

ROTARY TRI-LOBE BLOWERS

ISO 9001
ISO 14001
OHSAS 18001

For positive & negative conveying,
boosting and exhausting of air and
neutral gases

INDUSTRY



WATER



OIL & GAS



POWER



- Advanced design next generation
- Axcel series blower
- Durable
- Cost effective
- Energy efficient
- CE Certified



• Innovation • Technology • Excellence



ROTARY TRI-LOBE BLOWERS

SWAM PNEUMATICS is a leader in Rotary Blower technology with three decades of experience in design and manufacturing of blowers.

SWAM has acquired exceptional product development capabilities to meet the customer's stringent requirements for quality, performance and to conform to diversified specifications. Our focus has been on innovative design, precision engineering and responsiveness to customers.

Swam, offers its advance technology next generation AXCEL TR series blowers, equipped with exceptional features, providing benefits to users, improved reliability, better energy efficiency and lower maintenance costs.

Blowers are ruggedly built with appropriate rotor shaft design, aiming at low deflection. The rotors are supported on heavy duty antifriction oil lubricated bearings. The rotor profile of AXCEL series blowers are computer generated enabling better uniform clearances and higher volumetric efficiencies.

The blowers are manufactured on CNC Machines, ensuring high accuracy.

SWAM blowers are available for flow rate upto 65000 m³/hr and pressure upto 1.10 kg/cm² in single stage. Higher pressure blowers are available with special design features.

The blowers are suitable for continuous operation to work as compressors or as exhausters.

FOCUS ON QUALITY & RELIABILITY

Emphasis on quality & performance is a commitment of every individual at SWAM beginning at grass root level.

The quality control is practised at all levels of the organization and all its aspects are thoroughly complied with the specified standard and specification, till the product gets delivered.

The quality assurance system encompasses self quality control by each worker, supervised by quality control engineers. Each blowers undergoes thorough & stringent tests at different stages of manufacturing and are test run for several hours prior to despatch as per the relevant code, customer's specification & approved quality plan.

These functions are carried out by our team of dedicated, qualified & experienced engineers.

In pursuit and recognition there of, our products are accredited to ISO 9001:2008 certification. Our blowers comply to European standard of machinery directives and CE certified.

ADVANCE MANUFACTURING SYSTEM

Swam has the most advanced manufacturing systems with the large number of CNC Machines installed in our four plants. The blowers and all the accessories are manufactured with the most optimum profile resulting higher efficiencies, high displacement and lower slippage, providing better energy efficiency compared to other blowers available in the market.



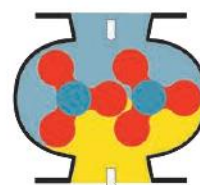
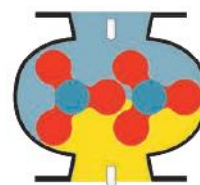
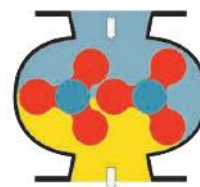
AXCEL TR SERIES

WORKING PRINCIPLE

The working principle of Tri-lobe blowers is similar to that of twin-lobe type. The rotors, move opposite each other, maintaining fine clearances, in perfect synchronization through a set of precision timing gears. As the rotation proceeds, the trapped gas moves along until it reaches the discharge port raising its pressure against the system resistance. The precise clearances within the blower makes possible the rise in pressure with least internal slip loss. The delivered air is pulsating, smooth and has lower sound emission.

AXCEL SERIES SALIENT FEATURES

- Ruggedly built for working under tough conditions, high load transmission and lower operating speeds.
- Computer generated AXCEL Series lobe-profile optimizes volumetric efficiency.
- Helical heavy duty timing gears, shrunk fit on rotor shafts improves reliability.
- Guaranteed oil free conveyance.
- Effective oil lubrication of bearings and gears, at both ends.
- Suitable for positive and negative conveying and for top or bottom suction.
- Side suction or side discharge arrangement available on select models.
- Special sealed models are available for gas conveying and vacuum application.
- Provided with pulsation dampners.
- Rotating Parts dynamically balanced to finer grades.
- Six number of bearings as minimum.
- Heavy Duty Shaft.
- Special double Acting Metallic Seals.

