

"AIRVAK" Leaders in Blower & Vacuum Technology



- Twin / Tri Lobe Air Blower
- Twin / Tri Lobe Water Cooled Blower
- Twin / Tri Lobe Gas Blower
- Twin / Tri Lobe Vacuum Blower
- Twin / Tri Lobe A quaculture Blower
- A coustics Enclosure
- Mechanical Vacuum Booster
- Package Blower Systems













"AIRVAK BLOWERS PVT. LTD."

AIRVAK BLOWERS PVT LTD

Manufacturing of Twin Lobe Rotary Air Blowers, Water cooled Blowers, Gas Blowers, Vacuum Blowers, Vacuum Boosters and acoustic enclosures. The company has consistently strengthened its manufacturing base, producing a wide range of products. These wide-ranging products and the technical

expertise gained over the years have enabled AIRVAK to serve various segments of industry such as water treatment plants, effluent treatment plants, cement plants, aquaculture Plant, chemical & pharmaceutical plants, food processing units, waste oil re-refining units, paper plants, vacuum plants and systems and pneumatic conveying systems.

The blowers find use in applications requiring medium pressure air such as aeration in sewage treatment and effluent treatment plants, filter backwash, agitation of electrolyte, pneumatic conveying, regeneration of dryers & molecular sieves, maintaining BOD of water etc.

The mechanical vacuum booster developed by the company, finds use in chemical and pharmaceutical processes, bulb and tube light production, waste oil re-refining, roll and object metallizing, vegetable oil deodorization, solvent recovery, vacuum drying, tray drying, vacuum distillation, thin film deposition, molecular distillation, vacuum furnace, transformer oil dehumidification, chemical laser, evaporative cooling etc.

We are concentrating more on application engineering and in helping our customer's save on their processes. This innovation has not only compensated on our general sales but even helped us to outperform on our targets. Our application oriented R&D has made it possible to cover wider areas of application, offering cost effective and energy efficient solutions thus creating larger market demand for our product.

A focus on innovative design and high quality machined parts has earned AIRVAK a reputation for excellent workmanship amongst its users.

AIRVAK has offered its customers quality, cost-effective machines necessary to meet the changing technology. Our commitment to total quality in both our products and services is the foundation upon which our future business is based.

Design & manufacture of mechanical vacuum boosters for replacement of steam jet ejectors.

We know that performance of the OEM's design ultimately depends on the quality and dependability of its components. That's why so many manufacturers of Water Treatment Plants, Effluent Treatment Plants, Cement Plants, Aquaculture Farms, Chemical Plants, Paper Plants, Vacuum Plants and Systems, and Pneumatic Conveying Systems have entrusted their reputation to Airvak. Our broad product line of Roots Blowers/Compressors (Bi-lobe & Tri-lobe) (Air/Gas Duty), Mechanical Vacuum Boosters & Acoustic Hoods consists of standard and custom models that fall into major product group.

The hallmark of our commitment to quality is our International Standards Organization (ISO) registration. This ensures that our OEM customers receive products of highest quality.

AIRVAK is Manufacturing all Parts on Imported CNC Machines which Gives High quality with close Tolerances to make a super quality Machines. We have Automatic Digital Dynamical Balancing Machines for Balancing of Rotors to Make Long life of Bearings.



AIRVAK TWIN LOBE COMPRESSORS/ROOTS BLOWERS

A complete range of Standard Blowers is available for flow rates from 10 m3/hr to 10,000 m3/hr in single stage and upto any capacity in parallel configurations, for working pressures upto 1 kg/cm2. They are available as total package units, ready to install or as bare blower units for replacement.

AIR COOLED BLOWERS: Air Cooled blowers are suitable from pressure of 0.1kg/cm2 to 0.7kg/cm2.AIRVAK Blowers have a unique design where the Oil chambers is physically isolated with main chamber with air gap Between hence it is more effective in air cooled construction for high pressure also. These are available in different orientation flow and with Different MOC to suit customers specific requirements.

WATER COOLED BLOWERS: Water Cooled blowers are suitable from pressure of 0.6kg/cm2 to 1 kg/cm2. These are similar to air cooled type in construction and performance except in the change of cooling arrangement. In water cooled blowers end plates have water jackets around them, where water is circulated, which dissipates the heat of compression generated and keeps the internals cool. AIRVAK Blowers have a unique design of single inlet and single outlet for cooling water and require no cumbersome water pipe connections externally. Internal circulation of water to various areas is through inbuilt channels. This unique design makes the operations very simple, yet very effective. The cooling water inlet is at the bottom so that the water rises up against gravity, reaching all the corners before it comes out from the outlet. The flow rates of cooling water are low.

GAS BLOWERS: Gas blowers are used for boosting of Bio Gas, Nitrogen, Flue gas, Co2 gas and many more. These blowers are suitable for pressure from 0.1kg/cm2 to 1 kg/cm2. BIOGAS BLOWERS generally used in Biogas lines to boost the gas pressures to meet the burner input demand. These are generally vertical in construction, that is suction top and discharge bottom, so as to prevent any accumulation of corrosive matter inside the casing. Since they operate in closed loop, suction and discharge silencers are generally not required. Special material of construction, lubrication and sealing arrangements make them ideal choice for Biogas applications.

VACUUM BLOWERS: Vacuum blowers are used for negative pressure up to 0.5kg/cm2.

AQUA BLOWERS: These blowers are mainly used in hatcheries, aquaculture and electroplating. This blowers are available absolutely Oil Free in Air Cooled construction.

ACOUSTIC ENCLOSURES: AIRVAK Acoustic enclosure are used for reduction of sound.

VACUUM BOOSTER: Used for High Vacuum Applications.

STANDARD DESIGN AND CONSTRUCTION FEATURES

100% oil free air delivery.

Factory engineered, factory guaranteed, superior product.

Alloy steel hardened and ground timing gears.

Anti-friction bearings.

Rotary oil sealings.

Rigid one piece CI casing and side plates.

Horizontal and vertical configurations available.

Easy rotor timing setting.

No vanes, valves or rings to wear.

Large inlet and outlet connections for minimum loss.

Improved volumetric efficiency and reduced operating temperatures.

Alloy steel toughened shafts ground to close tolerances.

APPLICATIONS

Water Treatment Plants For backwashing of filter/mixed beds.

Effluent/sewage Treatment Plants For diffused aeration and agitation of effluent/sewage.

Cement Plants For Blending, Aeration, Fluidization, Conveying.

Aquaculture For maintaining the dissolved Oxygen level.

Chemical Plants For supplying of process air.

Electroplating Plants For Oil Free air agitation of electrolyte.

Paper Plants Knife edge coating, Drying, Conveying, Vacuum pickup.

Yarn Drying Vacuum/Pressure Drying of Yarn.

Vacuum Moulding For creating quick vacuum.

Polyster Chip Conveying & drying For transfer of polyster Chips and other similar materials.

Bag Filters For reverse cleaning of Filter bags.

Pneumatic Conveying Vacuum, Pressure and Combination Conveying of cereals, cement, husk, baggase, granules, powders and other similar material.

