

DUCT IN LINE FAN

GMF-C series

GSF

SINCE 1975

www.gsfan.co.kr

DUCT IN LINE FAN (MIXED FLOW FAN) GMF-C series



가변형 날개를 적용 날개 각도에 따라 풍량과 압력을 조절 할 수 있으며 날개의 소재가 알루미늄으로 경량화를 실현 저소음, 저진동을 실현하였습니다.

Variable Impeller apply, As Impeller degree control air flow and pressure, Material of Impeller is Aluminum so that the weight of Fan realize minium sound level and vibration.

DUCT IN LINE FAN (MIXED FLOW FAN)

벨트 구동방식과 직결형으로 구분되며, 풍량, 정압의 조건에 따라 구동 방식이 달라질 수 있습니다.

가변형 날개를 적용 날개 각도에 따라 풍량과 압력을 조절할 수 있으며 날개의 소재가 알루미늄으로 경량화를 실현 저소음, 저진동을 실현하였습니다.

The subdivision of Duct Inline Fan Belt Drive, Direct Drive, AS condition of Air Flow, Pressure is different drive method.

Variable Impeller apply, AS Impeller Degree control air Flow and Pressure, Material of Impeller is Aluminum so that the Weight of Fan realize minimum sound level and vibration.



DUCT IN LINE FAN (MIXED FLOW FAN)



GUMSUNG POONG RYUK Co.,Ltd. certifies that the Mixed Flow FAN shown here in is licensed to bear the AMCA Seal. The Ratings shown are based on tests and procedure performed in accordance with AMCA publication 211, 311 and comply with the requirements of the AMCA Certified Ratings Program.



The AMCA Certified Ratings Seal applies to MF-315 through MF-800 only

The IMPELLER is variable degree Impeller.

The Degree is 17°, 22°, 27°, 32°, 37°

This Catalog data applies 32° Impeller. The Capacity, pressure Power and etc Specification can change from Impeller degree.

Type GMF FAN Series

Gumsung Mixed Flow Fan model is Direct Driver type fan.

1. Wheels

All wheels are dynamically balanced and designed to perform up to 100% of standard capacity. The wheels are made of aluminum and generally constructed by tighten Bolt will be applied in case when high speed is required or the air is dusted or wet.

2. HUB

The hub is made of gray castings(GC 200) and can be fixed to Motor shaft with keys .

3. Casing

The Constructed of metal sheets and section steel with continuous welding to perform 100% of standard capacity.

4. Inlet Cone

Designed to perform 100% of standard capacity enabling the maximum control. A special care was done to keep the inlet cones from touching other parts to include wheels. It can be easily assembled to the casing with flat washers.

5. Outlet Vane

It accurately controls the air flow and the air flow Direction is the flow through outlet Vane.

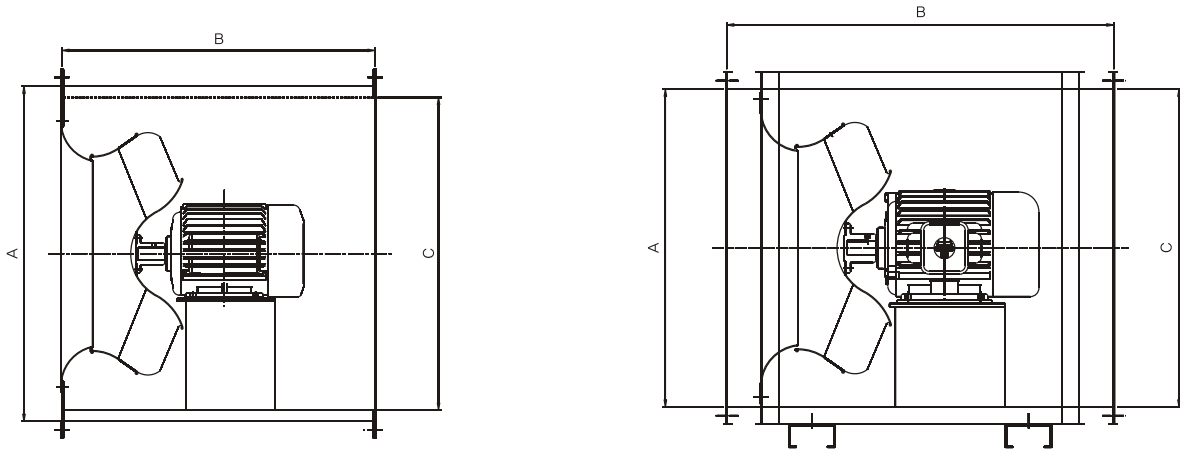
6. Outlet Shape

Square type outlet model is optional.

GMF-C series (MIXED FLOW FAN)

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표준외형도 Standard shape of DUCT IN LINE FAN(GMF-C SERIES)



GMF-C : Casing Circle Type(원형 케이싱)

unit: mm

MODEL NO.	A (Flange Inlet)	B (Casing Length)	C (Outlet Dim')	MOTOR	
GMF-315C	□500 X 500	450	Ø450	0,5HP-4P	
GMF-350C	□550 X 550	500	Ø500	1HP-4P	
GMF-400C	□600 X 600	550	Ø550	2HP-4P	
GMF-450C	□680 X 680	650	Ø630	3HP-4P	2HP-6P
GMF-500C	□750 X 750	700	Ø700	5HP-4P	3HP-6P
GMF-560C	□850 X 850	750	Ø800	5HP-4P	3HP-6P
GMF-630C	□900 X 900	800	Ø850	5HP-6P	
GMF-710C	□1000 X 1000	900	Ø950	7,5HP-6P	
GMF-800C	□1120 X 1120	1000	Ø1070	15HP-6P	

GMF-S : Casing Square Type(각형 케이싱)

unit: mm

MODEL NO.	A (Flange Inlet)	B (Casing Length)	C (Outlet Dim')	MOTOR	
GMF-315S	□400 X 400	570	□400 X 400	0,5HP-4P	
GMF-350S	□450 X 450	620	□450 X 450	1HP-4P	
GMF-400S	□500 X 500	670	□500 X 500	2HP-4P	
GMF-450S	□560 X 560	770	□560 X 560	3HP-4P	2HP-6P
GMF-500S	□630 X 630	770	□630 X 630	5HP-4P	3HP-6P
GMF-560S	□710 X 710	820	□710 X 710	5HP-4P	3HP-6P
GMF-630S	□800 X 800	920	□800 X 800	5HP-6P	
GMF-710S	□900 X 900	950	□900 X 900	7,5HP-6P	
GMF-800S	□1000 X 1000	1000	□1000 X 1000	15HP-6P	

※GMF-S는 본사 담당자와 협의바랍니다.

※GMF-S is consult with the head office staff please.

※상기 치수 및 성능 DATA는 성능 및 품질 개선을 위해 예고없이 변경할 수 있습니다.

※The dimensions and performance data can change without notice for performance and quality improvement.

GMF-C series (MIXED FLOW FAN)

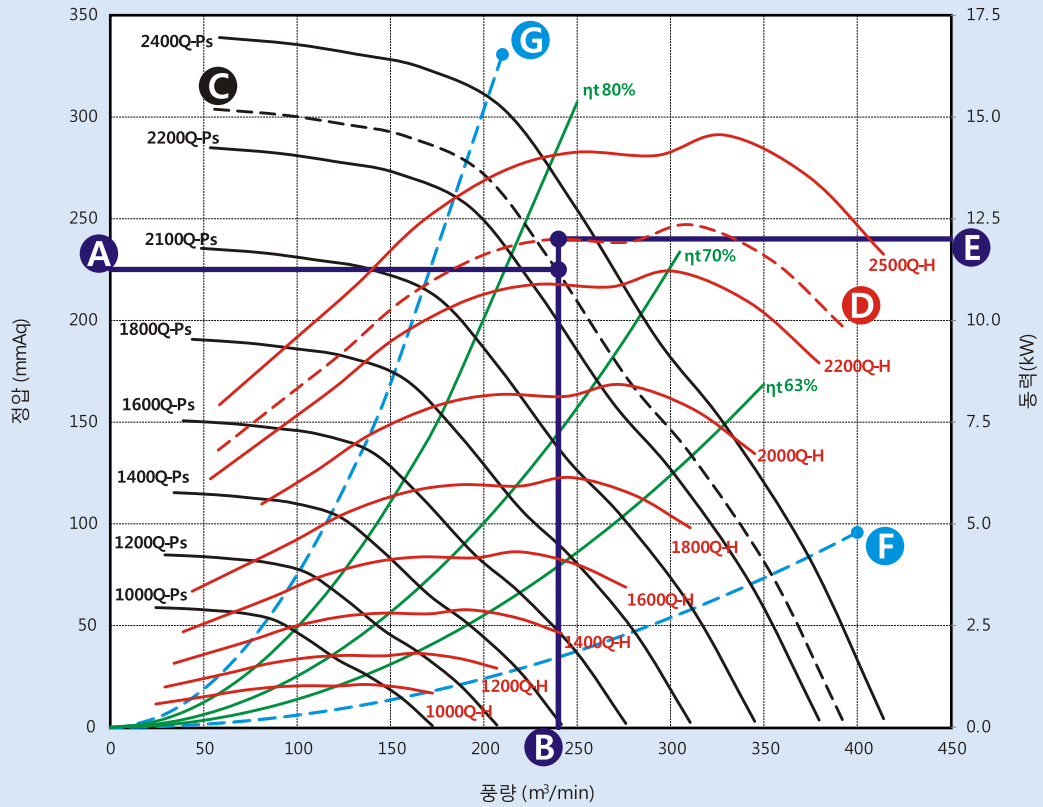
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팬 선정 방법 예 Fan Selection Example

Circular shape casing model name is "GMF-ddd-C".
Square shape casing model name is "GMF-ddd-S".



그래프 선정 방법



송풍기 사용점 선정방법

1. 요구되는 정압에 해당되는 수평선(A)을 긋는다.
2. 요구되는 풍량에 해당되는 수직선(B)을 긋는다.
3. 요구되는 정압(A) 및 풍량(B)의 교점의 예상회전수 및 예상 풍량압력곡선(C)을 구한다.
4. 예상 회전수에서의 예상동력곡선(D)을 추정한다.
5. 예상동력곡선과 만나는 요구 풍량 수직선의 교점을 동력선 좌표로 수평선(E)을 그린다.
6. 사용 권장 상한선(G)과 사용 권장 하한선(F)을 벗어나는 경우 효율적인 송풍기 운영을 위하여 송풍기 모델 및 기종을 변경하는 것이 바람직하다.

ex) 선정정압 (A) : 225 mmAq
선정풍량 (B) : 240 m³/min
선정 정압 및 풍량에 의하여 교점에서 만나는 풍량 압력곡선의 예상회전수(C)는 2272rpm 이다.
2272 rpm에 해당되는 예상 동력곡선(D)을 그린 후 동력값(E)은 약 11.78kW이다.
이때의 예상 전압효율은 약 76% 이다.

FAN DESIGN POINT SELECTION

1. Corresponding to the static pressure required horizontal line (A) always draw.
2. Draw a vertical line (B) that corresponds to the required air volume.
3. Calculate the estimated rotational speed and estimated air flow pressure curve (C) of the intersection point of the static pressure (A) and air flow rate (B) is required.
4. Estimates the estimated power curve (D) of the expected number of revolutions.
5. The expected power curve and the intersection of the vertical line corresponding to meet demand airflow to the power line coordinates to draw a horizontal line (E).
6. It is preferred to change the blower model and models for the efficient operation if it is not selected within a blower using the recommended upper limit (G) and using the recommended lower limit (F).

Examples) Selected static pressure(A) : 225 mmAq
Selected airflow rate(B) : 240 m³/min
Airflow pressure curve rotation is expected be selected static pressure and air flow (C), meet at the intersection of 2272rpm.
After drawing the expected power curve (D) corresponding to 2272 rpm for horizontal movement by a power value to meet the in intersection of the vertical line and the air flow (E) is about 11.78kW.
The total efficiency is expected at this point is estimated to be about 76%.

At this time, the selected power is the power consumption of a purely impeller.
Therefore, when considering the safety factor selected motor and drive loss must be selected and 115-125% larger than the minimum.

GMF-C series

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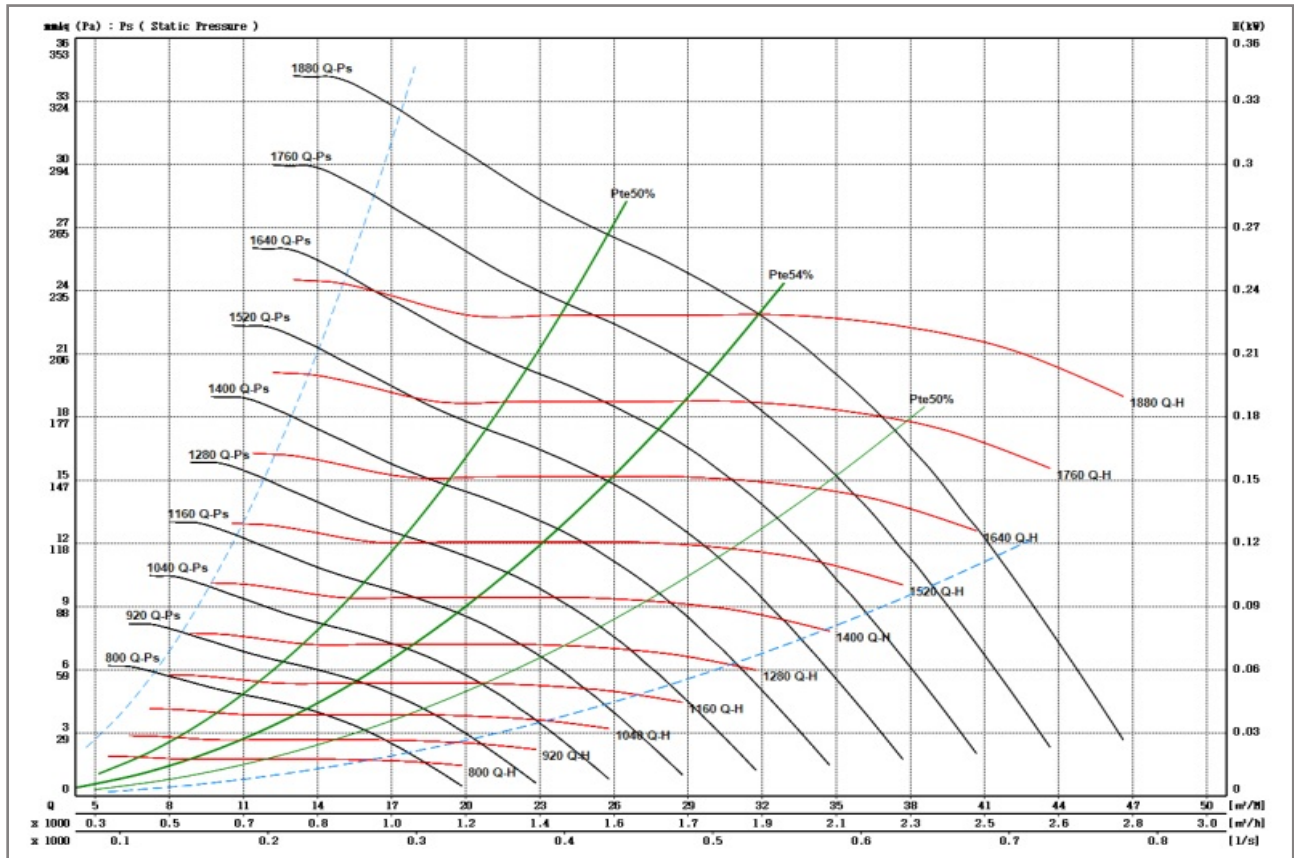


