

We Care for Your Needs

WALL FANS

WMF Series



TCF

TWIN CITY FAN

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Wall Mounted Direct Drive Series

Model: WMF-Series

- > Static pressure up to 200 Pa
- > Flow capacity up to 2.7 m³/s
- > Exhaust or supply in light-duty applications
- > Available in sizes 200 - 630 mm.

(For more ranges please consult with factory).



Fan Performance Curves

The fan performance curves are plotted as per the test method AMCA Standard 210-16, Figure 12 Setup, Installation Type A. The fan curves shows the range of capacities available for direct drive units. Each graphs shows the performance of several models at one particular nominal speed. Fan curves provide a quick method for selecting a fan unit based on design point requirements.

Sound Levels

The sound levels are tested Method per AMCA Standard 300-14, Figure 2 Setup, installation Type A Free inlet and free outlet. The sound ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA International Standard 301. Values shown are for inlet(LWi) sound power level for installation type A ; Free inlet , Free outlet.

WMF Series

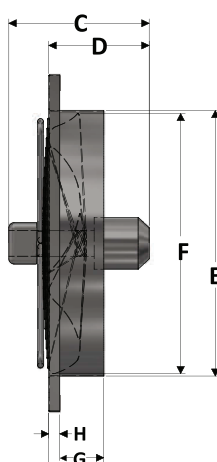
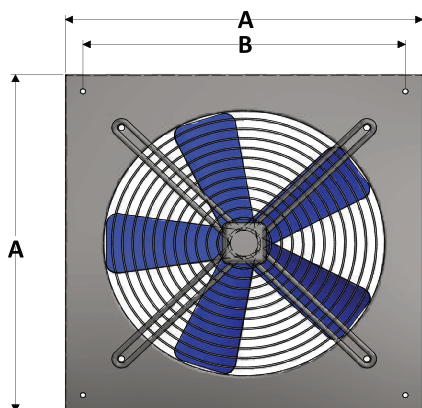
"Twin City Fan & Blower certifies that the model WMF Series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 211 and AMCA publication 311 and comply with the requirements of the AMCA Certified Ratings Program". The AMCA certified ratings seal applies to the FEI for all models of WMF.



Overall Size

Model No.	A	B	C	D	E	F	G	H
WMF 200	310	260	129	69	230	200	50	15
WMF 250	370	320	139	79	280	250	50	15
WMF 300	430	380	146	84	335	300	65	15
WMF 350	485	435	172	107	380	350	65	15
WMF 400	540	490	185	120	430	400	78	15
WMF 450	575	520	195	135	480	453	85	15
WMF 500	665	615	182	100	530	495	100	15
WMF 630	805	750	216	110	665	620	110	20

All Dimensions in mm

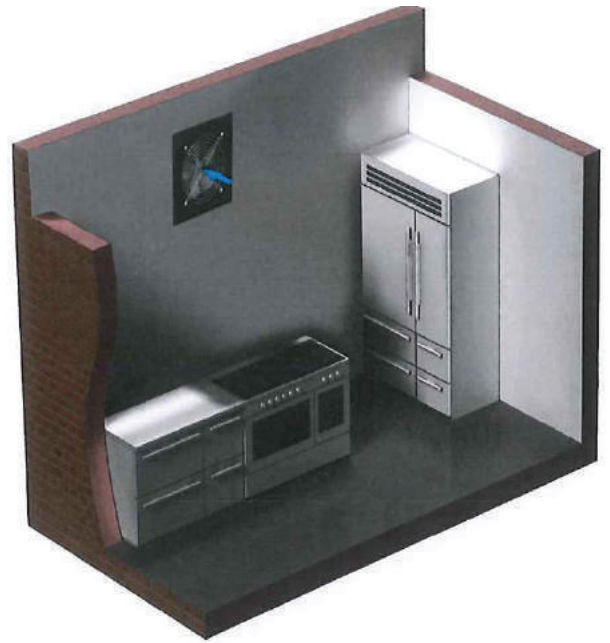


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WMF Series Features

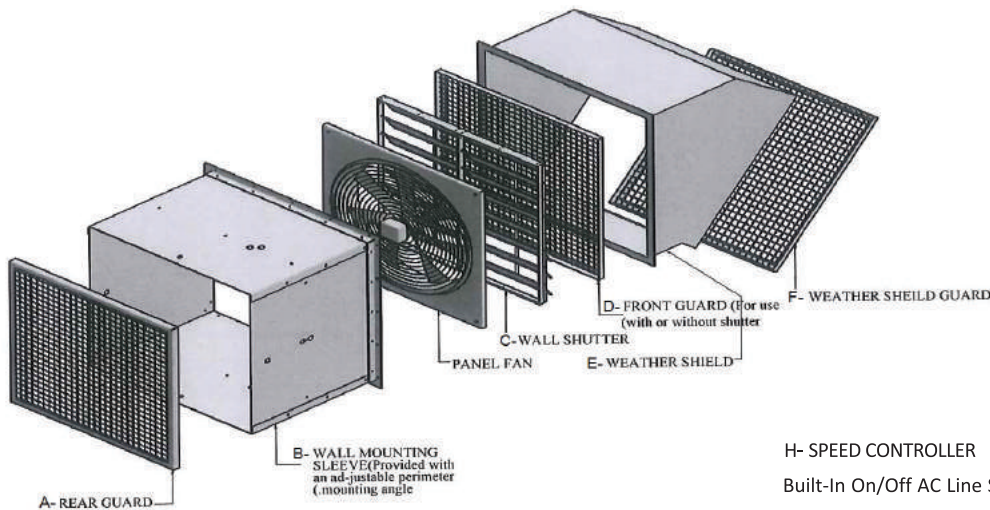
Specially designed for through-the-wall, direct-air exhaust, WMF series fans are ideal for ventilation of stores, garages, agricultural facilities and parking structures. The asynchronous, ball-bearing motor offers thermal protection for smooth and safe operation. High-flow capacity makes the WMF series fans a perfect solution for ventilating spaces with contaminated air. The body and impeller are made of steel with a polymeric coating. WMF series fans are designed to move a lot of air volume effectively and quietly without taking up valuable space.

- > Static Pressure Up to 200 Pa
- > Flow capacity up to 2.7 m³/s
- > Specially designed for direct mounting through the wall
- > Air exhaust or Air supply
- > Suitable for ventilation in commercial and industrial facilities
- > High outflow capacity
- > Asynchronous ball bearing motor with thermal protection.
- > Casing is made from steel with polymeric coating
- > External rotor motor has a low start current, IP54 Protection level & Class F insulation



Accompanying drawing illustrates an application of the WMF fan in a kitchen room

Accessories Overview



G- SAFETY DISCONNECT SWITCH

Safety disconnect switches are available to allow positive electrical shut-off and safety. Switches are shipped loose for field mounting. A wide range of Nema rated enclosures with disconnect switches are available for in-door, outdoor, and explosion proof installations. Disconnects are to be field wired by a licensed electrician.



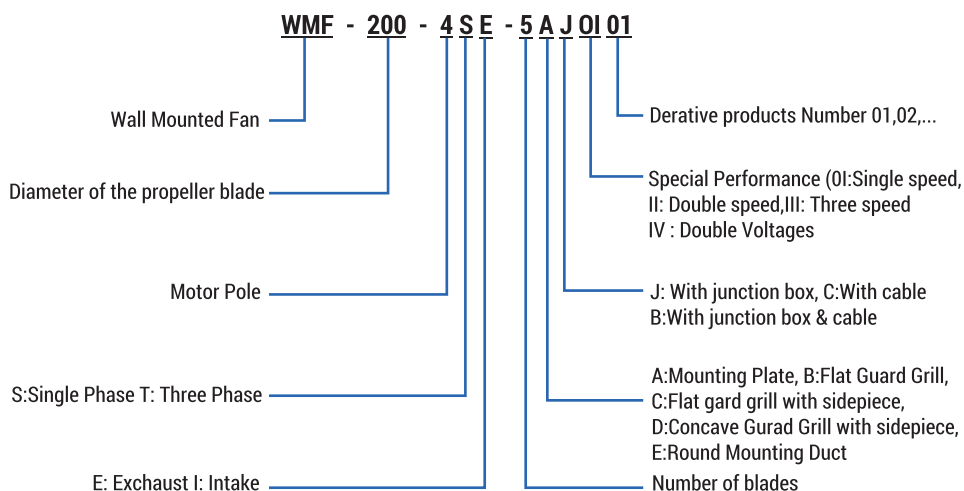
H- SPEED CONTROLLER

Built-In On/Off AC Line Switch
AC Line Input Voltage (230 Volts AC – 50/60 Hz)



Please consult with factory for Accessories detailed drawings and sizes.

Model Number Code:



Quick Selection Chart

WMF Quick Selection Chart 50 Hz

Model	Voltage/ Frequency	Nominal RPM	0.00" SP CFM	0.100" SP CFM	0.200" SP CFM	0.300" SP CFM	0.400" SP CFM	0.500" SP CFM	0.600" SP CFM	0.700" SP CFM	0.800" SP CFM	Sones @ 0.00"
WMF 200-4SE	230/50	1433	193	141	-	-	-	-	-	-	-	3.4
WMF 250-4SE	230/50	1393	589	420	282	-	-	-	-	-	-	5.0
WMF 300-4SE	230/50	1319	873	710	562	421	-	-	-	-	-	8.9
WMF 350-4SE	230/50	1324	1421	1271	1060	898	715	500	-	-	-	8.6
WMF 400-4SE	230/50	1314	1989	1811	1620	1430	1182	902	-	-	-	13.6
WMF 450-4SE	230/50	1329	2456	2062	1890	1598	1340	1110	1005	802	-	14.0
WMF 500-4SE	230/50	1326	3149	2989	2700	2430	2010	1610	1381	-	-	15.3
WMF 630-4SE	230/50	1378	4955	4800	4494	4300	3980	3582	3238	2907	2409	25.0

WMF Quick Selection Chart 60 Hz

Model	Voltage/ Frequency	Nominal RPM	0.00" SP CFM	0.100" SP CFM	0.200" SP CFM	0.300" SP CFM	0.400" SP CFM	0.500" SP CFM	0.600" SP CFM	0.700" SP CFM	0.800" SP CFM	Sones @ 0.00"
WMF 200-4SE	230/60	1693	229	180	-	-	-	-	-	-	-	4.9
WMF 250-4SE	230/60	1548	690	570	442	341	-	-	-	-	-	6.7
WMF 300-4SE	230/60	1454	1019	862	741	583	-	-	-	-	-	11.2
WMF 350-4SE	230/60	1455	1631	1426	1200	915	-	-	-	-	-	10.6
WMF 400-4SE	230/60	1315	2267	2106	1933	1712	1401	1072	-	-	-	14.6
WMF 450-4SE	230/60	1437	2930	2725	2510	2364	2110	1845	1210	-	-	17.5
WMF 500-4SE	230/60	1346	3608	3449	3008	2709	2480	2000	1508	1480	-	19.2
WMF 630-4SE	230/60	1529	5684	5493	5300	5073	4780	4488	4130	3698	3290	31.0

"Performance ratings do not include the effects of appurtenances(accessories). Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance certified is for installation type A- Free inlet, Free outlet.