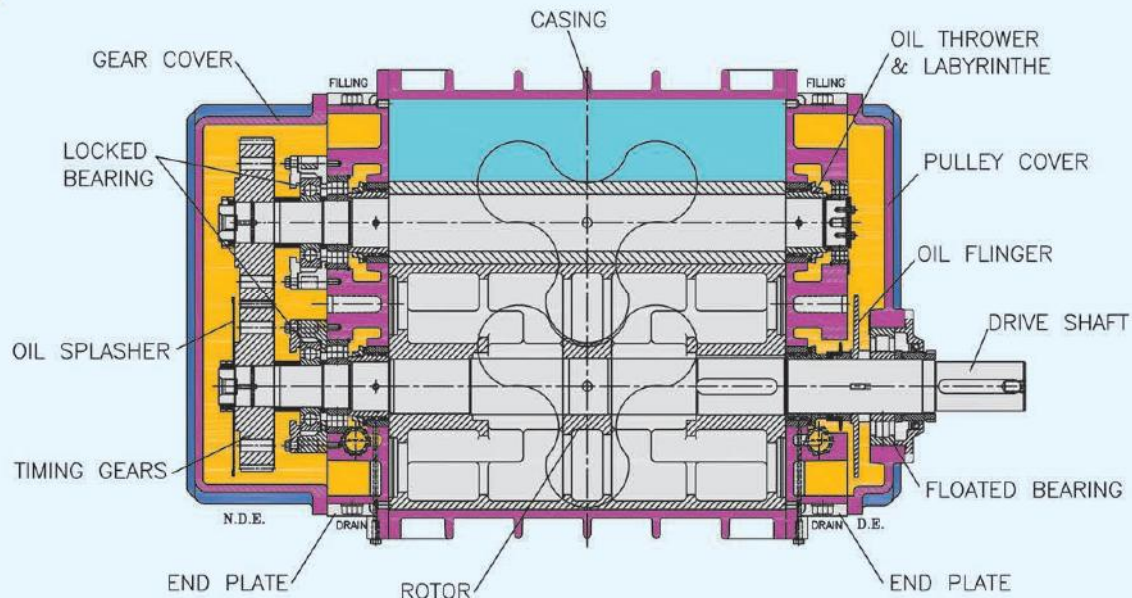


8600 cmh blower
Horizontal Flow



28000 cmh blower
for Steel / Metallurgical Industry

CROSS SECTION DRAWING



CASING

One piece Integral Grey or Ductile Cast Iron or Cast Steel casting options.

The surface of casting is adequately ribbed for strengthening against distortion on higher loads. Selective models have sound attenuating chambers on discharge. The suction flange is on the top and discharge is either at bottom or on the side.

SEALING

The compression chamber is sealed from the oil chambers through effective labyrinth seal provided with the neutral chamber and the air conveyed is guaranteed oil free. The drive shaft end has a lip seal riding on hardened and replaceable sleeve.

For conveying gases options are available - mechanical (M) and gland packed type (P).

LUBRICATION

Effective oil splash lubrication for gears and bearings is provided as standard for all blowers.

However, for certain specific application the blowers are provided with forced lubrication(L).

For blowers operating at low temperature heating arrangement is provided.

TIMING GEARS

The timing gears are hardened and ground, heavy-duty helical design to withstand wear. Fixing to the shaft is through press on tapers under high oil pressure.

ROTORS

Each Rotor has 3-lobes of computer generated profile optimizing volumetric efficiency.

The lobes are generally of fine grain Grey Cast or Ductile Iron and has pressed in steel shafts. The lobe material can also be SS or AL depending upon the process requirement. The ends of lobes are plugged when handling dust laden air.

The rotors of smaller blowers are available with forged steel with integral shaft. The rotors are dynamically balanced to very fine grade of 2.5 of ISO-1940 standard.

PERFORMANCE TESTING

The performance testing of the blower is carried out for several hours at the rated condition at the shop prior to dispatch as per SWAM standard test procedure.

Swam has shop testing facilities for testing up to 1500HP motors with voltages 415 V, 690 V & 6600V.

During testing various parameters are checked, such as rated flow, discharge pressure, absorbed power, vibration, noise, outlet temperature etc. as per the approved quality plan.

Each blower dispatched is supplied with a Factory Test report and a Guarantee Certificate.



Process Air Blower-41000 cmh,
Pressure of 0.88 Bar driven by 1300 kw motor.

HIGH SUCTION PRESSURE BLOWERS

The blowers for high suction pressure (H) are mechanically designed for withstanding such pressure and are provided with special seals, forced / external lubrication (L) system, bearing oil temperature and vibration monitoring system.

PROCESS GAS BLOWERS

The blowers are available in a wide range for handling different types of gases like Hydrogen, Hydrocarbon, Carbon Monoxide, Carbon Dioxide, Methane, Sulphur Dioxide, H₂S, Oxygen, Mixed gas, Coke Oven gas, Seal gas, Nitrogen, Helium etc.

The gas blowers are of unique design with different material of construction ranging from Alloy Cast Iron, Cast Steel, Aluminum, Phosphorus, Bronze, Brass etc & with special sealing system.

- They have provision for water injection for cooling the suction gas and for removal of dust.
- The oil chambers are completely separated from the compression chambers through air space open to atmosphere.
- The compression chamber is sealed through gland pack or mechanical seal(M).
- Large capacity blowers are provided with integral inbuilt pulsation dampner at discharge.
- Steam injector or purging facility is also provided depending upon application.