GMF-315

FEG 63

Blade Angle : 32°

Wheel dia	339 mm	Tip Speed = 0.01775 * rpm	Outlet Dim'	450	Outlet Area	0.1590 m ²	Class 1	3380 rpm	Class 2	4507 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	2 mmAq (20 Pa)				4 mmAq (39 Pa)				6 mmAq (59 Pa)				8 mmAq (78 Pa)				10 mmAq (98 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
12	1.26					800	0.02	52.3	56	885	0.02	49.3	59	989	0.03	46.6	61	1087	0.04	45.3	64
14	1.47					802	0.02	53.5	57	916	0.03	52.3	59	1022	0.04	49.3	62	1125	0.05	47.9	64
16	1.68					846	0.02	52.5	59	954	0.03	53.6	61	1057	0.04	52.3	63	1157	0.05	50.5	65
18	1.89	810	0.02	38.5	59	905	0.02	49.4	61	1004	0.03	53.1	63	1097	0.05	53.6	64	1182	0.06	52.3	66
20	2.10	870	0.02	35.4	61	967	0.03	46.8	63	1057	0.04	51.7	64	1140	0.05	53.5	65	1219	0.06	53.3	67
22	2.31	945	0.03	32.0	63	1030	0.04	43.1	65	1106	0.05	49.4	66	1190	0.06	52.5	67	1261	0.07	53.6	68
24	2.52	1023	0.03	28.2	65	1086	0.04	41.1	66	1164	0.05	48.2	67	1237	0.06	51.7	68	1303	0.08	53.1	69
26	2.72	1088	0.04	28.2	67	1153	0.05	38.5	68	1229	0.06	44.9	69	1293	0.07	49.4	69	1364	0.09	51.7	70
28	2.93	1171	0.05	23.9	69	1229	0.06	35.4	69	1289	0.07	43.1	70	1358	0.08	46.8	71	1408	0.09	50.6	71
30	3.14	1232	0.06	23.9	70	1305	0.07	32.0	71	1358	0.08	41.1	71	1419	0.09	44.9	72	1481	0.11	48.2	73
32	3.35	1314	0.07	18.8	72	1365	0.08	32.0	72	1420	0.09	38.5	73	1473	0.10	43.1	73	1530	0.12	46.8	74
34	3.56	1396	0.08	18.8	73	1450	0.09	28.2	74	1505	0.11	35.4	74	1539	0.12	41.1	75	1592	0.13	44.9	75

Air flow (m³/min)	Outlet Vel (m/sec)	12 mmAq (118 Pa)				14 mmAq (137 Pa)				16 mmAq (157 Pa)				18 mmAq (177 Pa)				20 mmAq (196 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
12	1.26	1170	0.06	43.2	66	1242	0.07	40.5	67	1297	0.08	40.5	69								
14	1.47	1212	0.06	46.6	66	1286	0.07	45.3	68	1351	0.09	43.2	69	1410	0.10	40.5	70	1484	0.12	40.5	72
16	1.68	1235	0.06	47.9	67	1310	0.08	46.6	68	1393	0.09	46.3	70	1458	0.11	45.3	71	1511	0.12	43.2	72
18	1.89	1267	0.07	50.5	67	1352	0.09	49.3	69	1423	0.10	47.9	70	1484	0.11	46.6	71	1562	0.13	46.6	73
20	2.10	1305	0.08	52.9	68	1383	0.09	51.4	69	1460	0.11	50.5	71	1533	0.12	49.3	72	1591	0.14	47.9	73
22	2.31	1341	0.08	53.6	69	1417	0.10	52.9	70	1488	0.11	52.3	71	1552	0.13	50.5	72	1616	0.15	49.3	73
24	2.52	1376	0.09	53.6	70	1458	0.11	53.6	71	1515	0.12	52.9	72	1586	0.14	52.3	73	1653	0.16	51.4	74
26	2.72	1425	0.10	53.1	71	1490	0.11	53.6	72	1559	0.13	53.6	73	1629	0.15	53.3	74	1693	0.17	52.9	74
28	2.93	1481	0.11	51.7	72	1539	0.13	53.1	73	1605	0.14	53.5	74	1654	0.16	53.6	74	1717	0.17	53.3	75
30	3.14	1539	0.12	50.6	73	1587	0.14	52.5	74	1645	0.15	53.1	75	1710	0.17	53.5	75	1769	0.19	53.6	76
32	3.35	1584	0.13	49.4	74	1649	0.15	50.6	75	1692	0.17	52.5	76	1745	0.18	53.1	76	1803	0.20	53.5	77
34	3.56	1649	0.15	48.2	76	1709	0.17	49.4	76	1752	0.18	50.6	77	1798	0.20	52.5	77	1845	0.22	53.1	77

- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
 - Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

GMF-C series

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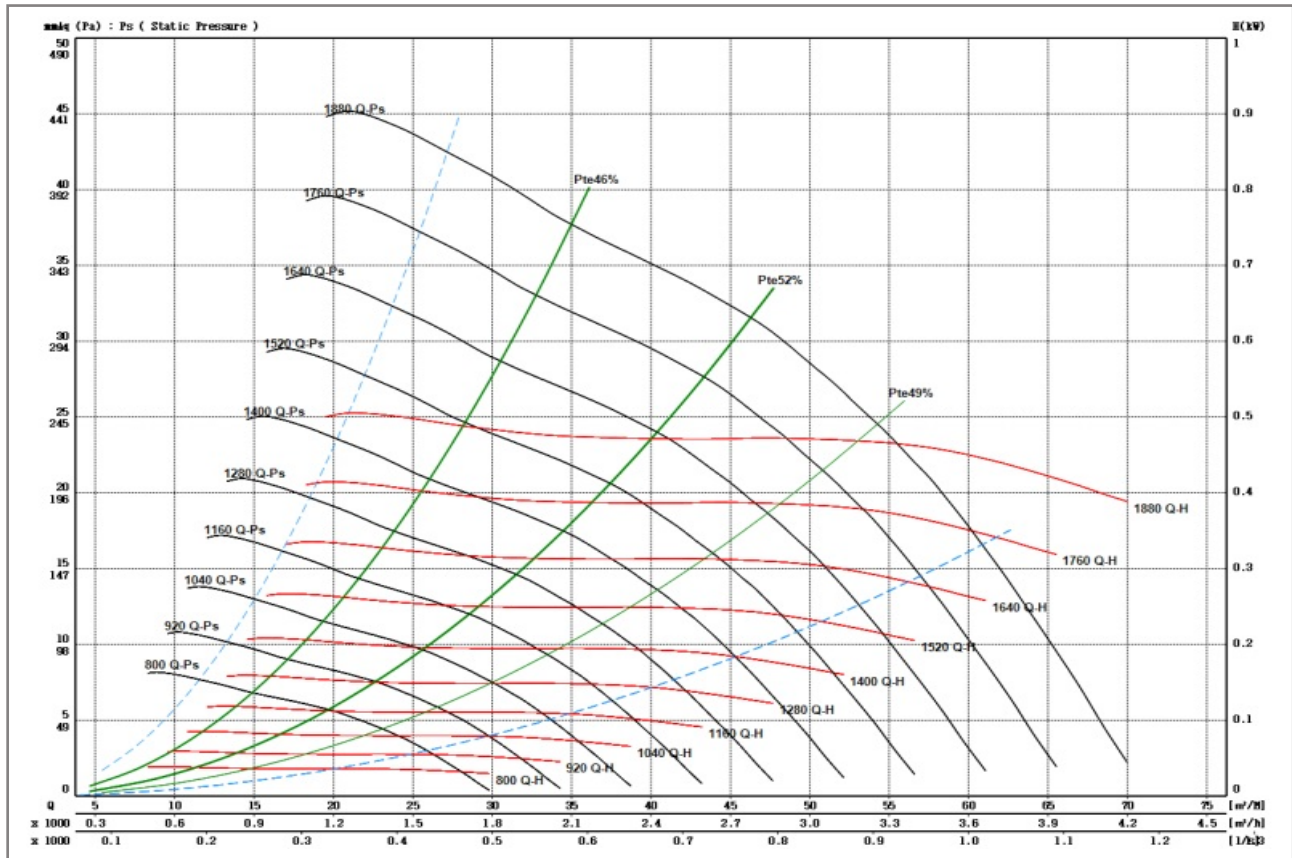


GMF-350

FEG 56

Blade Angle : 32°

Wheel dia	387 mm	Tip Speed = 0.020263 * rpm	Outlet Dim'	500	Outlet Area	0.1963 m ²	Class 1	2961 rpm	Class 2	3948 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	3 mmAq (29 Pa)				6 mmAq (59 Pa)				9 mmAq (88 Pa)				12 mmAq (118 Pa)				15 mmAq (147 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
12	1.02									830	0.04	39.3	60								
15	1.27					800	0.04	46.8	58	894	0.05	43.5	61	1002	0.07	39.3	64				
18	1.53					800	0.04	50.6	58	924	0.06	46.8	62	1044	0.08	44.5	65	1136	0.11	40.9	67
21	1.78					829	0.04	52.1	61	962	0.06	50.6	63	1071	0.09	47.1	65	1172	0.12	44.5	67
24	2.04					874	0.05	51.1	62	995	0.07	51.9	64	1108	0.10	50.3	66	1209	0.13	48.2	68
27	2.29	825	0.04	39.2	63	935	0.06	48.6	64	1037	0.08	51.9	66	1143	0.11	51.8	68	1242	0.14	50.6	69
30	2.55	894	0.05	35.7	65	991	0.07	46.5	66	1093	0.09	50.4	68	1184	0.12	51.9	69	1270	0.15	51.6	70
33	2.80	970	0.06	31.7	67	1057	0.08	43.5	68	1143	0.10	48.6	69	1234	0.13	51.1	70	1306	0.16	52.1	71
36	3.06	1034	0.07	31.7	69	1112	0.09	41.7	70	1198	0.12	46.5	71	1278	0.15	50.4	72	1354	0.18	51.5	73
39	3.31	1115	0.09	27.3	71	1175	0.11	39.2	71	1252	0.14	45.2	72	1330	0.17	48.6	73	1414	0.20	50.4	74
42	3.57	1179	0.10	27.3	72	1265	0.13	35.7	73	1321	0.16	43.5	74	1398	0.19	46.5	74	1455	0.22	49.5	75
45	3.82	1263	0.12	23.4	74	1324	0.15	34.7	75	1390	0.18	39.9	75	1446	0.21	45.2	76	1525	0.25	47.6	76

Air flow (m³/min)	Outlet Vel (m/sec)	18 mmAq (177 Pa)				21 mmAq (206 Pa)				24 mmAq (235 Pa)				27 mmAq (265 Pa)				30 mmAq (294 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
12	1.02																				
15	1.27																				
18	1.53	1228	0.14	39.3	69																
21	1.78	1264	0.15	43.5	69	1338	0.18	40.9	71	1418	0.21	39.3	73								
24	2.04	1292	0.15	45.5	70	1381	0.19	44.5	71	1452	0.22	42.6	73	1518	0.26	40.9	74	1589	0.30	39.8	76
27	2.29	1325	0.17	48.2	70	1412	0.20	46.8	72	1492	0.24	45.5	73	1565	0.28	44.5	74	1629	0.31	43.2	76
30	2.55	1361	0.18	50.6	71	1445	0.21	49.2	72	1525	0.25	47.8	74	1597	0.29	46.4	75	1668	0.33	45.5	76
33	2.80	1397	0.19	51.8	72	1470	0.23	50.6	73	1550	0.26	49.5	74	1623	0.30	48.2	75	1693	0.35	47.1	76
36	3.06	1430	0.21	52.1	74	1513	0.25	51.8	74	1590	0.28	51.2	75	1661	0.33	50.3	76	1728	0.37	49.2	77
39	3.31	1483	0.23	51.5	75	1545	0.26	52.1	75	1625	0.30	51.9	76	1693	0.34	51.4	77	1757	0.39	50.6	78
42	3.57	1530	0.25	50.9	76	1602	0.29	51.5	77	1658	0.32	52.1	77	1723	0.36	51.9	78	1792	0.41	51.6	79
45	3.82	1590	0.28	49.5	77	1642	0.31	50.9	78	1713	0.36	51.5	78	1773	0.40	52.0	79	1827	0.43	52.0	79

- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
 - Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