"The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per ANSI/AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels."

WMF 200 SERIES

WMF Series Axial Wall Mounted Fan

Technical Data

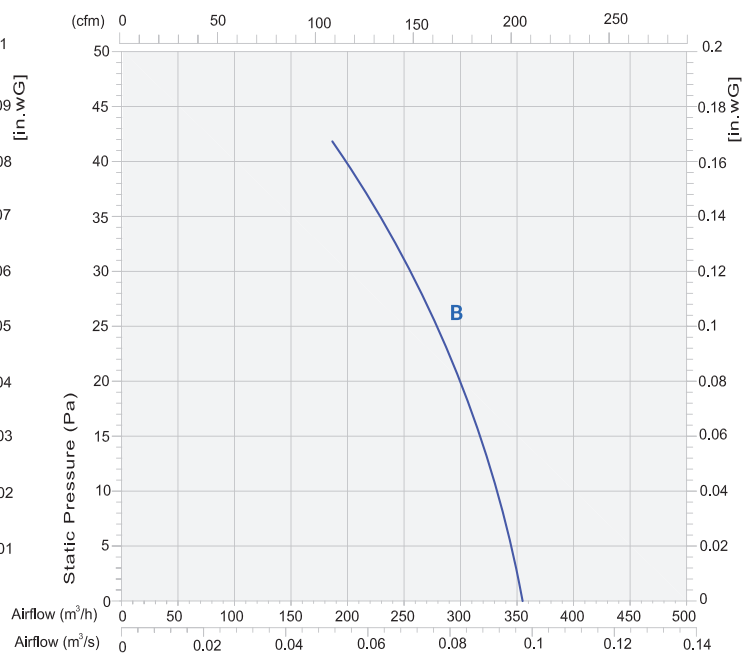
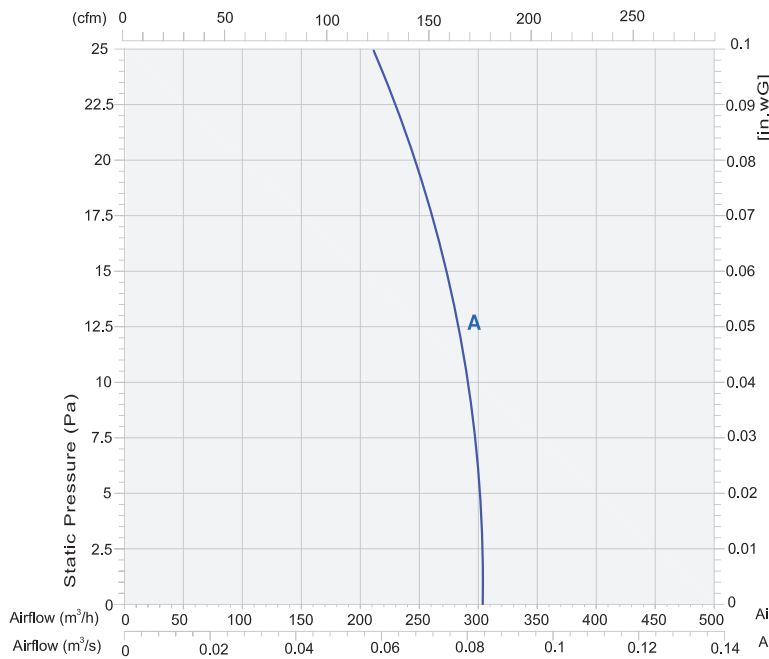
Type: WMF-200-4SE (50 Hz)

Voltage/ Frequency (V/Hz)	230/50	Nominal Speed, RPM	1433
Current, A	0.16	Air Flow [m³/s]	0.091
Maximum Motor input Watt	34	Insulation Class	F
Capacitor μ F	1	Protection	IP 44/54
Ambient Temp. t_a	-20°C - +60°C	Weight, kg	3
Performance Curve	A	Number of Blades	5

Type: WMF-200-4SE (60 Hz)

Voltage/ Frequency (V/Hz)	230/60	Nominal Speed, RPM	1693
Current, A	0.14	Air Flow [m³/s]	0.108
Maximum Motor input Watt	33.2	Insulation Class	F
Capacitor μ F	1	Protection	IP 44/54
Ambient Temp. t_a	-20°C - +60°C	Weight, kg	3
Performance Curve	B	Number of Blades	5

Performance Curve

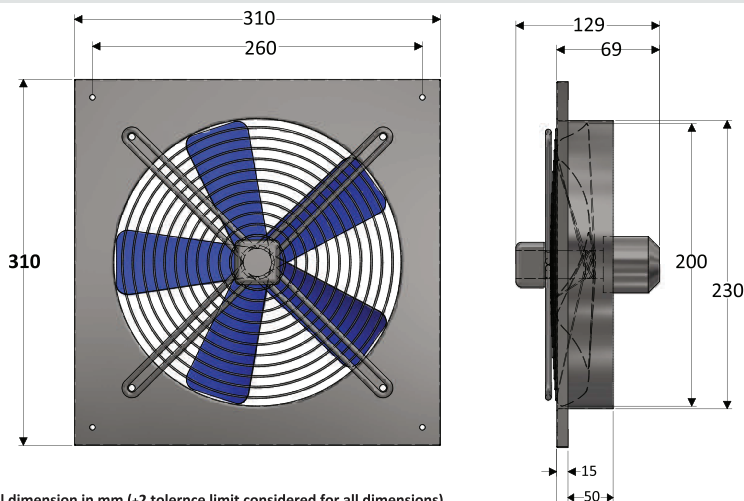


"Performance ratings do not include the effects of appurtenances(accessories). Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance certified is for installation type A- Free inlet, Free outlet. Value shown are for inlet Lwi sound power levels for installation type A: Free inlet, Free outlet. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA international Standard 301.

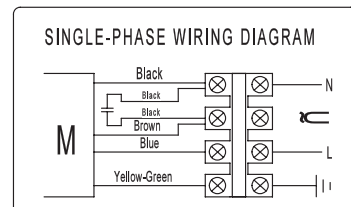
Nominal RPM	Air Flow [m³/s]	Static Pressure [Pa]	Sound power level (dB re 10 ⁻¹² watts) Octave Band Center Frequency (Hz)							
			63	125	250	500	1K	2K	4K	8K
1437	0.091	0	60	60	55	51	49	48	42	34
1436	0.048	28	63	65	59	54	50	47	40	33

Nominal RPM	Air Flow [m³/s]	Static Pressure [Pa]	Sound power level (dB re 10 ⁻¹² watts) Octave Band Center Frequency (Hz)							
			63	125	250	500	1K	2K	4K	8K
1726	0.108	0	62	63	60	56	54	53	49	41
1692	0.041	54	66	70	63	59	55	53	49	40

Dimensional Drawings



All dimension in mm (±2 tolerance limit considered for all dimensions)



"Twin City Fan & Blower certifies that the model WMF-200-4SE Series 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 AMCA publication 311 and comply with the requirements of the AMCA Certified Ratings Program". The AMCA certified ratings seal applies to the FEI for all models of WMF-200-4SE.



WMF 250 SERIES

WMF Series Axial Wall Mounted Fan

Technical Data

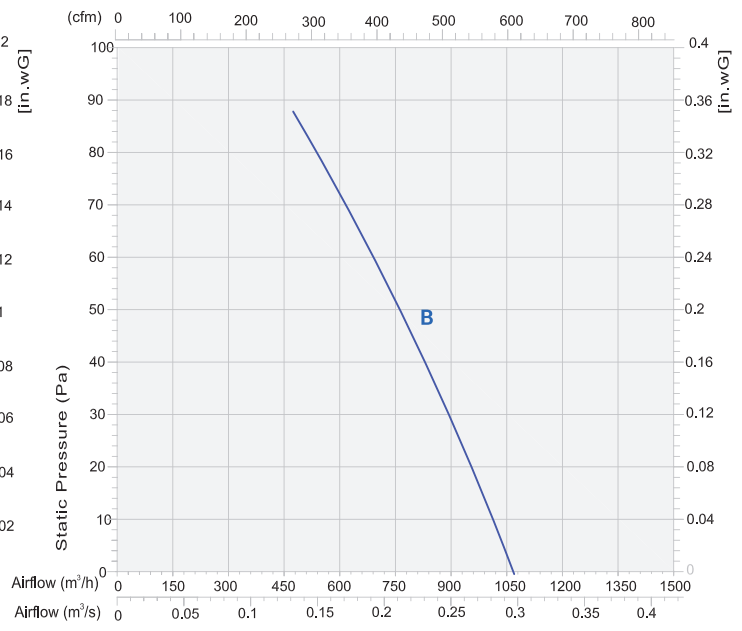
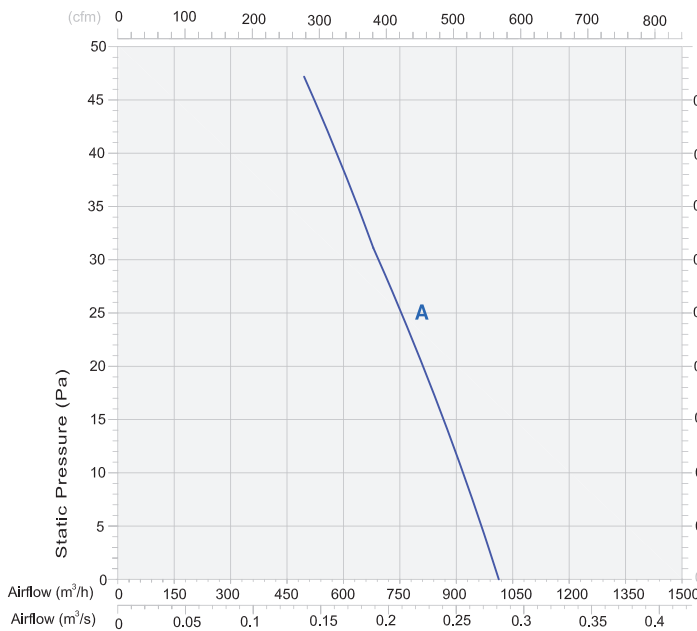
Type: WMF-250-4SE (50 Hz)

