, 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 touches except bearings. The method of compression means that there is no requirement for lubrication on the compression chamber. The discharge air is oil-less. No oil aerosols are present in the discharge air, nor carbon dust generated by sliding Vanes. 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 aluminium for maximum strength, reduced weight and 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 impellers are dynamically balanced to virtually eliminate vibration while increasing overall long-term reliability. All the models have a shaft oil-seal between the impellers and bearings 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 plant
- 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