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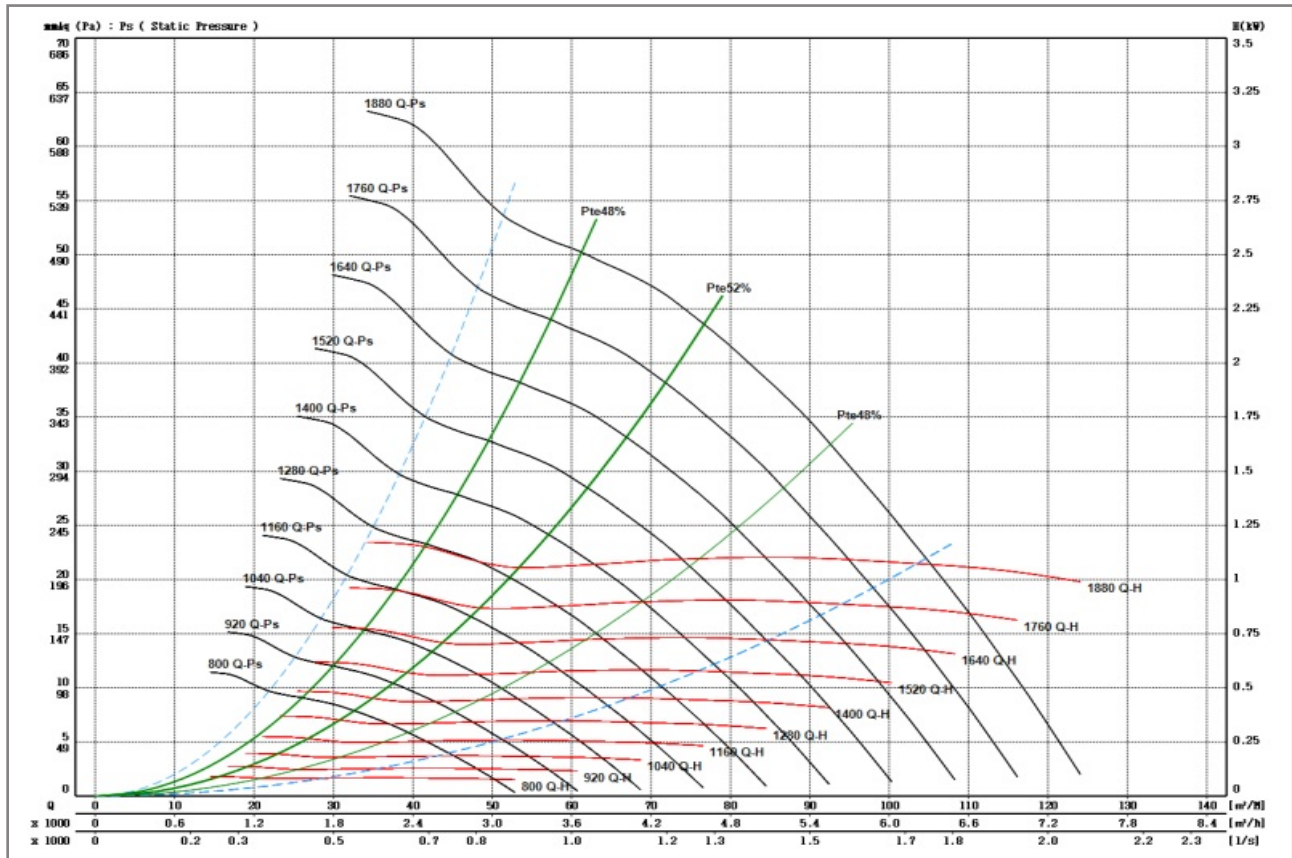


GMF-400

FEG 56

Blade Angle : 32°

Wheel dia	435 mm	Tip Speed = 0.022777 * rpm	Outlet Dim'	550	Outlet Area	0.2376 m ²	Class 1	2634 rpm	Class 2	3512 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	3 mmAq (29 Pa)				6 mmAq (59 Pa)				9 mmAq (88 Pa)				12 mmAq (118 Pa)				15 mmAq (147 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
30	2.10									818	0.09	50.9	63	920	0.13	48.3	67	1010	0.16	45.3	69
35	2.46									858	0.10	51.6	65	949	0.14	51.0	67	1034	0.18	48.8	69
40	2.81					812	0.09	47.6	65	899	0.12	51.0	67	982	0.16	51.6	68	1061	0.20	51.0	70
45	3.16	800	0.08	38.5	66	866	0.11	45.4	67	944	0.14	49.8	69	1032	0.18	51.1	70	1103	0.22	51.6	71
50	3.51	842	0.09	32.3	68	927	0.13	42.5	69	1003	0.17	47.6	70	1077	0.21	50.0	71	1146	0.25	51.3	72
55	3.86	904	0.12	30.2	70	988	0.16	39.3	71	1061	0.20	45.4	72	1124	0.23	48.7	73	1192	0.28	50.3	74
60	4.21	980	0.15	26.9	72	1045	0.18	37.7	72	1121	0.23	42.9	73	1189	0.28	46.5	74	1246	0.32	49.1	75
65	4.56	1039	0.17	25.8	73	1107	0.22	35.2	74	1178	0.26	40.9	75	1239	0.31	45.0	76	1295	0.36	47.6	76
70	4.91	1119	0.22	23.3	75	1184	0.26	32.3	76	1244	0.31	38.5	76	1304	0.36	42.9	77	1360	0.41	45.7	78
75	5.26	1189	0.26	21.9	77	1242	0.30	30.2	77	1306	0.36	36.5	78	1360	0.41	40.9	78	1414	0.46	44.0	79
80	5.61	1253	0.30	20.6	78	1315	0.36	28.6	78	1365	0.41	35.2	79	1425	0.46	38.5	79	1470	0.52	42.5	80
85	5.96	1322	0.35	19.9	79	1385	0.41	26.9	80	1436	0.47	32.8	80	1481	0.52	37.3	81	1533	0.58	40.5	81

Air flow (m³/min)	Outlet Vel (m/sec)	18 mmAq (177 Pa)				21 mmAq (206 Pa)				24 mmAq (235 Pa)				27 mmAq (265 Pa)				30 mmAq (294 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
30	2.10	1092	0.21	43.4	71																
35	2.46	1117	0.22	46.9	71	1195	0.27	45.3	73	1261	0.32	43.4	75								
40	2.81	1140	0.24	49.6	72	1218	0.29	48.3	73	1290	0.34	46.9	75	1355	0.40	45.3	77	1417	0.45	44.2	78
45	3.16	1174	0.27	51.4	72	1243	0.31	50.4	74	1314	0.37	49.3	75	1381	0.42	48.3	77	1443	0.48	46.9	78
50	3.51	1217	0.30	51.6	73	1278	0.34	51.5	74	1343	0.40	51.0	76	1406	0.45	50.2	77	1469	0.51	49.3	78
55	3.86	1261	0.33	51.1	75	1317	0.38	51.6	75	1383	0.44	51.6	76	1438	0.49	51.4	77	1497	0.55	50.9	78
60	4.21	1301	0.37	50.4	76	1365	0.42	51.1	77	1421	0.48	51.5	77	1473	0.53	51.6	78	1528	0.59	51.5	79
65	4.56	1358	0.41	49.1	77	1410	0.47	50.3	78	1468	0.53	51.0	79	1523	0.59	51.4	79	1574	0.65	51.6	80
70	4.91	1415	0.47	47.6	78	1463	0.52	49.2	79	1512	0.57	50.3	80	1566	0.64	50.8	80	1614	0.70	51.3	81
75	5.26	1464	0.52	46.2	79	1522	0.58	47.9	80	1567	0.64	49.2	81	1615	0.70	50.0	81	1665	0.77	50.7	82
80	5.61	1524	0.58	44.4	81	1574	0.64	46.5	81	1624	0.71	47.9	82	1669	0.77	49.1	82	1712	0.83	50.0	83
85	5.96	1587	0.65	42.9	82	1627	0.70	45.4	82	1681	0.78	46.5	83	1725	0.85	47.9	83	1762	0.91	49.1	84

- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
 - Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

GMF-C series

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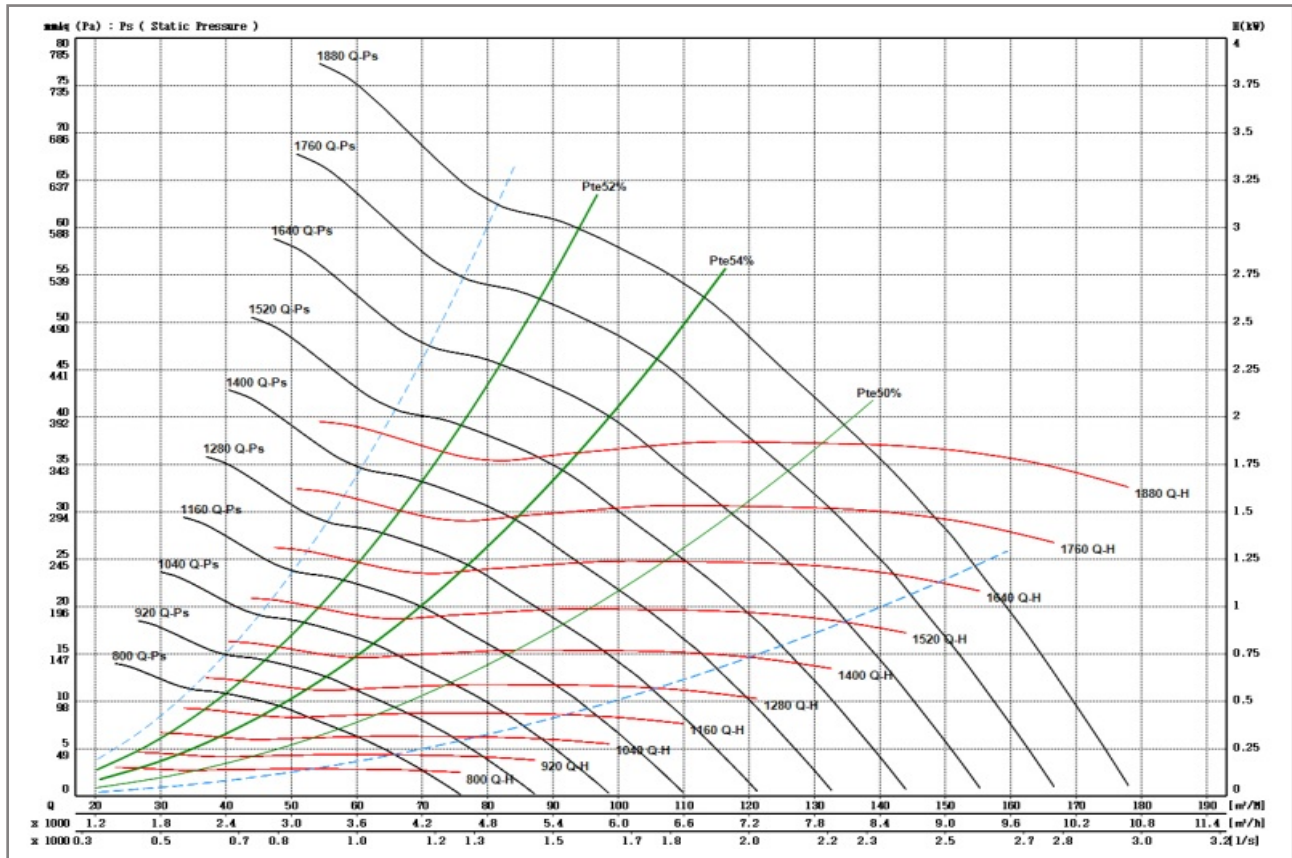


GMF-450

FEG 56

Blade Angle : 32°

Wheel dia	485 mm	Tip Speed = 0.025395 * rpm	Outlet Dim'	630	Outlet Area	0.3117 m ²	Class 1	2363 rpm	Class 2	3150 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	4 mmAq (39 Pa)				8 mmAq (78 Pa)				12 mmAq (118 Pa)				16 mmAq (157 Pa)				20 mmAq (196 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
40	2.14									835	0.16	51.2	67	923	0.21	48.2	69				
47.5	2.54									863	0.18	53.6	69	969	0.25	51.8	71	1069	0.33	48.8	73
55	2.94					809	0.15	51.8	69	905	0.21	54.3	71	999	0.28	53.9	72	1090	0.35	52.4	74
62.5	3.34					861	0.18	49.6	71	954	0.24	53.0	73	1039	0.32	54.3	74	1122	0.39	54.0	75
70	3.74	830	0.15	35.7	72	917	0.21	47.1	73	1005	0.28	51.4	74	1088	0.36	53.3	75	1163	0.44	54.3	76
77.5	4.14	897	0.19	33.9	74	984	0.26	43.9	75	1062	0.34	49.3	76	1143	0.42	51.8	77	1212	0.50	53.4	78
85	4.54	966	0.24	30.9	76	1045	0.31	41.3	77	1123	0.39	47.1	77	1192	0.47	50.4	78	1263	0.57	52.2	79
92.5	4.95	1045	0.3	28.1	78	1117	0.38	38.3	78	1180	0.45	44.9	79	1253	0.55	48.5	80	1317	0.64	51.0	81
100	5.35	1113	0.36	26.4	79	1185	0.45	36.1	80	1243	0.53	42.8	81	1308	0.62	46.7	81	1372	0.72	49.3	82
107.5	5.75	1188	0.43	24.5	81	1248	0.52	33.9	81	1309	0.61	40.2	82	1368	0.71	44.6	82	1431	0.82	47.6	83
115	6.15	1268	0.52	23.2	83	1321	0.61	32.0	83	1376	0.71	38.3	83	1430	0.81	42.8	84	1492	0.92	45.8	84
0	0.00																				

Air flow (m³/min)	Outlet Vel (m/sec)	24 mmAq (235 Pa)				28 mmAq (275 Pa)				32 mmAq (314 Pa)				36 mmAq (353 Pa)				40 mmAq (392 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
40	2.14																				
47.5	2.54																				
55	2.94	1177	0.44	50.4	75	1261	0.53	48.2	77												
62.5	3.34	1202	0.48	52.9	76	1279	0.57	51.6	78	1357	0.67	49.8	79	1430	0.78	48.2	80				
70	3.74	1234	0.52	54.1	77	1311	0.62	53.4	78	1379	0.72	52.4	79	1447	0.82	51.2	81	1517	0.94	49.8	82
77.5	4.14	1277	0.59	54.3	79	1343	0.68	54.2	79	1409	0.78	53.6	80	1476	0.89	53.0	81	1539	1.00	52.2	82
85	4.54	1329	0.66	53.4	80	1383	0.74	54.3	81	1450	0.86	54.3	81	1509	0.96	54.0	82	1571	1.07	53.5	83
92.5	4.95	1377	0.73	52.4	81	1439	0.84	53.3	82	1490	0.93	54.1	83	1548	1.04	54.3	83	1605	1.16	54.2	84
100	5.35	1435	0.83	51.1	83	1489	0.93	52.4	83	1548	1.04	53.2	84	1595	1.14	54.0	84	1646	1.25	54.3	85
107.5	5.75	1490	0.93	49.6	84	1543	1.03	51.3	84	1598	1.15	52.2	85	1648	1.26	53.0	85	1697	1.38	53.7	86
115	6.15	1542	1.02	48.2	85	1600	1.15	49.9	85	1650	1.26	51.3	86	1700	1.38	52.1	86	1748	1.50	52.9	87
0	0.00																				

- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
 - Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