Voltage/ Frequency (V/Hz)	230/50	Nominal Speed, RPM	1393
Current, A	0.26	Air Flow [m³/s]	0.278
Maximum Motor input Watt	60.94	Insulation Class	F
Capacitor μF	2	Protection	IP 44/54
Ambient Temp. t _a	-20°C - +60°C	Weight, kg	3.8
Performance Curve	A	Number of Blades	5

Type: WMF-250-4SE (60 Hz)

Voltage/ Frequency (V/Hz)	230/60	Nominal Speed, RPM	1548
Current, A	0.38	Air Flow [m³/s]	0.326
Maximum Motor input Watt	76.42	Insulation Class	F
Capacitor μF	2	Protection	IP 44/54
Ambient Temp. t _a	-20°C - +60°C	Weight, kg	3.8
Performance Curve	B	Number of Blades	5

Performance Curve

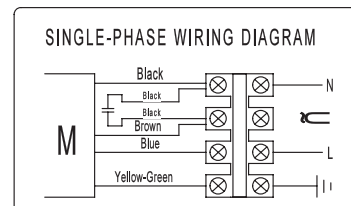
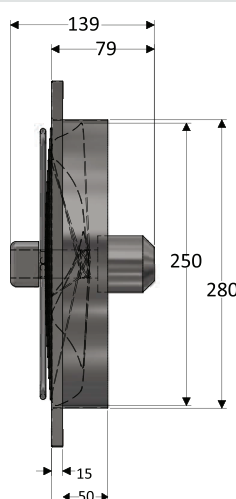
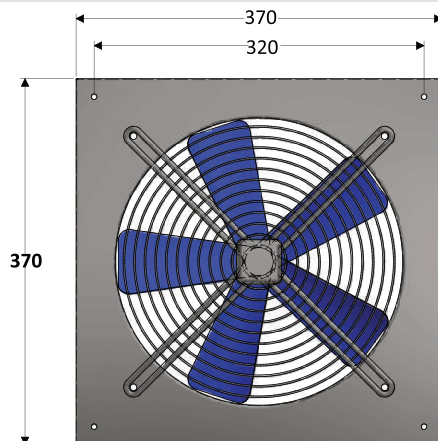


"Performance ratings do not include the effects of appurtenances (accessories). Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance certified is for installation type A- Free inlet, Free outlet. Value shown are for inlet Lwi sound power levels for installation type A: Free inlet, Free outlet. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA international Standard 301.

Nominal RPM	Air Flow [m³/s]	Static Pressure [Pa]	Sound power level (dB re 10 ⁻¹² watts) Octave Band Center Frequency (Hz)							
			63	125	250	500	1K	2K	4K	8K
1420	0.278	0	63	59	58	56	54	54	51	41
1357	0.099	82	68	70	65	59	56	53	49	42

Nominal RPM	Air Flow [m³/s]	Static Pressure [Pa]	Sound power level (dB re 10 ⁻¹² watts) Octave Band Center Frequency (Hz)							
			63	125	250	500	1K	2K	4K	8K
1673	0.326	0	63	68	59	61	58	59	56	49
1555	0.114	109	69	74	67	63	58	57	53	47

Dimensional Drawings



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All dimension in mm (±2 tolerance limit considered for all dimensions)

Technical Data

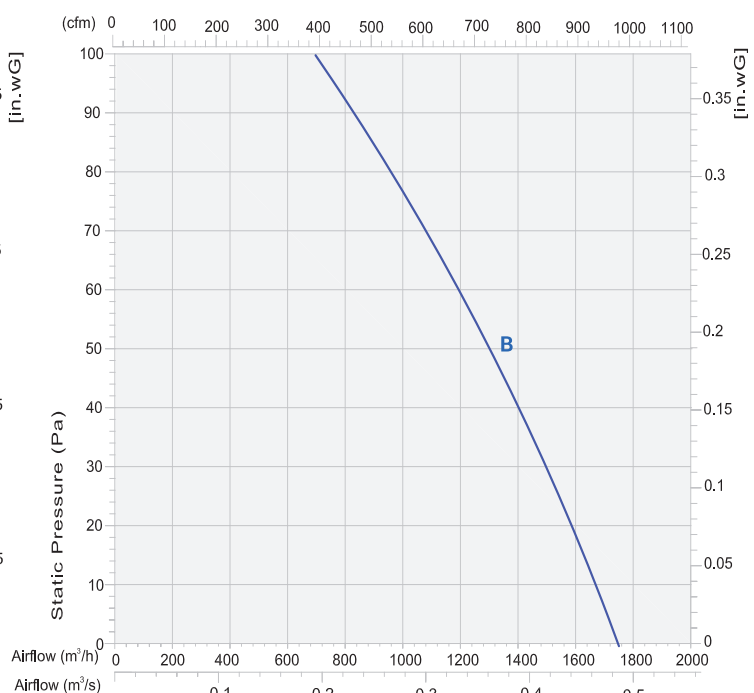
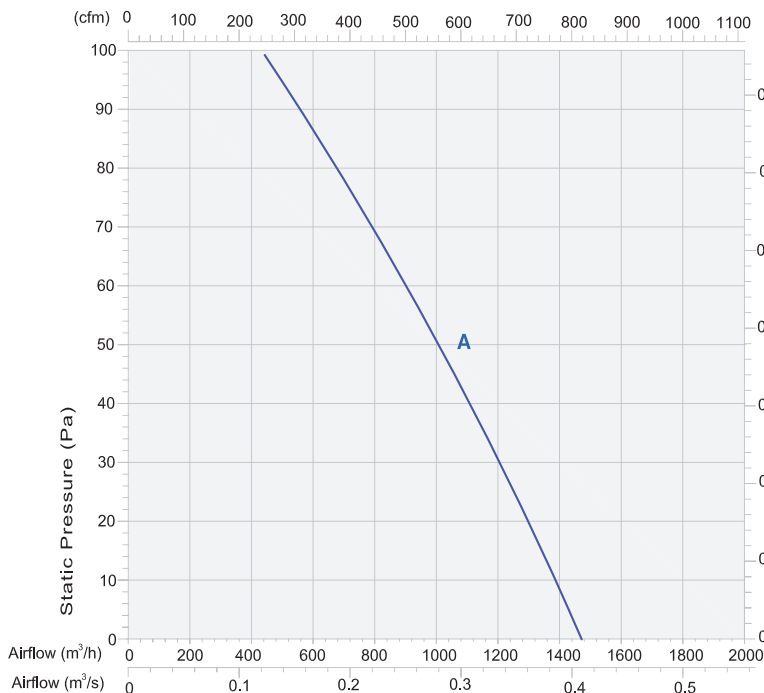
Type: WMF-300-4SE (50 Hz)

Voltage/ Frequency (V/Hz)	230/50	Nominal Speed, RPM	1319
Current, A	0.40	Air Flow [m³/s]	0.412
Maximum Motor input Watt	109.23	Insulation Class	F
Capacitor μ F	1	Protection	IP 44/54
Ambient Temp. t_a	-20°C - +60°C	Weight, kg	5.2
Performance Curve	A	Number of Blades	5

Type: WMF-300-4SE (60 Hz)

Voltage/ Frequency (V/Hz)	230/60	Nominal Speed, RPM	1454
Current, A	0.46	Air Flow [m³/s]	0.481
Maximum Motor input Watt	131.34	Insulation Class	F
Capacitor μ F	3	Protection	IP 44/54
Ambient Temp. t_a	-20°C - +60°C	Weight, kg	5.2
Performance Curve	B	Number of Blades	5

Performance Curve

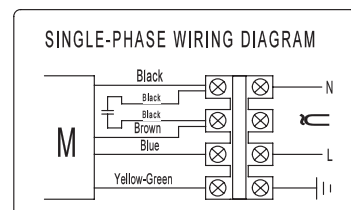
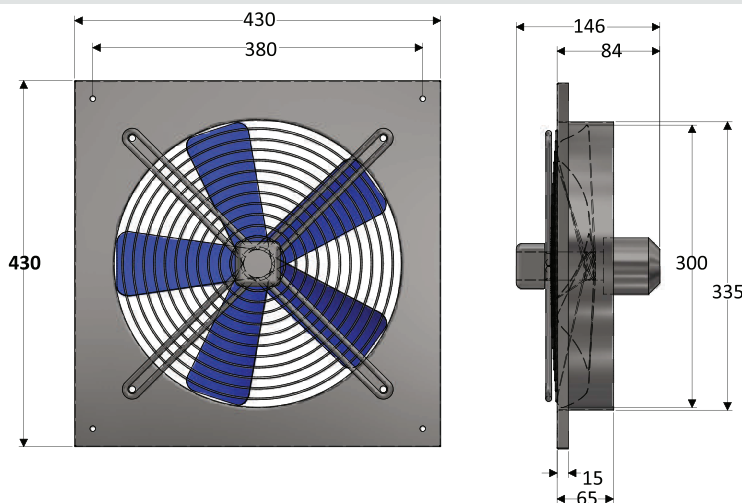


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Nominal RPM	Air Flow [m³/s]	Static Pressure [Pa]	Sound power level (dB re 10 ⁻¹² watts) Octave Band Center Frequency (Hz)						
			63	125	250	500	1K	2K	4K
1379	0.412	0	72	72	70	66	63	62	58
1379	0.141	97	71	73	68	64	62	60	57

Nominal RPM	Air Flow [m³/s]	Static Pressure [Pa]	Sound power level (dB re 10 ⁻¹² watts) Octave Band Center Frequency (Hz)						
			63	125	250	500	1K	2K	4K
1593	0.481	0	74	74	73	71	67	66	62
1380	0.149	116	72	75	70	64	64	62	59

