amikon®
BLOWERS & SYSTEMS PVT. LTD.
We Understand Your Needs

A Right Blowers for Right Projects

Rotary Positive Displacement Twin Lobe & Tri Lobe Compressors (ROOTS Blowers)






Twin Lobe Roots Blowers	Tri Lobe Roots Blowers	Gas Blower
Water Cooled Blower	Acoustic Enclosures / Hood	Ring Blowers/Side Channel Blower
Filter Press	Sludge De-watering Machine	Waste Water Equipment

■ Blowers ■ Pumps ■ Waste Water Equipments

24 Months Warranty | IAF | MSME Ministry of MSME, Govt. of India | Make in India

www.amikonblowers.com

ABOUT US

AMIKON Blowers & Systems is engaged in the activity of manufacturing Roots Type Twin & Three Lobe Blowers under registered brand name of AMIKON by a team of competent engineers with vast expertise in Twin & Three Lobe Blowers technology AMIKON BLOWERS specializes in application engineering of Roots Type Twin Lobe Blowers, Three Lobe Blowers, Gas Blowers, Water Cooled Blowers, Vacuum Blower, Aqua Culture Blowers Spare Parts, Acoustic Hood, used for various industries. Such as Flue Gas Application in Sponge iron, Silo Aeration for cement Industry , Bulker Unloading, Pneumatic Converying, Sugar Plants, Water Treatment Plants, Sewage Treatment Plants, Waste Water Treatment Plants, Effluent Treatment Plants, Aquaculture Farm, Chemicals & Pharmaceuticals Plants, Food Industries etc.

VISION

Our vision is to be the premier global leader in pressure and vacuum technologies, pioneering innovative solutions that enhance efficiency and sustainability. Through dedicated research and development, we aim to provide evolve solutions.

MISSION

Our mission is to achieve 100% customer satisfaction through continuous improvement and innovation. We offer tailored solutions, prioritize efficient after-sales service, and nurture positive relationships with stakeholders to evolve into a strong, reputable organization.

VALUES

- Customer Focus
- Sincerity at workplace
- Respect for Individuals
- Institution Building thru skill enhancement
- Transparent Communication Channels
- Ethics & Integrity to know what is right act responsibility our clients, colleagues and community.

APPLICATIONS

- Water Treatment Plants for back washing 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, similar material baggase, granules, powders and other.
- Regeneration of Dryers & Molecular Sieves.

QUALITY MANUFACTURE

- **Casting:** All Amikon blowers units are single piece construction and precision machined cast iron, with ribs for strength and consistent thermal behavior.
- **Bearings:** All Amikon blowers units are using SKF/FAG anti friction bearing type, vary with machine.
- **Timing Gears:** Forged steal gear with hardened and ground teeth to reduced vibrations and ensures accurate rotor timing for smooth and efficient operation.
- **Shaft:** Impeller shafts are alloy steel forgings that allow higher operating pressure and rotation speeds.
- **Steel:** Low-wear non contracting, labyrinth-type seal ensure performance and long life.
- **Rotors:** Made from cast iron or S.G. Iron with stiff design for maximum life. By CNC and 3D machinery control to ensure the highest performances providing trouble-free performance and durability.

OUR PRESTIGIOUS CLIENTS







PERFORMANCE TABLE

Model	SPEED	1000 MMWG		2000 MMWG		3000 MMWG		4000 MMWG		5000 MMWG		6000 MMWG		7000 MMWG		SIZE MM
	RPM	M^3/HR	BHP	M^3/HR	BHP	M^3/HR	BHP	M^3/HR	BHP	M^3/HR	BHP	M^3/HR	BHP	M^3/HR	BHP	
BL-315	940	25	0.54	24	0.6	22	0.69	19	0.81	16	0.95					40
	1440	50	0.61	46	0.74	42	0.91	w39	1.04							
BL-365	940	45	0.6	35	0.8	25	1.13	20	1.26	14	1.56					40
	1200	55	0.7	40	0.86	37	1.13	30	1.45	24	1.76					
	1500	95	0.78	69	1.23	58	1.35	50	1.9	60	2.56					
BL-42	1000	77	0.7	67	1.1	59	1.5	52	1.9	46	2.2	40	2.6	35	3.01	40
	1200	98	0.9	87	1.3	79	1.8	72	2.2	66	2.7	61	3.1	56	3.6	
	1400	130	1.1	120	1.7	110	2.2	103	2.8	97	3.4	92	3.9	87	4.5	
BL-44	1000	100	0.9	82	1.3	70	1.8	60	2.3	81	2.8	43	3.3	36	3.8	65
	1200	145	1.1	127	1.8	115	2.4	105	3.1	96	3.8	88	4.4			
	1400	190	1.4	172	2.2	160	3.1	150	3.9	141	4.7	133	5.5			
BL-47	1000	181	1.5	155	2.4	135	3.3	118	4.2							80
	1200	263	2.01	237	3.2	217	4.4	200	5.5							
	1400	345	2.5	318	3.9	298	5.4									
BL-53	1000	165	1.4	150	2.2	137	2.9	127	3.6	118	4.4	110	5.1	103	5.8	80
	1200	232	1.9	216	2.9	205	3.8	194	4.8	185	5.8	177	6.8	170	7.8	
	1400	300	2.4	283	3.6	272	4.8	262	6.01	252	7.3	245	8.5	237	9.7	
BL-55	1000	205	1.6	182	2.5	165	3.5	1509	4.4	137	5.4	125	6.3	115	7.3	80
	1200	291	2.1	269	3.4	251	4.6	236	5.9	223	7.2	212	8.4			
	1400	380	2.6	355	4.2	338	5.8	323	7.4	310	9.01	298	10.5			
BL-57	1000	287	2.01	255	3.3	230	4.6	210	5.9	192	7.3	175	8.6			100
	1200	408	2.6	376	4.4	350	6.1	331	7.9	313	9.7					
	1400	530	3.3	497	5.5	473	7.7	452	9.9	434	12.1					
BL-59	1000	405	2.7	364	4.5	335	6.3	310	8.01							100
	1200	567	3.6	529	6.01	500	8.4	475	10.8							
	1400	731	4.5	693	7.5	665	10.5									
BL-512	1000	576	3.8	522	6.4	481	9.0	446	11.6	415	14.2	387	16.7			
	1200	718	4.6	664	7.7	622	10.8	587	13.9	556	17.0	528	20.1			
	1400	859	5.4	805	9.0	763	12.6	728	16.2	698	19.8					