BLOWER PACKAGES STANDARD EXECUTION:

The standard blower package consists of:

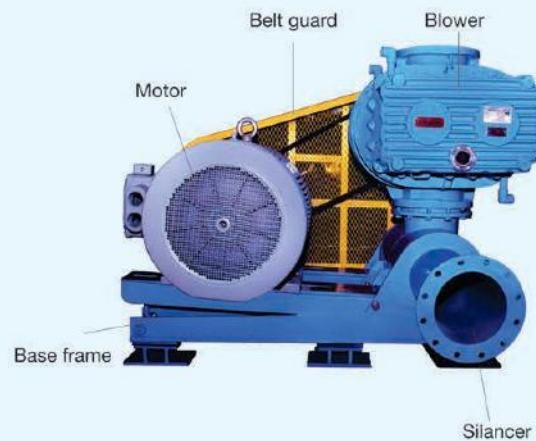
- Common skid for blower and motor.
- V-belts and pulleys or flexible coupling with protection guard.
- Pressure relief valve.
- Non return check valve.
- Suction filter.
- Suction and discharge silencers.
- Vibration isolators.
- Pressure gauge with isolation valve.
- Acoustic enclosure to reduce noise level <80 dbA @ 1 meter.
- Ventilation Fan & Motor.



OPTIONAL ACCESSORIES:

The standard blower package consists of:

- Blow off control valve with silencer.
- Special instrumentation for monitoring temperature, pressure & vibration.
- Heat exchanger-pre, inter or after cooler.
- Pressurized lubrication.
- Automatic unloading device (no load starting).
- Water injection system.
- Instrument control panel with alarm annunciators.
- Flow controller.
- Gear box drive.

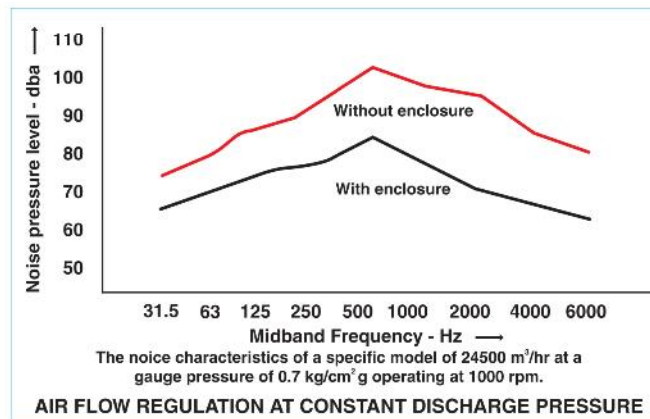


NOISE CHARACTERISTIC

The rotary machines generate high pitch sound due to its operational characteristic. This, however, depends on operating speed, differential pressure and on rotor geometry.

It can be reduced by using absorptive or reactive silencers, at the suction and discharge of the blower.

There is, however, limitation to the sound reduction by mere use of silencers. Sound proof acoustics enclosures are used for the further reduction up to 25 DBA.

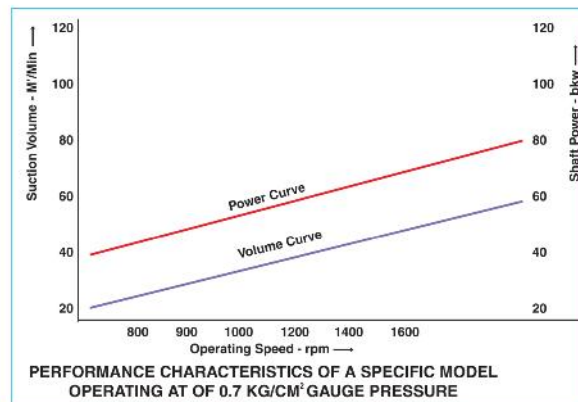


AIR FLOW REGULATION AT CONSTANT DISCHARGE PRESSURE

For regulating the flow of air at a constant discharge pressure either of the following methods can be adopted:

- Blower operates at constant speed and the excess air is vented or bypassed through a manually operated or an automatic pneumatic valves.
- By regulating blower speed through a variable frequency drive or by using a dual speed motor.

By FIRST method the energy absorbed by the blower remains constant, where as in SECOND method it reduces in proportion to the air delivered.