GMF-C series

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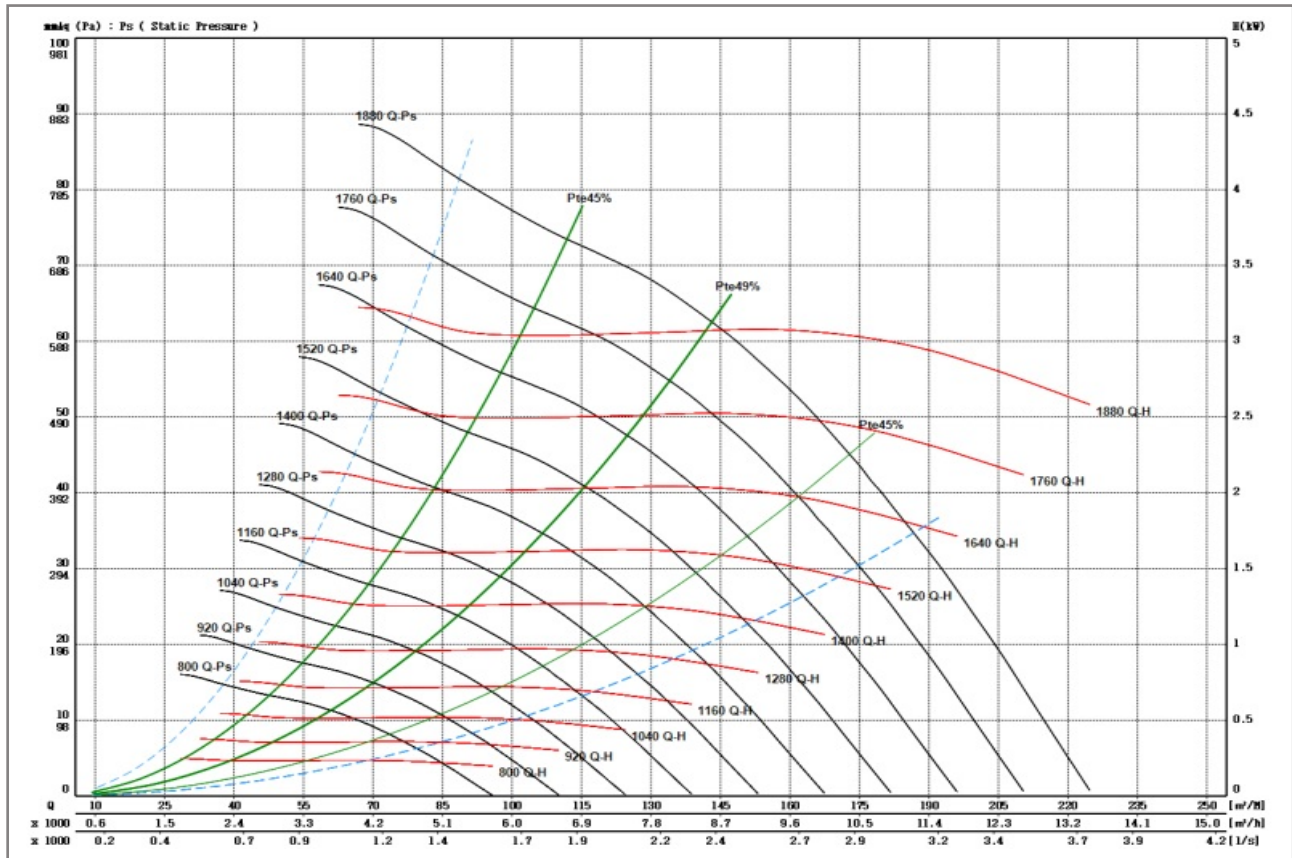


GMF-500

FEG 50

Blade Angle : 32°

Wheel dia	543 mm	Tip Speed = 0.028431 * rpm	Outlet Dim'	700	Outlet Area	0.3848 m ²	Class 1	2110 rpm	Class 2	2814 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	5 mmAq (49 Pa)				10 mmAq (98 Pa)				15 mmAq (147 Pa)				20 mmAq (196 Pa)				25 mmAq (245 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
40	1.73									813	0.25	39.7	72								
50	2.17									847	0.28	44.8	74	952	0.40	41.7	76	1045	0.53	39.4	79
60	2.60									879	0.31	48.5	75	985	0.44	45.6	77	1081	0.58	43.4	80
70	3.03					814	0.25	48.0	73	920	0.36	49.4	76	1019	0.49	48.7	78	1110	0.63	46.5	81
80	3.46					876	0.31	45.4	75	971	0.42	48.6	78	1058	0.55	49.4	80	1143	0.69	48.8	82
90	3.90	848	0.26	33.4	75	941	0.38	42.5	77	1027	0.50	47.1	79	1106	0.63	48.9	81	1185	0.77	49.4	83
100	4.33	923	0.33	29.5	77	1007	0.46	40.2	79	1088	0.59	44.9	81	1159	0.72	47.8	83	1232	0.87	49.0	84
110	4.76	1002	0.42	27.7	80	1075	0.55	37.2	81	1150	0.69	42.9	83	1218	0.83	46.1	84	1287	0.99	48.0	85
120	5.20	1075	0.52	25.6	82	1145	0.65	34.9	83	1217	0.81	40.4	84	1285	0.97	44.2	85	1344	1.12	46.6	86
130	5.63	1152	0.63	23.4	84	1225	0.79	32.3	85	1284	0.94	38.5	86	1345	1.10	42.3	87	1408	1.28	44.9	87
140	6.06	1236	0.77	21.9	85	1294	0.92	30.1	86	1357	1.10	36.4	87	1413	1.26	40.2	88	1471	1.44	43.1	89
150	6.50	1314	0.92	20.4	87	1370	1.09	28.6	87	1430	1.27	33.9	88	1482	1.44	38.5	89	1538	1.64	41.3	90

Air flow (m³/min)	Outlet Vel (m/sec)	30 mmAq (294 Pa)				35 mmAq (343 Pa)				40 mmAq (392 Pa)				45 mmAq (441 Pa)				50 mmAq (490 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
40	1.73																				
50	2.17																				
60	2.60	1164	0.72	41.5	82	1239	0.87	39.7	83												
70	3.03	1196	0.78	44.5	83	1274	0.95	42.9	84	1347	1.12	41.7	85	1413	1.30	40.4	86	1475	1.48	39.1	87
80	3.46	1227	0.85	47.5	83	1307	1.02	46.0	85	1379	1.20	44.3	86	1446	1.38	43.0	87	1509	1.57	42.0	88
90	3.90	1262	0.93	49.1	84	1335	1.09	48.1	85	1408	1.28	46.8	86	1478	1.48	45.6	87	1544	1.69	44.5	88
100	4.33	1308	1.03	49.4	85	1374	1.20	49.2	86	1441	1.38	48.7	87	1509	1.58	47.9	88	1574	1.79	46.8	89
110	4.76	1353	1.15	48.9	86	1419	1.32	49.4	87	1482	1.50	49.4	88	1545	1.70	49.1	89	1605	1.90	48.5	89
120	5.20	1410	1.30	48.0	87	1471	1.48	48.8	88	1528	1.65	49.3	88	1587	1.85	49.4	89	1644	2.05	49.2	90
130	5.63	1465	1.45	46.8	88	1523	1.63	48.0	89	1578	1.82	48.8	89	1634	2.02	49.2	90	1688	2.23	49.4	91
140	6.06	1526	1.63	45.2	89	1583	1.83	46.8	90	1634	2.02	47.9	90	1686	2.22	48.6	91	1739	2.44	49.1	92
150	6.50	1589	1.82	43.7	90	1643	2.03	45.4	91	1692	2.23	46.8	92	1739	2.43	47.8	92	1790	2.66	48.4	93

- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
 - Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

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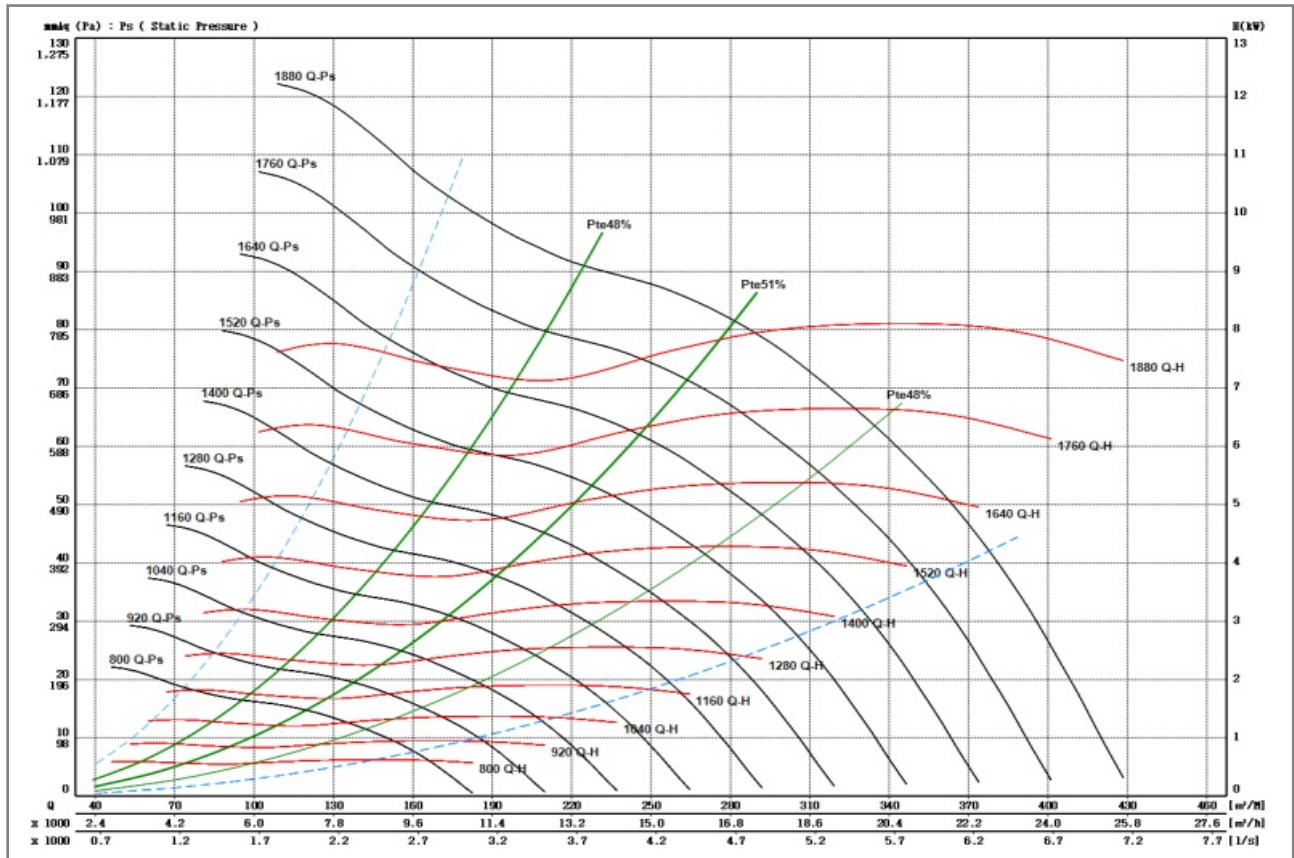


GMF-560

FEG 53

Blade Angle : 32°

Wheel dia	611 mm	Tip Speed = 0.031992 * rpm	Outlet Dim'	800	Outlet Area	0.5027 m ²	Class 1	1875 rpm	Class 2	2501 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	7 mmAq (69 Pa)				14 mmAq (137 Pa)				21 mmAq (206 Pa)				28 mmAq (275 Pa)				35 mmAq (343 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
95	3.15									884	0.74	45.5	75	990	1.06	41.7	79				
110	3.65									906	0.81	48.4	77	1020	1.14	45.5	79	1116	1.51	42.7	82
125	4.14					800	0.61	50.6	75	923	0.90	50.1	77	1043	1.24	48.1	80	1143	1.60	45.9	83
140	4.64					834	0.70	49.7	77	948	1.00	50.7	79	1060	1.35	49.8	81	1167	1.73	48.1	83
155	5.14					876	0.82	48.3	78	980	1.13	50.5	80	1083	1.49	50.6	82	1183	1.87	49.6	84
170	5.64	827	0.68	36.7	80	923	0.96	46.4	80	1019	1.28	49.7	82	1113	1.65	50.7	83	1204	2.03	50.5	85
185	6.13	883	0.82	34.3	82	970	1.11	44.6	82	1059	1.45	48.7	83	1148	1.83	50.3	84	1234	2.23	50.7	86
200	6.63	944	1.00	31.9	83	1022	1.30	42.3	84	1104	1.64	47.3	84	1187	2.03	49.5	85	1265	2.44	50.5	87
215	7.13	1002	1.19	30.1	85	1073	1.50	40.4	85	1150	1.86	45.7	86	1227	2.25	48.6	87	1304	2.69	49.9	88
230	7.63	1064	1.41	28.2	86	1130	1.74	38.8	86	1199	2.10	44.1	87	1271	2.51	47.4	88	1343	2.95	49.2	89
245	8.12	1127	1.67	26.6	87	1185	2.00	36.3	88	1251	2.38	42.3	88	1319	2.80	46.0	89	1386	3.25	48.3	90
260	8.62	1187	1.94	25.7	89	1242	2.29	34.7	89	1303	2.68	40.7	89	1367	3.11	44.6	90	1430	3.57	47.1	91

Air flow (m³/min)	Outlet Vel (m/sec)	42 mmAq (412 Pa)				49 mmAq (481 Pa)				56 mmAq (549 Pa)				63 mmAq (618 Pa)				70 mmAq (686 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
95	3.15																				
110	3.65	1194	1.88	40.6	84																
125	4.14	1232	2.02	43.6	85	1308	2.46	41.5	86												
140	4.64	1259	2.14	46.4	85	1340	2.59	44.5	87	1412	3.07	42.7	88	1481	3.57	41.3	90				
155	5.14	1280	2.29	48.3	86	1366	2.74	46.9	87	1441	3.22	45.4	88	1511	3.73	43.8	90	1576	4.27	42.5	91
170	5.64	1296	2.45	49.6	86	1385	2.91	48.5	87	1467	3.4	47.4	89	1539	3.91	46.2	90	1606	4.46	44.9	91
185	6.13	1318	2.65	50.5	87	1402	3.12	49.8	88	1485	3.62	48.9	89	1561	4.12	47.8	90	1631	4.66	46.8	92
200	6.63	1345	2.88	50.7	88	1423	3.34	50.5	89	1502	3.85	49.9	90	1578	4.37	49.1	91	1652	4.92	48.3	92
215	7.13	1377	3.14	50.6	88	1451	3.61	50.7	89	1524	4.11	50.5	90	1597	4.65	50.0	91	1669	5.21	49.4	92
230	7.63	1414	3.42	50.2	89	1482	3.90	50.6	90	1552	4.42	50.7	91	1620	4.96	50.6	92	1688	5.52	50.2	93
245	8.12	1454	3.73	49.5	90	1519	4.24	50.3	91	1583	4.75	50.7	92	1647	5.29	50.7	93	1711	5.86	50.6	93
260	8.62	1494	4.06	48.8	91	1556	4.58	49.7	92	1618	5.12	50.3	93	1680	5.68	50.6	93	1739	6.24	50.7	94

- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
 - Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