NOTE:

- The above ratings are based on inlet air temperature of 104°F, ambient pressure 1 kg/cm², specific gravity of 1,0.
- Vacuum rating are based on inlet air at standard temperature of 104°F, discharge pressure 30"HG and specific gravity of 1,0.
- Performance testing as per BS 1571 Part II.
- Above 7000 MMWG pressure water cooled arrangement shall be provided.
- All specifications are subject to change without notice.

amikon® BLOWERS & SYSTEMS PVT. LTD.

PERFORMANCE TABLE

Model	SPEED	1000 MMWG		2000 MMWG		3000 MMWG		4000 MMWG		5000 MMWG		6000 MMWG		7000 MMWG		SIZE MM
	RPM	M^3/HR	BHP	M^3/HR	BHP	M^3/HR	BHP	M^3/HR	BHP	M^3/HR	BHP	M^3/HR	BHP	M^3/HR	BHP	
BL-67	1000	398	2.7	353	4.6	319	6.4	291	8.3	266	10.1	243	11.9	222	13.8	100
	1200	566	3.6	521	6.1	488	8.6	459	11.1	434	13.5	411	15.9	390	18.4	
	1400	734	4.6	690	7.6	656	10.7	627	13.8	602	16.8	579	19.9	558	23.1	
BL-610	900	531	3.4	472	5.8	427	8.3	388	10.7	355	13.2	324	15.6	296	18.1	125
	1200	756	4.5	697	7.8	651	10.9	613	14.3	579	17.6	549	20.9	521	24.1	
	1400	980	5.6	921	9.7	876	13.8	838	17.9	804	21.9	774	26.1	746	30.2	
BL-615	1000	808	4.7	725	8.3	662	11.9	604	15.7							150
	1200	1144	6.2	1061	11.1	998	16.1	944	20.9							
	1400	1480	7.8	1400	13.9	1334	19.9	1280	26.2							
BL-78	1000	705	4.2	655	7.2	617	10.2	585	13.2	556	16.2	531	19.2	507	22.2	125
	1200	980	5.6	930	9.6	892	13.6	860	17.6	831	21.6	806	25.6	782	29.6	
	1400	1255	7.1	1205	12.1	1167	17.1	1135	22.1	1107	26.9	1080	31.9	1057	36.9	
BL-710	1000	884	4.9	823	8.7	776	12.5	736	16.2	702	19.9	670	23.7	641	27.5	125
	1200	1228	6.6	1167	11.6	1120	16.6	1080	21.6	1045	26.6	1014	31.7	985	36.7	
	1400	1572	8.2	1511	14.5	1464	20.8	1424	26.9	1389	33.3	1358	39.6	1329	45.8	
BL-713	1000	1145	6.1	1064	10.9	1002	15.8	950	20.7	904	25.6	862	30.5	824	35.4	150
	1200	1591	8.1	1510	14.6	1448	21.1	1396	27.6	1350	34.1	1308	40.6			
	1400	2039	10.1	1958	18.2	1895	26.4	1843	34.5	1797	42.7	1755	50.8			
BL-717	1000	1490	7.9	1390	14.3	1310	20.7	1240	27.1							150
	1200	2084	10.6	1978	19.1	1897	27.6	1828	36.2							
	1400	2668	13.2	2562	23.9	2481	34.5	2413	45.2							
BL-812	1000	1279	8.8	1216	13.9	1168	19.2	1127	24.5	1091	29.7	1059	34.9	1030	40.1	150
	1200	1755	11.8	1693	18.7	1645	25.7	1604	32.6	1568	39.6	1536	46.5	1506	53.5	
	1400	2230	14.7	2170	23.4	2122	32.1	2080	40.8	2045	49.5	2012	58.1	1983	66.9	
BL-816	1000	1705	10.6	1621	17.5	1557	24.5	1502	31.4	1456	38.4	1413	45.3			200
	1200	2340	14.1	2256	23.3	2192	32.6	2138	41.9	2090	51.1	2048	60.4			
	1400	2976	17.6	2892	29.2	2828	40.8	2775	52.4	2727	64.1					
BL-820	1000	2130	12.3	2027	21.1	1880	38.4									200
	1200	2925	16.4	2822	28.1	2673	51.2									
	1400	3720	20.1	3615	34.9	3468	64.1									
BL-1012	1000	2185	13.4	2078	22.3	1995	31.2	1927	40.1	1867	49.1	1810	58.1	1760	66.9	150
	1200	3000	17.9	2893	29.8	2810	41.6	2743	53.6	2680	65.4	2625	77.3	2527	89.2	
	1400	3680	21.6	3573	36.1	3490	50.1	3420	64.7	3360	79.1	3305	93.4	3255	108.1	
BL-1016	1000	2937	16.5	2793	28.5	2683	40.4	2590	52.4	2507	64.4	2433	76.4	2365	88.4	250
	1200	4032	22.1	3890	38.1	3778	53.9	3683	69.9	3602	85.9	3527	102.1	3460	118.1	
	1400	4945	26.6	4800	45.8	4690	65.2	4598	84.5	4515	104.1	4440	123.1	4373	142.1	
BL-1020	1000	3755	19.8	3573	35.1	3430	50.5	3310	65.8	3205	81.11	3110	96.4			250
	1200	5157	26.4	4759	46.9	4830	67.3	4713	87.7	4608	109.1	4513	129.1			
	1400	6325	31.9	6140	56.6	6000	81.3	5880	106.1	5775	131.1	5680	155.1			

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.

