

WINFAN Corrosion Resistant FRP Fans

HIGH VOLUME • HIGH EFFICIENCY • QUALITY • RELIABILITY



- Patent rights for this model
- Static pressures to 325 mmAq
- Capacities to 2200 CMM
- Temperatures to 70°C



Certified Ratings

WINFAN technology co.,ltd. certifies that the Corrosion Resistant FRP Fans shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.



WINFAN Technology Corporation LTD.

WINFAN FRP FANS

Top Choice for professional users

Upon entering the era of knowledge-based economy, the cutting-edge and core competitiveness of an enterprise is built on creative, innovative and value-added products. Aiming at the needs of customers, WINFAN Technology Co LTD. with years of experiences in professional blower design, spares no efforts in providing the most innovative and cost-effective products continuously to the market.



Product Features

◆ Super-powerful Performance which Leads the Industry

WINFAN blowers, with the cost of a small blower, but the excellent performance of large blowers. WINFAN blowers are also cost-effective and super-powerful.

◆ Internationally Compatible Design Standards

The quality of WINFAN blowers is fully ensured, with the design being in line with the strict requirements of ASTM E4167 American Society for Testing Materials (ASTM)

◆ Foremost Professional Design Technology

WINFAN Blowers are designed using the integration of computer hydro-dynamics, CAD, CAM and computer aided software. The cutting-edge technology provides the WINFAN blowers with more effective, reliable, secure and durable qualities.

◆ Blower Product Sizes for Different Space Needs

WINFAN Blowers are designed with the forefront conception in terms of sizes and outlooks. The blowers will take the least possible space and therefore provide more flexibility for the floor planning.

◆ Most Human-Oriented Maintenance

The back-pulling design, ingenious structure of the blower body make WINFAN blower easy to install and dismantle, simple to replace and maintain.

◆ Professional & Complete Customer Support

WINFAN's client support team can provide the clients with the top-quality support. At the request of the clients, professionals will be dispatched to the installation site to provide accurate balancing of the blower system and give detailed instructions to the clients.



Performance data

Quick selection Methods

Example No.1 :

For a desired duty of 120 CMM(A), at sp 100 mmAq(B) the fan will need to run at 1859 RPM(C) and use 4.30HP(D)

Example No.2 :

When a desired duty falls between published ratings exact speed and horsepower can be interpolated. 145 CMM at sp 125 mmA1 can be determined by using below Table Data.

Q CMM	Sp125 mmAq	
	RPM	BHP
140	2117	6.38
145	2152	6.72
150	2187	7.06

TF-181		Wheel diameter: 480 mm Wheel circumference: 1508 mm				Outlet area: 0.158 m ² Inlet area: 0.159 m ²													
Volume cmm	Velocity m/s	Static Pressure mmAq																	
		50		75		100		125		150		175		200		225		250	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
80	8.5	1283	1.41	1471	2.03	1643	2.71	1802	3.44	1952	4.21	2094	5.03	2229	5.88	2358	6.76	2481	7.69
100	10.6	1420	1.94	1585	2.65	1738	3.42	1883	4.23	2020	5.08	2151	5.97	2276	6.90	2396	7.86	2512	8.86
120	12.7	1577	2.65	1722	3.45	1859	4.30	1990	5.20	2115	6.14	2236	7.11	2352	8.12	2464	9.16	2572	10.24
130	13.8	1660	3.09	1796	3.92	1927	4.82	2051	5.76	2171	6.74	2287	7.76	2398	8.81	2506	9.89	2611	11.01
140	14.8	1746	3.58	1875	4.46	1998	5.39	2117	6.38	2232	7.40	2343	8.46	2450	9.56	2554	10.68	2656	11.84
150	15.9	1834	4.14	1956	5.06	2074	6.03	2187	7.06	2297	8.12	2403	9.23	2506	10.37	2607	11.54	2705	12.74
160	16.9	1924	4.77	2040	5.72	2152	6.74	2260	7.80	2365	8.91	2467	10.06	2567	11.24	2664	12.45	2758	13.70
170	18.0	2015	5.47	2126	6.46	2232	7.52	2336	8.62	2437	9.77	2535	10.96	2631	12.19	2724	13.44	2816	14.73
180	19.0	2108	6.25	2213	7.28	2315	8.38	2414	9.52	2511	10.71	2606	11.94	2698	13.21	2788	14.51	2877	15.84
190	20.1	2202	7.12	2303	8.18	2400	9.32	2495	10.50	2588	11.73	2679	13.00	2768	14.31	2855	15.65	2941	17.02
200	21.2	2297	8.07	2393	9.17	2487	10.34	2578	11.57	2668	12.84	2755	14.15	2841	15.50	2925	16.88	3008	18.30