Dimensional Drawings



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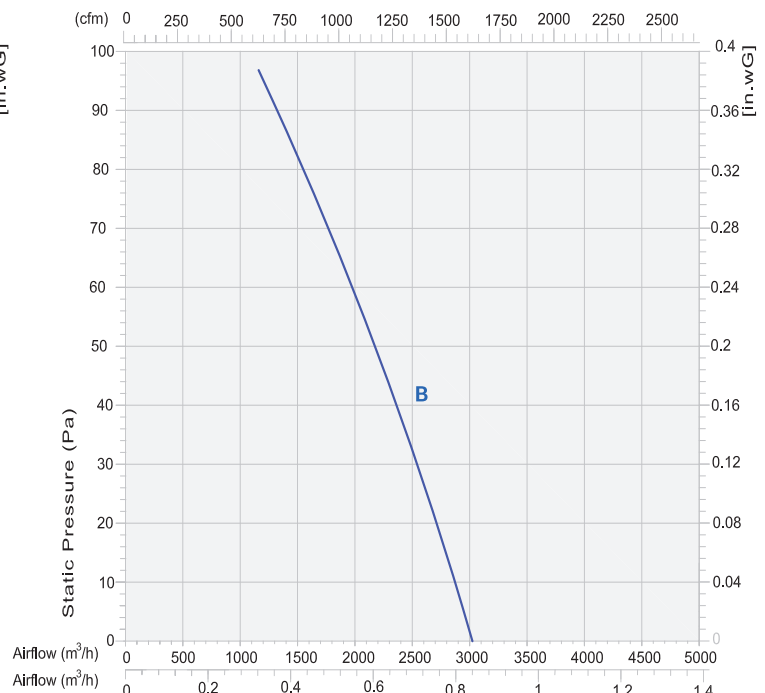
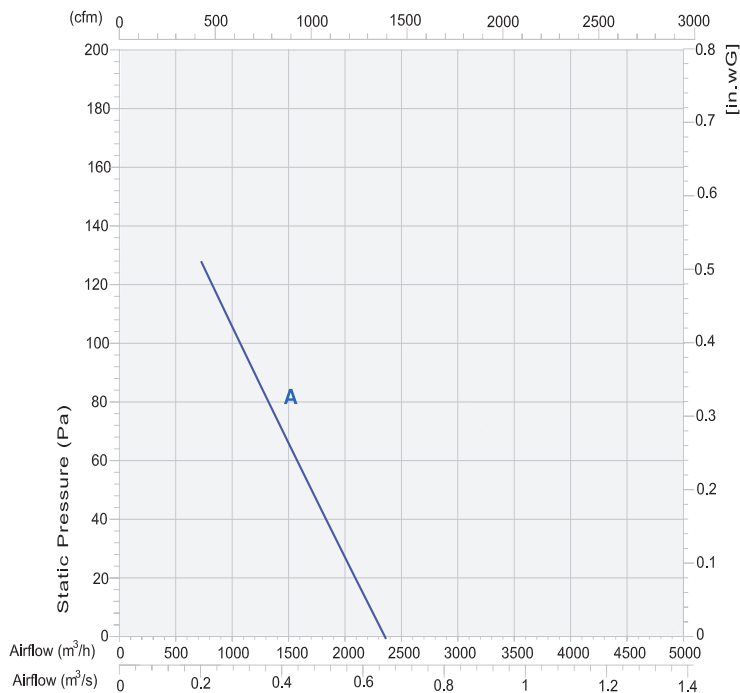
Technical Data

Type: WMF-350-4SE (50 Hz)

Voltage/ Frequency (V/Hz)	230/50	Nominal Speed, RPM	1324
Current, A	0.58	Air Flow [m³/s]	0.671
Maximum Motor input Watt	231.59	Insulation Class	F
Capacitor μF	4	Protection	IP 44/54
Ambient Temp. t _a	-20°C - +60°C	Weight, kg	6.3
Performance Curve	A	Number of Blades	5

Type: WMF-350-4SE (60 Hz)

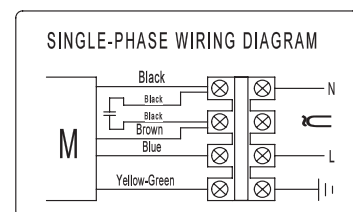
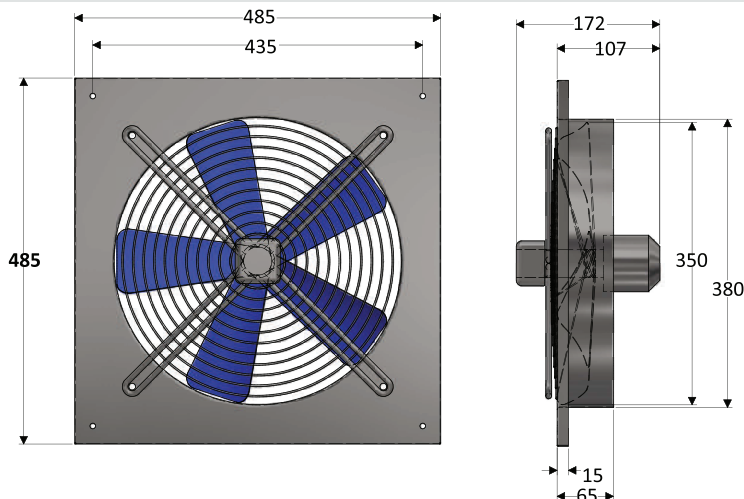
Voltage/ Frequency (V/Hz)	230/60	Nominal Speed, RPM	1455
Current, A	0.78	Air Flow [m³/s]	0.77
Maximum Motor input Watt	233.73	Insulation Class	F
Capacitor μF	4	Protection	IP 44/54
Ambient Temp. t _a	-20°C - +60°C	Weight, kg	6.3
Performance Curve	B	Number of Blades	5



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Nominal RPM	Air Flow [m³/s]	Static Pressure [Pa]	Sound power level (dB re 10 ⁻¹² watts) Octave Band Center Frequency (Hz)							
			63	125	250	500	1K	2K	4K	8K
1393	0.671	0	67	70	69	65	64	62	58	50
1045	0.238	127	76	76	71	66	64	61	56	47

Nominal RPM	Air Flow [m³/s]	Static Pressure [Pa]	Sound power level (dB re 10 ⁻¹² watts) Octave Band Center Frequency (Hz)							
			63	125	250	500	1K	2K	4K	8K
1599	0.77	0	68	75	71	70	67	65	62	55
1338	0.370	97	80	84	76	69	66	64	61	55



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WMF 400 SERIES

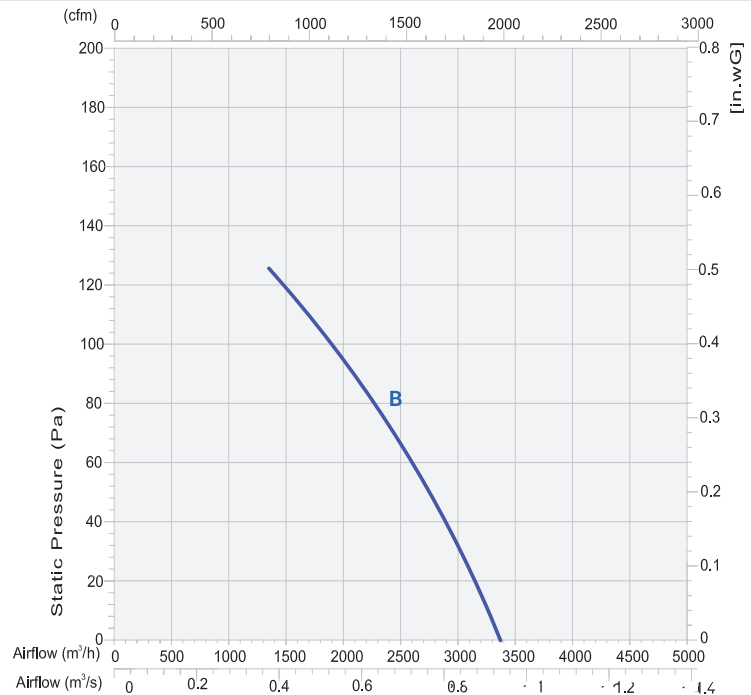
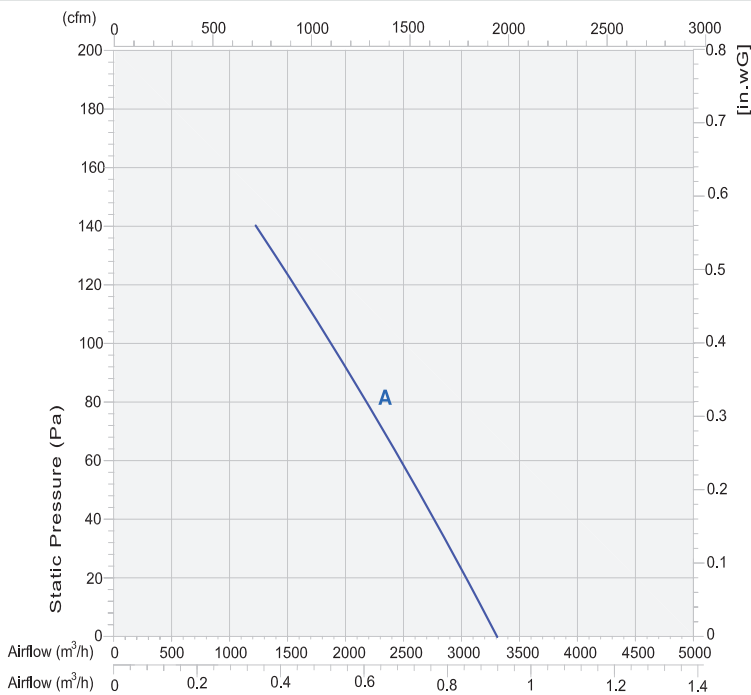
WMF Series Axial Wall Mounted Fan

Technical Data

Type: WMF-400-4SE (50 Hz)			
Voltage/ Frequency (V/Hz)	230/50	Nominal Speed, RPM	1314
Current, A	0.74	Air Flow [m³/s]	0.939
Maximum Motor input Watt	246.23	Insulation Class	F
Capacitor μF	6	Protection	IP 44/54
Ambient Temp. t _a	-20°C - +60°C	Weight, kg	8
Performance Curve	A	Number of Blades	5

Type: WMF-400-4SE (60 Hz)			
Voltage/ Frequency (V/Hz)	230/60	Nominal Speed, RPM	1315
Current, A	1.14	Air Flow [m³/s]	1.070
Maximum Motor input Watt	327	Insulation Class	F
Capacitor μF	6	Protection	IP 44/54
Ambient Temp. t _a	-20°C - +60°C	Weight, kg	8
Performance Curve	B	Number of Blades	5

Performance Curve

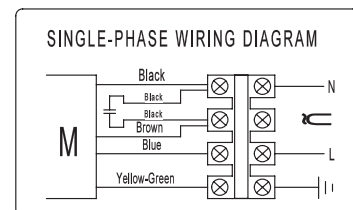
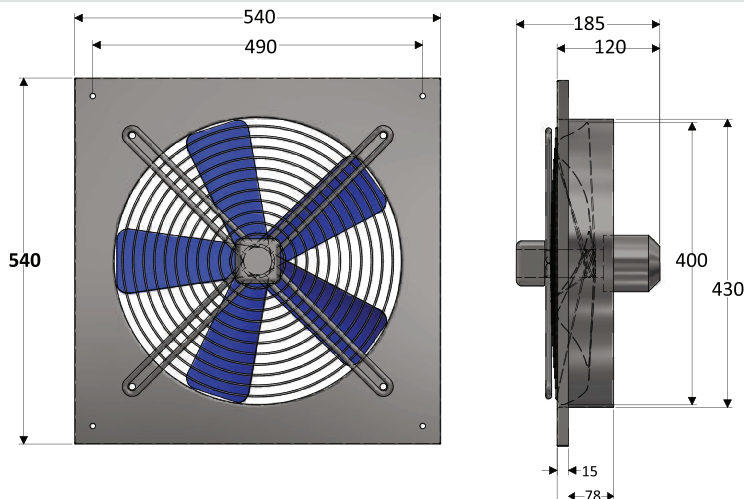