Amikon 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.

PERFORMANCE TABLE

Model	SPEED	5000 MMWG		6000 MMWG		7000 MMWG		8000 MMWG		9000 MMWG		10000 MMWG		Cooling Water	SIZE MM NB
	RPM	M^3/HR	BHP	M^3/HR	BHP	M^3/HR	BHP	M^3/HR	BHP	M^3/HR	BHP	M^3/HR	BHP		
BL-42 WC	1000	48	2.22	42	2.59	38	2.96	33	3.33	29	3.7	25	4.07	2-3 LPM	40
	1200	68	2.66	63	3.11	58	3.55	53	4.01	49	4.44	45	4.89		
	1400	98	3.33	93	3.88	88	4.44	84	5.01	80	5.55				
BL53 WC	1000	132	4.6	124	5.4	116	6.2	110	6.9	103	7.8	86	8.6	4 - 5 LPM	80
	1200	186	5.8	178	6.8	170	7.8	163	8.7	157	9.7	107	10.07		
	1400	253	7.3	245	8.5	238	9.7	231	10.9	224	12.2	134	13.4		
BL-55 WC	1000	160	6.25	155	7.32	145	8.37	135	9.42	123	10.47	114	11.53	4 - 5 LPM	80
	1200	225	7.52	210	8.76	200	10.04	195	11.35	182	12.5	172	13.8		
	1400	309	9.39	295	10.97	285	12.55	277	14.13	267	15.71				
BL-67 WC	1000	322	11.21	299	13.3	278	15.3	258	17.3	240	19.4	214	21.4	5 - 6 LPM	100
	1200	490	14.6	467	17.2	446	19.9	427	22.5	408	25.2	280	27.9		
	1400	650	17.9	635	21.2	615	24.5	595	27.8	577	31.2				
BL-610 WC	900	430	14.7	400	17.4	375	20.1	345	22.8	321	25.6	285	28.3	6 - 8 LPM	125
	1200	655	19.1	625	22.6	596	26.1	570	29.7	546	33.2				
	1400	805	22.1	774	26.1	746	30.2	720	34.3						
BL-78 WC	1000	649	18.1	623	21.4	600	24.7	578	28.1	557	31.4	349	34.7	7 - 8 LPM	125
	1200	924	23.4	898	27.8	875	32.1	853	36.5	832	40.8	456	45.2		
	1400	1200	28.8	1175	34.2	1150	39.5	1128	44.9	1108	50.2				
BL-710 WC	1000	817	22.2	786	26.4	757	30.6	730	34.7	704	38.9	670	43.1	8 - 10 LPM	125
	1200	1161	28.9	1130	34.3	1101	39.7	1075	45.2	1049	50.6	901	56.1		
	1400	1506	35.5	1474	42.2	1445	48.9	1418	55.6						
BL-812 WC	1000	1252	33.5	1219	38.8	1190	44.6	1162	50.4	1136	56.2	1108	61.9	10 - 12 LPM	150
	1200	1570	39.6	1538	46.5	1508	53.5	1480	60.4	1454	67.4	1425	74.5		
	1400	1952	47.5	1919	55.8	1890	64.2	1862	72.5	1767	78.62	1743	86.7		
BL-1012 WC	1000	2140	54.5	2084	64.4	2034	74.3	1986	84.2	1942	94.2	1894	104.6	10 - 12 LPM	200
	1200	2684	65.4	2624	77.3	2578	89.2	2530	101.1	2486	113.2	2437	124.7		
	1400	3336	78.5	3281	92.8	3230	107.1	3183	121.3	3138	135.6	2980	149.7		
BL-1016 WC	1000	2876	71.6	2801	84.9	2733	98.2	2669	1115.5	2609	124.9	2546	138.4	16-18 LPM	250
	1200	3606	85.9	3532	101.8	3464	117.8	3400	133.6	3340	149.8	3274	165.7		
	1400	4483	102.9	4251	118.81	4183	137.4	4119	156.08	4060	174.7	4003	193.3		

NOTE:

- The above ratings are based on inlet air temperature of 104°F, ambient pressure 1 kg/cm², specific gravity of 1,0.
- Vacuum rating are based on inlet air at standard temperature of 104°F, discharge pressure 30"HG and specific gravity of 1,0.
- Performance testing as per BS 1571 Part II.
- All specifications are subject to change without notice.
- Above 7000 MMWG pressure water cooled arrangement shall be provided.