Regeneration of Dryers & Molecular Sieves.



ROOTS BLOWERS

Direct Drive Roots Blower



AIRVAK DIRECT DRIVE ROOTS BLOWER

Our
technology
is so
flexible,
we can
custom
manufacture

AIRVAK, leading manufacturer of Roots Blowers in India, introduces the all new Direct drive Roots Blowers. These blowers have been designed keeping the specific demands of the industry of compact & sturdy machine, reduced noise, minimal space requirements, least vibrations, longer bearing life & minimal maintenance, in mind. Airvak blowers are produced on latest state-of-art CNC machines ensuring quality product. Complete package units are shipped with all essential accessories & electric motor, ready to install on plug & play concept. These blowers are designed for continuous duty service & require minimal maintenance. Airvak Direct drive Blowers come with built-in safety & monitoring equipment such as NRV, Filter safety relief valve & pressure gauge. Direct Drive technology means blowers consume less power due to no transmission losses.

SALIENT FEATURES

- 100% oil free air delivery.
- Factory engineered, factory guaranteed, superior product.
- Alloy steel hardened and ground timing gears.
- Anti-friction bearings.
- Direct coupled drive.
- Rigid one piece CI casing and side plates.
- Improved volumetric efficiency and reduced operating temperatures.
- Easy rotor timing setting.
- No vanes, valves or rings to wear.
- Alloy steel toughened shafts ground to close tolerances.
- Larger inlet & outlet connections for minimal loss.

MODEL	SPEED	1000 M	MWG	2000 M	MWG	3000 M	MWG	4000 M	MWG	STANDARD
365 AC	RPM	M³/hr	HP	M³/hr	HP	M³/hr	HP	M³/hr	HP	ORIENTATION
1.5 HP MOTOR	935	42	0.6	30	0.70	23	0.96	16	1.2	
2 HP MOTOR	1415	77	0.75	67	1.1	60	1.50	52	1.65	Verticle

BLOWER IS SUITABLE FOR 18 M3/HR AT THE PRESSURE OF 0.25KG/CM2 WITH 1 HP MOTOR ALSO.

SPECIFICATION

- Noise Level < 80 db (A) [Subject to Load conditions.
- Variable Frequency Drive (VFD) can be provided for speed / capacity regulation.



LONGERLIFE

Longer Life - The Direct power drives means no "bendin load" and results in longer bearing and unit

Built-in monitoring & safety equipment such as pressure gauge & safety relief valve

Conversions: 1 Cubic Mtr/Hour = 0.588 CFM; 1000 mmWG = 1.42 PSIG = 0.1 Kg/Sq cm; 1HP = 0.746 KW

		V IV \			11 1/									2 0.7Kg/cm2				
Model	SPEED	0.1Kg	g/cm2	0.2Kg	g/cm2	0.3Kg	g/cm2	0.4Kg	g/cm2	0.5Kg	g/cm2	0.6Kg	g/cm2	0.7Κς	g/cm2	OPENING	Standard	
No.	(RPM)	M3/hr	ВНР	M3/hr	ВНР	M3/hr	ВНР	M3/hr	ВНР	M3/hr	ВНР	M3/hr	ВНР	M3/hr	внр	MM NB	Orientation	
	900	40	0.55	30	0.75	22	1.0	15	1.25	9	1.5	4	1.7					
365AC	1200	62	0.7	51	1.0	43	1.3	37	1.65	31	1.95	25	2.3			40	VF	
	1500	83	0.85	73	1.25	65	1.65	59	2.05	52	2.5							
	800	57	0.6	46	0.9	38	1.2	31	1.5	25	1.8	20	2.1	15	2.4	1		
M42AC	1100	88	0.8	77	1.2	69	1.6	62	2.0	56	2.5					40	HF	
	1400	118	1.3	108	1.6	100	2.1	93	2.6									
	1000	77	0.7	67	1.1	59	1.5	52	1.9	46	2.2	40	2.6	35	3.0			
42AC	1200	98	0.9	87	1.3	79	1.8	72	2.2	66	2.7	61	3.1	56	3.6	40	HF	
	1500	129	1.1	118	1.7	110	2.2	103	2.8	97	3.4	92	3.9	87	4.5			
	900	97	0.9	82	1.3	70	1.8	60	2.3	81	2.8	43	3.3	36	3.8		HF	
44AC	1200	142	1.1	127	1.8	115	2.4	105	3.1	96	3.8	88	4.4			80		
	1500	187	1.4	172	2.2	160	3.1	150	3.9	141	4.7	133	5.5					
47840	900	135	1.12	115	1.8	100	2.5	85	3.11	75	3.85					00	HF	
47MD	1200 1500	196 257	1.5 1.9	176 237	2.4 3.0	160 222	3.3 4.1	148 208	4.2 5.2	136 197	5.1 6.35					80	'''	
	_				2.2		2.9	127			4.4	110	E 1	100	F O			
53AC	900 1200	165 232	1.4	150 216	2.2	137 205	3.8	194	3.6 4.8	118 185	5.8	110 177	5.1 6.8	103 170	5.8 7.8	80	VF	
SSAC	1500	300	2.4	283	3.6	272	4.8	262	6.0	253	7.3	245	8.5	237	9.7	00		
	900	205	1.6	182	2.5	165	3.5	150	4.4	137	5.4	125	6.3	115	7.3			
55AC	1200	291	2.1	269	3.4	251	4.6	236	5.9	223	7.2	212	8.4	115	7.3	80	VF	
3370	1500	378	2.6	355	4.2	338	5.8	323	7.4	310	9.0	298	10.5			00		
	900	287	2.0	255	3.3	230	4.6	210	5.9	192	7.3	175	8.6					
57AC	1200	408	2.6	376	4.4	350	6.1	331	7.9	313	9.7	175	0.0			100	RA	
3,740	1500	530	3.3	497	5.5	473	7.7	452	9.9	434	12.1					100		
	900	402	2.7	364	4.5	335	6.3	310	8.0	.51								
59AC	1200	567	3.6	529	6.0	500	8.4	475	10.8							100	VF	
	1500	731	4.5	693	7.5	664	10.5											
	900	263	2.1	232	3.4	209	4.6	190	5.8	172	7.0	157	8.3	142	9.5			
65AC	1200	375	2.8	345	4.5	321	6.1	302	7.7	284	9.4	269	11.0	254	12.6	80	VF	
	1500	487	3.5	457	5.6	433	7.6	414	9.7	396	11.7	380	13.7	366	15.8			
	900	398	2.7	353	4.6	319	6.4	291	8.3	266	10.1	243	11.9	222	13.8			
67AC	1200	566	3.6	521	6.1	488	8.6	459	11.0	434	13.5	411	15.9	390	18.4	100	VF	
	1500	734	4.6	690	7.6	656	10.7	627	13.8	602	16.8	579	19.9	558	23.0			
	900	531	3.4	472	5.8	427	8.3	388	10.7	355	13.2	324	15.6	296	18.1			
610AC	1200	756	4.5	697	7.8	651	11.0	613	14.3	579	17.6	549	20.9	521	24.1	125	VF	
	1500	980	5.6	921	9.7	876	13.8	838	17.9	804	22.0	774	26.1	746	30.2			
	900	808	4.7	725	8.3	662	12.0	604	15.7								\/F	
615AC	1200	1144	6.2	1061	11.1	998	16.0	944	20.9							150	VF	
	1500	1480	7.8	1400	13.9	1334	20.0	1280	26.2									
	900	705	4.2	655	7.2	617	10.2	585	13.2	556	16.2	531	19.2	507	22.2		VF	
78AC	1200	980	5.6	930	9.6	892	13.6	860	17.6	831	21.6	806	25.6	782	29.6	125	\ \rac{1}{2}	
	1500	1255	7.0	1205	12.0	1167	17.0	1135	22.0	1107	27.0	1081	32.0	1057	37.0			
	900	884	4.9	823	8.7	776	12.5		16.2		20.0		23.7	641	27.5		VF	
710AC	1200	1228	6.6	1167	11.6	1120	16.6	1080	21.6	1045	26.6	1014	31.7	985	36.7	125	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	1500	1572	8.2	1511	14.5	1464	20.8	1424	27.0	1389	33.3	1358		1329	45.8			
71040	900	1145	6.1	1064		1002	15.8		20.7		25.6			824	35.4	150	VF	
713AC	1200	1591	8.1	1510	14.6	1448	21.1	1396	27.6	1350	34.1	1308	40.6			150		
	1500 900	2039 1499	10.1 7.9	1958 1393	18.2 14.3	1895 1312	26.4 20.7	1843 1244	34.5 27.1	1797	42.7	1755	50.8					
717AC	1200	2084	10.6	1978	19.1	1897	27.6	1828	36.2							200	VF	
, 17AC	1500	2668	13.2	2562		2481			45.2							200		
	900	1279	8.8	1216		1168	19.2	1127		1091	29.7	1059	34.9	1030	40.1			
812AC	1200	1755	11.8	1693	18.7	1645	25.7	1604	32.6	1568	39.6	1536	46.5	1506	53.5	150	VF	
	1500	2232	14.7	2170	23.4	2122	32.1	2080		2045		2012	58.1	1983	66.9			
	900	1705	10.6	1621	17.5	1557	24.5	1502		1456	38.4	1413	45.3					
816AC	1200	2340	14.1	2256		2192		2138		2090	51.1	2048	60.4			200	VF	
	1500	2976	17.6	2892	29.2	2828		2775		2727	64.0							
	900	2130	12.3	2027		1880	38.4											
820AC	1200	2925	16.4	2822	28.0	2673	51.2									200	VF	
	1500	3720	20.5	3615	35.0	3468	64.0											
	900	2185	13.4	2078	22.3	1995	31.2		40.2	1867	49.1	1810	58.0	1760	66.9		\/_	
1012AC	1200	3000	17.9	2893	29.8	2810		2743		2680	65.4	2625	77.3	2527	89.2		VF	
	1450	3680	21.6	3573		3490	50.3		64.7	3360	79.1	3305	93.4	3255	108.0			
	900	2937	16.5	2793	28.5	2683	40.4	2590	52.4	2507	64.4	2433	76.4	2365	88.4		VF	
1016AC	1200	4032	22.0	3890	38.0	3778	53.9	3683	69.9	3602	85.9	3527	102.0	3460	118.0	-	VE	
	1450	4945	26.6	4800		4690	65.2		84.5		104.0	4440	123.0	4373	142.0			
40000	900	3755	19.8	3573	35.1	3430	50.5		65.8	3205	81.1	3110	96.4			250	VF	
1020AC	1200	5157	26.4	4759		4830		4713	87.7	4608		4513				250	VF	
	1450	6325	31.9	6140		6000		5880		5775		5680	155.0					
100440	900	4415	22.5	4195	40.5	4030	58.5	3890	76.5	3765	94.5					200	VF	
1024AC	1200	6060 7430	30.0	5840	54.0	5675	78.0 94.2		102.0							300		
	1450 800	4910	36.3 23.55	7210 4722	65.2 43.1	7045 4583	62.66		123.0 82.15			4260	121 28	4172	140.82	82		
1220AC	1000	6250	29.50				78.34					5596					RΔ	
IZZUAC	1200		35.33				93.97							0011	170.03	350	RA	
							m2 = 100		123.3	1000	102.03	0330	101.00					