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Nominal RPM	Air Flow [m³/s]	Static Pressure [Pa]	Sound power level (dB re 10 ⁻¹² watts) Octave Band Center Frequency (Hz)							
			63	125	250	500	1K	2K	4K	8K
1400	0.939	0	73	82	75	70	70	66	63	62
1293	0.368	139	77	79	76	71	68	65	62	57

Nominal RPM	Air Flow [m³/s]	Static Pressure [Pa]	Sound power level (dB re 10 ⁻¹² watts) Octave Band Center Frequency (Hz)							
			63	125	250	500	1K	2K	4K	8K
1609	1.070	0	75	77	76	76	73	70	67	61
1338	0.426	129	77	79	79	74	69	66	63	55

Dimensional Drawings



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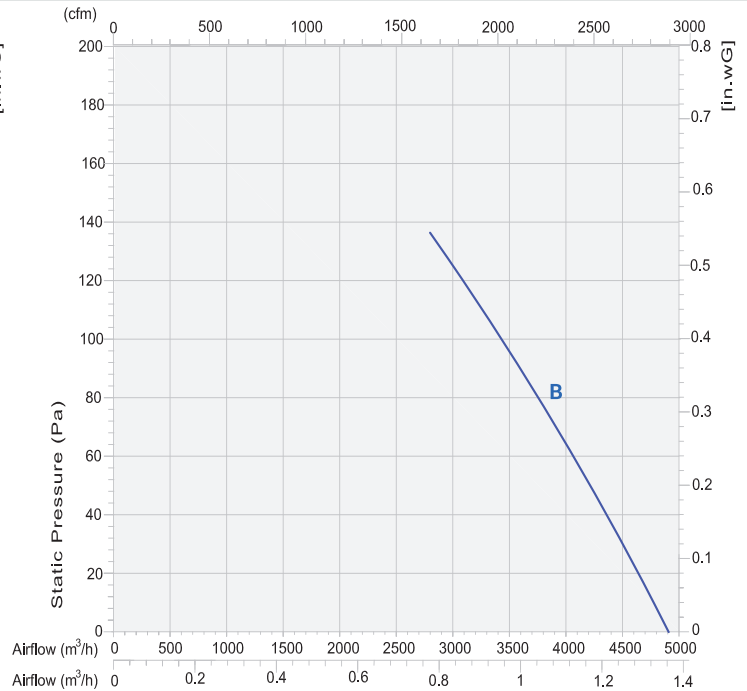
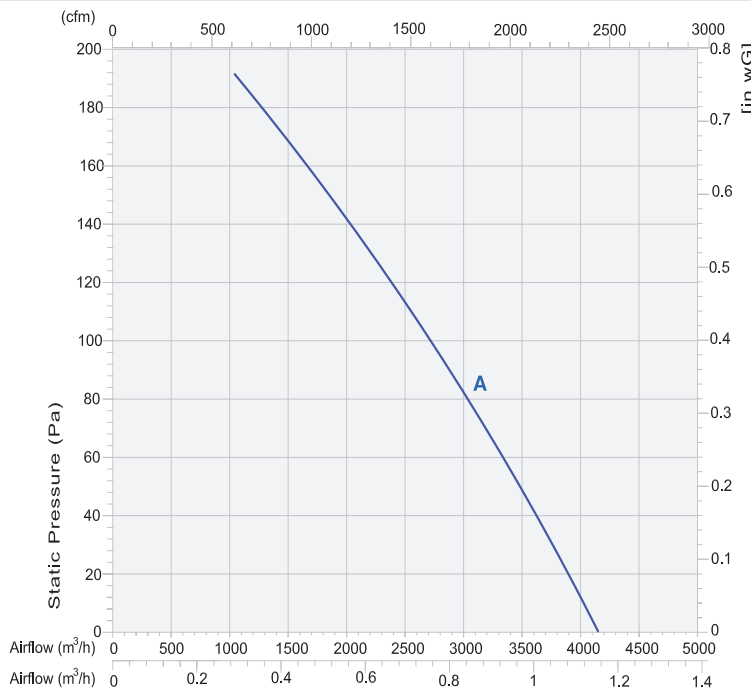
All dimension in mm (±2 tolerance limit considered for all dimensions)

Technical Data

Type: WMF-450-4SE (50 Hz)			
Voltage/ Frequency (V/Hz)	230/50	Nominal Speed, RPM	1329
Current, A	0.92	Air Flow [m³/s]	1.156
Maximum Motor input Watt	358.24	Insulation Class	F
Capacitor μ F	7	Protection	IP 44/54
Ambient Temp. t_a	-20°C - +60°C	Weight, kg	10
Performance Curve	A	Number of Blades	5

Type: WMF-450-4SE (60 Hz)			
Voltage/ Frequency (V/Hz)	230/60	Nominal Speed, RPM	1437
Current, A	1.27	Air Flow [m³/s]	1.383
Maximum Motor input Watt	404.20	Insulation Class	F
Capacitor μ F	7	Protection	IP 44/54
Ambient Temp. t_a	-20°C - +60°C	Weight, kg	10
Performance Curve	B	Number of Blades	5

Performance Curve

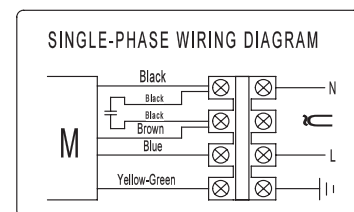
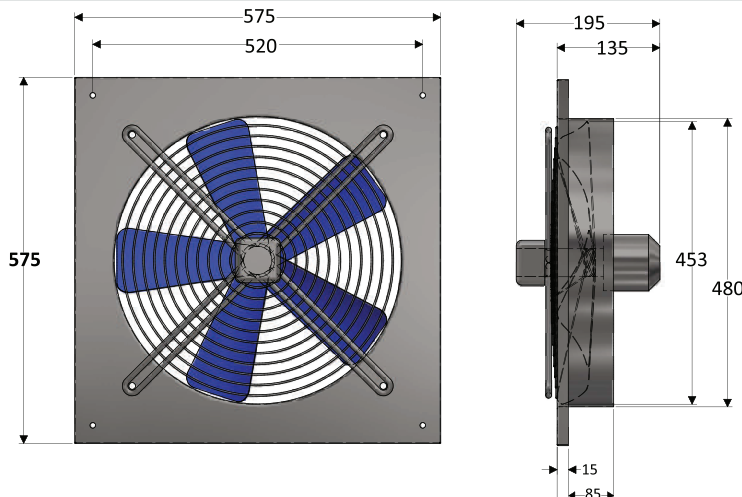


*Performance ratings do not include the effects of appurtenances(accessories). Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance certified is for installation type A- Free inlet, Free outlet. Value shown are for inlet Lwi sound power levels for installation type A: Free inlet, Free outlet. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA international Standard 301.

Nominal RPM	Air Flow [m³/s]	Static Pressure [Pa]	Sound power level (dB re 10 ⁻¹² watts) Octave Band Center Frequency (Hz)							
			63	125	250	500	1K	2K	4K	8K
1418	1.156	0	82	79	76	73	71	69	66	60
1284	0.419	162	79	81	79	73	70	67	65	59

Nominal RPM	Air Flow [m³/s]	Static Pressure [Pa]	Sound power level (dB re 10 ⁻¹² watts) Octave Band Center Frequency (Hz)							
			63	125	250	500	1K	2K	4K	8K
1633	1.383	0	79	81	79	78	75	73	70	65
1356	0.521	156	78	79	79	76	72	69	66	60

Dimensional Drawings



"Twin City Fan & Blower certifies that the model WMF-450-4SE Series 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 AMCA publication 311 and comply with the requirements of the AMCA Certified Ratings Program". The AMCA certified ratings seal applies to the FEI for all models of WMF-450-4SE.



All dimension in mm (±2 tolerance limit considered for all dimensions)

Technical Data

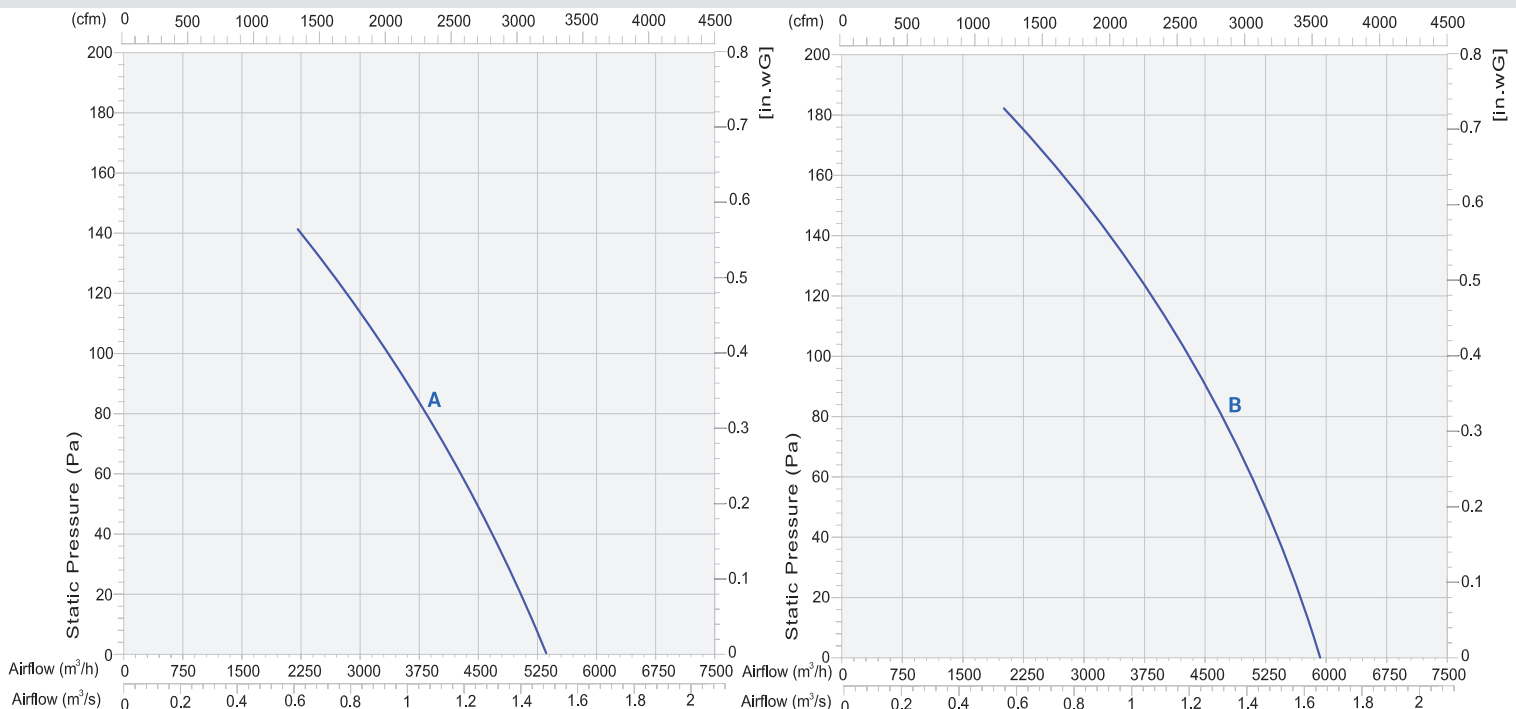
Type: WMF-500-4SE (50 Hz)