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PERFORMANCE TABLE

Model	SPEED	1000 mmWC		2000 mmWC		3000 mmWC		4000 mmWC		5000 mmWC		6000 mmWC		7000 mmWC		8000 mmWC	
	RPM	m³/hr	BKW	m³/hr	BKW	m³/hr	BKW	m³/hr	BKW	m³/hr	BKW	m³/hr	BKW	m³/hr	BKW	m³/hr	BKW
TL025	2850	26	0.3	23	0.4	20	0.5	18	0.6	16	0.7						
TL40	1500	31	0.2	25	0.4	21	0.5	17	0.6	14	0.7	11	0.8				
	1800	40	0.3	34	0.4	30	0.6	26	0.7	23	0.9	20	1.0				
	2200	52	0.3	46	0.5	42	0.7	38	0.9	35	1.1	32	1.2				
TL65	800	116	0.8	100	1.2	87	1.6	77	2.0	67	2.5	59	2.9	51	3.3	44	3.7
	1100	174	1.1	158	1.7	145	2.2	135	2.8	125	3.4	117	4.0	109	4.5	102	5.1
	1700	290	1.7	274	2.6	261	3.4	251	4.3	242	5.2	233	6.1	226	7.0	218	7.9
TL80	800	209	1.4	179	2.1	155	2.9	136	3.7	118	4.4	102	5.2	88	6.0	74	
	1100	315	1.9	285	2.9	261	4.0	242	5.1	224	6.1	209	7.2	194	8.2	181	9.3
	1400	422	2.4	391	3.7	368	5.1	348	6.4	330	7.8	315	9.1	300	10.5	287	11.8
	1800	563	3.1	533	4.8	509	6.5	489	8.3	472	10.0	456	11.7	442	13.5	428	15.2
TL100	800	306	1.7	270	2.7	242	3.8	218	4.9	197	6.0	179	7.0	161	8.1	145	9.2
	1100	454	2.3	418	3.8	390	5.2	366	6.7	345	8.2	326	9.7	309	11.1	293	12.6
	1400	602	2.9	565	4.8	537	6.7	514	8.5	493	10.4	474	12.3	457	14.2	441	16.0
	1700	750	3.5	713	5.8	685	8.1	662	10.4	641	12.7	622	14.9	605	17.2	589	19.5
TL125	1100	831	3.5	780	6.1	741	8.7	708	11.3	679	13.9	653	16.5	629	19.1	606	21.7
	1200	1022	4.2	971	7.3	932	10.4	899	13.6	870	16.7	844	19.8	820	22.9	797	26.0
	1400	1212	4.9	1161	8.6	1122	12.2	1090	15.8	1061	19.4	1034	23.1	1010	26.7	988	30.3
	1600	1403	5.6	1352	9.8	1313	13.9	1280	18.1	1251	22.2	1225	26.4	1201	30.5	1179	34.7
	1800	1594	6.3	1543	11.0	1504	15.7	1471	20.3	1442	25.0	1416	29.7	1392	34.3	1369	39.0
TL150	1000	1109	4.3	1059	7.6	1021	11.0	989	14.3	960	17.6	935	21.0	911	24.3	889	27.6
	1200	1355	5.1	1305	9.1	1267	13.1	1235	17.1	1206	21.2	1181	25.2	1157	29.2	1135	33.2
	1400	1600	6.0	1551	10.7	1512	15.3	1480	20.0	1452	24.7	1426	29.4	1403	34.0	1381	38.7
	1600	1846	6.8	1796	12.2	1758	17.5	1726	22.9	1698	28.2	1672	33.5	1649	38.9	1627	44.2
	1800	2092	7.7	2042	13.7	2004	19.7	1972	25.7	1944	31.7	1918	37.7	1894	43.8	1872	49.8
EL200	1200	2219	9.8	2124	16.4	2052	23.1	1991	29.7	1937	36.4	1888	43.0	1843	49.7	1801	56.3
	1400	2627	11.4	2532	19.2	2460	26.9	2399	34.7	2345	42.5	2296	50.2	2251	58.0	2209	65.7
	1500	2831	12.2	2736	20.5	2664	28.9	2603	37.2	2549	45.5	2500	53.8	2455	62.1	2413	70.4
	1700	3239	13.9	3144	23.3	3072	32.7	3010	42.1	2957	51.5	2908	61.0	2863	70.4	2821	79.8
	1800	3443	14.7	3348	24.7	3276	34.6	3214	44.6	3161	54.6	3112	64.6	3067	74.5	3025	84.5
TL250	1200	3447	13.3	3324	23.5	3230	33.7	3150	43.8	3080	54.0	3016	64.2	2958	74.4	2903	84.5
	1400	4071	15.5	3948	27.4	3854	39.3	3774	51.1	3704	63.0	3640	74.9	3582	86.8	3528	98.6
	1600	4696	17.7	4572	31.3	4478	44.9	4398	58.4	4328	72.0	4264	85.6	4206	99.2	4152	112.7
	1700	5008	18.9	4884	33.3	4790	47.7	4710	62.1	4640	76.5	4576	90.9	4518	105.3	4464	119.8
	1800	5320	20.0	5196	35.2	5102	50.5	5022	65.8	4952	81.0	4889	96.3	4830	111.5	4776	126.8

NOTE:

- The above ratings are based on inlet air temperature of 104°F, ambient pressure 1 kg/cm2, specific gravity of 1,0.
- Vacuum rating are based on inlet air at standard temperature of 104°F, discharge pressure 30”HG and specific gravity of 1,0.
- Performance testing as per BS 1571 Part II.
- Above 7000 MMWG pressure water cooled arrangement shall be provided.

amikon® BLOWERS & SYSTEMS PVT. LTD.