Performance certified is for installation type A-Free inlet, Free outlet with partition
 Power rating BHP does not include transmission losses.
 Performance ratings do not include the effects of appurtenances (accessories).

WINFAN Technology Co., Ltd.



Performance data

TF-241		Wheel diameter: 650 mm Wheel circumference: 2042 mm				Outlet area:0.282m ² Inlet area:0.283m ²				
Volume cmm	Velocity m/s	Static Pressure mmAq								
		75	100	125	150	175	200	225	250	275
		RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP
120	7.1	1129 3.22	1265 4.4	1388 5.68	1501 7.04	1606 8.48	1705 9.99	1798 11.57	1887 13.23	1972 14.94
140	8.2	1178 3.75	1307 5.01	1426 6.36	1536 7.80	1639 9.31	1736 10.90	1827 12.56	1915 14.28	1998 16.06
160	9.4	1233 4.36	1356 5.71	1469 7.14	1575 8.66	1675 10.25	1770 11.92	1860 13.65	1946 15.44	
180	10.6	1295 5.08	1410 6.51	1518 8.03	1621 9.63	1717 11.03	1809 13.04	1897 14.85		
200	11.8	1362 5.91	1470 7.43	1573 9.03	1671 10.71	1764 12.47	1853 14.30			
220	13.0	1434 6.87	1535 8.47	1633 10.16	1726 11.93	1815 13.77	1901 15.68			
240	14.1	1509 7.96	1604 9.66	1697 11.43	1785 13.29	1871 15.21				
260	15.3	1588 9.20	1677 10.99	1765 12.86	1849 14.80	1931 16.81				
280	16.5	1669 10.60	1754 12.48	1836 14.44	1916 16.47	1994 18.57				
300	17.7	1753 12.17	1832 14.15	1910 16.20	1987 18.32					
320	18.8	1838 13.92	1913 15.99	1988 18.14	2060 20.35					

TF-301		Wheel diameter: 800 mm Wheel circumference: 2513 mm				Outlet area: 0.440 m ² Inlet area: 0.442 m ²				
Volume cmm	Velocity m/s	Static Pressure mmAq								
		75	100	125	150	175	200	225	250	275
		RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP
275	10.4	1058 72.0	1149 9.44	1234 11.62	690 106.8	1391 16.32	1464 18.82	1534 21.42	1061 24.10	1666 26.87
300	11.4	1104 78.5	1191 10.53	1273 12.81	696 114.0	1424 17.70	1495 20.30	1563 22.99	1629 25.78	1692 28.64
325	12.3	1153 85.6	1235 11.76	1314 14.13	703 122.0	1460 19.22	1529 21.91	1595 24.70	1658 27.58	
350	13.3	1203 93.2	1282 13.11	1357 15.59	712 130.8	1498 20.88	1565 23.67	1629 28.55	1691 29.53	
375	14.2	1255 101.4	1331 14.62	1403 17.20	721 140.4	1539 22.68	1603 25.57	1665 28.55		
400	15.2	1309 110.1	1381 16.27	1450 18.96	731 150.7	1581 24.64	1643 27.63			
425	16.1	1364 119.4	1433 18.10	1499 20.89	743 161.7	1625 26.78	1686 29.87			
450	17.0	1420 129.1	1486 20.09	1550 22.99	754 173.4	1671 29.09				
475	18.0	1477 139.5	1540 22.27	1601 25.28	767 185.7					
500	18.9	1535 161.9	1596 24.64	1654 27.76						
525	19.9	1593 186.8	1652 27.22							