PERFORMANCE TABLE FOR AXCEL TR SERIES BLOWERS

FLOW RATE - FAD m³/hr. at Suction Conditions: Pressure - 760mm hg. Temperature - 20° C

PERFORMANCE DATA FOR HANDLING AIR AT POSITIVE PRESSURE

PRESSURE mmwg		1000		2000		3000		4000		5000		6000		7000		8000		9000		10000	
Model	Speed	FAD	KW	FAD	KW	FAD	KW	FAD	KW	FAD	KW	FAD	KW	FAD	KW	FAD	KW	FAD	KW	FAD	KW
RH-45TR	2900	458	1.50	439	3.0	423	4.5	410	6.0	396	7.5	382	9.0	370	10.5	357	12.0	346	13.5	335	15.0
	2000	298	0.95	279	1.9	261	2.90	242	3.85	228	4.8	214	5.75	202	6.7	189	7.65	--	--	--	--
	1450	200	0.68	181	1.36	162	2.04	145	2.72	138	3.4	117	4.10	--	--	--	--	--	--	--	--
RM-70TR	2900	653	1.90	625	3.8	606	5.7	591	7.6	577	9.5	564	11.4	525	13.4	--	--	--	--	--	--
	2000	425	1.30	399	2.6	379	3.9	365	5.2	351	6.5	337	7.8	323	9.1	--	--	--	--	--	--
	1450	286	1.00	260	2.0	240	3.0	224	4.0	212	5.0	199	6.0	180	7.0	--	--	--	--	--	--
RH-80TR	2900	1019	3.00	980	6.0	950	8.9	926	11.9	9.5	14.8	886	17.8	870	20.7	853	23.7	837	26.7	821	29.6
	2000	711	2.20	673	4.4	642	6.6	618	8.8	597	11.0	578	13.2	562	15.4	546	17.6	529	19.8	512	22.0
	1450	523	1.60	484	3.2	454	4.8	430	6.4	409	8.0	390	9.6	373	11.2	357	12.8	--	--	--	--
RM-100TR	2900	1611	4.50	1562	9.0	1523	13.5	1491	18.0	1460	22.5	1433	27.0	1411	31.5	--	--	--	--	--	--
	2000	1094	3.15	1043	6.3	1005	9.5	972	12.6	942	15.6	915	18.6	893	21.8	--	--	--	--	--	--
	1450	806	2.30	723	4.6	718	6.9	684	9.2	655	11.5	627	13.9	--	--	--	--	--	--	--	--
RL-110TR	2900	1933	5.40	1874	10.80	1827	16.20	1789	19.60	1752	27.00	1719	32.40	--	--	--	--	--	--	--	--
	1800	1200	3.78	1150	7.60	1103	11.40	1056	15.10	1009	18.70	962	22.30	--	--	--	--	--	--	--	--
	1450	967	2.76	920	7.60	873	8.30	826	11.20	779	13.80	732	16.50	--	--	--	--	--	--	--	--
RH-120TR	2900	2315	6.30	2243	12.5	2188	18.8	2145	25.1	2106	31.4	2072	37.6	2054	43.3	2018	50.2	1996	56.4	1974	62.7
	1800	1378	3.90	1319	7.8	1273	11.8	1233	15.7	1201	19.6	1170	23.5	1143	27.4	1119	31.4	1101	35.3	1074	39.2
	1450	1080	3.10	1020	6.2	974	9.3	936	12.4	903	15.5	873	18.6	845	21.7	821	24.8	798	27.9	--	--
RM-180TR	2900	3164	8.20	3080	16.4	2996	24.6	2916	32.8	2945	41.0	2066	49.2	2039	57.4	2012	65.6	1988	73.8	--	--
	2200	2534	4.55	2450	9.1	2396	13.6	2349	18.2	2311	22.7	2277	27.3	2248	31.8	2219	36.7	2190	40.9	--	--
	1450	1640	4.50	1557	9.0	1501	13.5	1450	18.0	1416	22.5	1383	27.0	1353	31.5	1324	36.0	--	--	--	--
RH-200TR	2900	4586	13.10	4503	26.2	4437	39.3	4381	52.4	4338	66.5	4299	78.6	4260	92.0	4228	104.8	4201	117.9	4199	131.0
	1800	2878	7.90	2795	15.8	2725	23.7	2673	31.6	2629	39.5	2590	47.4	2550	55.3	2511	63.2	2475	71.1	2443	79.0
	1460	2260	6.50	2361	13.0	2111	19.5	2055	26.0	2011	32.4	1972	39.0	1933	45.5	18940	52.0	1858	58.5	--	--
RM-290TR	2000	3958	11.00	3848	22.0	3765	33.0	3693	44.0	3643	55.0	3048	66.0	3010	77.0	2971	88.0	2944	99.0	--	--
	1460	3243	9.20	3133	18.8	3050	27.6	2978	36.8	2918	46.0	2865	55.2	2816	64.4	2766	73.6	2722	82.8	--	--
	1200	2608	7.30	2498	14.6	2416	21.9	2346	29.2	2283	36.5	2230	43.8	2180	51.1	2131	58.4	--	--	--	--
RL-300TR	1460	4185	12.30	4137	24.6	4089	36.9	4041	49.2	3993	61.5	3949	73.8	--	--	--	--	--	--	--	--
	1200	3536	10.50	3486	21.0	3436	31.5	3386	42.0	3336	52.5	3286	63.0	--	--	--	--	--	--	--	--
	985	2904	8.60	2855	17.2	2806	25.2	2457	33.6	2708	41.8	2659	50.0	--	--	--	--	--	--	--	--
RL-310TR	1460	7000	23.00	6905	46.0	6815	69.0	6730	92.0	--	--	--	--	--	--	--	--	--	--	--	--
	1200	5830	19.00	5730	38.0	5630	57.0	5530	76.0	--	--	--	--	--	--	--	--	--	--	--	--
	985	4570	16.00	4760	32.0	4690	48.0	4600	64.0	--	--	--	--	--	--	--	--	--	--	--	--
RH-320TR	1460	5232	14.40	5089	28.8	4979	43.2	4885	57.6	4802	72.0	4725	86.4	4659	100.8	4599	115.2	4543	129.6	4494	144.0
	1200	4421	12.30	4277	24.6	4167	36.9	4074	49.2	3991	61.5	3914	73.8	3848	86.1	3787	98.4	3731	110.7	3682	123.0
	985	3630	10.20	3486	20.4	3375	30.6	3282	40.8	3199	51.0	3122	61.2	3056	71.4	2995	81.6	2940	91.8	--	--
RM-450TR	1460	7598	20.90	7410	41.8	7261	62.7	7135	83.6	7025	104.5	6942	125.4	6871	146.3	6805	167.2	6744	188.1	6688	209.0
	1200	6094	17.30	5907	34.6	5758	51.9	5631	69.2	5520	86.5	5439	103.6	5366	121.1	5300	138.4	5240	157.7	4938	173.0
	985	5075	14.30	4888	28.6	4739	42.9	4612	57.2	4502	72.3	4420	86.6	4348	100.9	4281	115.2	4222	129.6	--	--
RL-500TR	1460	8910	28.5	8705	57.0	8548	85.0	8413	113.0	8293	142.0	8173	171.0	8060	200.0	--	--	--	--	--	--
	1200	7362	23.4	7162	46.8	7000	70.2	6865	93.6	6745	117.0	6625	141.0	6510	165.0	--	--	--	--	--	--
	985	6077	19.3	5877	38.6	5712	57.9	5580	77.2	5460	96.5	5340	117.8	5225	137.1	--	--	--	--	--	--

