



EVEREST TWIN LOBE ROTARY AIR COMPRESSORS



EVEREST WATER COOLED BLOWERS are similar to our air-cooled type blowers in construction and performance except for the addition of a cooling arrangement. In water-cooled blowers, end plates have water jackets around them, through which water is circulated, which dissipates the heat of compression generated and keeps the blower internals cool. Water-cooled blowers are recommended for applications where discharge pressures exceed 10-PSIG or 7000-mmWG, as it is essential to dissipate this excessive heat for efficient working and longevity of the blower bearings and seals. Our blowers have a unique design consisting of a single inlet and single outlet for the cooling water and requires no cumbersome water pipe connections externally. Internal circulation of water to various areas is through built-in channels. This unique design makes the blower operations very simple and very effective. The cooling water inlet is at the bottom so that the water rises up against gravity, reaching all the corners before it exists the outlet. The flow rates of cooling water are low.

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

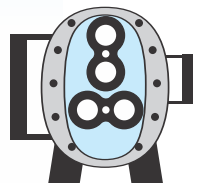
STANDARD DESIGN AND CONSTRUCTION FEATURES

- ⊙ 100% oil free air delivery.
- ⊙ Factory engineered, factory guaranteed, superior product.
- ⊙ High temperature resistant lip seals / labyrinth seals.
- ⊙ Single water inlet and outlet connections.
- ⊙ Alloy steel hardened and ground timing gears.
- ⊙ Anti-friction bearings.
- ⊙ Rigid one piece CI casing and side plates.
- ⊙ Improved volumetric efficiency and reduced operating temperatures.
- ⊙ Horizontal and vertical configurations available.
- ⊙ Easy rotor timing setting.
- ⊙ No vanes, valves or rings to wear.
- ⊙ Large inlet and outlet connections for minimum loss.
- ⊙ Alloy steel toughened shafts ground to close tolerances.

APPLICATIONS

- ⊙ **Water Treatment Plants** For backwashing of filter/mixed beds.
- ⊙ **Effluent Treatment Plants** For diffused aeration and agitation of effluent.
- ⊙ **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.
- ⊙ **Polyester Chip Conveying & drying** For transfer of Polyester Chips and other similar materials.
- ⊙ **Bag Filters** For reverse cleaning of Filter bags.
- ⊙ **Pneumatic Conveying** Vacuum, Pressure and Combination Conveying of cereals, cement, husk, bagasse, granules, powders and other similar material.

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



TMC Fluid Systems, Inc.