PERFORMANCE TABLE

Model	SPEED	1000 MMWG		2000 MMWG		3000 MMWG		4000 MMWG		5000 MMWG		6000 MMWG		7000 MMWG		SIZE MM
	RPM	m^3/hr	BHP	m^3/hr	BHP	m^3/hr	BHP	m^3/hr	BHP	m^3/hr	BHP	m^3/hr	BHP	m^3/hr	BHP	
BIO-365	940	45	0.6	35	0.8	25	1.13	20	1.26	14	1.56					40
	1200	55	0.7	40	0.86	37	1.13	30	1.45	24	1.76					
	1500	95	0.78	69	1.23	58	1.35	50	1.9	60	2.56					
BIO-42	1000	77	0.7	67	1.1	59	1.5	52	1.9	46	2.2	40	2.6	35	3.01	40
	1200	98	0.9	87	1.3	79	1.8	72	2.2	66	2.7	61	3.1	56	3.6	
	1400	130	1.1	120	1.7	110	2.2	103	2.8	97	3.4	92	3.9	87	4.5	
BIO-53	1000	165	1.4	150	2.2	137	2.9	127	3.6	118	4.4	110	5.1	103	5.8	80
	1200	232	1.9	216	2.9	205	3.8	194	4.8	185	5.8	177	6.8	170	7.8	
	1400	300	2.4	283	3.6	272	4.8	262	6.01	252	7.3	245	8.5	237	9.7	
BIO-55	1000	205	1.6	182	2.5	165	3.5	1509	4.4	137	5.4	125	6.3	115	7.3	80
	1200	291	2.1	269	3.4	251	4.6	236	5.9	223	7.2	212	8.4			
	1400	380	2.6	355	4.2	338	5.8	323	7.4	310	9.01	298	10.5			
BIO-57	1000	287	2.01	255	3.3	230	4.6	210	5.9	192	7.3	175	8.6			100
	1200	408	2.6	376	4.4	350	6.1	331	7.9	313	9.7					
	1400	530	3.3	497	5.5	473	7.7	452	9.9	434	12.1					
BIO-59	1000	405	2.7	364	4.5	335	6.3	310	8.01							100
	1200	567	3.6	529	6.01	500	8.4	475	10.8							
	1400	731	4.5	693	7.5	665	10.5									
BIO-67	1000	398	2.7	353	4.6	319	6.4	291	8.3	266	10.1	243	11.9	222	13.8	100
	1200	566	3.6	521	6.1	488	8.6	459	11.1	434	13.5	411	15.9	390	18.4	
	1400	734	4.6	690	7.6	656	10.7	627	13.8	602	16.8	579	19.9	558	23.1	
BIO-610	900	531	3.4	472	5.8	427	8.3	388	10.7	355	13.2	324	15.6	296	18.1	125
	1200	756	4.5	697	7.8	651	10.9	613	14.3	579	17.6	549	20.9	521	24.1	
	1400	980	5.6	921	9.7	876	13.8	838	17.9	804	21.9	774	26.1	746	30.2	
BIO-615	1000	808	4.7	725	8.3	662	11.9	604	15.7							150
	1200	1144	6.2	1061	11.1	998	16.1	944	20.9							
	1400	1480	7.8	1400	13.9	1334	19.9	1280	26.2							
BIO-78	1000	705	4.2	655	7.2	617	10.2	585	13.2	556	16.2	531	19.2	507	22.2	125
	1200	980	5.6	930	9.6	892	13.6	860	17.6	831	21.6	806	25.6	782	29.6	
	1400	1255	7.1	1205	12.1	1167	17.1	1135	22.1	1107	26.9	1080	31.9	1057	36.9	
BIO-710	1000	884	4.9	823	8.7	776	12.5	736	16.2	702	19.9	670	23.7	641	27.5	125
	1200	1228	6.6	1167	11.6	1120	16.6	1080	21.6	1045	26.6	1014	31.7	985	36.7	
	1400	1572	8.2	1511	14.5	1464	20.8	1424	26.9	1389	33.3	1358	39.6	1329	45.8	
BIO-713	1000	1145	6.1	1064	10.9	1002	15.8	950	20.7	904	25.6	862	30.5	824	35.4	150
	1200	1591	8.1	1510	14.6	1448	21.1	1396	27.6	1350	34.1	1308	40.6			
	1400	2039	10.1	1958	18.2	1895	26.4	1843	34.5	1797	42.7	1755	50.8			
BIO-717	1000	1490	7.9	1390	14.3	1310	20.7	1240	27.1							150
	1200	2084	10.6	1978	19.1	1897	27.6	1828	36.2							
	1400	2668	13.2	2562	23.9	2481	34.5	2413	45.2							
BIO-812	1000	1279	8.8	1216	13.9	1168	19.2	1127	24.5	1091	29.7	1059	34.9	1030	40.1	150
	1200	1755	11.8	1693	18.7	1645	25.7	1604	32.6	1568	39.6	1536	46.5	1506	53.5	
	1400	2230	14.7	2170	23.4	2122	32.1	2080	40.8	2045	49.5	2012	58.1	1983	66.9	
BIO-816	1000	1705	10.6	1621	17.5	1557	24.5	1502	31.4	1456	38.4	1413	45.3			200
	1200	2340	14.1	2256	23.3	2192	32.6	2138	41.9	2090	51.1	2048	60.4			
	1400	2976	17.6	2892	29.2	2828	40.8	2775	52.4	2727	64.1					

MECHNICAL VACUUM BOOSTER

We are leading manufacturer for Mechanical Vacuum Boosters.

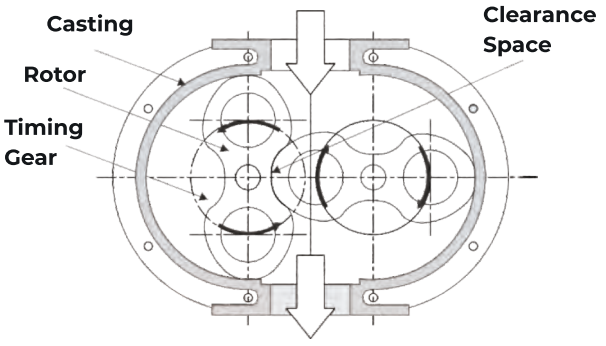
Mechanical Vacuum Boosters find applications majorly in following fields as under:-

Metallising	Transformer Oil Filteration	Waste Oil Re-refining	Vacuum Distillation	Solvent Recovery
Transformer Drying	Vacuum Furnaces	Vacuum Impreganation	Vacuum Tray Drying	Vacuum Polyster/Chip Drying

Purpose of Using Vacuum Booster:

- The Mechanical Vacuum Booster is used to increase the volumetric capacity /pumping speed of the process which is not being rendered or lacked by the Backing Vacuum Pump.
- It also enhances the ultimate Vacuum Level.
- It also reduces the downtime of the process.
- It finds it's use as a replacement to Steam Ejector / Boosters where there is a massive reduction in the power consumption to the steam consumption.

Operating Principle / Construction of Mechanical Vacuum Boosters:



LAYOUT DESIGN

The Mechanical Vacuum Boosters are Positive Displacement Roots Type pumps. The basic design of Mechanical Vacuum Booster is having Outer Casing and inside there are twin 8 shaped lobes/ rotors or also called as Roots which helps in imparting high Vacuum level due to precision clearance between the lobes and the lobes/ Outer Casing. The two lobes operate in opposite direction, with one Lobe being driver attached with Electric Motor and other lobe being driven through Timing gears. As the lobes rotate in opposite direction the Air enters from the suction /Inlet of Vacuum Booster, get entrapped between the rotors. As the lobes rotate, each part of lobe trap a quantity of air equal to one fourth of displacement of rotors. This entrapment occurs four times per revolution of rotors. The air entered is forced inside of the Casing and then thrown out of the Vacuum Booster discharge /outlet. Timing gears are positioned to keep the rotors clearance enacted as desired so to keep the Volumetric efficiency of the Vacuum Booster to be high.