WIDE SELECTION : The blowers are available in many sizes covering air and water cooled versions suiting specific application. The sealing system, can be standard of mechanical (M) or gland packed (P) seal depending on system requirement and on customer's choice.

The Suffixes used indicate :

G - Gas Duty	WI - Water Injection	M - Mechanical Seal
V - Vacuum Application	L - Force Lubrication	WC - Water Cooled
P - Grand Packed	H - High Inlet Pressure	L - Lube Oil Cooling

To illustrate : Model : RH320 WCGML = Gas duty blower model RH320, water cooled, fitted with mechanical seal and with force lubrication.

PERFORMANCE TABLE FOR AXCEL TR SERIES BLOWERS

FLOW RATE - FAD m³/hr. at Suction Conditions : Pressure - 760mm hg. Temperature - 20° C

PERFORMANCE DATA FOR HANDLING AIR AT POSITIVE PRESSURE

PRESSURE mmwg		1000		2000		3000		4000		5000		6000		7000		8000		9000		10000	
Model	Speed	FAD	KW	FAD	KW	FAD	KW	FAD	KW	FAD	KW	FAD	KW	FAD	KW	FAD	KW	FAD	KW	FAD	KW
RL-550TR	1460	12100	39.0	11990	78.0	11800	117.0	11675	156.0	--	--	--	--	--	--	--	--	--	--	--	--
	1200	9900	32.0	9760	64.0	9660	96.0	9500	128.0	--	--	--	--	--	--	--	--	--	--	--	--
	985	7990	26.0	7890	52.0	7790	78.0	7680	104.0	--	--	--	--	--	--	--	--	--	--	--	--
RH-600TR	1300	9817	27.4	9569	54.9	9376	82.3	9214	109.8	8640	137.2	8516	164.0	8389	192.1	8304	219.5	8220	247.0	8146	274.4
	1150	8708	24.3	8067	43.7	8305	72.9	8162	97.2	7654	121.5	7548	145.8	7459	170.1	7380	194.4	7312	218.7	7249	243.0
	985	6730	18.9	6510	37.8	6332	56.7	6150	75.7	5874	94.6	5669	113.5	5584	132.4	5506	151.4	5437	170.0	--	--
RH-1000TR	1250	12526	35.8	12274	71.5	12069	107.3	11865	143.1	11697	178.9	11560	214.6	11435	250.4	11335	286.2	11193	321.9	11088	357.7
	985	9702	27.8	9450	55.7	9245	83.5	9040	114.3	8827	139.2	8614	167.0	8401	194.8	8288	222.7	8054	250.5	7790	278.3
	850	8234	23.9	8041	47.8	7837	71.7	7632	95.6	7453	119.6	7306	143.5	7191	191.3	7071	215.2	6950	219.6	6829	239.1
RH-1150TR	1250	14190	41.9	13950	83.8	13755	125.7	13560	167.6	13470	209.5	13320	251.4	13170	293.3	13020	335.2	--	--	--	--
	985	11180	33.0	11100	66.0	10960	99.0	10660	131.0	10440	163.0	10280	195.0	10130	227.0	9990	262.0	--	--	--	--
	850	9648	28.6	9580	57.2	9440	85.8	9013	114.4	8863	143.0	8713	171.6	8573	199.0	8433	227.8	--	--	--	--
RM-1250TR	1250	16710	50.0	16360	100.0	16060	149.9	15700	199.9	15520	249.9	15360	299.9	15220	349.9	--	--	--	--	--	--
	985	12915	38.8	12556	77.6	12256	116.4	12016	155.2	11816	194.0	11636	232.8	11516	271.7	--	--	--	--	--	--
	850	11040	33.1	10680	66.2	10380	99.4	10140	132.5	9900	165.6	9760	198.7	9640	231.9	--	--	--	--	--	--
RM-1350TR	1200	17665	63.0	17355	125.0	17045	188.0	16765	251.0	16505	314.0	16245	377.0	--	--	--	--	--	--	--	--
	985	14500	51.0	14200	101.0	13900	152.0	13728	203.0	13490	252.0	13240	302.0	--	--	--	--	--	--	--	--