Voltage/ Frequency (V/Hz)	230/50	Nominal Speed, RPM	1326
Current, A	1.35	Air Flow [m³/s]	1.489
Maximum Motor input Watt	401.57	Insulation Class	F
Capacitor μ F	10	Protection	IP 44/54
Ambient Temp. t_a	-20°C - +60°C	Weight, kg	14
Performance Curve	A	Number of Blades	5

Type: WMF-500-4SE (60 Hz)

Voltage/ Frequency (V/Hz)	230/60	Nominal Speed, RPM	1346
Current, A	2.02	Air Flow [m³/s]	1.703
Maximum Motor input Watt	611.15	Insulation Class	F
Capacitor μ F	10	Protection	IP 44/54
Ambient Temp. t_a	-20°C - +60°C	Weight, kg	14
Performance Curve	B	Number of Blades	5

Performance Curve

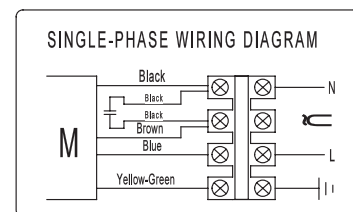
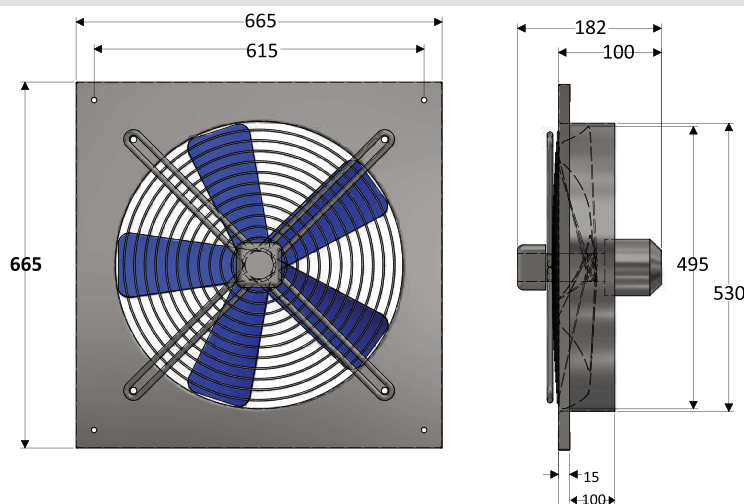


"Performance ratings do not include the effects of appurtenances (accessories). Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance certified is for installation type A- Free inlet, Free outlet. Value shown are for inlet Lw sound power levels for installation type A: Free inlet, Free outlet. The sound power level ratings shown are in decibels, referred to 10^{-12} watts, calculated per AMCA international Standard 301.

Nominal RPM	Air Flow [m³/s]	Static Pressure [Pa]	Sound power level (dB re 10 ⁻¹² watts) Octave Band Center Frequency (Hz)							
			63	125	250	500	1K	2K	4K	8K
1387	1.470	0	73	78	79	73	75	72	68	62
1334	0.690	146	81	83	84	76	74	72	67	60

Nominal RPM	Air Flow [m³/s]	Static Pressure [Pa]	Sound power level (dB re 10 ⁻¹² watts) Octave Band Center Frequency (Hz)							
			63	125	250	500	1K	2K	4K	8K
1584	1.703	0	74	81	80	81	78	75	72	66
1368	0.624	183	79	85	82	76	75	72	68	62

Dimensional Drawings



"Twin City Fan & Blower certifies that the model WMF-500-4SE Series 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 AMCA publication 311 and comply with the requirements of the AMCA Certified Ratings Program". The AMCA certified ratings seal applies to the FEI for all models of WMF-500-4SE.



Technical Data

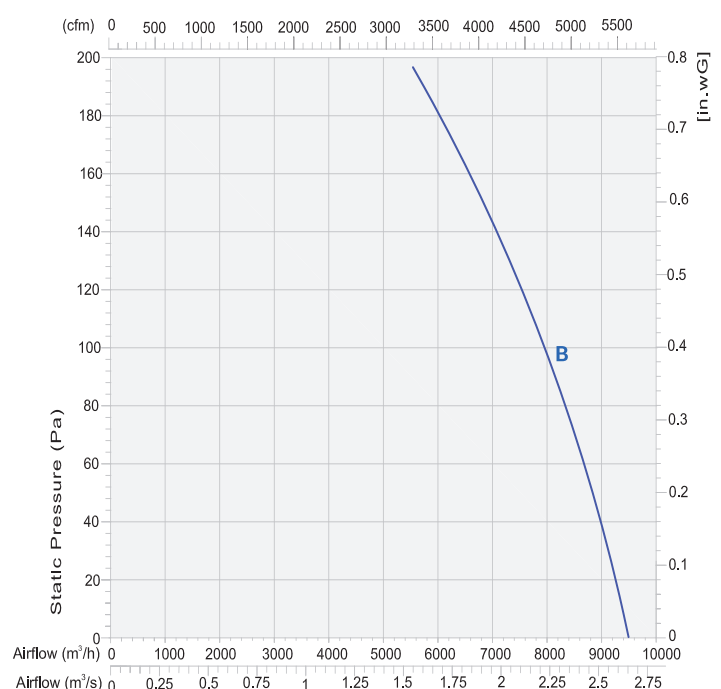
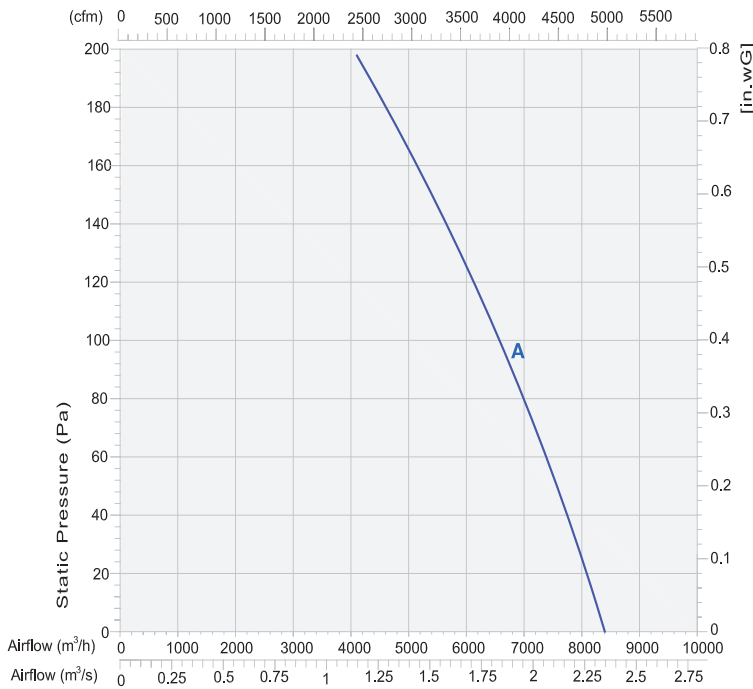
Type: WMF-630-4SE (50 Hz)

Voltage/ Frequency (V/Hz)	230/50	Nominal Speed, RPM	1378
Current, A	2.92	Air Flow [m³/s]	2.34
Maximum Motor input Watt	914.53	Insulation Class	F
Capacitor μF	16	Protection	IP 44/54
Ambient Temp. t _a	-20°C - +60°C	Weight, kg	22
Performance Curve	A	Number of Blades	5

Type: WMF-630-4SE (60 Hz)

Voltage/ Frequency (V/Hz)	230/60	Nominal Speed, RPM	1529
Current, A	4.11	Air Flow [m³/s]	2.683
Maximum Motor input Watt	1271.29	Insulation Class	F
Capacitor μF	16	Protection	IP 44/54
Ambient Temp. t _a	-20°C - +60°C	Weight, kg	22
Performance Curve	B	Number of Blades	5

Performance Curve

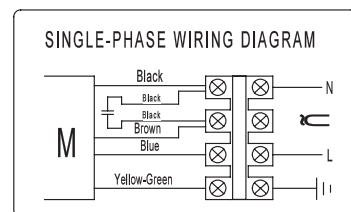
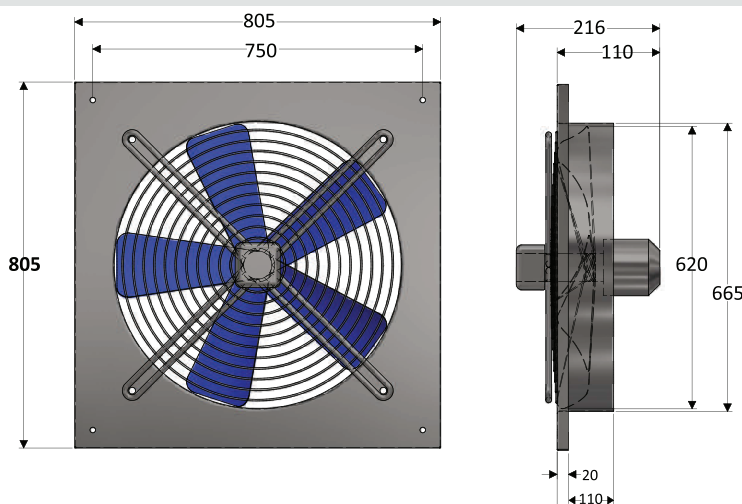


"Performance ratings do not include the effects of appurtenances(accessories). Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance certified is for installation type A- Free inlet, Free outlet. Value shown are for inlet Lwi sound power levels for installation type A: Free inlet, Free outlet. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA international Standard 301.