2015Jan-R10.0

GMF-C series

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GMF-630

FEG 56

Blade Angle : 32°

Wheel dia 677 mm

Tip Speed = 0.035448 * rpm

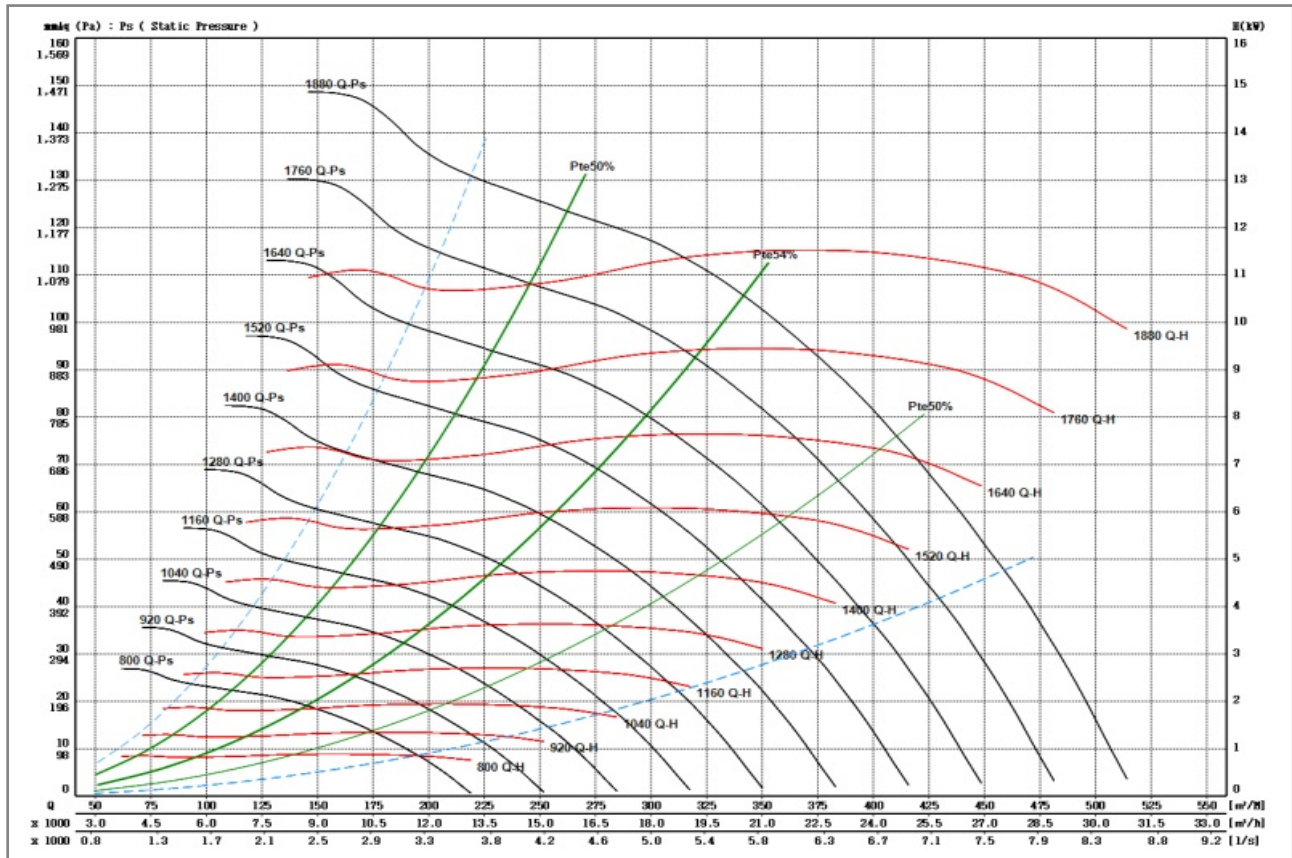
Outlet Dim' 850

Outlet Area 0.5675 m²

Class 1 1693 rpm

Class 2 2257 rpm

Not Applicable



Air flow (m³/min)	Outlet Vel (m/sec)	10 mmAq (98 Pa)				20 mmAq (196 Pa)				30 mmAq (294 Pa)				40 mmAq (392 Pa)				50 mmAq (490 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
140	4.11					802	0.89	54.4	77	938	1.37	51.7	80	1060	1.94	48.5	83	1167	2.56	45.6	86
160	4.70					842	1.03	54.2	79	963	1.52	53.8	81	1081	2.10	51.6	84	1188	2.74	49.1	86
180	5.29					886	1.21	53.1	81	998	1.72	54.5	83	1105	2.30	53.6	85	1210	2.95	51.7	87
200	5.87	829	0.96	41.7	82	937	1.42	51.2	83	1039	1.94	54.1	84	1137	2.53	54.4	86	1233	3.19	53.5	88
220	6.46	891	1.17	39.0	84	989	1.66	49.0	85	1085	2.22	53.1	86	1176	2.82	54.4	87	1264	3.48	54.3	89
240	7.05	956	1.43	36.0	86	1046	1.95	46.5	87	1133	2.52	51.6	87	1221	3.16	53.7	89	1302	3.82	54.4	90
260	7.64	1021	1.73	33.8	88	1104	2.28	44.3	88	1187	2.88	49.8	89	1267	3.52	52.7	90	1345	4.22	54.0	91
280	8.22	1089	2.07	31.6	90	1166	2.66	41.9	90	1243	3.28	48.0	91	1317	3.95	51.3	91	1392	4.67	53.2	92
300	8.81	1155	2.46	30.1	91	1226	3.07	39.9	92	1299	3.72	46.0	92	1369	4.42	49.8	92	1438	5.15	52.2	93
320	9.40	1223	2.89	28.5	93	1289	3.54	37.9	93	1358	4.23	44.1	93	1426	4.96	48.2	94	1489	5.70	51.0	94
340	9.99	1293	3.39	26.8	94	1354	4.07	36.0	94	1418	4.79	42.3	94	1482	5.54	46.5	95	1544	6.33	49.6	95
360	10.57	1363	3.95	25.6	95	1418	4.64	34.4	95	1480	5.40	40.5	96	1540	6.18	44.9	96	1599	7.00	48.0	96

Air flow (m³/min)	Outlet Vel (m/sec)	60 mmAq (588 Pa)				70 mmAq (686 Pa)				80 mmAq (785 Pa)				90 mmAq (883 Pa)				100 mmAq (981 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
140	4.11																				
160	4.70	1286	3.43	46.8	88	1374	4.17	44.8	90												
180	5.29	1307	3.66	49.7	89	1396	4.41	47.8	90	1479	5.22	46.1	92								
200	5.87	1328	3.92	52.0	89	1418	4.69	50.3	91	1501	5.51	48.7	92	1578	6.37	47.2	93	1653	7.28	46.0	94
220	6.46	1352	4.21	53.5	90	1438	4.99	52.2	91	1523	5.84	50.9	92	1600	6.71	49.6	93	1674	7.63	48.3	94
240	7.05	1385	4.56	54.3	91	1464	5.35	53.6	92	1543	6.18	52.6	93	1622	7.10	51.6	94	1696	8.03	50.4	95
260	7.64	1422	4.97	54.5	92	1496	5.76	54.3	92	1571	6.62	53.8	93	1643	7.50	53.0	94	1716	8.45	52.0	95
280	8.22	1464	5.44	54.1	92	1534	6.24	54.5	93	1603	7.09	54.4	94	1672	7.99	53.9	95	1740	8.95	53.3	96
300	8.81	1509	5.95	53.5	94	1576	6.78	54.2	94	1641	7.64	54.5	95	1706	8.55	54.4	96	1770	9.52	54.0	96
320	9.40	1554	6.51	52.7	95	1620	7.38	53.6	95	1682	8.25	54.2	96	1743	9.17	54.4	96	1805	10.2	54.4	97
340	9.99	1604	7.14	51.6	96	1666	8.01	52.9	96	1727	8.94	53.7	97	1785	9.87	54.2	97	1844	10.9	54.4	98
360	10.57	1657	7.84	50.3	97	1715	8.73	52.0	97	1772	9.66	53.1	98	1830	10.6	53.7	98				

- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

GMF-C series

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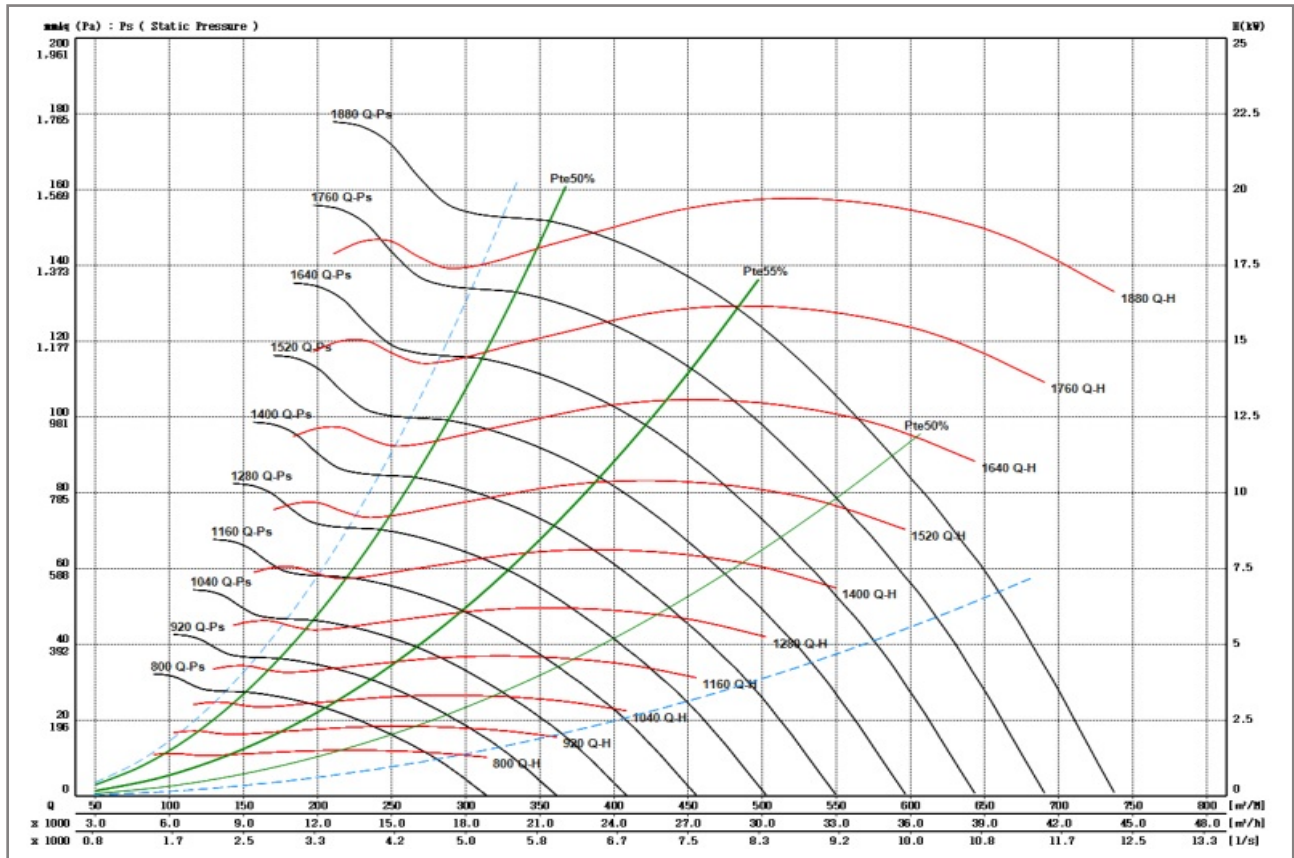


GMF-710

FEG 56

Blade Angle : 32°

Wheel dia	762 mm	Tip Speed = 0.039898 * rpm	Outlet Dim'	950	Outlet Area	0.7088 m ²	Class 1	1504 rpm	Class 2	2005 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	10 mmAq (98 Pa)				20 mmAq (196 Pa)				30 mmAq (294 Pa)				40 mmAq (392 Pa)				50 mmAq (490 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
175	4.11									846	1.69	52.3	82	963	2.41	48.6	85				
200	4.70									868	1.89	54.1	84	975	2.59	52.1	86	1077	3.40	49.2	88
225	5.29					800	1.52	54.0	83	898	2.13	54.9	85	996	2.84	53.9	87	1091	3.64	52.3	89
250	5.88					837	1.73	52.2	84	932	2.40	54.7	86	1023	3.14	54.7	88	1112	3.95	53.8	90
275	6.47					883	2.01	50.2	86	972	2.72	53.8	88	1056	3.48	54.9	89	1139	4.31	54.6	91
300	7.05	845	1.67	38.1	86	931	2.34	48.2	88	1015	3.09	52.4	89	1093	3.87	54.4	91	1170	4.72	54.9	92
325	7.64	903	2.01	35.6	88	981	2.71	46.0	89	1059	3.49	51.0	90	1135	4.33	53.5	92	1207	5.20	54.6	93
350	8.23	960	2.4	33.5	89	1035	3.15	43.9	91	1107	3.96	49.4	92	1178	4.83	52.3	93	1246	5.74	54.0	94
375	8.82	1020	2.86	31.8	91	1085	3.60	42.0	92	1155	4.46	47.7	93	1223	5.38	51.0	94	1288	6.33	53.0	95
400	9.41	1080	3.36	29.9	92	1140	4.14	40.0	93	1206	5.04	45.8	94	1271	5.99	49.6	95	1332	6.97	51.9	96
425	9.99	1139	3.92	28.2	94	1198	4.76	38.1	94	1257	5.66	44.2	95	1318	6.65	48.2	96	1378	7.68	50.7	97
450	10.58	1201	4.57	27.1	95	1253	5.42	36.5	96	1311	6.37	42.5	96	1368	7.38	46.7	97	1426	8.47	49.4	98

Air flow (m³/min)	Outlet Vel (m/sec)	60 mmAq (588 Pa)				70 mmAq (686 Pa)				80 mmAq (785 Pa)				90 mmAq (883 Pa)				100 mmAq (981 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
175	4.11																				
200	4.70																				
225	5.29	1182	4.53	50.1	90	1273	5.53	47.6	92												
250	5.88	1198	4.83	52.6	91	1281	5.79	50.8	92	1362	6.85	48.8	94	1443	8.00	46.9	95				
275	6.47	1220	5.21	53.8	92	1298	6.16	52.8	93	1373	7.19	51.5	94	1448	8.31	50.1	95	1522	9.52	48.3	97
300	7.05	1246	5.65	54.6	93	1321	6.63	54.0	94	1392	7.65	53.1	95	1462	8.74	52.1	96	1531	9.91	50.9	97
325	7.64	1277	6.14	54.9	94	1348	7.15	54.6	95	1416	8.20	54.1	96	1483	9.28	53.4	96	1548	10.4	52.6	97
350	8.23	1312	6.69	54.7	95	1379	7.73	54.9	96	1443	8.80	54.7	96	1508	9.93	54.2	97	1570	11.1	53.7	98
375	8.82	1351	7.32	54.2	96	1413	8.36	54.8	96	1474	9.44	54.9	97	1535	10.6	54.7	98	1595	11.8	54.4	98
400	9.41	1392	7.99	53.4	96	1451	9.07	54.3	97	1509	10.2	54.8	98	1567	11.4	54.9	98	1624	12.6	54.8	99
425	9.99	1436	8.75	52.4	97	1492	9.85	53.7	98	1548	11.0	54.4	99	1602	12.2	54.8	99	1656	13.4	54.9	100
450	10.58	1480	9.54	51.4	98	1535	10.7	52.8	99	1588	11.9	53.8	99	1639	13.1	54.4	100	1691	14.3	54.7	100

- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
 - Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

GMF-C series

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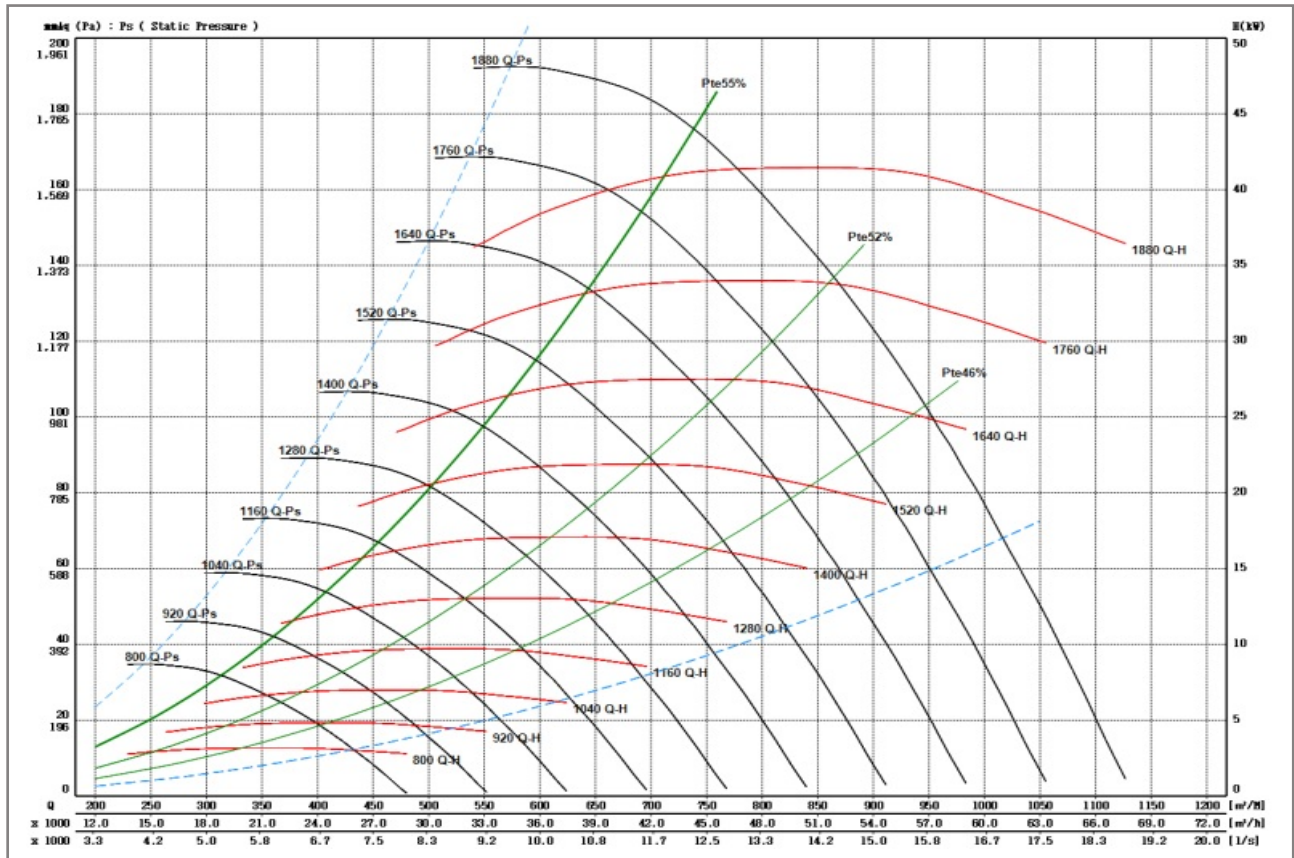


GMF-800

FEG 56

Blade Angle : 32°

Wheel dia	870 mm	Tip Speed = 0.045553 * rpm	Outlet Dim'	1070	Outlet Area	0.8992 m ²	Class 1	1317 rpm	Class 2	1756 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	10 mmAq (98 Pa)				20 mmAq (196 Pa)				30 mmAq (294 Pa)				40 mmAq (392 Pa)				50 mmAq (490 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
310	5.75													869	3.96	53.7	88	959	5.13	51.3	90
350	6.49									820	3.44	54.2	87	895	4.43	54.9	89	973	5.58	53.9	90
390	7.23					800	3.17	48.5	87	864	4.02	52.6	89	933	5.05	54.5	90	999	6.17	54.9	91
430	7.97					846	3.72	45.1	89	911	4.70	50.5	90	975	5.77	53.3	92	1037	6.93	54.6	93
470	8.71	841	3.46	32.5	91	902	4.44	42.5	91	962	5.52	48.2	92	1020	6.62	51.7	93	1079	7.82	53.6	94
510	9.45	903	4.24	30.4	93	959	5.28	40.2	93	1014	6.42	46.0	94	1069	7.60	49.9	94	1123	8.82	52.3	95
550	10.19	964	5.14	28.6	94	1018	6.25	38.0	95	1068	7.43	43.9	95	1119	8.68	48.0	96	1170	9.97	50.7	97
590	10.94	1027	6.17	27.1	96	1077	7.35	35.8	96	1125	8.60	41.8	97	1173	9.93	46.0	97	1219	11.3	49.0	98
630	11.68	1091	7.36	25.7	97	1136	8.56	34.0	98	1182	9.88	40.0	98	1227	11.3	44.2	98	1271	12.7	47.3	99
670	12.42	1155	8.70	24.5	99	1197	9.96	32.3	99	1241	11.3	38.1	99	1284	12.8	42.3	100	1324	14.3	45.6	100
710	13.16	1218	10.2	23.6	100	1259	11.5	30.8	100	1300	13.0	36.4	100	1340	14.4	40.7	101	1379	16.0	43.9	101
750	13.90	1283	11.8	22.5	101	1321	13.2	29.4	101	1360	14.7	34.8	102	1399	16.3	39.0	102	1436	17.9	42.3	102

Air flow (m³/min)	Outlet Vel (m/sec)	60 mmAq (588 Pa)				70 mmAq (686 Pa)				80 mmAq (785 Pa)				90 mmAq (883 Pa)				100 mmAq (981 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
310	5.75																				
350	6.49	1054	6.87	51.9	92	1133	8.26	50.2	94												
390	7.23	1069	7.42	54.1	93	1142	8.85	52.7	94	1213	10.4	51.2	96	1280	11.8	49.8	97				
430	7.97	1097	8.17	54.9	94	1160	9.54	54.4	95	1225	11.0	53.3	96	1291	12.7	52.0	97	1355	14.3	50.8	98
470	8.71	1134	9.08	54.6	95	1190	10.4	54.9	96	1246	11.9	54.6	97	1305	13.5	53.9	97	1366	15.2	52.8	98
510	9.45	1176	10.1	53.7	96	1228	11.5	54.6	97	1279	13.0	54.9	97	1330	14.5	54.7	98	1383	16.2	54.3	99
550	10.19	1220	11.3	52.7	97	1270	12.8	53.8	98	1317	14.2	54.5	98	1364	15.8	54.8	99	1412	17.4	54.8	100
590	10.94	1266	12.6	51.3	98	1313	14.1	52.8	99	1359	15.6	53.7	99	1403	17.2	54.4	100	1448	18.9	54.8	100
630	11.68	1315	14.2	49.7	99	1359	15.6	51.5	100	1402	17.2	52.8	100	1446	18.8	53.7	101	1488	20.5	54.3	101
670	12.42	1365	15.8	48.1	100	1407	17.4	50.1	101	1448	18.9	51.6	101	1489	20.6	52.8	102	1531	22.4	53.5	102
710	13.16	1418	17.6	46.5	101	1457	19.2	48.6	102	1497	20.9	50.3	102	1536	22.6	51.6	103	1574	24.3	52.7	103
750	13.90	1473	19.6	44.9	103	1509	21.3	47.1	103	1547	23.0	48.9	103	1584	24.8	50.4	104	1620	26.5	51.6	104

- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
 - Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

GMF-C series

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GMF-315C

Blade Angle : 22 °

WHEEL DIA 339 mm outlet Area 0.099 m²

Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	920	0.00	7.46	0.03	0.00
2	920	4.73	6.42	0.04	13.42
3	920	11.15	5.20	0.04	23.83
4	920	13.00	3.91	0.04	22.47
5	920	15.21	2.38	0.03	17.26
1	1120	0.00	11.06	0.06	0.00
2	1120	5.76	9.52	0.07	13.42
3	1120	13.58	7.70	0.07	23.83
4	1120	15.83	5.80	0.07	22.47
5	1120	18.52	3.53	0.06	17.26
1	1420	0.00	17.78	0.13	0.00
2	1420	7.31	15.30	0.14	13.42
3	1420	17.21	12.38	0.15	23.83
4	1420	20.07	9.32	0.14	22.47
5	1420	23.48	5.67	0.13	17.26
1	1720	0.00	26.09	0.22	0.00
2	1720	8.85	22.44	0.24	13.42
3	1720	20.85	18.17	0.26	23.83
4	1720	24.31	13.68	0.24	22.47
5	1720	28.44	8.32	0.22	17.26

Blade Angle : 27 °

WHEEL DIA 339 mm outlet Area 0.099 m²

Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	920	0.00	7.55	0.04	0.00
2	920	5.94	7.05	0.04	16.85
3	920	11.98	5.55	0.04	25.87
4	920	16.18	4.06	0.04	25.55
5	920	18.03	3.05	0.04	21.37
1	1120	0.00	11.20	0.08	0.00
2	1120	7.23	10.45	0.07	16.85
3	1120	14.59	8.23	0.08	25.87
4	1120	19.70	6.01	0.08	25.55
5	1120	21.95	4.51	0.08	21.37
1	1420	0.00	18.00	0.15	0.00
2	1420	9.16	16.80	0.15	16.85
3	1420	18.49	13.22	0.15	25.87
4	1420	24.98	9.67	0.15	25.55
5	1420	27.82	7.26	0.15	21.37
1	1720	0.00	26.41	0.27	0.00
2	1720	11.10	24.65	0.27	16.85
3	1720	22.40	19.40	0.27	25.87
4	1720	30.25	14.18	0.27	25.55
5	1720	33.70	10.65	0.27	21.37

Blade Angle : 37 °

WHEEL DIA 339 mm outlet Area 0.099 m²

Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	920	0.00	9.47	0.05	0.00
2	920	7.11	8.71	0.04	22.64
3	920	11.57	7.72	0.05	31.66
4	920	17.11	6.26	0.04	39.20
5	920	21.67	5.10	0.05	39.21
1	1120	0.00	14.03	0.09	0.00
2	1120	8.65	12.91	0.08	22.64
3	1120	14.08	11.44	0.08	31.66
4	1120	20.83	9.28	0.08	39.20
5	1120	26.38	7.56	0.08	39.21
1	1420	0.00	22.55	0.17	0.00
2	1420	10.97	20.75	0.16	22.64
3	1420	17.86	18.38	0.17	31.66
4	1420	26.41	14.92	0.16	39.20
5	1420	33.45	12.15	0.17	39.21
1	1720	0.00	33.09	0.31	0.00
2	1720	13.29	30.44	0.29	22.64
3	1720	21.63	26.97	0.30	31.66
4	1720	31.99	21.89	0.29	39.20
5	1720	40.52	17.83	0.30	39.21

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GMF-C series

DUCT IN LINE FAN

www.gsfan.co.kr

GMF-350C

Blade Angle : 17 °

WHEEL DIA	387 mm	outlet Area	0,123 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	920	0,00	9,58	0,05	0,00
2	920	4,85	9,61	0,05	15,56
3	920	9,70	9,18	0,05	30,48
4	920	14,56	7,04	0,05	35,04
5	920	20,00	2,95	0,05	20,20
1	1120	0,00	14,20	0,09	0,00
2	1120	5,91	14,24	0,09	15,56
3	1120	11,81	13,61	0,09	30,48
4	1120	17,72	10,43	0,09	35,04
5	1120	24,35	4,37	0,09	20,20
1	1430	0,00	23,15	0,18	0,00
2	1430	7,54	23,22	0,18	15,56
3	1430	15,08	22,18	0,18	30,48
4	1430	22,62	17,00	0,18	35,04
5	1430	31,09	7,13	0,18	20,20
1	1730	0,00	33,89	0,32	0,00
2	1730	9,13	33,98	0,33	15,56
3	1730	18,24	32,46	0,32	30,48
4	1730	27,37	24,88	0,32	35,04
5	1730	37,62	10,43	0,32	20,20

Blade Angle : 22 °

WHEEL DIA	387 mm	outlet Area	0,123 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	920	0,00	11,10	0,05	0,00
2	920	6,51	9,88	0,05	19,96
3	920	11,89	8,98	0,05	36,51
4	920	18,16	8,68	0,05	53,90
5	920	23,77	3,88	0,05	31,59
1	1120	0,00	16,45	0,09	0,00
2	1120	7,92	14,64	0,09	19,96
3	1120	14,47	13,31	0,09	36,51
4	1120	22,10	12,86	0,09	53,90
5	1120	28,94	5,76	0,09	31,59
1	1430	0,00	26,81	0,18	0,00
2	1430	10,12	23,87	0,20	19,96
3	1430	18,47	21,69	0,18	36,51
4	1430	28,22	20,96	0,18	53,90
5	1430	36,95	9,38	0,18	31,59
1	1730	0,00	39,24	0,32	0,00
2	1730	12,24	34,94	0,35	19,96
3	1730	22,35	31,75	0,32	36,51
4	1730	34,14	30,68	0,32	53,90
5	1730	44,70	13,73	0,32	31,59

Blade Angle : 27 °

WHEEL DIA	387 mm	outlet Area	0,123 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	920	0,00	12,15	0,06	0,00
2	920	7,77	11,70	0,06	26,82
3	920	16,00	10,88	0,05	55,20
4	920	24,07	7,34	0,05	56,08
5	920	29,48	5,59	0,06	48,59
1	1120	0,00	18,01	0,10	0,00
2	1120	9,46	17,34	0,10	26,82
3	1120	19,48	16,12	0,09	55,20
4	1120	29,30	10,88	0,09	56,08
5	1120	35,89	8,28	0,10	48,59
1	1430	0,00	29,36	0,21	0,00
2	1430	12,07	28,27	0,21	26,82
3	1430	24,87	26,28	0,19	55,20
4	1430	37,41	17,74	0,19	56,08
5	1430	45,82	13,50	0,21	48,59
1	1730	0,00	42,98	0,37	0,00
2	1730	14,60	41,38	0,37	26,82
3	1730	30,09	38,46	0,34	55,20
4	1730	45,26	25,97	0,34	56,08
5	1730	55,43	19,75	0,37	48,59