TF-361		Wheel diameter: 970 mm Wheel circumference: 3047 mm				Outlet area: 0.63 m ² Inlet area: 0.636 m ²				
Volume cmm	Velocity m/s	Static Pressure mmAq								
		75	100	125	150	175	200	225	250	275
		RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP
350	9.2	821 9.51	903 12.48	960 15.64	1052 19.0	1119 22.52	1183 28.2	1243 30.3	1301 34.01	1356 38.12
400	10.4	867 11.28	944 14.46	1017 17.84	1085 21.40	1150 25.12	1212 29.0	1271 33.03	1327 37.20	1381 41.50
450	11.8	917 13.37	990 16.77	1058 20.36	1123 24.13	1185 28.06	1245 32.14	1302 36.37	1357 40.74	1409 45.23
500	13.1	972 15.82	1039 19.44	1103 23.25	1165 27.23	1225 31.37	1382 35.66	1337 40.09	1390 44.66	
550	14.4	1029 18.65	1092 22.50	1152 26.53	1211 30.73	1267 35.08	1322 39.58	1375 44.23		
575	15.1	1059 20.23	1120 24.19	1178 28.33	1235 32.64	1290 37.10	1343 41.71	1395 46.46		
600	15.7	1089 21.91	1148 25.99	1205 30.25	1260 34.67	1314 39.24	1366 43.96	1416 48.81		
650	17.0	1151 25.63	1206 25.95	1260 34.34	1312 39.08	1363 43.87	1413 48.81			
700	18.3	1215 29.85	1287 34.41	1317 39.12	1366 44.0	1415 49.02				
750	19.6	1281 34.61	1329 39.40	1376 44.36	1423 49.46	1469 54.71				
800	21.0	1347 39.93	1393 44.98	1438 50.17	1482 55.51					

Performance certified is for installation type A-Free inlet, Free outlet with partition
 Power rating BHP does not include transmission losses.
 Performance ratings do not include the effects of appurtenances (accessories).



TF-421		Wheel diameter: 1090 mm Wheel circumference: 3424 mm				Outlet area:0.790m ² Inlet area:0.785m ²				
Volume cmm	Velocity m/s	Static Pressure mmAq								
		100	125	150	175	200	225	250	275	300
		RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP
550	11.6	869 20.29	931 24.75	989 29.43	1045 34.31	1099 39.39	1150 44.66	1199 50.1	1247 55.71	1292 61.48
600	12.7	902 22.81	961 27.48	1018 32.38	1072 37.47	1124 42.76	1174 48.23	1222 53.87	1268 59.68	1313 65.64
650	13.7	938 25.63	995 30.52	1049 35.63	1101 40.94	1151 46.43	1199 52.11	1246 57.96	1291 63.97	1335 70.13
700	14.8	976 28.77	1030 33.89	1081 39.21	1131 44.73	1180 50.44	1227 56.33	1272 62.38	1316 68.6	
750	15.8	1015 32.26	1066 37.59	1116 43.14	1164 48.88	1210 54.81	1256 60.9	1300 67.17		
800	16.9	1056 36.10	1105 41.67	1152 47.44	1198 53.40	1243 59.55	1287 65.86	1329 72.34		
850	17.9	1098 40.34	1144 46.14	1190 52.14	1234 58.32	1277 64.68	1319 71.22			
900	19.0	1141 44.99	1185 51.02	1229 57.25	1271 63.66	1313 70.24				
950	20.0	1185 50.07	1227 56.34	1269 62.80	1310 69.44					
1000	21.1	1230 55.61	1270 62.12	1310 68.81						
1050	22.2	1276 61.62	1314 68.38							