Conversion: 1m3/hr = 0.588 CFM; 1000 MMWG = 1.42 PSIG = 0.1 Kg/cm2 = 100 Mbar Avg. Line Friction losses of 0.5 PSI per 100 ft length of Pipe.

Estimated rise of discharge air temperature may be taken as 12°C per 0.1 Kg/cm2 pressure.

	SPEED	5000 N	IMWG	6000 N	IMWG	7000 N	имwg	8000 N	IMWG	9000 1	MWG	10000	MMWG	COOLING	OPENINIG	STANDARD
MODEL	(RPM)	m3 / hr	ВНР	m3 / hr	ВНР	m3 / hr	ВНР	m3 / hr	ВНР	m3 / hr	ВНР	m3 / hr	ВНР	WATER	mm NB	ORIENTATION
	960	132	4.6	124	5.4	116	6.2	110	7	103	7.8	97	8.6			
53WC	1200	186	5.8	178	6.8	170	7.8	163	8.7	157	9.7	151	10.7	4-5 LPM	80	VF
	1500	253	7.3	245	8.5	238	9.7	231	10.9	224	12.2	218	13.4			
	960	154	5.7	142	6.7	132	7.7	122	8.8	112	9.8	103	10.8			
55WC	1200	224	7.2	212	8.4	201	9.7	191	10.9	181	12.2			4-5 LPM	80	VF
	1440	293	8.6	281	10.1	270	11.6	260	13.1							
	1000	210	7.8	194	9.2	179	10.5	166	11.9	153	13.3	141	14.6			
65WC	1300	322	10.2	306	11.9	292	13.7	278	15.5	266	17.2	254	19	5-6 LPM	80	VF
	1600	434	12.5	418	14.7	404	16.9	390	19	378	21.2	366	23.4			
	1000	322	11.2	299	13.3	278	15.3	258	17.3	240	19.4	223	21.4			
67WC	1300	490	14.6	467	17.2	446	19.9	427	22.5	408	25.2	391	27.9	5-6 LPM	100	VF
	1600	658	17.9	635	21.2	615	24.5	595	27.8	577	31	559	34.3			
	1000	430	14.7	400	17.4	371	20.1	345	22.8	321	25.6	298	28.3			
610WC	1300	655	19	624	22.6	596	26.1	570	29.7	546	33.2			6-8 LPM	125	VF
	1500	805	22	774	26.1	746	30.2	720	34.3							
	1000	649	18	623	21.4	600	24.7	578	28	557	31.4	537	34.7			VF
78WC	1300	924	23.4	898	27.8	875	32.1	853	36.5	832	40.8	813	45.2	6-8 LPM	125	
	1600	1200	28.8	1174	34.2	1150	39.5	1128	44.9	1108	50.2	1088	55.6			
	1000	817	22.2	786	26.4	757	30.6	730	34.7	704	38.9	680	43.1			
710WC	1300	1161	28.9	1130	34.3	1101	39.7	1074	45.2	1049	50.6	1025	56	8-10 LPM	125	VF
	1600	1506	35.5	1474	42.2	1445	48.9	1418	55.6							
	1000	1252	33	1219	38.8	1190	44.6	1162	50.4	1136	56.2	1111	61.9			
812WC	1200	1570	39.6	1538	46.5	1508	53.5	1480	60.4	1454	67.4	1430	74.3	10-12 LPM	150	VF
	1440	1952	47.5	1919	55.8	1890	64.2	1862	72.5							
	1000	2140	54.5	2084	64.4	2034	74.3	1986	84.2	1942	94.2	1900	104.1			
1012WC	1200	2684	65.4	2628	77.3	2578	89.2	2530	101.1	2486	113	2444	124.9	10-12 LPM	200	VF
	1440	3336	78.5	3281	92.8	3230	107.1	3183	121.3	3138	135.6	3096	149.8			
	1000	2875	71.6	2801	84.9	2733	98.2	2669	111.5	2609	124.8	2553	138.1			
1016WC	1200	3606	85.9	3532	101.8	3464	117.8	3400	133.8	3340	149.8	3284	165.7	16-18 LPM	250	50 VF
	1440	4483	103	4409	122.2	4341	141.4	4277	160.5							
		- 0 588 CF														