Blade Angle : 37 °

WHEEL DIA	387 mm	outlet Area	0,123 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	920	0,00	12,93	0,08	0,00
2	920	9,83	11,22	0,08	23,32
3	920	18,38	10,45	0,08	40,62
4	920	27,79	9,62	0,08	56,54
5	920	36,44	6,85	0,08	52,81
1	1120	0,00	19,16	0,15	0,00
2	1120	11,96	16,63	0,14	23,32
3	1120	22,38	15,48	0,14	40,62
4	1120	33,83	14,26	0,14	56,54
5	1120	44,36	10,16	0,14	52,81
1	1430	0,00	31,24	0,30	0,00
2	1430	15,27	27,12	0,29	23,32
3	1430	28,58	25,24	0,29	40,62
4	1430	43,20	23,24	0,29	56,54
5	1430	56,64	16,56	0,29	52,81
1	1730	0,00	45,72	0,54	0,00
2	1730	18,48	39,69	0,51	23,32
3	1730	34,57	36,94	0,51	40,62
4	1730	52,26	34,02	0,51	56,54
5	1730	68,52	24,23	0,51	52,81

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GMF-C series

DUCT IN LINE FAN

www.gsfa.co.kr

GMF-400C

Blade Angle : 17 °

WHEEL DIA	435 mm	outlet Area	0,160 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	17,25	0,15	0,00
2	950	11,21	14,52	0,14	18,70
3	950	20,21	12,70	0,14	30,73
4	950	30,71	11,83	0,14	43,46
5	950	40,43	4,06	0,13	20,75
1	1150	0,00	25,28	0,26	0,00
2	1150	13,57	21,28	0,25	18,70
3	1150	24,47	18,61	0,24	30,73
4	1150	37,17	17,33	0,24	43,46
5	1150	48,94	5,95	0,23	20,75
1	1450	0,00	40,19	0,53	0,00
2	1450	17,11	33,84	0,51	18,70
3	1450	30,85	29,59	0,49	30,73
4	1450	46,87	27,55	0,49	43,46
5	1450	61,70	9,46	0,46	20,75
1	1750	0,00	58,54	0,93	0,00
2	1750	20,65	49,29	0,89	18,70
3	1750	37,23	43,10	0,85	30,73
4	1750	56,56	40,13	0,85	43,46
5	1750	74,47	13,78	0,81	20,75

Blade Angle : 22 °

WHEEL DIA	435 mm	outlet Area	0,160 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	18,28	0,15	0,00
2	950	12,00	17,51	0,14	24,79
3	950	23,73	15,21	0,14	42,15
4	950	35,38	10,80	0,14	44,64
5	950	46,80	4,57	0,14	24,73
1	1150	0,00	26,79	0,27	0,00
2	1150	14,52	25,66	0,25	24,79
3	1150	28,72	22,28	0,25	42,15
4	1150	42,82	15,83	0,25	44,64
5	1150	56,65	6,70	0,25	24,73
1	1450	0,00	42,59	0,54	0,00
2	1450	18,31	40,80	0,49	24,79
3	1450	36,22	35,43	0,50	42,15
4	1450	53,99	25,17	0,50	44,64
5	1450	71,43	10,65	0,50	24,73
1	1750	0,00	62,03	0,95	0,00
2	1750	22,10	59,43	0,87	24,79
3	1750	43,71	51,60	0,87	42,15
4	1750	65,17	36,66	0,87	44,64
5	1750	86,21	15,51	0,88	24,73

Blade Angle : 27 °

WHEEL DIA	435 mm	outlet Area	0,160 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	19,39	0,17	0,00
2	950	13,70	16,43	0,15	24,30
3	950	28,52	14,21	0,15	44,19
4	950	41,10	12,38	0,15	54,96
5	950	55,93	5,26	0,15	31,79
1	1150	0,00	28,41	0,30	0,00
2	1150	16,58	24,07	0,27	24,30
3	1150	34,53	20,82	0,27	44,19
4	1150	49,75	18,14	0,27	54,96
5	1150	67,71	7,71	0,27	31,79
1	1450	0,00	45,17	0,60	0,00
2	1450	20,91	38,27	0,54	24,30
3	1450	43,53	33,10	0,53	44,19
4	1450	62,73	28,84	0,54	54,96
5	1450	85,37	12,26	0,54	31,79
1	1750	0,00	65,79	1,05	0,00
2	1750	25,23	55,74	0,95	24,30
3	1750	52,54	48,22	0,94	44,19
4	1750	75,71	42,01	0,95	54,96
5	1750	103,04	17,86	0,95	31,79

Blade Angle : 37 °

WHEEL DIA	435 mm	outlet Area	0,160 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	18,60	0,18	0,00
2	950	15,84	17,32	0,17	26,52
3	950	28,55	14,24	0,17	38,03
4	950	43,37	11,66	0,18	46,91
5	950	58,19	6,50	0,17	35,35
1	1150	0,00	27,26	0,32	0,00
2	1150	19,17	25,38	0,30	26,52
3	1150	34,56	20,87	0,31	38,03
4	1150	52,50	17,09	0,31	46,91
5	1150	70,44	9,52	0,31	35,35
1	1450	0,00	43,33	0,63	0,00
2	1450	24,17	40,36	0,60	26,52
3	1450	43,58	33,18	0,62	38,03
4	1450	66,20	27,16	0,63	46,91
5	1450	88,82	15,13	0,62	35,35
1	1750	0,00	63,12	1,11	0,00
2	1750	29,17	58,78	1,06	26,52
3	1750	52,60	48,33	1,09	38,03
4	1750	79,90	39,57	1,10	46,91
5	1750	107,19	22,04	1,09	35,35

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GMF-C series

DUCT IN LINE FAN
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GMF-450C

Blade Angle : 17 °

WHEEL DIA	485 mm	outlet Area	0,203 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	23,75	0,23	0,00
2	950	14,01	22,09	0,21	23,67
3	950	25,58	18,53	0,20	37,88
4	950	38,79	11,67	0,21	35,91
5	950	50,51	5,18	0,20	21,57
1	1150	0,00	34,80	0,42	0,00
2	1150	16,96	32,38	0,38	23,67
3	1150	30,96	27,16	0,36	37,88
4	1150	46,95	17,10	0,37	35,91
5	1150	61,14	7,60	0,35	21,57
1	1450	0,00	55,32	0,84	0,00
2	1450	21,38	51,47	0,76	23,67
3	1450	39,04	43,18	0,73	37,88
4	1450	59,20	27,19	0,73	35,91
5	1450	77,09	12,08	0,71	21,57
1	1750	0,00	80,58	1,47	0,00
2	1750	25,80	74,98	1,34	23,67
3	1750	47,11	62,89	1,28	37,88
4	1750	71,45	39,60	1,29	35,91
5	1750	93,04	17,59	1,24	21,57

Blade Angle : 22 °

WHEEL DIA	485 mm	outlet Area	0,203 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	26,98	0,29	0,00
2	950	16,65	19,75	0,25	21,21
3	950	34,31	18,00	0,24	41,25
4	950	50,62	17,08	0,25	57,35
5	950	65,00	6,47	0,24	28,90
1	1150	0,00	39,54	0,52	0,00
2	1150	20,15	28,94	0,45	21,21
3	1150	41,54	26,37	0,43	41,25
4	1150	61,28	25,03	0,44	57,35
5	1150	78,68	9,48	0,42	28,90
1	1450	0,00	62,86	1,05	0,00
2	1450	25,41	46,00	0,90	21,21
3	1450	52,37	41,93	0,87	41,25
4	1450	77,27	39,79	0,88	57,35
5	1450	99,21	15,07	0,85	28,90
1	1750	0,00	91,56	1,84	0,00
2	1750	30,67	67,01	1,58	21,21
3	1750	63,21	61,08	1,53	41,25
4	1750	93,26	57,95	1,54	57,35
5	1750	119,74	21,95	1,49	28,90

Blade Angle : 27 °

WHEEL DIA	485 mm	outlet Area	0,203 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	28,24	0,32	0,00
2	950	18,61	24,22	0,29	25,40
3	950	39,03	20,76	0,30	44,03
4	950	58,85	18,29	0,29	60,27
5	950	74,43	8,66	0,28	37,02
1	1150	0,00	41,38	0,57	0,00
2	1150	22,53	35,50	0,51	25,40
3	1150	47,25	30,42	0,53	44,03
4	1150	71,24	26,80	0,52	60,27
5	1150	90,11	12,69	0,50	37,02
1	1450	0,00	65,78	1,15	0,00
2	1450	28,41	56,43	1,03	25,40
3	1450	59,58	48,36	1,07	44,03
4	1450	89,82	42,61	1,04	60,27
5	1450	113,61	20,18	1,01	37,02
1	1750	0,00	95,81	2,03	0,00
2	1750	34,28	82,20	1,81	25,40
3	1750	71,91	70,44	1,88	44,03
4	1750	108,41	62,06	1,82	60,27
5	1750	137,12	29,40	1,78	37,02

Blade Angle : 37 °

WHEEL DIA	485 mm	outlet Area	0,203 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	23,84	0,29	0,00
2	950	21,18	22,05	0,28	27,33
3	950	40,83	20,04	0,30	45,24
4	950	62,02	16,46	0,29	57,03
5	950	83,60	11,61	0,29	54,21
1	1150	0,00	34,94	0,51	0,00
2	1150	25,64	32,32	0,50	27,33
3	1150	49,42	29,37	0,52	45,24
4	1150	75,08	24,12	0,52	57,03
5	1150	101,20	17,01	0,52	54,21
1	1450	0,00	55,55	1,01	0,00
2	1450	32,33	51,38	0,99	27,33
3	1450	62,32	46,69	1,05	45,24
4	1450	94,67	38,35	1,04	57,03
5	1450	127,60	27,05	1,04	54,21
1	1750	0,00	80,91	1,78	0,00
2	1750	39,02	74,84	1,75	27,33
3	1750	75,21	68,00	1,85	45,24
4	1750	114,25	55,87	1,83	57,03
5	1750	154,00	39,39	1,83	54,21

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GMF-C series

DUCT IN LINE FAN

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GMF-500C

Blade Angle : 17 °

WHEEL DIA 543 mm outlet Area 0,250 m²

Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	25,21	0,50	0,00
2	950	18,07	23,39	0,47	14,56
3	950	36,14	21,07	0,47	26,25
4	950	53,10	15,72	0,47	28,77
5	950	71,03	6,11	0,46	15,28
1	1150	0,00	36,94	0,88	0,00
2	1150	21,87	34,27	0,84	14,56
3	1150	43,75	30,88	0,84	26,25
4	1150	64,28	23,04	0,84	28,77
5	1150	85,99	8,96	0,82	15,28
1	1450	0,00	58,73	1,77	0,00
2	1450	27,58	54,48	1,69	14,56
3	1450	55,16	49,10	1,69	26,25
4	1450	81,05	36,63	1,69	28,77
5	1450	108,42	14,24	1,65	15,28
1	1750	0,00	85,54	3,12	0,00
2	1750	33,29	79,36	2,96	14,56
3	1750	66,57	71,51	2,96	26,25
4	1750	97,82	53,36	2,96	28,77
5	1750	130,85	20,74	2,90	15,28

Blade Angle : 27 °

WHEEL DIA 543 mm outlet Area 0,250 m²

Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	26,72	0,53	0,00
2	950	22,95	23,10	0,50	17,20
3	950	45,26	20,32	0,50	29,84
4	950	68,42	17,77	0,48	41,00
5	950	90,51	7,95	0,48	24,51
1	1150	0,00	39,15	0,94	0,00
2	1150	27,78	33,85	0,89	17,20
3	1150	54,79	29,77	0,89	29,84
4	1150	82,82	26,04	0,86	41,00
5	1150	109,56	11,65	0,85	24,51
1	1450	0,00	62,24	1,87	0,00
2	1450	35,03	53,81	1,79	17,20
3	1450	69,08	47,33	1,79	29,84
4	1450	104,43	41,39	1,72	41,00
5	1450	138,15	18,53	1,71	24,51
1	1750	0,00	90,65	3,30	0,00
2	1750	42,27	78,38	3,15	17,20
3	1750	83,37	68,94	3,15	29,84
4	1750	126,03	60,30	3,03	41,00
5	1750	166,73	26,99	3,00	24,51

Blade Angle : 22 °

WHEEL DIA 543 mm outlet Area 0,250 m²

Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	25,21	0,51	0,00
2	950	21,79	22,16	0,50	15,83
3	950	42,20	19,28	0,50	26,67
4	950	62,11	15,31	0,50	30,87
5	950	84,40	7,81	0,51	21,20
1	1150	0,00	36,94	0,90	0,00
2	1150	26,38	32,47	0,88	15,83
3	1150	51,08	28,26	0,88	26,67
4	1150	75,19	22,44	0,89	30,87
5	1150	102,17	11,45	0,90	21,20
1	1450	0,00	58,73	1,81	0,00
2	1450	33,26	51,62	1,77	15,83
3	1450	64,41	44,93	1,77	26,67
4	1450	94,81	35,68	1,79	30,87
5	1450	128,82	18,21	1,81	21,20
1	1750	0,00	85,54	3,18	0,00
2	1750	40,14	75,19	3,12	15,83
3	1750	77,74	65,44	3,12	26,67
4	1750	114,42	51,97	3,15	30,87
5	1750	155,47	26,52	3,18	21,20

Blade Angle : 37 °

WHEEL DIA 543 mm outlet Area 0,250 m²

Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	28,36	0,58	0,00
2	950	28,82	26,65	0,56	22,32
3	950	57,14	24,01	0,58	38,54
4	950	85,27	18,56	0,58	44,84
5	950	114,28	10,34	0,57	33,75
1	1150	0,00	41,56	1,02	0,00
2	1150	34,89	39,05	1,00	22,32
3	1150	69,17	35,19	1,03	38,54
4	1150	103,23	27,20	1,02	44,84
5	1150	138,33	15,15	1,01	33,75
1	1450	0,00	66,07	2,05	0,00
2	1450	43,99	62,07	2,00	22,32
3	1450	87,21	55,94	2,07	38,54
4	1450	130,15	43,24	2,05	44,84
5	1450	174,42	24,08	2,03	33,75
1	1750	0,00	96,24	3,61	0,00
2	1750	53,10	90,42	3,51	22,32
3	1750	105,25	81,48	3,64	38,54
4	1750	157,08	62,98	3,61	44,84
5	1750	210,51	35,07	3,57	33,75

※상기 데이터는 KS B 6311의 외거 시험한 데이터입니다. 32도 각도는 AMCA 인증품 데이터를 보시고 참고 하시기 바랍니다.