The rotors are attached with shaft, which is further enacted with the Casing through Lip Seals/ Piston Rings. The Seals used depends on the application so to ensure better life of the timing gears, further bearings and thereafter the rotor life. It then ensures the complete life of the Vacuum Booster. The rotors of the Vacuum Booster in standard rotates at 1440 RPM.

KEY FEATURES AND ADVANTAGES OF AMIKON VACUUM BOOSTERS:

01. Light weight and robust.
02. Gives high ultimate Vacuum
03. Dynamically balanced rotors.
04. Can be connected directly with the inlet of Backing Vacuum Pump
05. Can be operated at high speed of 2900 RPM.
06. High Volumetric efficiency.
07. Completely dry in nature.
08. Air cooled design.
09. Relatively good sealing arrangement to avoid backing pressure into Vacuum area.
10. Compact design.

NOTE :

We at AMIKON provides the following options as under:

1. The rotors MOC as Cast Iron/ SG iron.
2. The Seals in Viton/ Piston Rings.
3. We can also offer chrome plating on Rotors.

MODEL	Capacity (m^3/hr.)	Motor recommended (HP) (1500 RPM)	Maximum Differential Presure (mbar)	Line Size (mm)
AMVB 01	260	1.5 (960 RPM)	90	65
AMVB 05	400	3.0	120	65
AMVB 15	800	5.0	90	80
AMVB 30	1600	7.5	70	125
AMVB 50	2900	10.0	65	125
AMVB 60	3900	15.0	50	200
AMVB 70	5250	15.0	45	200

RING BLOWER / SIDE CHANNEL BLOWERS

Side channel blowers consist of a ring-shaped housing. Side channel and the rotor opposite create a working area between intake and blow-out connections. The blade segments of the rotor suck the air and create radial pressure during turning. The centrifugal force causes the air to be pressed to the outside in the side channel. This creates a circular current between channel and blade segments. Due to the radial pressure, the air to be compressed in the chamber begins turning. The spiral swirling compresses the air several times and causes the pressure to rise. At the end of the chamber the compressed air is then pushed pulsation-free by the rotor through the blow-out connection.

DESCRIPTION

Ring blowers, also known as side channels / regenerative blowers are directly driven by electric motors. The impeller in the blowers are mounted directly on the motor shaft for contact free compression, without friction.

Maximum operational reliability and service life, even at high differential pressures, is ensured by the arrangement of the bearings outside the compression chamber.

FEATURES

- High reliability, Low Maintenance & Compact Design
- Can work upto 20,000 hours without maintenance down time.
- Built-in silencer, Low Noise, Trouble free operation

SINGLE STAGE RING BLOWER							
MODEL	POWER	DISPLACEMENT	VACCUM	PRESSURE	PRESSURE PSI	SOUND	WEIGHT
ABSC-25	0.25 HP	80 M³/hr/47 CFM	120 MBR	120 MBR	1.74PSI	53 DB	9 KG
ABSC 50	0.5 HP	80 M³/hr/47 CFM	130 MBR	140 MBR	2.03PSI	62 DB	12 KG
ABSC-100	1 HP	145 M³/hr/85 CFM	150 MBR	160 MBR	2.32PSI	62 DB	14 KG
ABSC-150	1.5 HP	210 M³/hr/123 CFM	170 mbar	170 mbar	2.46PSI	64 DB	22 KG
ABSC-200	2 HP	210 M³/hr/123 CFM	190 mbar	200 mbar	2.9PSI	70 DB	23 KG
ABSC-300	3 HP	270 M³/hr/123 CFM	230 mbar	250 mbar	3.91PSI	67 DB	27 KG
ABSC-400	3 HP	320 M³/hr/188 CFM	270 mbar	290 mbar	4.2PSI	69 DB	37 KG
ABSC-500	5 HP	400 M³/hr/235 CFM	290 mbar	330 mbar	4.78P5I	77 DB	40 KG
ABSC-750	7.5 HP	530 M³/hr/312 CFM	300 mbar	320 mbar	4.64PSI	80 DB	62 KG
ABSC-1000	10 HP	530 M³/hr/312 CFM	320 mbar	380 mbar	5.51PSI	82 DB	68 KG

DOUBLE STAGE RING BLOWER							
MODEL	POWER	DISPLACEMENT	VACCUM	PRESSURE	PRESSURE PSI	SOUND	WEIGHT
ABSC-100	1 HP	88 M³/hr/52 CFM	210 mbar	240 mbar	3.48 PSI	55 DB	14 KG
ABSC 200	2 HP	150 M³/hr/88 CFM	280 mbar	280 mbar	4.06 PSI	66 DB	24 KG
ABSC-300	3 HP	150 M³/hr/89 CFM	330 mbar	440 mbar	6.38 PSI	66 08	27 KG
ABSC-300HD	3 HP	230 M³/hr/135 CFM	290 mbar	360 mbar	5.22 PSI	72 DB	35 KG
ABSC-400	4 HP	230 M³/hr/135 CFM	340 mbar	410 mbar	5.94 PSI	72 DB	39 KG
ABSC-500	5 HP	230 M³/hr/135 CFM	390 mbar	490 mbar	7.I PSI	72 DB	45 KG
ABSC-750	7.5 HP	320 M³/hr/188 CFM	440 mbar	500 mbar	7.25 PSI	73 DB	70 KG
ABSC-1000	10 HP	320 M³/hr/188 CFM	440 mbar	570 mbar	8.26 PSI	73 DB	77 KG
ABSC-1500	15 HP	520 M³/hr/317 CFM	430 mbar	660 mbar	9.57PSI	74 DB	123 KG