Conversion: 1m3/hr = 0.588 CFM; 1000 MMWG = 1.42 PSIG = 0.1 Kg/cm2 = 100 Mbar Avg. Line Friction losses of 0.5 PSI per 100 ft length of Pipe. Estimated rise of discharge air temperature may be taken as 12°C per 0.1 Kg/cm2 pressure.

	MODEL	SPEED	1000 [MMWG	2000 [MMWG	3000 1	MMWG	4000 N	MWG	5000 1	MMWG	6000 N	имwg	7000 1	MMWG	OPENING	Standard
	MODEL	(RPM)															MM NB	Orientation
		1000	77	0.7	67	1.1	59	1.5	52	1.9	46	2.2	40	2.6	35	3.0		
MAND 1900 197 190 182 133 170 118 180 23 28 14 28 44 33 35 35 35 35 18 18 190 187 190 18	42BIO	1200	98	0.9	87	1.3	79	1.8	72	2.2	66	2.7	61	3.1	56	3.6	40	HF
March 1200 140 151 127 128 151 24 105 3.1 60 3.8 88 84 4.		1500	129	1.1	118	1.7	110	2.2	103	2.8	97	3.4	92	3.9	87	4.5		
1560 1567 14 172 22 180 31 150 38 341 47 173 35 36 175 185 38 185 38 141 47 173 35 35 18		900	97	0.9	82	1.3	70	1.8	60	2.3	81	2.8	43	3.3	36	3.8		
	44BIO	1200	142	1.1	127	1.8	115	2.4	105	3.1	96	3.8	88	4.4			80	HF
		1500	187	1.4	172	2.2	160	3.1	150	3.9	141	4.7	133	5.5				
		900	135	1.12	115	1.8	100	2.5	85	3.11	75	3.85						
1500 197 16	47BIO	1200	196	1.5	176	2.4	160	3.3	148	4.2	136	5.1					80	HF
Section 1500 2564 2 239 3.1 227 42 217 5.2 260 6.3 200 7.3 193 6.4 8.5 8.5 239 8.5 235 8.5 239 8.5 235 8.5 239 8.5 235 8.5 239 8.5 235 8.5 239 8.5 235 8.5 239 8.5 235 8.5 239 8.5 235 2		1500	257	1.9	237	3.0	222	4.1	208	5.2	197	6.35						
		1000	187	1.6	171	2.4	160	3.2	150	4	141	4.8	133	5.7	125	6.5		
1000 234 1.8 211 2.8 154 3.9 779 4.9 168 6 154 7 143 8.1 80 VF	53BIO	1300	254	2	239	3.1	227	4.2	217	5.2	208	6.3	200	7.3	193	8.4	80	HF
1000 201 2.3 2.8 3.6 200 5 2015 6.4 252 7.8 244 811 200 19.5 80 VF		1500	299	2.4	284	3.6	272	4.8	262	6	253	7.3	245		238	9.7		
1500 377 26 286 4.2 238 5.5 4.2 238 5.5 4.2 238 5.5 4.2 238 5.5 4.2 238 5.5 4.2 238 4.2 4.7 4.7 302 5.5 2.5 6.6 3.53 4.3 4.2 4.7 4.7 302 5.7 3.7 4.5 4.5 4.3 4.3 4.2 4.3		1000	234	1.8	211	2.8	194	3.9	179	4.9	166	6	154	7	143	8.1		
\$780 1000 322 22 22 258 3.6 271 5.1 250 6.6 232 8.1 210 9.5	55BIO	1300	321	2.3	298	3.6	280	5	265	6.4	252	7.8	241	9.1	230	10.5	80	VF
SPBIO 1300		1500	378	2.6	356	4.2	338	5.8	323	7.4	310	8.9	298	10.5	288	12.1		
1000 1007		1000	327	2.2	295	3.6	271	5.1	250	6.6	232	8.1	216	9.5			400	
Sebic 1000 457	57BIO												337	12.4			100	VF
Selic 1300 622 4.5 694 65. 595 9.1 531 117.									_		434	12.1						
1500 732 4.5 604 7.5 605 10.5 606 13.5 610 7.8 194 9.2 179 10.5									_								100	D.
Sebio 1000 300 24 270 37 247 51 227 64. 210 78. 194 92 179 90.5 90.	59BIO								_								100	RA
SERIO 1300 413 31 382 48 359 66 339 8.4 322 10.2 306 119 20.2 137 80 VF																		
1500 1500 1505									_								80	\/=
1000	65BIO																. 00	VF
Fibio 1900 622 4 578 6.6 544 9.3 515 119 490 14.6 467 172 446 19.9 100 VF																		
1500 791 4.9 746 8.1 712 114 684 1.7 658 17.9 635 212 615 24.5	67010																100	VE
	6/810																	VF
Columbia 1300 1332 4.8 772 8.4 727 119 689 15.5 655 19 624 22.6 596 28.1 125 VF																		
1600 1056 6 897 10.3 952 14.7 913 19.1 880 23.4 849 27.8 821 32.2	640DIO																125	\/E
1500 921 5.2 8.38 9.3 775 13.4 721 17.4	010010																	VI
1500 1594 8.3 1511 148 1446 214 1394 279 130 1694 8.3 1511 148 1446 214 1394 279 130 1000 788 4.6 748 8 709 11.3 677 14.7 649 18 623 21.4 600 24.7 78BIO 1300 1073 6 1023 10.4 985 14.7 963 19.1 924 23.4 898 27.8 875 32.1 125 VF 1600 1348 7.4 1298 12.8 1260 18.1 1228 23.5 1200 28.8 1174 34.2 1150 39.5 77BIO 1000 1000 5.5 938 9.7 892 13.8 882 18 817 22.7 786 28.4 757 30.6 777 1000 1000 5.5 938 9.7 892 13.8 882 18 817 22.7 786 28.4 757 30.6 777 1000 1096 6.7 1214 122 1155 1750 22.1 1540 28.8 1506 35.5 1474 42.2 1445 48.9 1300 1344 7.1 1283 12.6 1238 18 1198 23.4 1161 28.9 1130 34.3 1101 39.7 127 1000 1295 6.7 1214 12.2 1152 17.6 1100 23 1054 22.4 1012 33.9 39.4 39.3 39.7 1300 1242 8.7 1680 21.5 1580 22.1 1540 28.8 1506 35.5 1474 42.2 1445 48.9 44.1 12.2 11.5 17.6 1100 23 1054 22.4 1012 33.9 39.4 39.3 150 150 150 150 150 150 150 150 150 23 1440 30.1 1000 1696 8.8 1590 15.9 1508 23.1 1440 30.1 1000 1696 8.8 1590 159 1508 23.9 2484 34.5 2415 45.2 1000 1439 9.8 1376 15.6 1328 21.4 1288 27.2 1252 33 1219 38.8 1190 44.6 812BIO 1200 1757 11.8 1695 18.7 1646 25.7 1606 32.6 1570 39.6 1538 46.5 1508 53.5 150 48.0 150 150 1508 1											880	23.4	849	21.8	821	32.2		