TF-481		Wheel diameter: 1300 mm Wheel circumference: 4084 mm				Outlet area:1.128m ² Inlet area:1.131m ²				
Volume cmm	Velocity m/s	Static Pressure mmAq								
		125	150	175	200	225	250	275	300	325
		RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP
800	11.8	739 35.7	788 41.1	835 46.8	880 53.0	924 59.9	967 67.3	1009 75.1	1050 83.4	1090 92.0
900	13.3	772 43.1	817 48.9	861 54.9	903 61.0	945 67.6	985 74.6	1025 82.2	1063 90.2	
1000	14.7	809 51.2	851 57.9	892 64.5	931 71.0	970 77.7	1008 84.6	1046 91.9		
1050	15.5	829 55.5	869 62.8	909 69.7	947 76.6	985 83.4	1022 90.5	1058 97.7		
1100	16.2	850 60.0	888 67.8	926 75.2	964 82.5	1000 89.6	1036 96.8			
1150	16.9	871 64.7	908 73.0	945 80.9	981 88.6	1016 96.2	1051 103.6			
1200	17.7	892 69.6	929 78.4	964 86.8	999 95.0	1034 103.0				
1250	18.4	914 74.7	950 84.0	984 92.9	1018 101.6	1051 110.1				
1300	19.2	937 80.1	971 89.8	1005 99.3	1037 108.5					
1400	20.6	983 91.6	1015 102.1	1047 112.5						
1500	22.1	1031 104.5	1061 115.6							

TF-541		Wheel diameter: 1462 mm Wheel circumference: 4593 mm				Outlet area: 1.428 m ² Inlet area: 1.431 m ²				
Volume cmm	Velocity m/s	Static Pressure mmAq								
		175	200	225	250	275	300	325	350	375
		RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP
900	10.5					890 87.7	927 97.4	964 107.1	1000 116.9	1035 128.5
1000	11.6					896 94.0	932 103.9	968 114.2	1002 124.8	1036 135.5
1100	12.8					906 101.5	941 111.4	975 121.8	1008 132.6	1041 143.7
1200	14.0					920 110.8	953 120.6	986 130.9	1018 141.6	1049 152.7
1300	15.1				903 112.2	936 121.7	968 131.5	999 141.8	1030 152.4	1060 163.5
1400	16.3			892 114.8	923 124.4	955 134.2	985 144.2	1015 154.5	1045 165.2	1074 176.2
1500	17.5			915 127.7	945 137.9	975 148.1	1005 158.4	1033 169.0	1062 179.8	1090 190.9
1600	18.6		911 130.6	940 141.6	969 152.4	998 163.2	1026 174.1	1054 185.1	1081 196.2	1108 207.5
1700	19.8	910 132.5	938 144.5	967 156.3	994 167.9	1022 179.5	1049 191.0	1076 202.5	1102 214.1	1128 225.8
1800	21.0	940 146.4	967 159.3	994 171.9	1023 184.4	1047 196.8	1073 209.0	1099 221.2	1124 233.4	1149 245.6
1900	22.1	971 161.3	997 175.0	1023 188.5	1049 201.8	1074 215.0	1099 228.1	1124 241.0	1148 253.9	1172 266.8

Performance certified is for installation type A-Free inlet, Free outlet with partition
 Power rating BHP does not include transmission losses.
 Performance ratings do not include the effects of appurtenances (accessories).

WINFAN Technology Co., Ltd.

TF-601

Wheel diameter: 1610 mm
Wheel circumference: 5058 mm

Outlet area: 1.755m²
Inlet area: 1.767m²

Volume cmm	Velocity m/s	Static Pressure mmAq																	
		125		150		175		200		225		250		275		300		325	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	11.4	630	53.99	670	64.2	708	74.86	744	85.95	779	97.44	812	109.3	844	121.5	875	134.1	905	147.1
1300	12.3	649	59.45	687	70.08	724	81.16	759	92.65	793	104.6	826	116.8	857	129.5	888	142.4	917	155.7
1400	13.3	669	65.45	706	76.51	742	88.01	776	99.93	809	112.2	841	124.9	871	138.0	901	151.3		
1500	14.2	691	72.03	726	83.53	761	95.46	794	107.8	826	120.5	857	133.6	887	147.1				
1600	15.2	714	79.24	748	91.18	780	103.6	812	116.3	843	129.5	874	143.0						
1700	16.1	737	87.11	770	99.5	801	112.3	832	125.5	862	139.1								
1800	17.1	761	95.69	793	108.5	823	121.8	853	135.4	882	149.4								
1900	18.0	786	105.0	816	118.3	846	132.0	875	146.1										
2000	19.0	812	115.1	841	128.8	869	143.0	897	157.5										
2100	19.9	838	126.0	866	140.2	893	154.8												
2200	20.9	865	137.7	892	152.4														