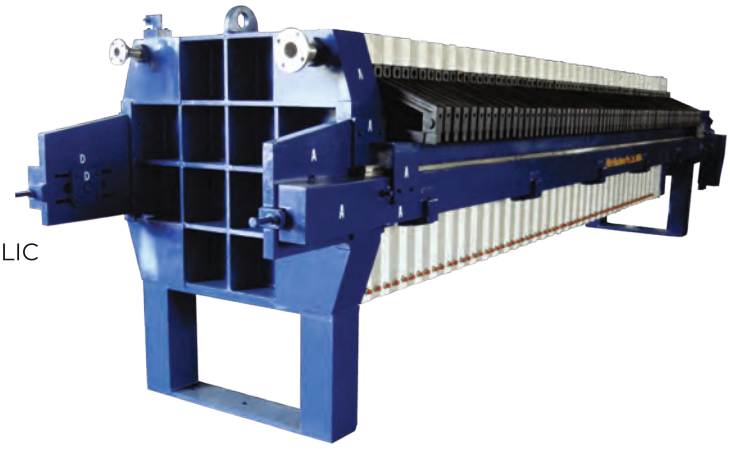
FILTER PRESS

DESCRIPTION

AMIKON Filter Press is a solid liquid separating equipment working on the principle of pressure feeding. It has been used successfully in almost every industrial filter application over its years of history. It consists of a series of PP filter plates and cast iron or mild steel structure. The filter medium i.e filter cloth is provided in between the plates to separate solids from the liquids. A filter pump is required to feed the mother liquor through feeding nozzle to the chambers formed between the plates and filter medium, leaving the solid trapped inside and the liquid drained out.

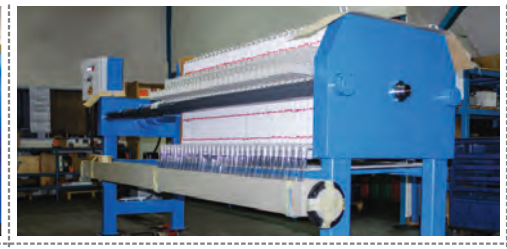
SPECIFICATION

STRUCTURE	-	CAST IRON/ MILD STEEL
SIZES	-	12" to 48"
NOZZLE	-	SS 304/PP
CLOSING DEVICE TYPE	-	MANUAL, RATCHED GEAR HAND HYDRAULIC AND POWER HYDRAULIC
FILTER PLATE	-	PP
DELIVERY	-	Open
WORKING PRESSURE	-	UPTO 7 kg/cm²
FILTER MEDIA	-	PP/NYLON/PO LYSTER/COTTON
WORKING TEMP.	-	UPTO60 °C



TECHNICAL DETAIL

MODEL NO.	PP PLATE SIZE	NO. OF CHAMBERS	CAKE HOLDING CAPACITY	FILTRATION AREA	OPERATING TEST PRESSURE BARS	FLOOR AREA RATIO IN MTRS.
AEFP 12	12" X 12"	11	24 Ltrs.	1.62 m²	2 - 3 kg/cm²	1.8 x 0.7
AEFP 18	18" X 18"	17	120 Ltrs.	6.20 m²	3 - 4 kg/cm²	2.1 x 0.9
AEFP 24	24" X 24"	23	290 Ltrs.	15.59 m²	4 - 5 kg/cm²	2.2 x 1.1
AEFP 30	30" X 30"	29	530 Ltrs.	31.10 m²	5 - 6 kg/cm²	2.7 x 1.3
AEFP 36	36" X 36"	35	930 Ltrs.	54.50 m²	5 - 6 kg/cm²	3.6 x 1.5
AEFP 48	48" X 48"	47	2165 Ltrs.	108.10 m²	6 - 7 kg/cm²	5.5 x 1.8



AMIKON BLOWERS & SYSTEMS

WE'RE HELPING INDUSTRIES

All the Data recorded are forwarded to our Design and Production Depts. Who analysis the data and take corrective action to ensure that the specific problem is not repeated again. We have got the Service Center in the various parts of the country and depending upon the type of problems, we select the technician so that job is carried out to entire satisfaction of the customers. We are providing the Services from our service centers, however depending upon the gravity and situation of the problems, service engineers are sent either from their respective areas or from other areas.

HIGHEST PRIORITY
Amikon has highest priority for customer satisfaction and have special trust on pre-sales as well as post sales services.

PRE-SALES
Pre-sales services are looked after by concerned Sales Executives in touch with your esteemed Organization.

AFTER SALES SERVICE
For after sales services, Amikon have separate cell names as Customer Service Cell, looking after various services related calls from the customers.

QUALITY MANUFACTURE

A **CASTING:**
All Amikon Blowers units are single piece construction and precision machined cast iron, with ribs for strength and consistent thermal behaviour

B **BEARINGSA:**
All Amikon Blowers units are using SKF/FAG anti-friction bearing type vary with machine

C **TIMING GEARS:**
Forged Steel gear with hardened and ground teeth to reduced vibrations and ensures accurate rotor timings for smooth abd efficient operations

D **SHAFTS:**
Impeller Shafts are alloy steel forgings that allow higher operating pressure and rotation speeds

E **SEAL:**
Low-wear non contracting, labyrinth-type seals ensure performance and long life

F **Rotors:**
Made from cast iron or S. G. iron with stiff design or maximum life.
By CNC and 3D machinery control to ensure the highest performances providing with trouble-free performance and durability

APPLICATIONS

AGRICULTURE

CONSTRUCTION

CHEMICAL INDUSTRY

FOOD & BEVERAGE

OIL & GAS

LIFE SCIENCE & LABORATORIES

GENERAL MANUFACTURING

MARINE TECHNOLOGY

PHARMACEUTICAL INDUSTRY

PACKAGING INDUSTRIES

POWER INDUSTRY

CEMENT PLANT

ENVIRONMENTAL

STEEL INDUSTRY

PETROCHEMICAL INDUSTRY

SUGAR INDUSTRY

ALUMINIUM

FLUE-GAS DESULFURIZATION

AQUACULTURE

BREWERIES

ACOUSTIC ENCLOSURES

FEATURES

- Extremely good soundproofing.
- Reduce noise level by approximate 10-15 db (A)
- Easy to assemble inside for repair & maintenance work
- Suitable for open istallation
- Available in glass wool chips & mineral wool.
- Proper air ventilation systems is available for proper cooling of air blower.
- Thickness – eighteen Gauges (Approx. 1.5mm) – Foam of High Density + Glass wool.
- Powder Coating of Exterior Grade for UV Stabilization and Weather
- Proofing for many years of service.

