



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



**Right Blowers
for Right Projects**



Direct Drive Blowers



Tri-Lobe Blower



Acoustic Hood



Air Cooled Blower



Water Cooled Blowers

AMIKON Blowers & Systems

ROOTS TYPE TWIN LOBE BLOWERS | TRI LOBE BLOWERS | GAS BLOWERS | ACOUSTIC HOOD |
MECHANICAL VACUUM BOOSTERS

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** is specializes in application engineering of Roots Type Twin Lobe Blowers, Three Lobe Blowers, Gas Blowers, Water Cooled Blowers, Vacuum Blower, Aqua Culture Blower, Blowers Spare Parts, Acoustic Hood, used for various industries.

Such as Flue Gas Application in Sponge Iron, Silo Areation for Cement Industry, Bulker Unloading, Pneumatic Conveying, Sugar Plants, Water Treatment Plant, Sewage Treatment Plants, Waste Water Treatment Plants, Effluent Treatment Plants, Aquaculture Farm, Chemicals & Pharmaceuticals Plants, Food Industries etc.



VISION

We want to be recognized all over the world as those who interpret with passion the dreams customers want to share with us.

We want to work in a team of determined, coherent and proactive people, that are examples of excellence and able to create enduring value.

We want to live in a dynamic, open and innovative enterprise, source of opportunities, an enterprise that actively participates in the community life by promoting a reciprocal interchange.

MISSION

We aim to be a loyal and qualified consultant to OEMs that use industrial Roots Type Twin Lobe & Three Lobe Blowers compressors .

We offer them innovative and customized solutions, maximizing the “performance/price ratio”.

We offer reliable products and outstanding customer service to value-added resellers. We meet the end users’ needs with a diffused, qualified and fast commercial network.

We motivate our employees in a transparent way and we reward their accountability and initiatives.



VALUES

- Customer Focus
- Respect for Individuals
- Self motivated individuals
- Ethics & Integrity to know what is right act responsibility our clients, colleagues and community.
- Guidance to serve our client with experienced and unbiased guidance regarding their actual needs.
- Sincerity at workplace
- Institution Building thru skill enhancement
- Transparent Communication Channels



AIR-COOLED TWIN LOBE BLOWER PERFORMANCE TABLE

Model	SPEED	1000 MMWG		2000 MMWG		3000 MMWG		4000 MMWG		5000 MMWG		6000 MMWG		7000 MMWG		SIZE MM	Standard Orientation
	RPM	M3/HR	BHP	M3/HR	BHP	M3/HR	BHP	M3/HR	BHP	M3/HR	BHP	M3/HR	BHP	M3/HR	BHP		
BL-315	940	25	0.54	24	0.6	22	0.69	19	0.81	16	0.95					40	HF
	1440	50	0.61	46	0.74	42	0.91	39	1.04								
BL-325	1000	51	0.43	42	0.7	35	0.96	29	1.23	24	1.49					40	HF
	1200	65	0.52	56	0.84	49	1.16	44	1.47	38	1.79						
	1400	80	0.6	71	0.98	64	1.35	58	1.72	53	2.1						
BL-365	940	45	0.6	35	0.8	25	1.13	20	1.26	14	1.56					40	HF
	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-450	1000	57	0.6	46	0.9	38	1.2	31	1.5	25	1.8	20	2.1	15	2.4	40	HF
	1200	88	0.8	77	1.2	69	1.6	62	2	56	2.5						
	1400	120	1.3	108	1.6	100	2.1	93	2.6								
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	HF
	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	HF
	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	HF
	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	VF
	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	VF
	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	RA
	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	VF
	1200	567	3.6	529	6.01	500	8.4	475	10.8								
	1400	731	4.5	693	7.5	665	10.5										
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	VF
	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	VF
	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	VF
	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	VF
	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	VF
	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	VF
	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	VF
	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	VF
	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	VF
	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	VF
	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	VF
	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	VF
	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	VF
	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				

1. The above ratings are based on inlet air temperature of 104°F, ambient pressure 1 kg/cm², specific gravity of 1.0.

2. Vacuum rating are based on inlet air at standard temperature of 104°F, discharge pressure 30" HG and specific gravity of 1.0.