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GMF-C series

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GMF-560C

Blade Angle : 17 °

WHEEL DIA	611 mm	outlet Area	0,314 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	18,96	0,47	0,00
2	950	16,60	12,67	0,47	7,32
3	950	43,91	8,44	0,48	12,49
4	950	49,79	5,97	0,50	9,63
5	950	55,04	3,51	0,50	6,25
1	1150	0,00	27,78	0,84	0,00
2	1150	20,09	18,57	0,83	7,32
3	1150	53,15	12,36	0,86	12,49
4	1150	60,27	8,75	0,89	9,63
5	1150	66,63	5,14	0,89	6,25
1	1450	0,00	44,17	1,69	0,00
2	1450	25,33	29,52	1,67	7,32
3	1450	67,02	19,65	1,72	12,49
4	1450	75,99	13,91	1,79	9,63
5	1450	84,01	8,17	1,79	6,25
1	1750	0,00	64,33	2,97	0,00
2	1750	30,57	43,00	2,93	7,32
3	1750	80,88	28,63	3,03	12,49
4	1750	91,71	20,26	3,15	9,63
5	1750	101,39	11,90	3,15	6,25

Blade Angle : 22 °

WHEEL DIA	611 mm	outlet Area	0,314 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	26,87	0,66	0,00
2	950	48,05	23,33	0,64	28,75
3	950	75,98	18,63	0,64	36,29
4	950	89,89	13,86	0,62	32,92
5	950	96,10	9,65	0,61	24,87
6	950	107,45	1,83	0,60	5,36
1	1150	0,00	39,38	1,16	0,00
2	1150	58,17	34,19	1,13	28,75
3	1150	91,97	27,30	1,13	36,29
4	1150	108,82	20,31	1,10	32,92
5	1150	116,33	14,14	1,08	24,87
6	1150	130,07	2,68	1,06	5,36
1	1450	0,00	62,60	2,33	0,00
2	1450	73,34	54,35	2,27	28,75
3	1450	115,96	43,39	2,27	36,29
4	1450	137,21	32,30	2,20	32,92
5	1450	146,68	22,48	2,17	24,87
6	1450	164,00	4,27	2,13	5,36
1	1750	0,00	91,18	4,10	0,00
2	1750	88,52	79,16	3,98	28,75
3	1750	139,96	63,21	3,98	36,29
4	1750	165,60	47,04	3,87	32,92
5	1750	177,03	32,74	3,81	24,87
6	1750	197,93	6,22	3,75	5,36

Blade Angle : 27 °

WHEEL DIA	611 mm	outlet Area	0,314 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	28,38	0,77	0,00
2	950	96,59	23,94	0,73	51,62
3	950	123,13	19,31	0,72	53,77
4	950	140,81	14,62	0,71	47,49
5	950	152,72	10,49	0,69	37,70
6	950	163,78	4,20	0,68	16,40
1	1150	0,00	41,59	1,37	0,00
2	1150	116,92	35,08	1,30	51,62
3	1150	149,05	28,30	1,28	53,77
4	1150	170,45	21,43	1,26	47,49
5	1150	184,87	15,37	1,23	37,70
6	1150	198,26	6,15	1,21	16,40
1	1450	0,00	66,11	2,74	0,00
2	1450	147,43	55,76	2,60	51,62
3	1450	187,94	44,98	2,57	53,77
4	1450	214,91	34,06	2,52	47,49
5	1450	233,10	24,43	2,47	37,70
6	1450	249,98	9,77	2,43	16,40
1	1750	0,00	96,30	4,81	0,00
2	1750	177,93	81,23	4,58	51,62
3	1750	226,82	65,52	4,52	53,77
4	1750	259,38	49,61	4,43	47,49
5	1750	281,33	35,59	4,34	37,70
6	1750	301,70	14,24	4,28	16,40

Blade Angle : 37 °

WHEEL DIA	611 mm	outlet Area	0,314 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	29,51	0,89	0,00
2	950	114,27	24,55	0,86	53,17
3	950	157,88	20,16	0,93	55,91
4	950	188,70	14,44	0,95	46,67
5	950	203,82	11,62	0,95	40,75
6	950	217,89	7,72	0,93	29,42
1	1150	0,00	43,24	1,57	0,00
2	1150	138,32	35,98	1,53	53,17
3	1150	191,11	29,53	1,65	55,91
4	1150	228,43	21,16	1,69	46,67
5	1150	246,73	17,02	1,68	40,75
6	1150	263,76	11,32	1,66	29,42
1	1450	0,00	68,75	3,15	0,00
2	1450	174,41	57,19	3,07	53,17
3	1450	240,97	46,95	3,31	55,91
4	1450	288,02	33,64	3,39	46,67
5	1450	311,09	27,06	3,38	40,75
6	1450	332,57	17,99	3,32	29,42
1	1750	0,00	100,14	5,54	0,00
2	1750	210,49	83,31	5,39	53,17
3	1750	290,83	68,39	5,81	55,91
4	1750	347,61	49,00	5,96	46,67
5	1750	375,46	39,42	5,93	40,75
6	1750	401,38	26,21	5,84	29,42

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GMF-C series

DUCT IN LINE FAN

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GMF-630C

Blade Angle : 17 °

WHEEL DIA	677 mm	outlet Area	0,397 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	41,46	1,56	0,00
2	950	55,77	40,31	1,47	24,97
3	950	111,53	38,83	1,44	48,99
4	950	165,43	31,72	1,40	61,42
5	950	214,54	9,02	1,38	22,90
1	1150	0,00	60,75	2,77	0,00
2	1150	67,51	59,07	2,61	24,97
3	1150	135,02	56,90	2,56	48,99
4	1150	200,26	46,48	2,48	61,42
5	1150	259,71	13,21	2,45	22,90
1	1450	0,00	96,59	5,56	0,00
2	1450	85,12	93,90	5,23	24,97
3	1450	170,24	90,45	5,14	48,99
4	1450	252,51	73,90	4,96	61,42
5	1450	327,46	21,00	4,91	22,90
1	1750	0,00	140,69	9,77	0,00
2	1750	102,74	136,78	9,20	24,97
3	1750	205,46	131,75	9,03	48,99
4	1750	304,75	107,64	8,73	61,42
5	1750	395,21	30,59	8,63	22,90

Blade Angle : 22 °

WHEEL DIA	677 mm	outlet Area	0,397 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	40,80	1,64	0,00
2	950	61,09	38,37	1,55	24,68
3	950	122,18	35,01	1,55	45,04
4	950	183,27	28,76	1,50	57,28
5	950	236,60	10,20	1,50	26,23
1	1150	0,00	59,79	2,91	0,00
2	1150	73,95	56,22	2,75	24,68
3	1150	147,91	51,30	2,75	45,04
4	1150	221,85	42,14	2,67	57,28
5	1150	286,41	14,95	2,67	26,23
1	1450	0,00	95,05	5,84	0,00
2	1450	93,24	89,38	5,52	24,68
3	1450	186,49	81,56	5,52	45,04
4	1450	279,73	67,00	5,35	57,28
5	1450	361,13	23,76	5,35	26,23
1	1750	0,00	138,45	10,27	0,00
2	1750	112,53	130,19	9,70	24,68
3	1750	225,07	118,80	9,70	45,04
4	1750	337,60	97,59	9,40	57,28
5	1750	435,84	34,61	9,40	26,23

Blade Angle : 27 °

WHEEL DIA	677 mm	outlet Area	0,397 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	38,83	1,68	0,00
2	950	70,54	37,77	1,78	24,50
3	950	136,61	36,52	1,80	45,19
4	950	205,66	31,19	1,76	59,70
5	950	263,94	10,27	1,71	25,85
1	1150	0,00	56,90	2,97	0,00
2	1150	85,39	55,35	3,15	24,50
3	1150	165,36	53,52	3,20	45,19
4	1150	248,96	45,71	3,11	59,70
5	1150	319,51	15,04	3,04	25,85
1	1450	0,00	90,45	5,96	0,00
2	1450	107,67	88,00	6,32	24,50
3	1450	208,50	85,09	6,42	45,19
4	1450	313,90	72,67	6,24	59,70
5	1450	402,86	23,92	6,09	25,85
1	1750	0,00	131,75	10,47	0,00
2	1750	129,94	128,18	11,11	24,50
3	1750	251,64	123,94	11,28	45,19
4	1750	378,85	105,85	10,98	59,70
5	1750	486,21	34,84	10,71	25,85

Blade Angle : 37 °

WHEEL DIA	677 mm	outlet Area	0,397 m ²
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Num	rpm (N)	Q [m ³ /M]	Pt [mmAq]	H [kW]	etat (%)
1	950	0,00	40,37	1,78	0,00
2	950	71,32	38,62	1,93	23,30
3	950	144,86	36,43	2,03	42,56
4	950	216,92	31,42	2,01	55,42
5	950	283,06	11,64	1,96	27,47
1	1150	0,00	59,15	3,16	0,00
2	1150	86,34	56,59	3,43	23,30
3	1150	175,36	53,39	3,59	42,56
4	1150	262,59	46,04	3,56	55,42
5	1150	342,65	17,06	3,48	27,47
1	1450	0,00	94,04	6,34	0,00
2	1450	108,86	89,97	6,87	23,30
3	1450	221,11	84,87	7,20	42,56
4	1450	331,10	73,20	7,14	55,42
5	1450	432,04	27,12	6,97	27,47
1	1750	0,00	136,98	11,14	0,00
2	1750	131,38	131,04	12,07	23,30
3	1750	266,85	123,63	12,66	42,56
4	1750	399,60	106,62	12,56	55,42
5	1750	521,43	39,50	12,25	27,47

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송풍기 견적 및 발주 사양서

주 문 주:	납품장소:	부 품 속 구 비 서 류	상대플랜지 : 유 무
주 문 일: 20 . . .	용 도:		☆댐 퍼 : 유토출 흡입무
수 량:	설치장소:		☆공동배드 : 유 무
납 기: 20 . . .	운전조건:		☆기초보울트 : 유 무
종 류:	온 도: MAX at ℃		☆캔바스 : 유토출 흡입무
모 델: G	습 도: %		☆방 진 : 유 무
품 량: m³/min at ℃	취급기체:		☆
풍 압: mmAq at ℃	기체성질:		입회검사 : 유 무
회 전 수: r.p.m	비 중 량: kg/m³		시험성적서 : 유 무
토 출 구: mm X mm	재 질		바란싱성적서 : 유 무
흡 입 구: Ø mm		외형치수검사서: 유 무	
흡입방식: 편흡입 양흡입			
전 동 기: TYPE, KW- P- r.p.m- , Ø HZ- VOLT, MAKER:			수주측부담 ☐
도 장: 제조회사기본 지정:			발주측부담 ☐
비 고: 송풍기 모델기입"예"			

GTF- # 4.5-G6-Z

송풍기의 종류 ←

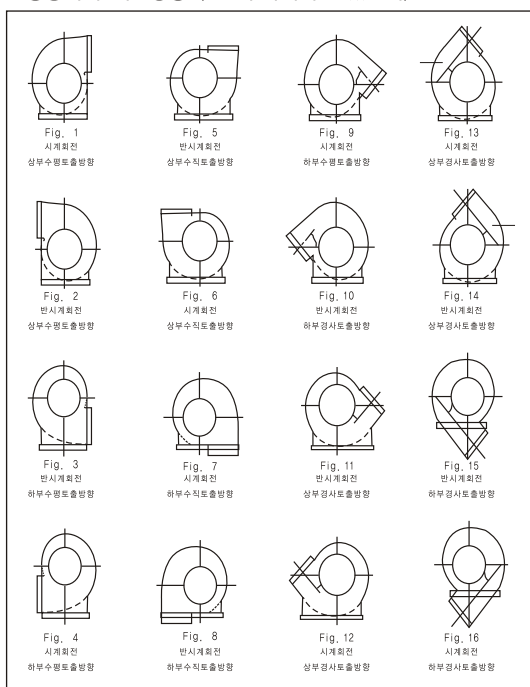
송풍기의 크기 ←

전동기의 위치 →

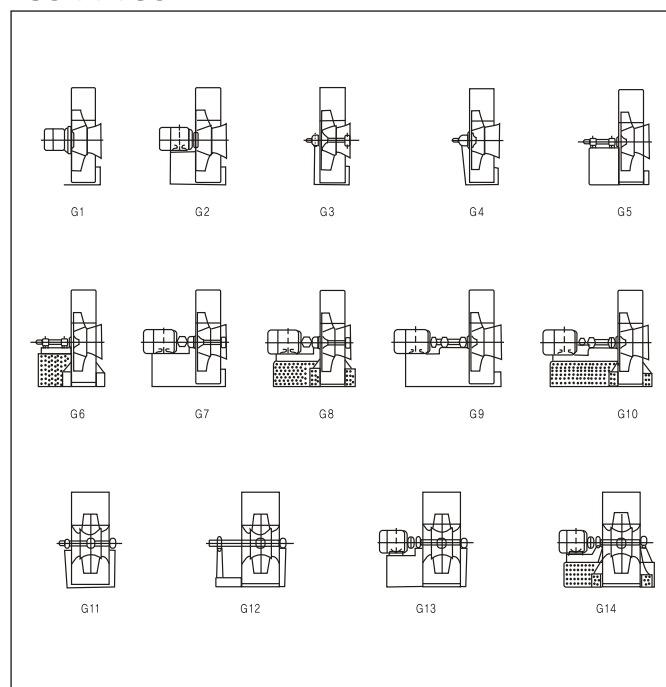
송풍기의 구동방법 →

송풍기의 구동방법

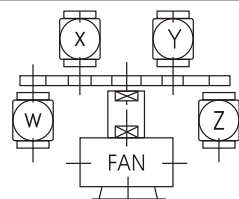
■ 송풍기의 회전방향 (흡입구측에서 보았을때)



■ 송풍기의 구동방법

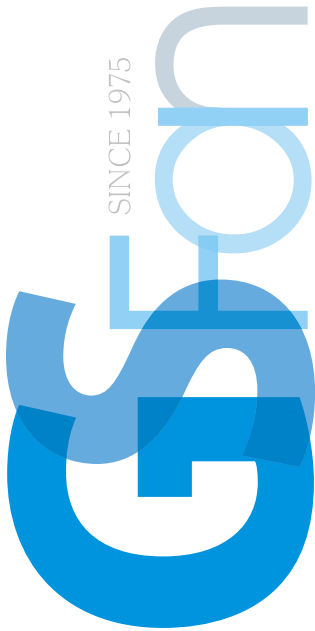


전동기의 위치



위 사항의(건적, 도면)이 (예산용, 입찰용)으로 필요하니
20 년 월 일 까지(전화, 우편, 인편)으로 제출바랍니다.

회 사 명 : 작 성 일:
소 속 : 담 당:
전화번호 :



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