ROOTS BLOWERS

TRI-LOBE BLOWER

ISO-9001 REGISTERED
DNV
MGMT. SYS.
RvA C 024
DNV Certification B.V., The Netherlands

EVEREST TRI LOBE ROTARY GAS COMPRESSORS

Our technology is so flexible, we can custom manufacture "Special Gas Blowers" by alloying and cross linking diverse designs to suit individual requirements and import substitutes.

Tri-lobe technology means blowers have lobe tips exposed at 120° around the rotor instead of 180° as in a twin-lobe blower. This provides a stiffer rotor set, meaning less deflection at any load. These blowers have been designed to meet the specific demands of the industry and are ideal for continuous duty operation, and feature a sturdy design, reduced noise, reduced pulsations and vibrations, longer bearing life and minimal maintenance in mind. Everest Blowers are produced on the latest state-of-art CNC machines thereby ensuring a quality product. These blowers are designed for continuous duty service. Complete package units are shipped with all essential accessories and electric motor, ready to install, on plug and play concept. Everest Tri-Lobe blowers are supplied with built-in safety and monitoring equipment such as safety relief valve and pressure gauge. Bare Blowers are also available.

STANDARD ACCESSORIES

Common Motor and Blower Base Frame with Motor Rails and Belt-Tightening Arrangement (Direct Drive also available), Belt Guard/Coupling Guard, Suction Air Filter, Suction Silencer, Pressure Gauge, Pressure Relief Valve (Spring Loaded), Pulleys and Belts/Coupling, Foundation Bolts, Interconnecting Line with Flanges, and Non-ReturnValve. Instrumentation with controls are also available.

PRODUCT RANGE
Air Blowers
Water Cooled Blowers
Gas Blowers
Vacuum Booster Pumps
Acoustic Hoods
Enclosures
Dry Vane Pumps

WE JUST DON'T OFFER BLOWERS, WE OFFER SOLUTIONS!

STANDARD DESIGN AND CONSTRUCTION FEATURES

- Anti-friction bearings
- 100% oil free air delivery
- Fail safe labyrinth sealing
- Extended shaft design for cool running
- Rigid one piece CI casing and end plates
- Standard Orientation: Right Angle Flow
- Alloy steel toughened shafts ground to close tolerances
- Tri-Lobe construction having low pulsations and low noise
- Alloy steel hardened and ground timing gears, oil splash lubricated
- Improved volumetric efficiency and reduced operating temperatures
- Dynamically balanced rotor shaft assembly (Grade 6.3 ISO 1940-1986)
- Non-contact type labyrinth seals, with vent, resulting in lifelong sealing
- Right angle flow orientation with suction top, resulting in smaller foot print
- Tri Lobe Rotor design, suitable for both Pressure Duty and Vacuum Duty

TMC Fluid Systems, Inc.
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Tel: 949-269-1472 • Fax: 949-251-0435 • Email: Info@TMCFluidSystems.com