WHY AMIKON BLOWER'S?

Superior Quality Products having robust design.	Very competitive Price with best quality.	Warranty 24 Months from the date of invoice, Including Consumable Spare Parts.	100% Oil Free Air Delivery.
Both Side Oil Lubrication Design all Blowers.	Providing After Sale Service within 24-72 hrs. or travelling time	Small & compact blowers available (5CMH to 50CMH) or (0.75HP to 2HP)	Mechanical sealing by piston ring and rotary oil sealing.
Dispatching blowers within 24-72 Hrs. up to 1500 CMH capacity.	Less Noise from 3 to 5 DB compare to others.	Providing services and spares for other makes.	Dynamically Balanced impeller/ Rotor as per Gr 6.3 ISO 1940/1 (1986)

SLUDGE DE-WATERING MACHINE - MULTI DISK SCREW PRESS

Sludge Dewatering Screw Press is designed to apply three functions into one unit, in which the three zones are conditioning zone, thickening zone and dewatering zone. This machine able to run at inlet as below as 0.7% and as high as 8%. This machine will give outlet consistency from 18% to 25% depending on the nature of sludge.

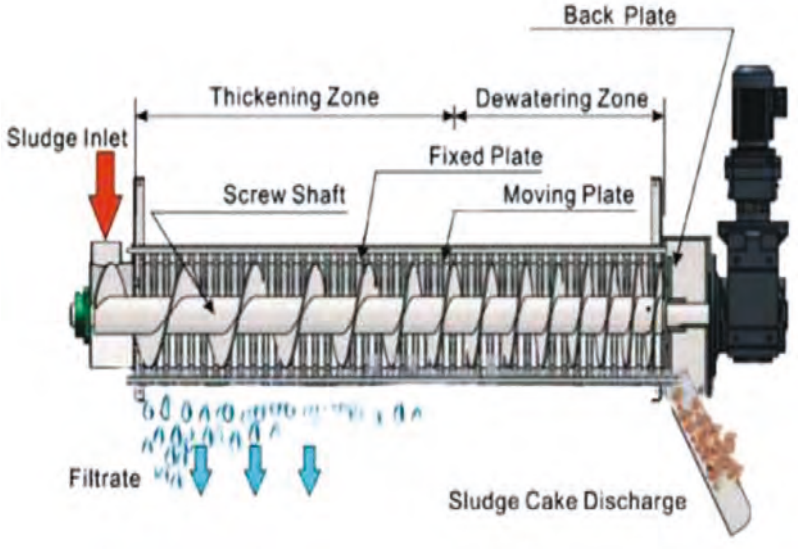
Features:

- Extremely Low energy consumption
- No requirement of Thickener or drying beds
- Clog-Free & small foot print
- Fully automatic control
- High resistance to oily sludge
- Lesser Manpower requirement
- Very Low water requirement for washing
- Less Noise, less odour

Available Models

Model	Inlet Flow @1%Conc.	Dry Sludge (Kg/hr)	Electrical Load (KW)	Dimension in M (LxWxH)	Rinsing Water (L/hr)
AM 1.0	1.0 m^3/hr	5-10 kg/hr	0.36	1.8x0.8x1.00	40
AM 1.5	1.5 m^3/hr	10-15 kg/hr	0.36	2.1x0.8x1.1	50
AM 2.0	2.0 m^3/hr	10-15 kg/hr	0.55	2.1x0.9x1.1	60
AM 3.0	3.0 m^3/hr	20-30 kg/hr	0.55	2.1x1.0x1.1	80
AM 4.0	4.0 m^3/hr	30-40 kg/hr	0.75	2.9x1.0x1.5	100
AM 6.0	6.0 m^3/hr	40-60 kg/hr	0.75	3.0x1.0x1.5	150
AM 10	10.0 m^3/hr	70-100 kg/hr	0.92	3.2x1.0x1.6	200
AM 15	15.0 m^3/hr	120-150 kg/hr	1.30	3.3x1.1x1.7	250

*** Due to continuous development, specifications may change without notice.**



AMC & SPARE PARTS

- Amikon AMC of Blowers is availble with & without consumables
- Amikon Genuine and originals spares parts always recommended for 100% efficiency of blowers
- On site and in house services of any make of blowers is also available.

Spare Parts

Rotor Set

Timing Gear

Bearing Set & Oil Seals

Accessories

Pressure Guage

Pressure Releif Valve

NRV

Air Filter

amikon®
BLOWERS & SYSTEMS PVT. LTD.

AMIKON BLOWERS & SYSTEMS PVT. LTD.

GET IN TOUCH WITH US FOR
ANY QUESTIONS ABOUT OUR INDUSTRIES OR PROJECTS.

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CORPORATE OFFICE: Office No.G-92,Ground Floor, Vardhmaan Grand Plaza, Sector-3, Rohini, New Delhi - 110085 (INDIA)
MANUFACTURING UNIT: Unit -1 Plot No. 1851 MIE, Part-B, Bahadurgarh - 124507 Haryana
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Ministry of MSME, Govt. of India

ENGINEERING | EVALUATION | DESIGNING | MANUFACTURING | TESTING | EXECUTION | POST SALES & SERVICE