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TMC Fluid Systems

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PERFORMANCE TABLE

WATER COOLED SERIES

MODEL	SPEED		7 PSIG		8 PSIG		9 PSIG		10 PSIG		11 PSIG		12 PSIG		13 PSIG		14 PSIG		COOLING WATER	OPENING inches	STANDARD ORIENTATION
	(RPM)	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP				
M5075WC	960	78	4.6	74	5.1	71	5.7	68	6.2	65	6.8	63	7.3	60	7.9	58	8.5	4-5 LPM	2.5		
	1200	110	5.7	106	6.4	103	7.1	100	7.8	97	8.5	94	9.2	92	9.9	89	10.6				
	1500	149	7.2	146	8.0	143	8.9	140	9.8	137	10.6	134	11.5	131	12.3						
M5125WC	960	91	5.7	86	6.4	82	7.1	77	7.8	73	8.5	69	9.2	65	9.9	61	10.6	4-5 LPM	3		
	1200	132	7.1	127	8.0	122	8.8	118	9.7	114	10.6	110	11.5	106	12.4						
	1440	173	8.5	168	9.5	163	10.6	159	11.7	155	12.7										
65WC	1000	124	7.7	117	8.7	111	9.6	105	10.6	100	11.6	94	12.5	89	13.5	84	14.4	5-6 LPM	3		
	1300	190	10.0	183	11.3	177	12.5	171	13.8	166	15.0	160	16.3	155	17.5	150	18.8				
	1600	256	12.3	249	13.9	243	15.4	237	16.9	232	18.5	226	20.0	221	21.6	216	23.1				
67WC	1000	190	11.1	181	12.5	172	13.9	163	15.4	155	16.8	147	18.3	140	19.7	132	21.1	5-6 LPM	5		
	1300	289	14.4	280	16.3	271	18.1	262	20.0	254	21.9	246	23.7	239	25.6	231	27.5				
	1600	388	17.7	379	20.0	370	22.3	361	24.6	353	26.9	345	29.2	338	31.5	330	33.8				
610WC	1000	254	14.5	241	16.4	229	18.3	218	20.2	207	22.2	197	24.1	187	26.0	177	27.9	6-8 LPM	6		
	1300	387	18.8	374	21.3	362	23.8	350	26.3	339	28.8	329	31.3	319	33.8						
	1500		475	21.7	462	24.6	450	27.5	438	30.3	427	33.2									
76WC	1000	292	13.7	285	15.4	277	17.2	271	19.0	264	20.7	258	22.5	252	24.3	246	26.0	6-8 LPM	4		
	1300	414	17.8	406	20.1	399	22.3	392	24.6	385	26.9	379	29.2	373	31.5	367	33.8				
	1600	535	21.9	528	24.7	520	27.5	514	30.3	507	33.2	501	36.0	495	38.8	489	41.6				
78WC	1000	383	17.8	372	20.1	362	22.5	352	24.8	343	27.2	334	29.6	326	31.9	318	34.3	6-8 LPM	5		
	1300	545	23.1	534	26.2	524	29.2	514	32.3	505	35.4	496	38.4	488	41.5	480	44.5				
	1600	707	28.4	696	32.2	686	36.0	676	39.8	667	43.5	658	47.3	650	51.1	642	54.8				
710WC	1000	482	21.9	469	24.8	456	27.8	444	30.7	433	33.7	422	36.6	412	39.6	402	42.5	8-10 LPM	6		
	1300	685	28.5	671	32.3	659	36.1	647	39.9	636	43.8	625	47.6	615	51.4	605	55.3				
	1600	887	35.0	874	39.8	861	44.5	849	49.2	838	53.9										
89WC	1000	552	25.4	542	28.4	532	31.5	523	34.5	514	37.6	506	40.6	498	43.7	490	46.7	8-10 LPM	4		
	1200	692	30.4	682	34.1	672	37.8	663	41.4	654	45.1	646	48.7	638	52.4	630	56.1				
	1440	860	36.5	850	40.9	840	45.3	831	49.7	822	54.1	814	58.5	806	62.9	798	67.3				
812WC	1000	738	32.6	724	36.6	711	40.7	699	44.8	688	48.9	677	53.0	666	57.1	656	61.1	10-12 LPM	5		
	1200	925	39.1	911	44.0	899	48.9	886	53.8	875	58.7	864	63.6	853	68.5	843	73.4				
	1440	1150	46.9	1136	52.8	1123	58.6	1111	64.5	1099	70.4	1088	76.3								
1012WC	1000	1261	53.8	1238	60.8	1216	67.8	1195	74.8	1175	81.7	1157	88.7	1138	95.7	1121	102.7	10-12 LPM	6		
	1200	1581	64.6	1558	73.0	1536	81.3	1515	89.7	1495	98.1	1477	106.5	1458	114.8	1441	123.2				
	1440	1965	77.5	1942	87.6	1920	97.6	1899	107.7	1879	117.7	1861	127.7	1842	137.8	1825	147.8				
1016WC	1000	1695	70.6	1664	80.0	1634	89.4	1606	98.7	1580	108.1	1554	117.5	1530	126.9	1506	136.2	16-18 LPM	8		
	1200	2125	84.7	2094	96.0	2064	107.2	2036	118.5	2010	129.7	1984	141.0	1960	152.2	1936	163.5				
	1440	2641	101.7	2610	115.2	2580	128.7	2552	142.2	2526	155.7	2500	169.2								

Values in Blue are subject to temperature and drive limitations and must be referred to factory for proper application.
 Conversions: 1 m³/hour = 0.588 CFM • 1000 mmWG = 1.42 PSIG = 0.1 Kg/cm²



THE EVEREST ADVANTAGE

Retain your advantage with factory genuine replacement parts.

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Due to constant improvements, technical specifications are subject to change without notice. For further clarifications, contact our technical team who shall be glad to assist you to overcome application problems.