1600 1594 8.3 1511 14.8 1446 21.4 1394 27.9 18 623 21.4 600 24.7	615BIO																150 VF	VF
78BIO 1000 798 4.6 748 8 709 11.3 677 14.7 649 18 623 21.4 600 24.7 125 VF 1000 1930 1073 6 1023 10.4 985 14.7 953 19.1 924 23.4 889 27.8 875 32.1 125 VF 1000 1900 5.5 938 9.7 892 13.8 852 18 817 22.2 786 26.4 757 30.8 125 VF 1000 1900 15.5 938 9.7 892 13.8 852 18 817 22.2 786 26.4 757 30.8 125 VF 1000 1900 15.5 938 9.7 892 13.8 852 18 817 22.2 786 26.4 757 30.8 125 VF 1000 1900 15.5 938 9.7 892 13.8 19.9 23.4 1161 29.9 1130 43.3 1101 39.7 125 VF 1000 1900 19.4 7.1 1283 12.6 1236 18 1196 23.4 1161 29.9 1130 43.3 1101 39.7 125 VF 1300 1300 1344 7.1 1283 12.6 1236 18 1196 23.4 1161 29.9 1130 43.3 1101 39.7 125 VF 1300 1295 6.7 1214 12.2 1152 17.6 1100 23 1054 28.4 1012 33.9 974 39.3 150 1000 1295 6.7 1214 12.2 1152 17.6 1100 23 1054 28.4 1012 33.9 974 39.3 150 VF 1300 1742 8.7 1662 15.8 1599 22.9 1547 29.9 1501 37 1459 44 1421 51.1 150 VF 1300 1742 8.7 1662 15.8 1599 22.9 1547 29.9 1501 37 1459 44 1421 51.1 150 VF 1300 1742 8.7 1662 15.8 1599 22.9 1547 29.9 1501 37 1459 44 1421 51.1 150 VF 1300 1742 8.7 1662 15.8 1599 22.9 1547 29.9 1501 37 1459 44 1421 51.1 150 VF 1300 1742 8.7 1662 15.8 1599 15.9 1508 23 1440 30.1 1500 2671 13.2 2565 23.9 2444 34.5 145 45.2 1500 2671 13.2 2565 23.9 2444 34.5 24 154 45.2 1500 2671 13.2 2565 23.9 2444 34.5 24 154 45.2 1500 2671 13.2 2565 23.9 2444 34.5 24 154 45.2 1500 2671 13.2 2565 23.9 2444 34.5 24 154 45.2 1500 2671 13.2 2565 23.9 2444 34.5 24 15 45.2 1500 2671 13.2 2565 23.9 244 34.5 24 15 45.2 1500 2671 14.4 22.5 15.1 150 250 150 150 150 150 150 150 150 150 150 1	013510																	VI I
78810 1300 1073 6											649	18	623	21 4	600	24.7		
1600	78BIO																125 _{VF}	VF
1000 1000 1000 5.5 938 9.7 892 13.8 882 18 817 22.2 786 26.4 757 30.6 125 1300 1344 7.1 1283 12.6 1236 18 1196 23.4 1161 28.9 1130 34.3 1101 39.7 125 1600 1888 8.8 1627 15.5 1580 22.1 1540 28.8 1506 35.5 1474 42.2 1445 48.9 1000 1295 6.7 1214 12.2 1152 17.6 1100 23 1054 28.4 1012 33.9 974 39.3	102.0																	**
1300																		
1800 1888 8.8 1627 15.5 1580 22.1 1540 28.8 1506 35.5 1474 42.2 1445 48.9	710BIO																125	VF
T13BIO 1300 1295 6.7 1214 12.2 1152 17.6 1100 23 1054 28.4 1012 33.9 974 39.3 150 VF 1500 1742 8.7 1662 15.8 1599 22.9 1547 29.9 1501 37 1459 44 1421 51.1 150 VF 1600 2190 10.8 2109 19.5 2047 28.1 1994 36.8 1948 45.5 1906 54.2						 											1	
13810																		
1000 1696 8.8 1590 15.9 1508 23 1440 30.1	713BIO																150	VF
717BIO 1200 2086 10.6 1980 19.1 1899 27.6 1830 36.2		1600	2190	10.8	2109	19.5	2047	28.1	1994	36.8	1948	45.5	1906	54.2			1	
1200 2086 10.6 1980 19.1 1899 27.6 1830 36.2		1000	1696	8.8	1590	15.9	1508	23	1440	30.1								
1000	717BIO	1200	2086	10.6	1980	19.1	1899	27.6	1830	36.2							200	VF
Note		1500	2671	13.2	2565	23.9	2484	34.5	2415	45.2								
1000 1757 11.8 1695 18.7 1646 25.7 1606 32.6 1570 39.6 1538 46.5 1508 53.5 1508		1000	1439	9.8	1376	15.6	1328	21.4	1288	27.2	1252	33	1219	38.8	1190	44.6		
816BIO 1919 11.7 1835 19.5 1771 27.2 1717 34.9 1669 42.6 1626 50.4 200 VF	812BIO	1200	1757	11.8	1695	18.7	1646	25.7	1606	32.6	1570	39.6	1538	46.5	1508	53.5	150	VF
816BIO 1200 2343 14.1 2260 23.3 2195 32.6 2141 41.9 2093 51.2 2050 60.4 200 VF		1440	2139	14.1	2076	22.4	2028	30.8	1988	39.1	1952	47.5	1919	55.8	1890	64.2		
1010 1200 2343 14.1 2260 23.3 2195 32.6 2141 41.9 2093 51.2 2050 60.4		1000	1919	11.7	1835	19.5	1771	27.2	1717	34.9	1669	42.6	1626	50.4			200	