Nominal RPM	Air Flow [m³/s]	Static Pressure [Pa]	Sound power level (dB re 10 ⁻¹² watts) Octave Band Center Frequency (Hz)						
			63	125	250	500	1K	2K	4K
1423	2.340	0	81	90	86	84	83	79	73
1342	0.848	240	86	87	87	82	80	77	71

Nominal RPM	Air Flow [m³/s]	Static Pressure [Pa]	Sound power level (dB re 10 ⁻¹² watts) Octave Band Center Frequency (Hz)						
			63	125	250	500	1K	2K	4K
1651	2.683	0	83	93	88	89	87	83	78
1460	1.005	241	87	90	88	86	82	78	72

Dimensional Drawings



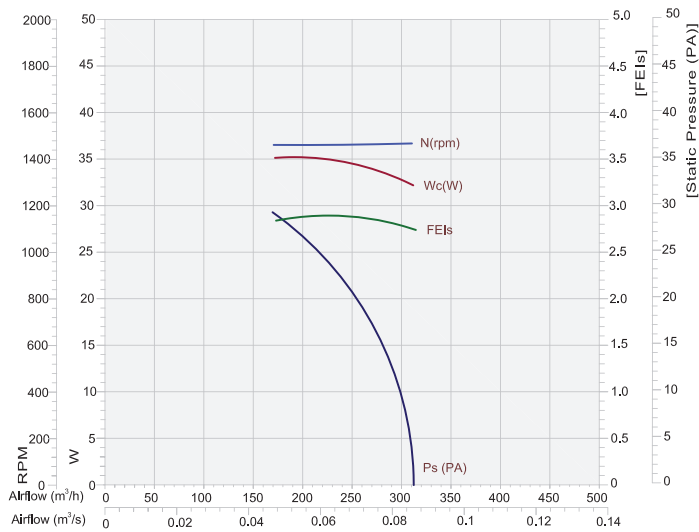
"Twin City Fan & Blower certifies that the model WMF-630-4SE Series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 211 and AMCA publication 311 and comply with the requirements of the AMCA Certified Ratings Program". The AMCA certified ratings seal applies to the FEI for all models of WMF-630-4SE.



FEI - Performance

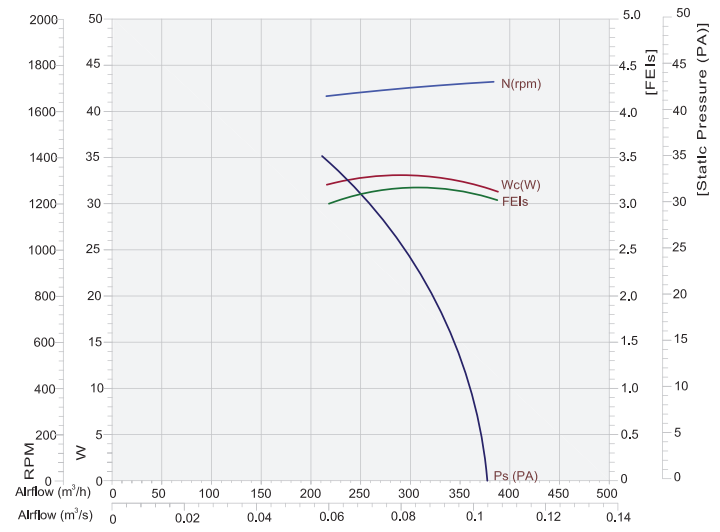
WMF-200-4SE (50 Hz)

Q (m ³ /s)	P _s (PA)	N (rpm)	W _c (W)	FEI _s
0.091	0	1443	32	2.79
0.081	14	1443	32	2.89
0.075	23	1430	34	2.95
0.063	24	1436	34	2.86
0.048	28	1433	34	2.77



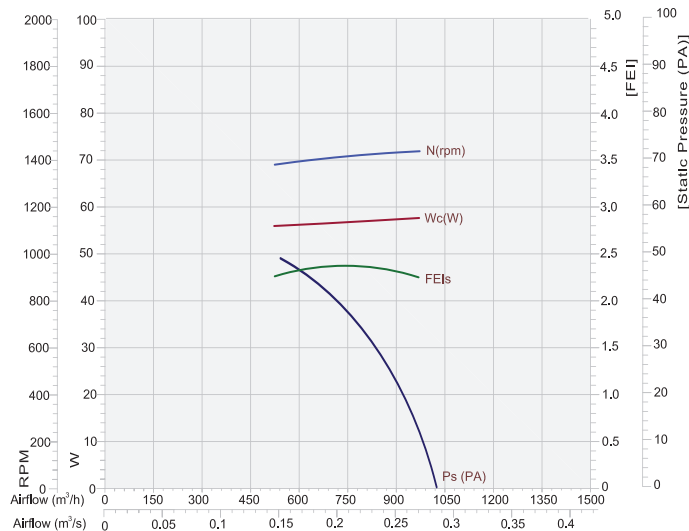
WMF-200-4SE (60 Hz)

Q (m ³ /s)	P _s (PA)	N (rpm)	W _c (W)	FEI _s
0.108	0	1724	32	3.03
0.097	14	1728	32	3.19
0.086	30	1714	33	3.25
0.076	31	1715	33	3.17
0.060	35	1712	33	3.08



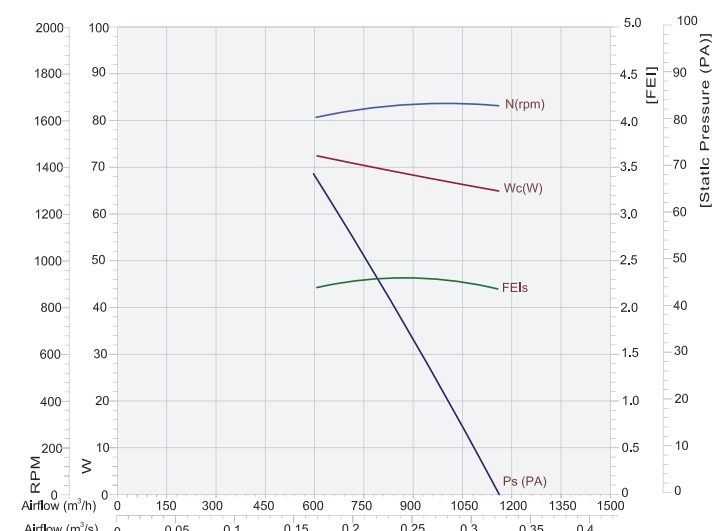
WMF-250-4SE (50 Hz)

Q (m ³ /s)	P _s (PA)	N (rpm)	W _c (W)	FEI _s
0.278	0	1422	58	2.36
0.250	13	1417	59	2.41
0.223	21	1414	59	2.39
0.184	31	1414	56	2.33
0.157	49	1393	58	2.31



WMF-250-4SE (60 Hz)

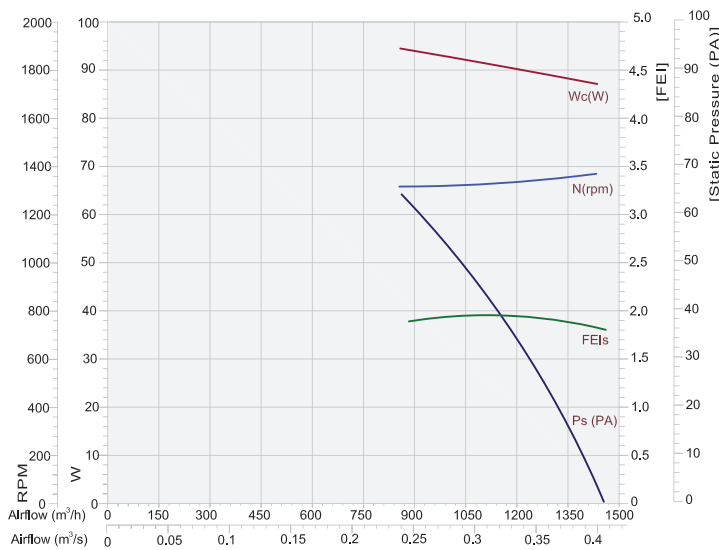
Q (m ³ /s)	P _s (PA)	N (rpm)	W _c (W)	FEI _s
0.326	0	1678	66	2.23
0.294	19	1670	67	2.35
0.257	26	1666	69	2.25
0.215	45	1667	69	2.30
0.177	69	1621	73	2.21



FEI - Performance

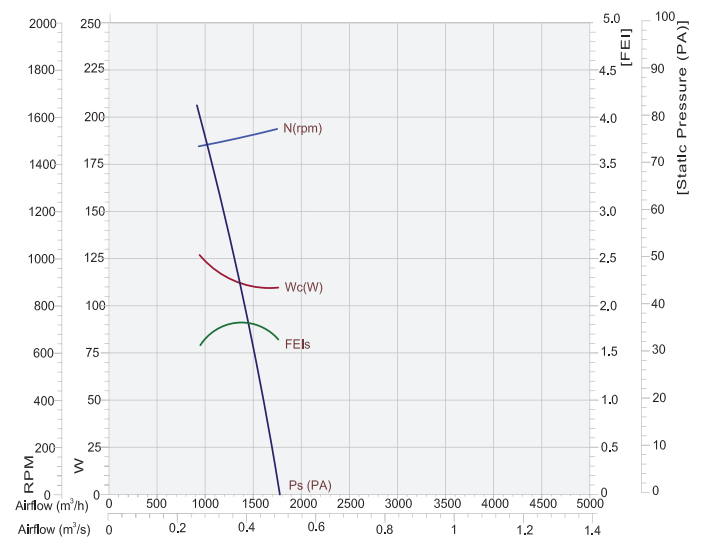
WMF-300-4SE (50 Hz)

Q (m ³ /s)	P _s (PA)	N (rpm)	W _c (W)	FEI _s
0.412	0	1376	87	1.83
0.372	21	1373	93	1.97
0.332	38	1364	89	2.01
0.288	50	1351	92	1.92
0.246	64	1332	96	1.81



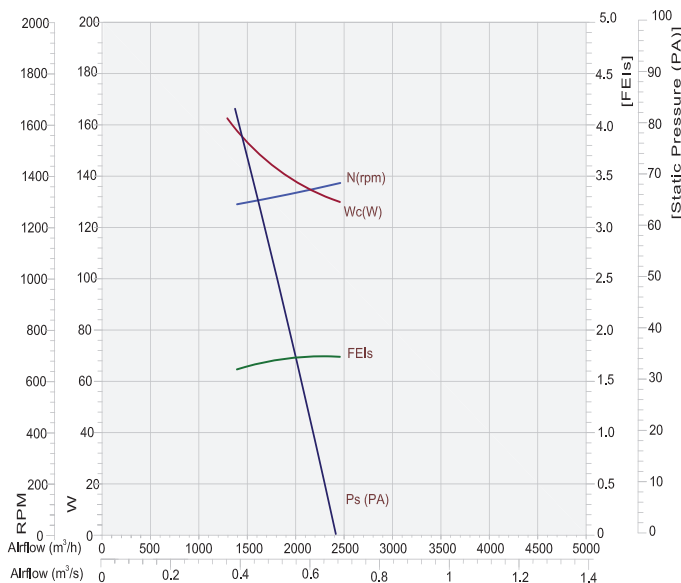
WMF-300-4SE (60 Hz)

