BULLETIN WF001
September,2020

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℃

amca WORLDWIDE CERTIFIED RATINGS
AIR PERFORMANCE
AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.®
www.amca.org

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 ASTMD4167 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 endurable 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 detaild instructions to the clients.

amca WORLDWIDE CERTIFIED RATINGS AIR PERFORMANCE AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.

Certified Ratings

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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 2166 RPM(C) and use 4.63HP(D)

Example No.2 :

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

Q CMM	Sp125 mmAq RPM	Sp125 mmAq BHP
140	2475	6.93
145	2522	7.35
150	2569	7.76

A B C D

TF-181		Wheel diameter:480mm wheel circumference:1508mm								Outlet area: 0.158 m² Inlet area: 0.159 m²		
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	1488 1.5	1671 2.09	1835 2.73	1986 3.41	2125 4.13	2256 4.88	2379 5.67	2496 6.49	2608 7.35		
100	10.6	1675 2.15	1840 2.84	1992 3.57	2132 4.33	2263 5.13	2386 5.96	2504 6.83	2616 7.72	2723 8.65		
120	12.7	1877 3.02	2027 3.81	2166 4.63	2296 5.49	2419 6.38	2535 7.29	2646 8.24	2753 9.22			
130	13.8	1982 3.56	2125 4.4	2259 5.27	2384 6.17	2503 7.11	2616 8.07	2724 9.06				
140	14.8	2090 4.16	2227 5.05	2354 5.98	2475 6.93	2590 7.91	2700 8.92					
150	15.9	2200 4.84	2330 5.79	2453 6.76	2569 7.76	2680 8.79	2787 9.85					
160	16.9	2312 5.6	2436 6.6	2554 7.63	2666 8.68	2774 9.76						
170	18.0	2425 6.45	2544 7.51	2657 8.58	2766 9.69	2869 10.82						
180	19.0	2540 7.39	2654 8.5	2763 9.63	2867 10.79	2967 11.97						
200	21.2	2772 9.58	2877 10.79	2978 12.03	3075 13.29							
210	22.2	2889 10.83	2991 12.1	3088 13.39	3182 14.71							

Performance certified is for installation type A – Free inlet, Free outlet.Results at Standard Air.
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:650mm wheel circumference:2042mm						Outlet area:0.282m² Inlet area: 0.283m²		
		Static Pressure mmAq								
Volume	Velocity	75	100	125	150	175	200	225	250	275
cmm	m/s	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 7.8	1639 9.31	1736 10.9	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 11.3	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 14.3			
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 9.2	1677 10.99	1765 12.86	1849 14.8	1931 16.81				
280	16.5	1669 10.6	1754 12.48	1836 14.44	1916 16.47	1994 18.57				
300	17.7	1753 12.17	1832 14.15	1910 16.2	1987 18.32					
320	18.8	1838 13.92	1913 15.99	1988 18.14	2060 20.35					

TF-301		Wheel diameter:800mm wheel circumference:2513mm						Outlet area:0.440m² Inlet area: 0.442m²		
		Static Pressure mmAq								
Volume	Velocity	75	100	125	150	175	200	225	250	275
cmm	m/s	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP
275	10.4	1058 7.39	1149 9.44	1234 11.62	1315 13.91	1391 16.32	1464 18.82	1534 21.42	1061 24.1	1666 26.87
300	11.4	1104 8.39	1191 10.53	1273 12.81	1350 15.2	1424 17.7	1495 20.3	1563 22.99	1629 25.78	1692 28.64
325	12.3	1153 9.51	1235 11.76	1314 14.13	1389 16.62	1460 19.22	1529 21.91	1595 24.7	1658 27.58	
350	13.3	1203 10.76	1282 13.11	1357 15.59	1429 18.18	1498 20.88	1565 23.67	1629 26.55	1691 29.53	
375	14.2	1255 12.16	1331 14.62	1403 17.2	1472 19.89	1539 22.68	1603 25.57	1665 28.55		
400	15.2	1309 13.71	1381 16.27	1450 18.96	1517 21.75	1581 24.64	1643 27.63			
425	16.1	1364 15.42	1433 18.1	1499 20.89	1563 23.78	1625 26.78	1686 29.87			
450	17.0	1420 17.31	1486 20.09	1550 22.99	1611 25.99	1671 29.09				
475	18.0	1477 19.38	1540 22.27	1601 25.28	1661 28.38					
500	18.9	1535 21.63	1595 24.64	1654 27.76						
525	19.9	1593 24.1	1652 27.22							