1000 2399 13.7 2294 23.3 2214 33 2146 42.6	816BIO	1200	2343	14.1	2260	23.3	2195	32.6	2141	41.9	2093	51.2	2050	60.4			200	VF
1200 2929 16.4 2824 28 2744 39.6 2676 51.2		1440	2852	16.9	2769	28	2704	39.1	2650	50.3	2602	61.4	2559	72.5				
1200 2929 16.4 2824 28 2744 39.6 2676 51.2		1000	2399	13.7	2294	23.3	2214	33	2146	42.6							200	
1012BIO 2460 14.9 2353 24.8 2271 34.7 2201 44.6 2140 54.5 2084 64.4 2034 74.3 200 VF 1200 3004 17.9 2897 29.8 2814 41.7 2745 53.5 2684 65.4 2628 77.3 2578 89.2 1440 3657 21.5 3550 35.7 3467 50 3398 64.3 3336 78.5 3281 92.8 3230 107.1 1010 1010 100 3306 18.3 3162 31.6 3051 44.9 2958 58.2 2875 71.6 2801 84.9 2733 98.2 101.8 3464 117.8 1	820BIO	1200	2929	16.4	2824	28	2744	39.6	2676	51.2							200	VF
1012BIO 1200 3004 17.9 2897 29.8 2814 41.7 2745 53.5 2684 65.4 2628 77.3 2578 89.2 200 VF 1440 3657 21.5 3550 35.7 3467 50 3398 64.3 3336 78.5 3281 92.8 3230 107.1 1016BIO 1200 4037 22 3893 37.9 3782 53.9 3689 69.9 3606 85.9 3532 101.8 3464 117.8		1440	3565	19.7	3461	33.6	3380	47.5	3313	61.4								
1012BIO 1200 3004 17.9 2897 29.8 2814 41.7 2745 53.5 2684 65.4 2628 77.3 2578 89.2 VF 1440 3657 21.5 3550 35.7 3467 50 3398 64.3 3336 78.5 3281 92.8 3230 107.1 1000 3306 18.3 3162 31.6 3051 44.9 2958 58.2 2875 71.6 2801 84.9 2733 98.2 1016BIO 1200 4037 22 3893 37.9 3782 53.9 3689 69.9 3606 85.9 3532 101.8 3464 117.8 1440 4914 26.4 4770 45.5 4659 64.7 4566 83.9 4483 103 4409 122.2 4341 141.4 1000 4229 22 4044 39.1 3902 56.1 3783 73.1 3678 90.1 3583 107.2 1020BIO 1200 5163 26.4 4979 46.9 4837 67.3 4718 87.7 4613 108.2 4518 128.6 1440 6285 31.7 6101 56.2 5959 80.8 5840 105.3 5734 129.8 5639 154.3 1000 4967 25 4750 45 4584 65 4443 85 4320 105		1000	2460	14.9	2353	24.8	2271	34.7	2201	44.6	2140	54.5	2084	64.4	2034	74.3	200	
1016BIO 3306 18.3 3162 31.6 3051 44.9 2958 58.2 2875 71.6 2801 84.9 2733 98.2 250 VF 1200 4037 22 3893 37.9 3782 53.9 3689 69.9 3606 85.9 3532 101.8 3464 117.8 3464 117.8 117	1012BIO	1200	3004	17.9	2897	29.8	2814	41.7	2745	53.5	2684	65.4	2628	77.3	2578	89.2	200	VF
1016BIO 1200 4037 22 3893 37.9 3782 53.9 3689 69.9 3606 85.9 3532 101.8 3464 117.8 250 VF 1440 4914 26.4 4770 45.5 4659 64.7 4566 83.9 4483 103 4409 122.2 4341 141.4 14		1440	3657	21.5	3550	35.7	3467	50	3398	64.3	3336	78.5	3281	92.8	3230	107.1		
1016BIO 1200 4037 22 3893 37.9 3782 53.9 3689 69.9 3606 85.9 3532 101.8 3464 117.8 VF 1440 4914 26.4 4770 45.5 4659 64.7 4566 83.9 4483 103 4409 122.2 4341 141.4		1000	3306	18.3	3162	31.6	3051	44.9	2958	58.2	2875	71.6	2801	84.9	2733	98.2	250	
1020BIO 4229 22 4044 39.1 3902 56.1 3783 73.1 3678 90.1 3583 107.2 250 VF 1200 5163 26.4 4979 46.9 4837 67.3 4718 87.7 4613 108.2 4518 128.6 1440 6285 31.7 6101 56.2 5959 80.8 5840 105.3 5734 129.8 5639 154.3 1000 4967 25 4750 45 4584 65 4443 85 4320 105 300 105	1016BIO	1200	4037	22	3893	37.9	3782	53.9	3689	69.9	3606	85.9	3532	101.8	3464	117.8		VF
1020BIO 1200 5163 26.4 4979 46.9 4837 67.3 4718 87.7 4613 108.2 4518 128.6 VF 1440 6285 31.7 6101 56.2 5959 80.8 5840 105.3 5734 129.8 5639 154.3 1000 4967 25 4750 45 4584 65 4443 85 4320 105 300 105		1440	4914	26.4	4770	45.5	4659	64.7	4566	83.9	4483	103	4409	122.2	4341	141.4		
1020BIO 1200 5163 26.4 4979 46.9 4837 67.3 4718 87.7 4613 108.2 4518 128.6 VF 1440 6285 31.7 6101 56.2 5959 80.8 5840 105.3 5734 129.8 5639 154.3 1000 4967 25 4750 45 4584 65 4443 85 4320 105		1000	4229	22	4044	39.1	3902	56.1	3783	73.1	3678	90.1	3583	107.2				
1000 4967 25 4750 45 4584 65 4443 85 4320 105	1020BIO	1200	5163	26.4	4979	46.9	4837	67.3	4718	87.7	4613	108.2	4518	128.6				VF
300 \		1440	6285	31.7	6101	56.2	5959	80.8	5840	105.3	5734	129.8	5639	154.3				
		1000	4967	25	4750	45	4584	65	4443	85	4320	105					300	T
	1024BIO	1200	6065	30	5848	54	5682	78	5541	102	5418	126					300	VF
1440 7382 36 7166 64.8 6999 93.6 6859 122.4 6735 151.2	1024010									400.4	0705	454.0						