	740	10894	39.0	10604	77.0	10314	116.0	10044	155.0	9774	192.6	9504	231.0	--	--	--	--	--	--	--	--
RH-1500TR	985	15750	65.0	15465	113.0	15195	161.0	14935	209.0	14680	257.0	14435	305.0	14200	353.0	13965	401.0	13730	449.0	13495	496.0
	850	13430	55.0	13145	95.0	12875	134.0	12615	174.0	12360	214.0	12115	254.0	11880	294.0	11645	334.0	11410	374.0	11180	414.0
	740	11584	47.0	11299	81.0	11029	124.0	10769	157.0	10514	190.0	10269	223.0	10034	256.0	9799	289.0	9564	322.0	--	--
RH-1650TR	985	19135	67.0	18748	113.0	18410	169.0	18099	225.0	17814	281.0	17552	337.0	17303	393.0	--	--	--	--	--	--
	850	16492	49.0	16123	97.0	15785	145.0	15474	193.0	15163	241.0	14896	289.0	14656	337.0	--	--	--	--	--	--
	740	14338	43.0	13951	85.0	13613	127.0	13302	169.0	13017	211.0	12733	253.0	12497	295.0	--	--	--	--	--	--
RM-1800TR	985	21500	79.0	21065	138.0	20685	197.0	20335	262.0	20015	327.0	19720	389.0	19440	452.0	19160	517.0	--	--	--	--
	850	18530	67.0	18115	119.0	17735	171.0	17385	229.0	17035	282.0	16735	338.0	16465	395.0	16200	446.0	--	--	--	--
	740	16110	59.0	15675	104.0	15295	142.0	14945	189.0	14625	236.0	14330	284.0	14065	332.0	13800	386.0	--	--	--	--
RH-2000TR	985	26840	123	26540	214	26270	299	26010	390	25750	480	25500	576	25200	626	24900	776	24000	876	23227	986
	740	20164	92.4	19940	161	19716	225	19492	293	19268	361	19018	433	18768	507	18596	581	18518	653	18990	725
	600	16400	75	16200	131	16000	183	15800	238	15600	293	15420	351	15240	410	15060	469	14880	511	--	--
RM-2500TR	985	35750	137	35120	237	34610	336	34170	435	33765	534	33390	633	33015	732	32690	831	--	--	--	--
	740	29781	114	29800	198	30110	282	30410	364	30680	450	30950	534	31200	618	31500	702	--	--	--	--
	600	24041	85	23411	156	22901	226	22461	296	22056	366	21681	465	21306	506	--	--	--	--	--	--
RH-2650TR	740	38600	115.0	38050	225.0	37500	335.0	36950	445.0	36400	554.0	35950	662.0	35350	770.0	34950	880	34550	998	40900	1374
	600	31300	95.0	30850	189.0	30400	282.0	29950	377.0	29600	472.0	29200	567.0	28800	662.0	28400	787	28000	897	32700	1032
	500	26100	82.0	25700	163.0	25300	245.0	24900	327.0	24450	409.0	24200	491.0	23850	573.0	23500	655	23200	737	26960	853
RH-3000TR	740	43800	164.0	42960	255.0	42210	381.0	41510	508.0	40880	634.0	40280	760.0	39720	932.0	39210	1060	38700	1192	--	--
	600	35126	138.0	34286	235.0	33536	335.0	32836	435.0	32206	535.0	31606	635.0	31046	735.0	30486	835	29976	935	--	--
	500	28936	112.0	28096	194.0	27346	276.0	26646	358.0	26016	440.0	25416	522.0	24856	604.0	24296	686	23786	768	--	--
RM-3500TR	600	58650	190.0	56753	361.1	55660	531.3	54625	702.0	53820	872.0	--	--	--	--	--	--	--	--	--	--
	500	48070	159.85	46920	296.7	46639	464.7	43700	573.0	42780	711.0	--	--	--	--	--	--	--	--	--	--
	400	37375	125.5	36179	233.45	35075	340.97.5	29650	447.0	33235	554.0	--	--	--	--	--	--	--	--	--	--