TMC Fluid Systems EVEREST

PERFORMANCE TABLE

TRI-LOBE BLOWER

MODEL	Speed	1.5-PSIG		3.0-PSIG		4.0-PSIG		5.0-PSIG		6.0-PSIG		7.0-PSIG		8.0-PSIG		10.0-PSIG	
	(RPM)	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
ETL 40EB	1450	17	0.3	13	0.5	19	0.6	10	0.7	9	0.8	7	0.9	6	1.0	4	1.3
	2850	41	0.6	38	0.9	36	1.2	35	1.4	33	1.6	32	1.8	31	2.0	28	2.5
ETL 50EB	1200	69	1.3	60	1.9	55	2.3	51	2.7	48	3.1	44	3.5	41	3.9	35	4.6
	1400	84	1.5	75	2.2	71	2.7	66	3.1	63	3.6	59	4.0	56	4.5	50	5.4
	1600	99	1.7	90	2.5	86	3.1	81	3.6	78	4.1	74	4.6	71	5.1	65	6.2
	1800	114	2.0	105	2.8	100	3.4	96	4.0	93	4.6	89	5.2	86	5.8	80	7.0
ETL 60EB	1200	113	1.6	103	2.5	98	3.1	93	3.7	89	4.3	85	4.9	82	5.5	75	6.7
	1400	136	1.9	126	2.9	121	3.6	116	4.3	112	5.0	108	5.7	105	6.4	98	7.8
	1600	159	2.2	149	3.3	144	4.1	139	4.9	135	5.7	131	6.5	128	7.3	121	8.9
	1800	182	2.4	172	3.8	166	4.7	162	5.6	158	6.4	154	7.3	150	8.2	144	10.0
ETL 80EB	1000	164	2.4	145	3.7	135	4.6	127	5.5	119	6.4	112	7.4	105	8.3	93	10.1
	1200	205	2.8	187	4.5	177	5.6	168	6.6	168	7.7	153	8.8	147	9.9	135	12.1
	1400	247	3.3	228	3.2	219	6.5	210	7.8	210	9.0	195	10.3	188	11.6	176	14.1
	1600	289	3.8	270	6.0	260	7.4	251	8.9	252	10.3	237	11.8	230	13.2	218	16.1
	1800	330	4.3	312	6.7	302	8.3	293	10.0	293	11.6	278	13.2	272	14.9	259	18.1
ETL 100EB	1000	237	2.9	215	4.8	203	6.1	193	7.3	183	8.6	175	9.9	167	11.1	152	13.6
	1200	295	3.5	273	5.8	261	7.3	251	8.8	241	10.3	232	11.8	225	13.3	210	16.4
	1400	353	4.1	331	6.7	319	8.5	309	10.3	299	12.0	291	13.8	283	15.6	268	19.1
	1600	411	4.6	389	7.7	377	9.7	367	11.7	357	13.7	349	15.8	341	17.8	326	21.8
	1800	469	5.2	447	8.6	435	10.9	425	13.2	415	15.5	407	17.7	399	20.0	384	24.6
ETL 125EB	1000	487	4.9	456	8.6	440	11.0	426	13.5	413	15.9	401	18.4	390	20.8	369	25.7
	1200	599	5.9	568	10.3	552	13.2	538	16.2	525	19.1	513	22.0	502	25.0	482	30.9
	1400	711	6.9	680	12.0	664	15.4	650	18.9	637	22.3	625	25.7	614	29.1	594	36.0
	1600	823	7.9	793	13.7	776	17.7	762	21.6	749	25.5	737	29.4	726	33.3	706	41.1
	1800	936	8.9	905	15.5	889	19.9	874	24.3	861	28.7	849	33.1	838	37.5	818	46.3
ETL 150EB	1000	650	6.0	620	10.7	604	13.9	590	17.0	578	20.2	566	23.3	555	26.5	536	32.8
	1200	795	7.2	765	12.8	749	16.6	735	20.4	722	24.2	711	28.0	700	31.8	680	39.3
	1400	940	8.4	910	15.0	894	19.4	880	23.8	867	28.2	855	32.6	845	37.1	825	45.9
	1600	1084	9.6	1054	17.1	1038	22.2	1024	27.2	1012	32.3	1000	37.3	989	42.3	969	52.4
	1800	1229	10.8	1199	19.3	1183	24.9	1169	30.6	1156	36.3	1145	42.0	1134	47.6	1114	59.0
ETL 200ET	1000	1062	11.3	1005	19.2	974	24.4	948	29.7	924	34.9	902	40.1	881	45.4	843	55.8
	1100	1182	12.5	1125	21.1	1094	26.9	1068	32.6	1044	38.4	1022	44.1	1001	49.9	963	61.4
	1200	1302	13.6	1245	23.0	1214	29.3	1188	35.6	1164	41.9	1142	48.1	1121	54.4	1083	67.0