Conversion: 1m3/hr = 0.588 CFM; 1000 MMWG = 1.42 PSIG = 0.1 Kg/cm2 = 100 Mbar Avg. Line Friction losses of 0.5 PSI per 100 ft length of Pipe.
Estimated rise of discharge air temperature may be taken as 12°C per 0.1 Kg/cm2 pressure.

			J/cm2	0.2Kc	J/cm2	0.3Kg	ı/cm2	0.4Kc	g/cm2		g/cm2	OM BE	
Model No.	SPEED (RPM)	M3/hr		M3/hr		M3/hr	BHP	M3/hr	BHP	M3/hr		OPENING MM NB	Standard Orientation
	800	57	0.6	46	0.9	38	1.2	31	1.5	25	1.8		
M42VAC	1100	88	0.8	77	1.2	69	1.6	62	2.0	56	2.5	40	HF
	1400	118	1.3	108	1.6	100	2.1	93	2.6	40	0.0		
42VAC	1000 1200	77 98	0.7	67 87	1.1 1.3	59 79	1.5 1.8	52 72	1.9 2.2	46 66	2.2 2.7	40	HF
72770	1500	129	1.1	118	1.7	110	2.2	103	2.8	97	3.4		
	900	97	0.9	82	1.3	70	1.8	60	2.3	81	2.8		
44VAC	1200	142	1.1	127	1.8	115	2.4	105	3.1	96	3.8	80	HF
	1500 900	187 135	1.4 1.12	172 115	2.2 1.8	160 100	3.1 100	150 2.5	3.9 85	141 3.11	4.7 75		
47VAC	1200	196	1.12	176	2.4	160	160	3.3	148	4.2	136	80	HF
	1500	257	1.9	237	3.0	222	222	4.1	208		197		
	900	165	1.4	150	2.2	137	2.9	127	3.6	118	4.4	80	
53VAC	1200 1500	232 300	1.9 2.4	216 283	2.9 3.6	205 272	3.8 4.8	194 262	4.8 6.0	185 253	5.8 7.3	80	VF
	900	205	1.6	182	2.5	165	3.5	150	4.4	137	5.4		
55VAC	1200	291	2.1	269	3.4	251	4.6	236	5.9	223	7.2	80	VF
	1500	378	2.6	355	4.2	338	5.8	323	7.4	310	9.0		
57VAC	900 1200	287 408	2.0 2.6	255 376	3.3 4.4	230 350	4.6 6.1	210 331	5.9 7.9	192 313	7.3 9.7	100	RA
STVAC	1500	530	3.3	497	5.5	473	7.7	452	9.9	434	12.1	.50	I A
	900	402	2.7	364	4.5	335	6.3	310	8.0				
59VAC	1200	567	3.6	529	6.0	500	8.4	475	10.8			100	VF
	1500 900	731 263	4.5 2.1	693 232	7.5 3.4	664 209	10.5 4.6	190	5.8	172	7.0		
65VAC	1200	375	2.8	345	4.5	321	6.1	302	7.7	284	9.4	80	VF
	1500	487	3.5	457	5.6	433	7.6	414	9.7	396	11.7		
	900	398	2.7	353	4.6	319	6.4	291	8.3	266	10.1	100	
67VAC	1200 1500	566 734	3.6 4.6	521 690	6.1 7.6	488 656	8.6 10.7	459 627	11.0 13.8	434 602	13.5 16.8	100	VF
	900	531	3.4	472	5.8	427	8.3	388	10.7	355	13.2		
610VAC	1200	756	4.5	697	7.8	651	11.0	613	14.3	579	17.6	125	VF
	1500	980	5.6	921	9.7	876	13.8	838	17.9	804	22.0		
615VAC	900 1200	808 1144	4.7 6.2	725 1061	8.3 11.1	662 998	12.0 16.0	604 944	15.7 20.9			150	VF
615VAC	1500	1480	7.8	1400	13.9	1334	20.0	1280	26.2			130	
	900	705	4.2	655	7.2	617	10.2	585	13.2	556	16.2		
78VAC	1200	980	5.6	930	9.6	892	13.6	860	17.6	831	21.6	125	VF
	1500 900	1255 884	7.0 4.9	1205 823	12.0 8.7	1167 776	17.0	1135 736	22.0 16.2	1107	27.0 20.0		
710VAC	1200	1228	6.6	1167	11.6		16.6	1080	21.6	1045	26.6	125	VF
	1500	1572	8.2	1511	14.5	1464	20.8	1424	27.0	1389	33.3		
	900	1145	6.1	1064	10.9		15.8	950	20.7	904	25.6	150	,
713VAC	1200 1500	1591 2039	8.1 10.1	1510 1958	14.6 18.2	1448 1895	21.1 26.4	1396 1843	27.6 34.5	1350 1797	34.1 42.7	150	VF
	900	1499	7.9	1393	14.3	1312	20.7	1244	27.1	1737	72.7		
717VAC	1200	2084	10.6	1978	19.1	1897	27.6	1828	36.2			200	VF
	1500	2668	13.2	2562	23.9	2481	34.5	2413	45.2	1001	00.7		
942V/AC	900 1200	1279 1755	8.8 11.8	1216 1693	14.0 18.7	1168 1645	19.2 25.7	1127 1604	24.5 32.6	1091 1568	29.7 39.6	150	VF
812VAC	1500	2232	14.7	2170	23.4	2122	32.1	2080	40.8	2045	49.5	.00	, , , , , , , , , , , , , , , , , , ,
	900	1705	10.6	1621	17.5	1557	24.5	1502	31.4	1456	38.4		
816VAC	1200 1500	2340	14.1	2256	23.3	2192	32.6	2138	41.9	2090	51.1	200	VF
	900	2976 2130	17.6 12.3	2892 2027	29.2 21.0	2828 1880	40.8 38.4	2775	52.4	2727	64.0		
820VAC	1200	2925	16.4	2822	28.0	2673	51.2					200	VF
	1500	3720	20.5	3615	35.0	3468	64.0						
	900	2185	13.4	2078	22.3	1995	31.2	1927	40.2	1867	49.1	222	\/_
1012VAC	1200 1450	3000 3680	17.9 21.6	2893 3573	29.8 36.0	2810 3490	41.6 50.3	2743 3420	53.6 64.7	2680 3360	65.4 79.1	200	VF
	900	2937	16.5	2793	28.5	2683	40.4	2590	52.4	2507	64.4		
1016VAC	1200	4032	22.0	3890	38.0	3778	53.9	3683	69.9	3602	85.9	250	VF
	1450	4945	26.6	4800	45.8		65.2	4598	84.5	4515	104.0		
4000)/4.0	900 1200	3755 5157	19.8 26.4	3573 4759	35.1 46.9	3430 4830	50.5 67.3	3310 4713	65.8 87.7	3205 4608	81.1 108.0	250	VF
1020VAC	1450	6325	31.9	6140	56.6	6000	81.3	5880	106.0		131.0	230	V
	900	4415	22.5	4195	40.5	4030	58.5	3890	76.5	3765	94.5		
1024VAC		6060	30.0	5840	54.0	5675	78.0	5535	102.0		126.0	300	VF
	1450	7430	36.3	7210	65.2		94.2	6905	123.0	6780	152.0		

Conversion: 1m3/hr = 0.588 CFM; 1000 MMWG = 1.42 PSIG = 0.1 Kg/cm2 = 100 Mbar Avg. Line Friction losses of 0.5 PSI per 100 ft length of Pipe.
Estimated rise of discharge air temperature may be taken as 12°C per 0.1 Kg/cm2 pressure.