TF-661

Wheel diameter: 1788 mm
Wheel circumference: 5617 mm

Outlet area: 2.132 m²
Inlet area: 2.138 m²

Volume cmm	Velocity m/s	Static Pressure mmAq																	
		175		200		225		250		275		300		325		350		375	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1400	10.3									730	135.1	761	150.0	790	165.0	820	179.9	848	194.3
1500	11.0									734	141.0	764	156.3	793	172.1	821	188.1	849	204.2
1600	11.8									739	147.7	768	163.0	796	179.0	824	195.5	851	212.4
1700	12.5									745	155.6	774	170.7	801	186.5	828	203.1	855	220.3
1800	13.2									753	164.8	780	179.6	807	195.3	833	211.7	859	228.8
1900	14.0							734	161.4	762	175.4	788	190.0	814	205.4	840	221.5	865	238.5
2000	14.7							745	173.1	771	187.1	797	201.7	822	217.0	847	232.9	871	249.6
2100	15.4					730	171.8	756	185.8	781	200.1	806	214.7	831	229.9	855	245.7	879	262.2
2200	16.2					743	184.8	768	199.4	793	214.0	817	228.9	841	244.3	864	260.1	888	276.4
2400	17.6			746	196.3	770	212.6	794	228.7	817	244.5	840	260.4	863	276.4	885	292.6	907	309.2
2600	19.1	754	206.0	776	224.5	799	242.7	822	260.5	844	278.0	865	295.3	887	312.4	908	329.6	929	346.9

TF-721

Wheel diameter: 1950 mm
Wheel circumference: 6126 mm

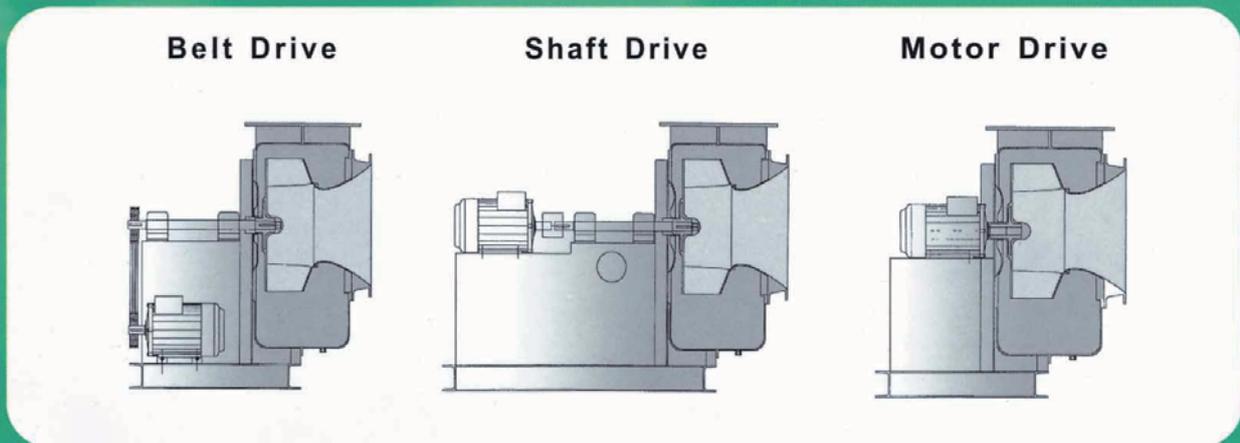
Outlet area: 2.538 m²
Inlet area: 2.545 m²