	1300	1422	14.8	1365	25.0	1334	31.8	1308	38.6	1284	45.4	1262	52.2	1241	59.0	1203	72.6
	1400	1542	15.9	1485	26.9	1454	34.2	1428	41.5	1404	48.8	1382	56.2	1361	63.5	1323	78.1
	1500	1662	17.0	1605	28.8	1574	36.6	1548	44.5	1524	52.3	1502	60.2	1481	68.0	1443	83.7
ETL 250ET	1000	1656	15.5	1582	27.5	1542	35.5	1508	43.5	1476	51.5	1447	59.5	1421	67.5	1372	83.5
	1100	1840	17.1	1765	30.3	1726	39.1	1691	57.9	1660	56.7	1631	65.5	1604	74.3	1555	91.9
	1200	2023	18.6	1949	33.0	1909	42.6	1875	52.2	1843	61.8	1815	71.4	1788	81.0	1739	100.3
	1300	2207	20.2	2132	35.8	2093	46.2	2058	56.6	2027	67.0	1998	77.4	1971	87.8	1922	108.6
	1400	2391	21.7	2316	38.5	2277	49.7	2242	60.9	2211	72.1	2182	83.3	2155	94.6	2106	117.0
	1500	2574	23.3	2500	41.3	2460	53.3	2426	65.3	2394	77.3	2365	89.3	2339	101.3	2290	125.3
ETL 300ET	1000	3670	31.8	3558	57.5	3499	74.7	3447	91.1	3400	109.1	3356	126.2	3316	143.4	3242	177.8
	1100	4064	34.9	3952	63.3	3893	82.2	3841	101.1	3794	120.0	3750	138.9	3710	157.8	3636	195.6
	1200	4458	38.1	4346	59.0	4287	89.7	4235	110.3	4188	130.9	4144	151.5	4104	172.1	4030	213.3
	1300	4852	41.3	4740	74.8	4681	97.1	4629	119.5	4582	141.8	4538	164.1	4498	186.5	4424	231.1
	1400	5246	44.5	5134	80.5	5075	104.6	5023	128.6	4976	152.7	4932	176.7	4892	200.8	4818	248.9
	1500	5640	47.7	5528	86.3	5469	112.1	5417	137.8	5370	163.6	5326	189.4	5286	215.1	5212	266.7
ETL 350ET	600	4333	42.1	4147	73.3	4049	94.2	3962	115.0	3884	135.9	3812	156.7	3745	177.6	3623	219.3
	700	5130	49.1	4944	85.6	4846	109.9	4751	134.2	4681	158.5	4609	182.9	4542	207.2	4420	255.8
	800	5927	56.1	5741	97.8	5643	125.6	5556	153.4	5478	181.2	5406	209.0	4339	236.8	5217	292.4
	900	6724	63.1	6538	110.0	6440	141.3	6353	172.6	6275	203.8	6203	235.1	6136	266.4	6014	328.9
	1000	7521	70.1	7335	122.2	7237	157.0	7150	191.7	7072	226.5	7000	261.2	6933	296.0	6811	365.5
	1100	8318	77.1	8132	134.5	8034	172.7	7947	210.9	7869	249.1	7797	287.4	7730	325.6	7608	402.0
	1200	9115	84.1	8929	146.7	8831	188.4	8744	230.1	8666	271.8	8594	313.5	8527	355.7	8405	438.6
ETL 400ET	600	8341	79.8	8107	138.1	7984	176.9	7875	215.7	7777	254.5	7687	293.4	7608	332.2	7449	409.8
	650	9083	86.5	8849	149.6	8726	191.6	8617	233.7	8519	275.7	8429	317.8	8345	359.9	8191	444.0
	700	9825	93.1	9591	161.1	9468	206.4	9359	251.7	9261	297.0	9171	342.2	9087	387.5	8933	478.1
	750	10567	99.8	10333	172.6	10210	221.1	10101	269.6	10003	318.2	9913	366.7	9829	415.2	9675	512.3
	800	11309	106.4	11075	184.1	10952	235.8	10843	287.6	10745	339.4	10655	391.1	10571	442.9	10417	546.4
	850	12051	113.1	11817	195.6	11694	250.6	11585	305.6	11487	360.6	11397	415.6	11313	470.6	11159	580.6
	900	12793	119.7	12559	207.1	12436	265.3	12327	323.6	12229	381.8	12139	440.0	12055	498.3	11901	614.7