AIRVAK TWIN LOBE ROTARY AQUACULTURE BLOWERS



AIRVAK has introduced its new range of AQUA Series Twin Lobe Rotary Air Blowers (Roots Blowers) to meet the electroplating & aqua culture requirements which essentially demand 100% Oil Free Air. These blowers are totally dry machines where lubricating chambers are physically isolated from the main gas chamber ensuring 100% Oil Free Air delivery. These blowers have a major advantage over centrifugal and regenerative blowers as they are more power efficient, can handle high flow rates and are insensitive to water depth variations. They deliver, practically, a constant flow rate irrespective of back pressures thereby maintaining dissolved oxygen levels. These machines are very versatile and can be run by electric motors or genset & Diesel engines. They have low maintenance and no internal adjustments resulting in prolonged trouble free operation.

DESIGN & CONSTRUCTION FEATURES:

- 100% oil free air delivery.
- Factory engineered, factory guaranteed, superior product.
- Alloy steel hardened and ground timing gears.
- Anti-friction bearings.

Imported Substitute

- Rotary oil sealings.
- Rigid one piece CI casing and side plates.
- Easy rotor timing setting.
- Alloy steel toughened shafts ground to close tolerances.



MODEL	CAPACITY	PRESSURE	SPEED	MOTOR	DIS. SIZE	ORIENTATION	
	M3/HR	MMWC	RPM	1440 RPM			
AQUA 47	200	2500	1100	5 HP	80 MM	HORIZONTAL	
AQUA 47	255	2500	1500	7.5 HP	80 MM	HONIZONIAL	
AQUA 59	450	2500	1100	7.5 HP	100 MM	VERTICAL	
AQUA 33	570	2500	1300	10 HP	100 MM	VERTICAL	
AQUA 615	950	2500	1100	15 HP	150 MM	VERTICAL	
AQUA 615	1200	2500	1800	20 HP	150 MM		

APPICATIONS:

AQUACULTURE PLANTS
HATCHERIES PLANTS
ELECTROPLATING INDUSTRIES
CONVEYING OF MILK POWDER & BULK DRUGS INDUSTRIES
CONVEYING OF SUGARS, MAIDA FOR FOOD & BAKERY

AIRVAK SOUND PROOF ACOUSTIC ENCLOSURES



NOISE INSULATION ENCLOSURES: AIRVAK acoustic enclosures are one of the most effective means for containment of excessive noise and for then insulation of the workers from the noise. Even where the silencers are used, they can only treat the air borne noise. The treatment of mechanical noise from the blower, motor etc. is beyond the scope of silencers. Thus, in order to achieve low noise levels, that are often statutory requirements, Noise enclosures/Acoustic Hoods are required.

AIRVAK acoustic design is so Flexible with multi door for smooth operation of the equipment. AIRVAK has developed four door acoustic with proper louvers along with inbuilt exhaust fan for proper heat transmission.

MANY SPECIAL FEATURES OF AIRVAK ACOUSTIC ENCLOUSRE.

Easy To Operate

Single Or Double Glazed Windows

Louvers To Minimize Water Entry And Maximize

Air Flow Through The Enclousre

Rubber Mounted Vibration Isolation.

Proper Ventilation & Cooling

Hinged Or Lift Doors With Single Or Double Seals.



NOISE CONTROL

Noise can be effectively controlled within the acceptable levels by:

Noise Control at Design Stage

Noise Control at Source

Control of Noise Transmission Path

Protective Measures at the Receiver

Design The sound reduction enclosures are specially designed to reduce noise pollution to suit the local environment. These are engineered to take care of air intake and outlet, resulting in a pleasing and attractive design.

Construction The robust bodywork of sound reduction enclosures is due to its construction from preformed heavy gauge sheet steel section and its reinforcement with fabricated superstructure. Rubber gaskets are provided to all doors and external joints to resist weathering. The bolted structure provides easy removal of panels for maintenance of servicing of Blowers.

Air Circulation Sufficient cooling air inlet acoustic louvers are provided in the enclosure for efficient air circulation avoiding derating of the machine.

Installation The sound reduction enclosures are preassembled on a support frame and can be easily and quickly assembled at site.

AIRVAK MECHANICAL VACUUM BOOSTERS





AIRVAK Mechanical Vacuum Booster Pumps, import substitutes, are used in growing number of applications where fast pump down times are required, and environment or energy usage concerns, rule out any alternative pump selection. Airvak Booster Pumps enhance the performance, ultimate vacuum and pumping speed of oil-sealed/waterring/dry vacuum type of mechanical pumps, which are widely used in the industry

OPERATING PRINCIPLE

AIRVAK Vacuum Boosters are positive displacement pumps with two figure eight shaped impellers rotating in opposite directions inside the casing. As each lobe of an impeller passes the blower inlet, it traps a quantity of air equal to exactly one fourth the displacement of the blower.

This entrapment occurs four times per revolution. The entrained air is forced around the case to the blower outlet. Timing gears accurately position the impellers in relation to each other to maintain the minute clearances so vital to the high volumetric efficiency of the pump.



KEY FEATURES

Boosts vacuum levels of backing pumps, thereby reducing process temperature Boosts volumetric displacement, Thereby reducing Process time.

Model	Capacity (M3/Hr)	Maximum Differential Pressure (Mbar)	Rec. Motor HP/1440 RPM	Rec. Line Size
AVB1	260	90	1.5 HP	65
AVB5	400	120	ЗНР	65
AVB15	800	90	5HP	80
AVB30	1650	70	7.5HP	125
AVB50	2950	50	10HP	125
AVB60	3900	65	15HP	200
AVB70	5250	45	15HP	200

Application:

Evaporative Concentration, Vacuum Distillation, Polymerization, Crystallization, Vacuum Impregnation, Vacuum Drying, Sterlization, Vacuum Cooling, Object Metallising, Roll Metallisation, Semi-conductor Processing, Manufacture of Vacuum & Microwave Tubes, Manufacture of GLS Automotive & Miniature Lamps, Tube Light Production, Sintering, Brazing, Electron Beam Welding, Heat Treatment, Ionic Nitriding, Tool Coating, Vacuum Casting, Degassing & Refining, Plasma Welding, Evaporation, Sputtering, Space Research and Development

AIRVAK Boosters Advantages High vacuum of the order of 0.001 Torr or better High pumping speeds at low pressures, capacity is boosted by 8 to 10 times or more Relatively low power consumption for such performance boosting Considerable reduction in pump down time of vacuum machine Prevents Oil back streaming from Rotary pumps Dry Pumping suitable for Gas/Vapour Loads

AIRVAK Boosters Features Entirely mechanical, light weight and compact design High operating speeds because of dynamically balanced rotors and helical ground gears for long life and quiet operation Can be mounted separately from the backing pump or directly on the inlet of the backing pump ISO Flanges Unique impeller design for high volumetric efficiency Compatible with all vacuum systems Efficient air-cooled design









PRV

BALL BEARING

GEAR







OIL SEAL

PACKAGE BLOWER

FILTER







NRV



ROTOR



AIRVAK BLOWERS PVT. LTD.

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