TF-361		Wheel diameter:970mm wheel circumference:3047mm						Outlet area : 0.63m² Inlet area: 0.636m²		
		Static Pressure mmAq								
Volume	Velocity	75	100	125	150	175	200	225	250	275
cmm	m/s	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	980 15.64	1052 19	1119 22.52	1183 26.2	1243 30.3	1301 34.01	1356 38.12
400	10.4	867 11.28	944 14.46	1017 17.84	1085 21.4	1150 25.12	1212 29	1271 33.03	1327 37.2	1381 41.5
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	1282 35.66	1337 40.09	1390 44.66	
550	14.4	1029 18.65	1092 22.5	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 37.1	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 29.95	1260 34.43	1312 39.08	1363 43.87	1413 48.81			
700	18.3	1215 29.85	1267 34.41	1317 39.12	1366 44	1415 49.02				
750	19.6	1281 34.61	1329 39.4	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.Results at Standard Air.
Power rating BHP does not include transmission losses.
Performance ratings do not include the effects of appurtenances.(accessories)

TF-421

Wheel diameter:1090mm
wheel circumference:3424mm

Outlet area:0.790m²
Inlet area: 0.785 m²

Volume	Velocity	Static Pressure mmAq																	
		100		125		150		175		200		225		250		275		300	
cmm	m/s	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	36.1	1105	41.67	1152	47.44	1198	53.4	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	62.8	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:1300mm
wheel circumference:4084mm

Outlet area:1.128m²
Inlet area: 1.131 m²

Volume	Velocity	Static Pressure mmAq																	
		125		150		175		200		225		250		275		300		325	
cmm	m/s	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-601

Wheel diameter:1610mm
wheel circumference:5058mm

Outlet area:1.755m²
Inlet area: 1.767m²

Volume	Velocity	Static Pressure mmAq																	
		125		150		175		200		225		250		275		300		325	
cmm	m/s	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	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						
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	816	118.3	846	132	875	146.1										
2000	19.0	812	115.1	841	128.8	869	143	897	157.5										
2100	19.9	838	126	866	140.2	893	154.8												
2200	20.9	865	137.7	892	152.4														

Performance certified is for installation type A – Free inlet, Free outlet.Results at Standard Air.
Power rating BHP does not include transmission losses.
Performance ratings do not include the effects of appurtenances.(accessories)

Fan Dimension

TF-181B 241B 301B

MODEL	BODY												
	A	B	BKL	CAB	CCD	CEF	CKL	D	E	FCD	FKL	LA	LB
TF-181B	800	387	712	650	700	650	650	620	335	409	372	715	290
TF-241B	970	500	912	800	900	800	800	790	430	531	482	856	341
TF-301B	1100	626	1114	800	1100	950	950	950	480	614	436	981	400

MODEL	BASE					OUTLET		INLET	
	R	U	N	S	ØA	H1 • L1	H2 • L2	ØC1	ØC2
TF-181B	1100	660	900	100	16	450 • 350	570 • 470	450	550
TF-241B	1350	800	1150	100	16	600 • 490	720 • 610	600	700
TF-301B	1550	900	1250	150	16	800 • 550	940 • 690	750	850

★ For specific size ,please do not hesitate to contact with us.

TF-361B 421B 481B 601B

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MODEL	BODY											
	A	B	B_{KL}	C_{AB}	C_{CD}	C_{EF}	C_{LK}	D	E	F_{CD}	F_{KL}	L_A	L_B
TF-361B	1315	777	1384	1000	1300	1150	1150	1180	655	800	726	1147	481
TF-421B	1580	854	1557	1100	1500	1300	1300	1347	772	887	803	1255	534
TF-481B	1715	1000	1793	1200	1650	1400	1400	1535	860	1035	940	1402	634
TF-601B	1890	1204	1612	1300	2050	1550	1700	1905	1075	1197	1090	1648	745

MODEL	BASE							OUTLET						INLET	
	R_A	R_B	U_A	U_B	N	S	W	V	ØA	H_1	H_2	L_1	L_2	$ØC_1$	$ØC_2$
TF-361B	1500	750	2000	1370	750	150	850	1070	16	900	1050	700	850	900	1020
TF-421B	1640	760	2350	1540	820	150	1025	1240	16	1000	1150	800	950	1000	1120
TF-481B	1900	850	2600	1770	950	150	1150	1470	16	1200	1350	950	1100	1200	1350
TF-601B	2180	950	2900	2020	1090	150	1300	1720	16	1500	1680	1100	1280	1500	1630

★ For specific size ,please do not hesitate to contact with us.

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.

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