WIDE SELECTION : The blowers are available in many sizes covering air and water cooled versions suiting specific application. The sealing system, can be standard of mechanical (M) or gland packed (P) seal depending on system requirement and on customer's choice.

The Suffixes used indicate :

G - Gas Duty	WI - Water Injection	M - Mechanical Seal
V - Vacuum Application	L - Force Lubrication	WC - Water Cooled
P - Grand Packed	H - High Inlet Pressure	L - Lube Oil Cooling

To illustrate : Model : RH320 WCGML = Gas duty blower model RH320, water cooled, fitted with mechanical seal and with force lubrication.

DIMENSION TABLE - VERTICAL FLOW

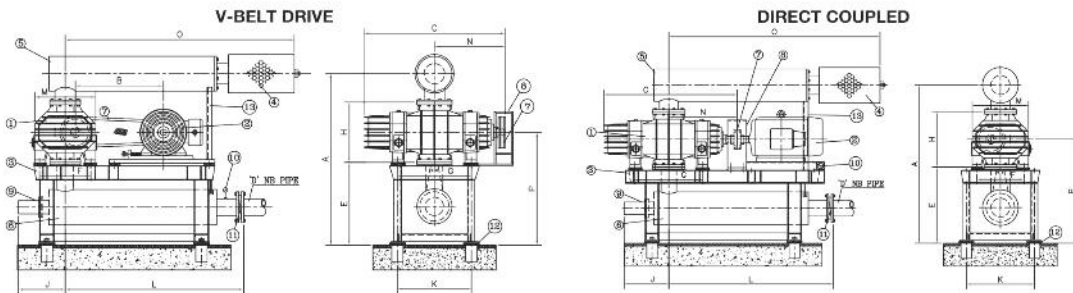
DIMENSIONS : TOP - SUCTION, BOTTOM - DISCHARGE

Approx.- mm

MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P
RH-45TR	810	525	631	65	365	275	262	295	375	500	877	325	291	1157	525
RH-70TR	865	525	704	80	390	275	335	295	375	570	958	325	328	1258	550
RH-80TR	865	600	771	100	445	350	315	410	400	560	1083	416	361	1353	655
RM-100TR	1075	600	911	125	470	350	455	410	405	690	1083	416	431	1563	680
RH-120TR	1212	725	876	125	498	470	165	504	465	690	1307	525	405	1563	768
RM-180TR	1178	725	1015	150	464	470	298	504	465	830	1307	525	475	1762	734
RH-200TR	1265	900	1033	150	485	560	235	570	565	740	1528	624	472	1812	785
RM-290TR	1400	900	1173	200	595	560	345	570	665	880	1528	624	530	1812	895
RH-320TR	1640	950	1247	250	650	660	323	710	665	900	1608	783	565	2108	1015
RM-450TR	1640	950	1449	250	650	660	515	710	665	933	1608	783	676	1208	1015
RL-500TR	2050	1050	1552	300	920	850	525	820	750	1250	1753	914	845	2288	1355
RH-600TR	2085	1045	1400	300	875	850	410	450	750	1000	2400	960	757	2600	1325
RH-1000TR	2350	1100	1410	350	1065	810	775	1000	750	12900	1755	960	621	2870	1555
RM-1250TR	2350	1200	1690	400	1065	810	990	1000	750	1290	1755	960	934	2870	1555
RH-1500TR	2700	1300	1600	400	1075	1050	800	1120	785	1280	3160	1235	840	3500	1610
RM-1800TR	2700	1300	2080	500	1075	1050	900	1120	785	1280	3160	1235	1035	3500	1610