3. Performance testing as per BS 1571 Part II.

4. Above 7000 MMWG pressure water cooled arrangement shall be provided.

5. All specifications are subject to change without notice.



TRI-LOBE BLOWER AIR-COOLED PERFORMANCE TABLE

MODEL	SIZE MM	SPEED	1000 MMWG		2000 MMWG		3000 MMWG		4000 MMWG		5000 MMWG		6000 MMWG		7000 MMWG	
		(RPM)	M3/HR	BHP	M3/HR	BHP	M3/HR	BHP	M3	BHP	M3/HR	BHP	M3/HR	BHP	M3/HR	BHP
TL-40	40	1200	22	0.25	16	0.38	12	0.51	8	0.64	5	0.77	2	0.9		
		1450	29	0.3	24	0.46	19	0.62	16	0.77	12	0.93	9	1.09		
		2850	71	0.59	65	0.9	61	1.21	57	1.52	54	1.83	51	2.14		
TL-42	50	1000	92	1.06	78	1.53	67	1.99	57	2.46	49	2.92	42	3.39	35	3.85
		1200	118	1.28	103	1.83	92	2.39	83	2.95	75	3.51	67	4.06	60	4.62
		1400	143	1.49	129	2.14	118	2.79	108	3.44	100	4.09	93	4.74	86	5.39
TL-44	60	1600	169	1.7	154	2.45	143	3.19	134	3.93	125	4.67	118	5.42		
		1000	154	1.31	138	2.01	125	2.72	115	3.42	106	4.13	97	4.83	90	
		1200	193	1.57	177	2.41	164	3.26	154	4.11	144	4.95	136	5.8	128	6.65
TL-53	80	1440	239	1.88	223	2.9	210	3.91	200	4.93	191	5.95	182	6.96	175	7.98
		1600	270	2.09	254	3.22	241	4.35	231	5.48	222	6.61	213	7.74	206	8.86
		1000	279	2.29	249	3.58	225	4.87	206	6.16	188	7.45	173	8.73	168	10.02
TL-67	100	1200	350	2.75	319	4.29	296	5.84	276	7.39	259	8.93	243	10.48	229	12.03
		1400	420	3.2	390	5.01	367	6.81	347	8.62	329	10.42	314	12.23	299	14.03
		1600	491	3.66	461	5.72	437	7.79	417	9.85	400	11.91	384	13.97	370	16.04
TL-78	125	1000	404	2.8	367	4.59	339	6.39	316	8.18	295	9.98	276	11.77	259	13.57
		1200	502	3.35	466	5.51	438	7.66	414	9.82	393	11.97	375	14.13	357	16.28
		1440	620	4.03	584	6.61	556	9.2	532	11.78	511	14.37				
TL-710	150	1600	699	4.47	662	7.35	634	10.22	611	13.09	590	15.96				
		1000	828	4.72	778	8.2	739	11.67	706	15.14	677	18.62	651	22.09	627	20.06
		1200	1019	5.67	968	9.84	929	14	896	18.17	867	22.34	841	26.51	817	30.68
TL-812	200	1440	1247	6.8	1196	11.8	1157	16.8	1124	21.81	1096	26.81	1069	31.81	1045	36.81
		1600	1399	7.56	1348	13.11	1309	18.67	1277	24.23	1248	29.79				
		1000	1106	5.73	1056	10.2	1018	14.68	986	19.15	958	23.63	932	28.11	909	32.58
TL-1012	250	1200	1351	6.87	1301	12.24	1263	17.61	1231	22.99	1203	28.36	1177	33.73	1154	39.1
		1440	1645	8.25	1595	14.69	1557	21.14	1525	27.58	1497	34.03	1471	40.47		
		1600	1841	9.16	1791	16.32	1753	23.49	1721	30.65	1693	37.81				
TL-1016	300	1000	1806	10.9	1712	18.36	1639	25.79	1578	33.22	1524	40.65	1476	48.08	1431	55.51
		1200	2213	13.1	2118	22.03	2046	30.95	1985	39.86	1931	48.78	1883	57.69	1838	66.61
		1400	2620	15.3	2525	25.7	2453	36.1	2392	46.5	2338	56.91	2289	67.31	2245	77.71
TL-1016	300	1600	3026	17.5	2932	29.37	2860	41.26	2799	53.15	2745	65.04	2696	76.92		
		1000	2806	14.8	2684	26.16	2590	37.49	2510	48.82	2441	60.15	2377	71.48		
		1200	3426	17.8	3304	31.39	3210	44.99	3131	58.58	3061	72.18	2998	85.78		
TL-1016	300	1400	4047	20.8	3924	36.62	3830	52.49	3751	68.35	3681	84.21				
		1600	4667	23.7	4545	41.86	4451	59.98	4371	78.11	4302	96.24				
		1000	6232	30.4	6048	54.79	5906	79.18	5787	103.6	5682	128	5586	152.36	5499	176.8
TL-1016	300	1200	7568	36.5	7383	65.74	7242	95.02	7122	124.3	7017	153.6	6922	182.83	6835	212.1
		1400	8904	42.6	8719	76.7	8577	110.9	8458	145	8353	179.2	8258	213.30	8170	247.5
		1600	10239	48.6	10055	87.66	9913	126.7	9793	165.7	9688	204.8	9593	243.78		