Capacities are at inlet condition |Tolerance: Capacity ±10% and Power +5%
Motor rating to be at least 15% over duty point BHP
Conversions: 1 M^3/Hr ~ 0.588 CFM ~ 16.67 LPM | 1000 mmWG ~ 1.42 PSI ~ 0.1 Kg/cm^2

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PERFORMANCE TABLE

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MODEL	Speed (RPM)	1000 mmWG m³/hr	1000 mmWG BHP	2000 mmWG m³/hr	2000 mmWG BHP	3000 mmWG m³/hr	3000 mmWG BHP	4000 mmWG m³/hr	4000 mmWG BHP	5000 mmWG m³/hr	5000 mmWG BHP	6000 mmWG m³/hr	6000 mmWG BHP	7000 mmWG m³/hr	7000 mmWG BHP	8000 mmWG m³/hr	8000 mmWG BHP
ETL 40EB	1450	29	0.3	24	0.5	19	0.6	16	0.8	12	0.9	9	1.1				
	2850	71	0.6	65	0.9	61	1.2	57	1.5	54	1.8	51	2.1				
ETL 50EB	1200	118	1.3	104	1.8	92	2.4	83	2.9	75	3.5	67	4.1	61	4.6	54	5.2
	1400	144	1.5	129	2.1	118	2.8	109	3.4	100	4.1	93	4.7	86	5.4	80	6.0
	1600	169	1.7	155	2.4	143	3.2	134	3.9	126	4.7	118	5.4	112	6.2	105	6.9
	1800	195	1.9	180	2.8	169	3.6	160	4.4	151	5.3	144	6.1	137	6.9		
ETL 60EB	1200	193	1.6	177	2.4	165	3.3	154	4.1	145	5.0	136	5.8	129	6.6		
	1400	232	1.8	216	2.8	203	3.8	193	4.8	184	5.8	175	6.8	167	7.8		
	1600	271	2.1	255	3.2	242	4.3	232	5.5	222	6.6	214	7.7				
	1800	310	2.4	293	3.6	281	4.9	270	6.2	261	7.4						
ETL 80EB	1000	280	2.3	250	3.6	226	4.9	206	6.2	189	7.4	173	8.7	159	10.0	145	11.3
	1200	351	2.7	320	4.3	297	5.8	277	7.4	260	8.9	244	10.5	229	12.0	216	13.6
	1400	422	3.2	391	5.0	368	6.8	348	8.6	330	10.4	315	12.2	300	14.0	287	15.8
	1600	492	3.7	462	5.7	438	7.8	419	9.8	401	11.9	385	14.0	371	16.0		
	1800	563	4.1	533	6.4	509	8.8	489	11.1	472	13.4	456	15.7				
ETL 100EB	1000	405	2.8	368	4.6	340	6.4	317	8.2	296	10.0						
	1200	503	3.4	467	5.5	439	7.7	415	9.8	394	12.0	277	11.8	260	13.6		
	1400	602	3.9	565	6.4	537	8.9	514	11.5	493	14.0	376	14.1	358	16.3		
	1600	701	4.5	664	7.3	636	10.2	612	13.1	592	16.0						
	1800	799	5.0	763	8.3	735	11.5	711	14.7								
ETL 125EB	1000	831	4.7	780	8.2	741	11.7	708	15.1	679	18.6	653	22.1				
	1200	1022	5.7	971	9.8	932	14.0	899	18.2	870	22.3	844	26.5	629	25.6	606	29.0
	1400	1212	6.6	1161	11.5	1122	16.3	1090	21.2	1061	26.1	1034	30.9	820	30.7	797	34.8
	1600	1403	7.6	1352	13.1	1313	18.7	1280	24.2	1251	29.8	1225	35.3	1010	35.8	988	40.7
	1800	1594	8.5	1543	14.8	1504	21.0	1471	27.3	1442	33.5	1416	39.8				
ETL 150EB	1000	1109	5.7	1059	10.2	1021	14.7	989	19.2	960	23.6	935	28.1	911	32.6	889	37.1
	1200	1355	6.9	1305	12.2	1267	17.6	1235	23.0	1206	28.4	1181	33.7	1157	39.1		
	1400	1600	8.0	1551	14.3	1512	20.6	1480	26.8	1452	33.1	1426	39.4				
	1600	1846	9.2	1796	16.3	1758	23.5	1726	30.6	1698	37.8						
	1800	2092	10.3	2042	18.4	2004	26.4	1972	34.5								
ETL 200ET	1000	1811	10.9	1717	18.4	1644	25.8	1583	33.2	1529	40.6	1480	48.1	1435	55.5		
	1100	2015	12.0	1921	20.2	1848	28.4	1787	36.5	1733	44.7	1684	52.9	1639	61.1	1393	62.9
	1200	2219	13.1	2124	22.0	2052	30.9	1991	39.9	1937	48.8	1888	57.7	1843	66.6	1597	69.2