Volume cmm	Velocity m/s	Static Pressure mmAq																	
		175		200		225		250		275		300		325		350		375	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1600	10.5									670	158.6	697	176.1	725	193.4	752	210.0	779	225.5
1700	11.1									671	164.0	698	182.4	726	201.1	752	219.6	778	237.8
1800	11.8									673	169.7	701	188.4	727	207.7	753	227.3	779	247.1
1900	12.4									677	176.2	704	194.7	730	214.2	756	234.3	781	254.9
2000	13.1									682	183.7	708	201.9	734	221.2	759	241.4	783	262.3
2100	13.8									688	192.3	713	210.3	738	229.3	762	249.2	786	270.1
2200	14.4							670	185.5	694	202.2	719	219.8	743	238.5	767	258.2	790	278.8
2400	15.7							684	208.6	708	225.2	732	242.6	755	260.8	778	279.9	800	299.9
2600	17.0					679	217.8	702	234.9	725	252.2	747	269.9	769	288.0	791	306.9	812	326.4
2800	18.3			677	226.3	700	245.3	722	263.9	743	282.3	765	300.9	786	319.6	806	338.7	827	358.2
3000	19.7	679	232.5	701	253.8	722	274.6	743	295.0	763	315.0	784	334.9	804	354.6	824	374.5	843	394.6

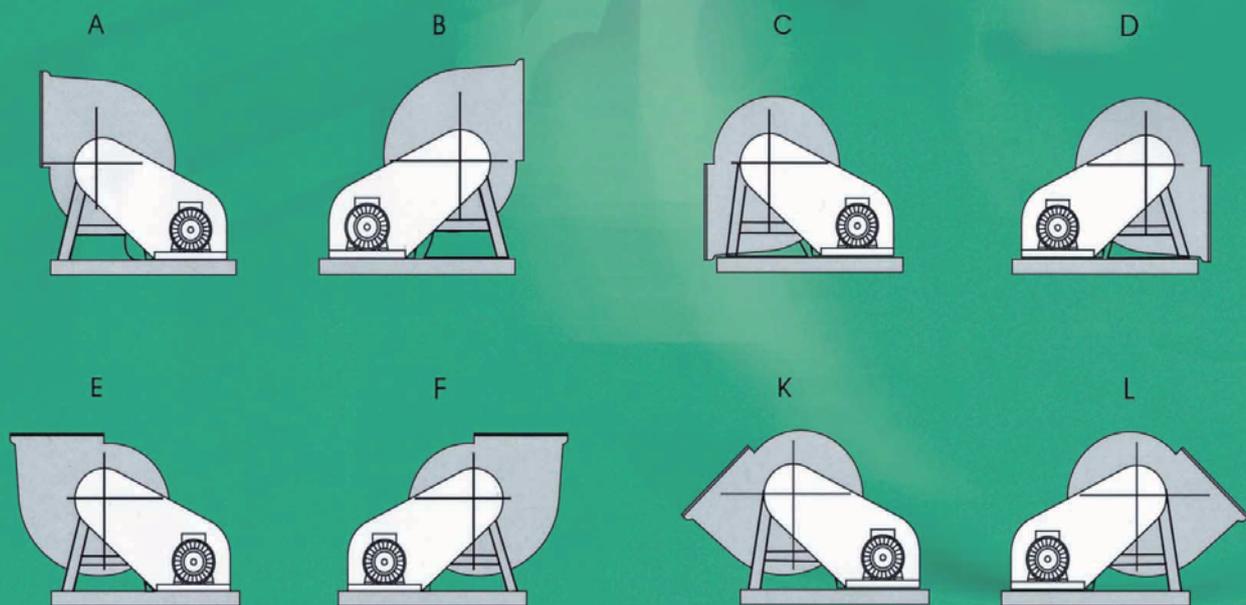
Performance certified is for installation type A-Free inlet, Free outlet with partition
Power rating BHP does not include transmission losses.
Performance ratings do not include the effects of appurtenances (accessories).

Technology Data

◆ Drive Type:



◆ Arrangements



- Criterion as the lateral orientation of the motor
- Additionally, made the orientation of the client freely

WINFAN Technology Co., Ltd.

TEL: 886-3-2120031 FAX: 886-3-2120032

<http://www.winfan.com.tw> E-mail: frpfan@seed.net.tw