V-BELT DRIVE

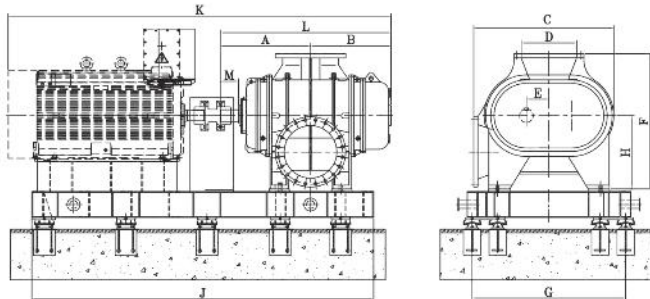
DIRECT COUPLED



DIMENSIONS: TOP - SUCTION, SIDE - DISCHARGE

MODEL/DIMN.	A	B	C	D	E	F	G	H	J	K	L	M
RH-2000 TR	976	1088	1485	600	284	1440	1645	795	4352	5311	2084	210
RM-2500 TR	1282	1124	1476	600	264	1440	1450	795	4400	4300	2406	175
RH-3000 TR	1323	1326	1842	700	305	1750	1680	1025	4694	6042	2649	180
RM-3500 TR	1478	1467	1842	700	305	1750	1690	1025	6450	6800	2945	180

DIRECT COUPLED



Note: For more details please contact HQ

PARTS DESCRIPTION:

1. BLOWER
2. ELECTRIC MOTOR
3. SKID TYPE COMMON BASE FRAME
4. SUCTION FILTER
5. SUCTION SILENCER
6. DISCHARGE SILENCER
7. V-BELTS & PULLEYS OR COUPLING
8. BELT OR COUPLING GUARD
9. PRESSURE RELIEF VALVE
10. PRESSURE GAUGE
11. NON RETURN VALVE
12. ANTI-VIBRATION PADS
13. SILENCER SUPPORT

Dimensions Subject to change

OUR PRODUCT AT A GLANCE



APPLICATIONS

Rotary Blower are extensively used in various Industrial application and process plants for:

CHEMICAL, PETROCHEMICALS

- Handling corrosive Gases
- Gas Boosting , Circulation & Evacuation
- Liquid Injection
- Water & Waste Water Treatment Plants
- Tank Aeration
- Digester Gas Processing

REFINERIES

- Sulphur Recovery & Dewaxing
- Nitrogen Boosting & Conveying
- Hydro Treating
- Hydrogen generation units
- Utilities
- FCC Units for Regeneration
- Pneumatic Conveying

INDUSTRIAL

- Vacuum Boosting
- Oil Free Conveying of Industrial Gases
- Vacuum Cleaning & Drying
- Fluid Bed Combustion
- Super-Charging

PNEUMATIC CONVEYING

- Pressure Conveying of Cement, Sand, Lime, Gases etc.
- Vacuum Conveying of Temp. Sensitive Products
- Fluidization and Agitation
- Blending Powdered Materials

CEMENT PLANTS

- Conveying
- Blending
- Fluidization
- Air Lift

POWER PLANT

- Ash Conveying
- Fluidising

ENVIRONMENTAL

- Dust and Fumes Extraction
- Air Sparging
- Compost Aeration
- Dust Collection & Disposal

FOOD PROCESSING

- Conveying Grains, Flour etc.
- Dehydration
- Packaging
- Fermentation Process

METALLURGY

- Lime Calcination Plants
- Combustion, lime & bac coils
- Oxygen Plants (VPSA)
- Mixed gas boosting
- Coke oven, BF gas boosting
- Smelting plants

CUSTOMER SUPPORT SERVICES:

A team of experienced and qualified engineers are deployed to provide technical after-sales services to our customers, such as pre and post commissioning services, operator training, trouble shooting etc, to ensure that the equipment is performing to the user's satisfaction.

For detail contact H.O. or the nearest service network.

DIVERSIFIED PRODUCT RANGE:

Swam Offer a comprehensive and diversified product range of products for the Process, Chemical, Oil & Gas, Steel, Aluminum, Cement, Water & Waste Water and Power Industries.



ISO 9001 | ISO 14001 | OHSAS 18001

BLOWER & FANS

- Rotary Blowers (Tri Lobe & Twin Lobe)
- Process Air Blowers
- Gas Blowers & Boosters
- Truck Blowers
- Centrifugal Fans
- Process Air Fans
- Multistage Centrifugal Blowers
- Rotary Screw Blowers
- Turbo Centrifugal Blowers
- Sliding Vane Compressors

VACUUM PUMPS & SYSTEMS

- Dry Screw pumps
- Mechanical Boosters
- Packaged Vacuum Systems with Controls
- Rotary Vane pumps
- Liquid Ring Compressors & Pumps

NOISE REDUCTION EQUIPMENTS

- Industrial Silencers
- Acoustic Enclosures

HEAT TRANSFER EQUIPMENTS

- Shell & Tube Type Heat Exchangers
- Finned Tube Heat Exchangers

INDUSTRIAL VALVE

- Butterfly Control Valves up to 1400 mm

Manufacturing Plants:



• Innovation • Technology • Excellence

SWAM PNEUMATICS PVT. LTD.

(ISO-9001:2000 Quality Certified)

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For details of our local contact office in your region, contact H.O. or log on to website