	1300	2423	14.2	2328	23.9	2256	33.5	2195	43.2	2141	52.8	2092	62.5	2047	72.2	1801	75.5
	1400	2627	15.3	2532	25.7	2460	36.1	2399	46.5	2345	56.9	2296	67.3	2251	77.7		
	1500	2831	16.4	2736	27.5	2664	38.7	2603	49.8	2549	61.0	2500	72.1	2455	83.3		
ETL 250ET	1000	2823	14.9	2700	26.2	2605	37.6	2526	49.0								
	1100	3135	16.4	3012	28.9	2917	41.4	2838	53.9	2455	60.3						
	1200	3447	17.8	3324	31.5	3230	45.1	3150	58.8	2768	66.4	2392	71.7				
	1300	3759	19.3	3636	34.1	3542	48.9	3462	63.7	3080	72.4	2704	78.9				
	1400	4071	20.8	3948	36.7	3854	52.6	3774	68.6	3392	78.4						
	1500	4384	22.3	4260	39.4	4166	56.4	4086	73.5								
ETL 300ET	1000	6250	30.0	6065	55.0	5923	79.0	5803	104.0	5698	128	5602	152.0	5515	177.0	5433	201.0
	1100	6920	33.0	6735	60.0	6593	87.0	6473	114.0	6367	141	6272	168.0	6184	194.0	6103	221.0
	1200	7589	36.0	7404	66.0	7262	95.0	7142	124.0	7037	154	6942	183.0	6854	212.0	6772	241.0
	1300	8259	40.0	8074	71.0	7932	103.0	7812	135.0	7707	166	7611	198.0	7524	230.0	7442	261.0
	1400	8929	43.0	8744	77.0	8602	111.0	8482	145.0	8376	179	8281	213.0	8193	247.0	8112	282.0
	1500	9598	46.0	9413	82.0	9271	119.0	9152	155.0	9046	192	8951	229.0	8863	265.0		
ETL 350ET	600	7385	40.0	7078	70.0	6842	100.0	6643	129.0	6468	159.0	6309	188.0	6163	208.0	6028	248.0
	700	8740	47.0	8433	82.0	8197	116.0	7998	151.0	7822	185.0	7664	220.0	7518	243.0	7382	289.0
	800	10095	54.0	9787	93.0	9551	133.0	9352	172.0	9177	212.0	9018	251.0	8873	277.0	8737	330.0
	900	11449	61.0	11142	105.0	10906	149.0	10707	194.0	10532	238.0	10373	283.0	10227	312.0	10092	371.0
	1000	12804	67.0	12497	117.0	12261	166.0	12062	215.0	11886	265.0	11728	314.0	11582	347.0	11446	413.0
	1100	14159	74.0	13851	128.0	13615	183.0	13416	237.0	13241	291.0	13083	345.0	12937	381.0	12801	454.0
	1200	15514	81.0	15206	140.0	14970	199.0	14771	258.0	14596	318.0	14437	377.0	14291	416.0	14156	495.0
ETL 400ET	600	14202	77.0	13817	132.0	13520	187.0	13271	242.0	13051	297.0	12852	352.0	12669	389.0	12499	463.0
	650	15464	83.0	15078	143.0	14782	203.0	14532	262.0	14312	322.0	14113	382.0	13930	421.0	13760	501.0
	700	16725	90.0	16339	154.0	16043	218.0	15793	282.0	15573	347.0	15374	411.0	15191	453.0	15021	540.0
	750	17986	96.0	17600	165.0	17304	234.0	17054	303.0	16834	372.0	16635	440.0	16453	486.0	16282	578.0
	800	19247	102.0	18861	176.0	18565	249.0	18315	323.0	18095	396.0	17897	470.0	17714	518.0	17544	617.0
	850	20508	109.0	20122	187.0	19826	265.0	19577	343.0	19357	421.0	19158	499.0	18975	551.0	18805	655.0
	900	21770	115.0	21384	198.0	21088	280.0	20838	363.0	20618	446.0	20419	529.0	20236	583.0	20066	694.0

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Capacities are at inlet condition |Tolerance: Capacity ±10% and Power +5%
Motor rating to be at least 15% over duty point BHP
Conversions: 1 M^3/Hr ~ 0.588 CFM ~ 16.67 LPM | 1000 mmWG ~ 1.42 PSI ~ 0.1 Kg/cm^2

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