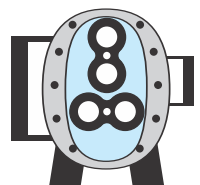
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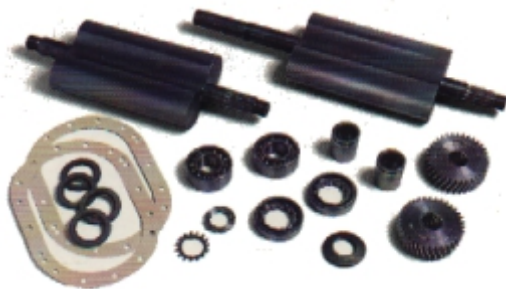
MODEL	SPEED 5000 MMWG			6000 MMWG			7000 MMWG			8000 MMWG			9000 MMWG			10000 MMWG			COOLING WATER	OPENING mm NB	STANDARD ORIENTATION
	(RPM)	m ³ /hr	BHP	m ³ /hr	BHP	m ³ /hr	BHP	m ³ /hr	BHP	m ³ /hr	BHP	m ³ /hr	BHP	m ³ /hr	BHP	m ³ /hr	BHP				
M5075WC	960	132	4.6	124	5.4	116	6.2	110	7.0	103	7.8	97	8.6	4-5 LPM	65						
	1200	186	5.8	178	6.8	170	7.8	163	8.7	157	9.7	151	10.7								
	1500	253	7.3	245	8.5	238	9.7	231	10.9	224	12.2	218	13.4								
M5125WC	960	154	5.7	142	6.7	132	7.7	122	8.8	112	9.8	103	10.8	4-5 LPM	80						
	1200	224	7.2	212	8.4	201	9.7	191	10.9	181	12.2										
	1440	293	8.6	281	10.1	270	11.6	260	13.1												
65WC	1000	210	7.8	194	9.2	179	10.5	166	11.9	153	13.3	141	14.6	5-6 LPM	80						
	1300	322	10.2	306	11.9	292	13.7	278	15.5	266	17.2	254	19.0								
	1600	434	12.5	418	14.7	404	16.9	390	19.0	378	21.2	366	23.4								
67WC	1000	322	11.2	299	13.3	278	15.3	258	17.3	240	19.4	223	21.4	5-6 LPM	125						
	1300	490	14.6	467	17.2	446	19.9	427	22.5	408	25.2	391	27.9								
	1600	658	17.9	635	21.2	615	24.5	595	27.8	577	31.0	559	34.3								
610WC	1000	430	14.7	400	17.4	371	20.1	345	22.8	321	25.6	298	28.3	6-8 LPM	150						
	1300	655	19.0	624	22.6	596	26.1	570	29.7	546	33.2										
	1500	805	22.0	774	26.1	746	30.2	720	34.3												
76WC	1000	496	13.8	477	16.3	461	18.9	445	21.4	430	23.9	416	26.4	6-8 LPM	100						
	1300	702	18.0	684	21.2	667	24.5	651	27.8	637	31.0	623	34.3								
	1600	909	22.1	890	26.2	874	30.2	858	34.2	843	38.2	829	42.2								
78WC	1000	649	18.0	623	21.4	600	24.7	578	28.0	557	31.4	537	34.7	6-8 LPM	125						
	1300	924	23.4	898	27.8	875	32.1	853	36.5	832	40.8	813	45.2								
	1600	1200	28.8	1174	34.2	1150	39.5	1128	44.9	1108	50.2	1088	55.6								
710WC	1000	817	22.2	786	26.4	757	30.6	730	34.7	704	38.9	680	43.1	8-10 LPM	150						
	1300	1161	28.9	1130	34.3	1101	39.7	1074	45.2	1049	50.6	1025	56.0								
	1600	1506	35.5	1474	42.2	1445	48.9	1418	55.6												
89WC	1000	936	25.7	912	30.0	890	34.3	869	38.7	850	43.0	831	47.3	8-10 LPM	100						
	1200	1174	30.8	1150	36.0	1128	41.2	1107	46.4	1087	51.6	1069	56.8								
	1440	1460	37.0	1435	43.2	1413	49.4	1393	55.7	1373	61.9	1355	68.2								
812WC	1000	1252	33.0	1219	38.8	1190	44.6	1162	50.4	1136	56.2	1111	61.9	10-12 LPM	125						
	1200	1570	39.6	1538	46.5	1508	53.5	1480	60.4	1454	67.4	1430	74.3								
	1440	1952	47.5	1919	55.8	1890	64.2	1862	72.5												
1012WC	1000	2140	54.5	2084	64.4	2034	74.3	1986	84.2	1942	94.2	1900	104.1	10-12 LPM	150						
	1200	2684	65.4	2628	77.3	2578	89.2	2530	101.1	2486	113.0	2444	124.9								
	1440	3336	78.5	3281	92.8	3230	107.1	3183	121.3	3138	135.6	3096	149.8								
1016WC	1000	2875	71.6	2801	84.9	2733	98.2	2669	111.5	2609	124.8	2553	138.1	16-18 LPM	200						
	1200	3606	85.9	3532	101.8	3464	117.8	3400	133.8	3340	149.8	3284	165.7								
	1440	4483	103.0	4409	122.2	4341	141.4	4277	160.5												

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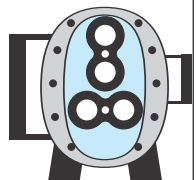
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