1. The above ratings are based on inlet air temperature of 104°F, ambient pressure 1 kg/cm², specific gravity of 1.0.
2. Vacuum rating are based on inlet air at standard temperature of 104°F, discharge pressure 30" HG and specific gravity of 1.0.
3. Performance testing as per BS 1571 Part II.
5. Above 7000 MMWG pressure water cooled arrangement shall be provided.



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 v 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



WATER-COOLED TWIN LOBE BLOWER PERFORMANCE TABLE

Model	SPEED	5000 MMWG		6000 MMWG		7000 MMWG		8000 MMWG		9000 MMWG		10000 MMWG		Cooling Water	SIZE MM NB	Standard Orientation
	RPM	M3/HR.	BHP	M3/HR.	BHP	M3/HR.	BHP	M3/HR.	BHP	M3/HR.	BHP	M3/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	VF
	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					
BL-44 WC	1000	66	3.08	59	3.63	51	4.17	45	4.72	38	5.26	32	5.81	3-4 LPM	80	HF
	1200	96	3.7	88	4.35	81	5.01	74	5.66	68	6.32	62	6.97			
	1400	141	4.63	133	5.44	126	6.26	119	7.08	113	7.9					
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	VF
	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	10.5	114	11.53	4 - 5 LPM	80	VF
	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	15.7					
BL-67 WC	1000	322	11.2	299	13.3	278	15.3	258	17.3	240	19.4	214	21.4	5 - 6 LPM	100	VF
	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	VF
	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	VF
	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	VF
	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	VF
	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	78.6	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	VF
	1200	2684	65.4	2624	77.3	2578	89.2	2530	101.1	2486	113	2437	124.7			
	1400	3336	78.5	3281	92.8	3230	107.1	3183	121.3	3138	136	2980	149.7			
BL-1016 WC	1000	2876	71.6	2801	84.9	2733	98.2	2669	111.6	2609	125	2546	138.4	16-18 LPM	250	VF
	1200	3606	85.9	3532	101.8	3464	117.8	3400	133.6	3340	150	3274	165.7			
	1400	4483	103	4251	118.8	4183	137.4	4119	156.1	4060	175	4003	193.3			

Note :

1. The above ratings are based on inlet air temperature of 104°F, ambient pressure 1 kg/cm², specific gravity of 1.0.
2. Vacuum rating are based on inlet air at standard temperature of 104°F, discharge pressure 30" HG and specific gravity of 1.0.
3. Performance testing as per BS 1571 Part II.
4. All specifications are subject to change without notice.
5. Above 7000 MMWG pressure water cooled arrangement shall be provided.

ACOUSTIC ENCLOSURES

FEATURES

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



AMC & SPARE PARTS



1. Amikon AMC of Blowers is available with & without consumables
2. Amikon Genuine and original spare parts always recommended for 100% efficiency of blowers
3. 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
Gauge



Pressure
Relief Valve



NRV



Air Filter

APPLICATIONS

- o **Water Treatment Plants** For backwashing of filter/mixed beds.
- o **Effluent/sewage Treatment Plants** For diffused aeration and agitation of effluent/sewage.
- o **Cement Plants** For Blending, Aeration, Fluidization, Conveying.
- o **Aquaculture** For maintaining the dissolved Oxygen level.
- o **Chemical Plants** For supplying of process air.
- o **Electroplating Plants** For Oil Free air agitation of electrolyte.
- o **Paper Plants** Knife edge coating, Drying, Conveying, Vacuum pickup.
- o **Yarn Drying** Vacuum/Pressure Drying of Yarn.
- o **Vacuum Moulding** For creating quick vacuum.
- o **Polyster Chip Conveying & drying** For transfer of polyster Chips and other similar materials.
- o **Bag Filters** For reverse cleaning of Filter bags.
- o **Pneumatic Conveying Vacuum**, Pressure and Combination Conveying of cereals, cement, husk, similar material baggase, granules, powders and other.
- o **Regeneration of Dryers & Molecular Sieves.**



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