Q (m ³ /s)	P _s (PA)	N (rpm)	W _c (W)	FEI _s
0.481	0	1591	112	1.64
0.440	26	1584	113	1.82
0.388	49	1572	116	1.88
0.334	64	1542	120	1.80
0.272	82	1493	127	1.65



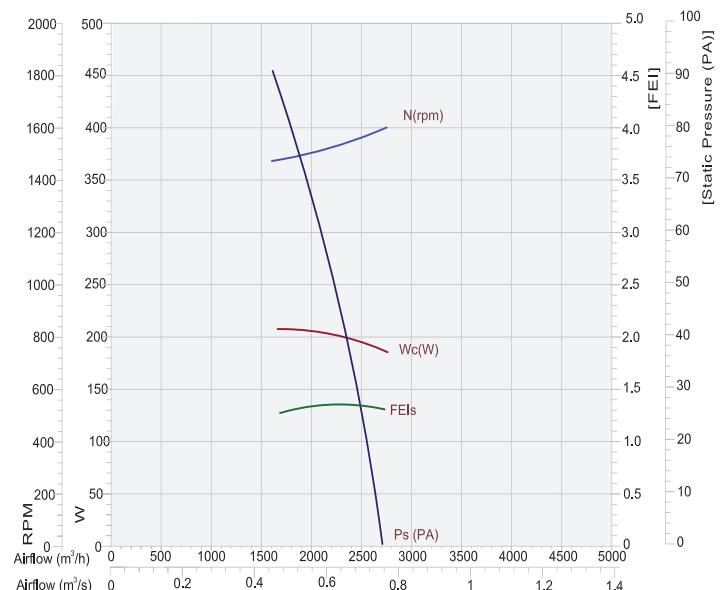
WMF-350-4SE (50 Hz)

Q (m ³ /s)	P _s (PA)	N (rpm)	W _c (W)	FEI _s
0.671	0	1396	130	1.73
0.609	20	1384	136	1.79
0.549	39	1372	141	1.82
0.476	60	1361	146	1.79
0.394	84	1324	162	1.61



WMF-350-4SE (60 Hz)

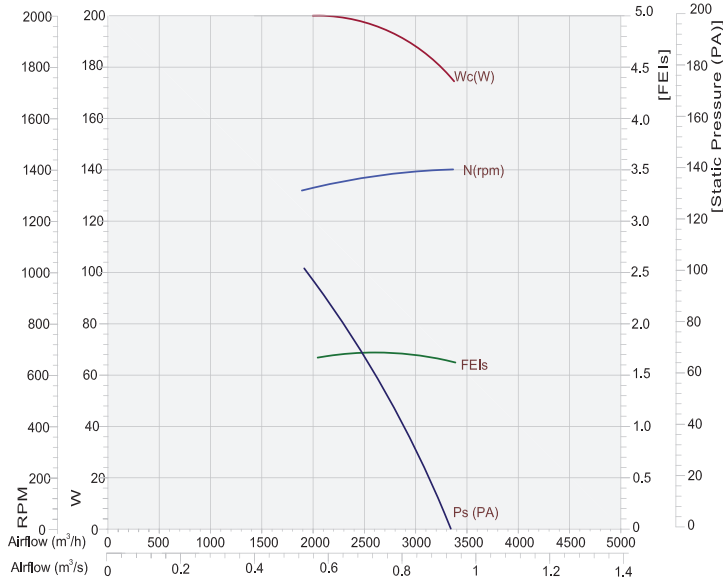
Q (m ³ /s)	P _s (PA)	N (rpm)	W _c (W)	FEI _s
0.770	0	1600	183	1.35
0.692	26	1570	193	1.44
0.608	54	1539	200	1.49
0.537	73	1509	204	1.47
0.450	91	1455	216	1.34



FEI - Performance

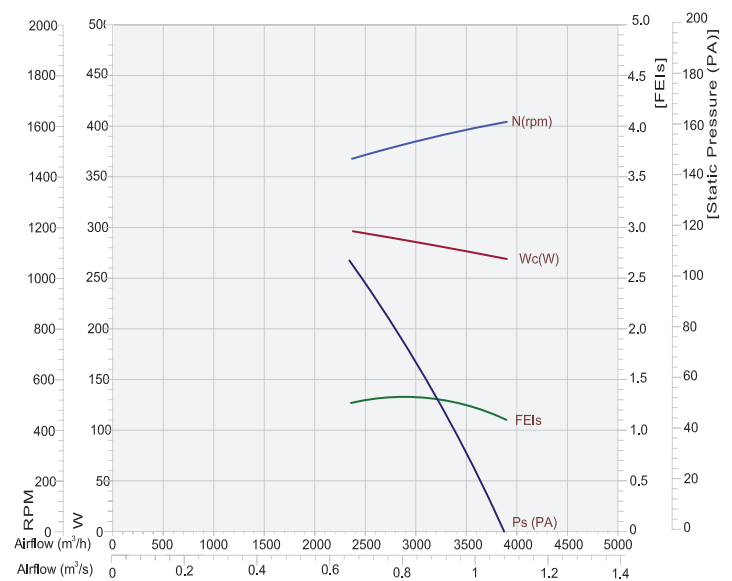
WMF-400-4SE (50 Hz)

Q (m ³ /s)	P _s (PA)	N (rpm)	W _c (W)	FEI _s
0.939	0	1403	175	1.63
0.860	20	1394	182	1.70
0.774	49	1381	190	1.81
0.670	75	1367	198	1.78
0.576	96	1354	201	1.69



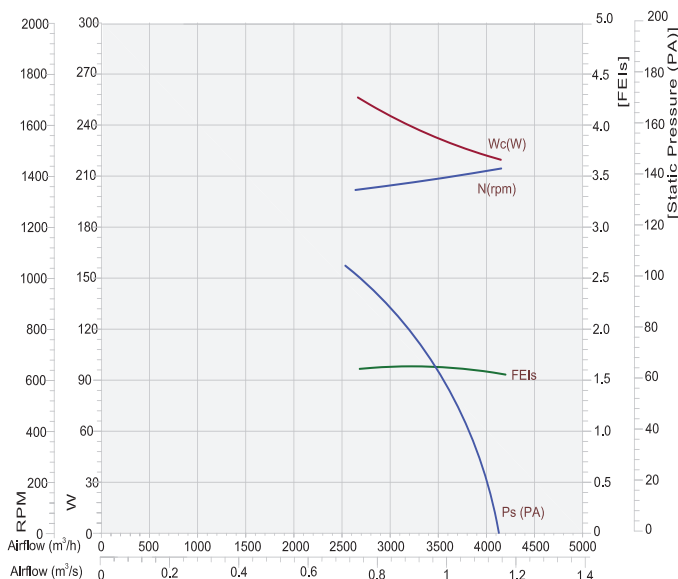
WMF-400-4SE (60 Hz)

Q (m ³ /s)	P _s (PA)	N (rpm)	W _c (W)	FEI _s
1.070	0	1611	264	1.19
0.969	29	1582	275	1.30
0.870	59	1552	284	1.39
0.758	88	1523	290	1.41
0.665	109	1495	297	1.37



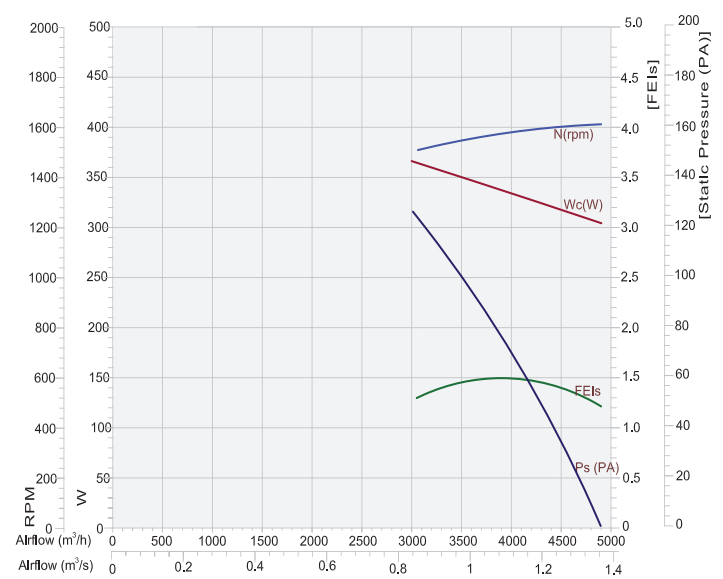
WMF-450-4SE (50 Hz)

Q (m ³ /s)	P _s (PA)	N (rpm)	W _c (W)	FEI _s
1.156	0	1417	211	1.57
1.055	29	1406	222	1.72
0.954	57	1395	235	1.78
0.842	83	1382	246	1.77
0.714	108	1363	262	1.63



WMF-450-4SE (60 Hz)

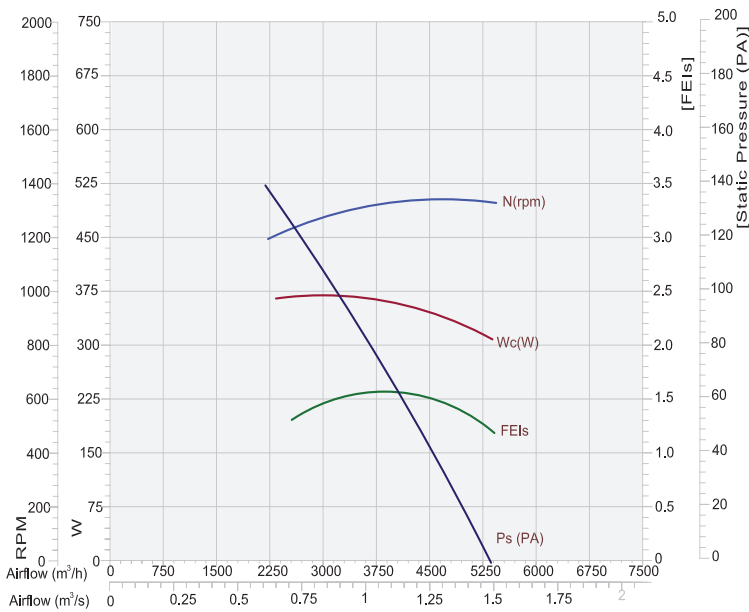
Q (m ³ /s)	P _s (PA)	N (rpm)	W _c (W)	FEI _s
1.383	0	1645	302	1.26
1.268	26	1620	317	1.36
1.136	66	1590	333	1.50
0.984	103	1556	355	1.50
0.836	126	1514	375	1.37



FEI - Performance

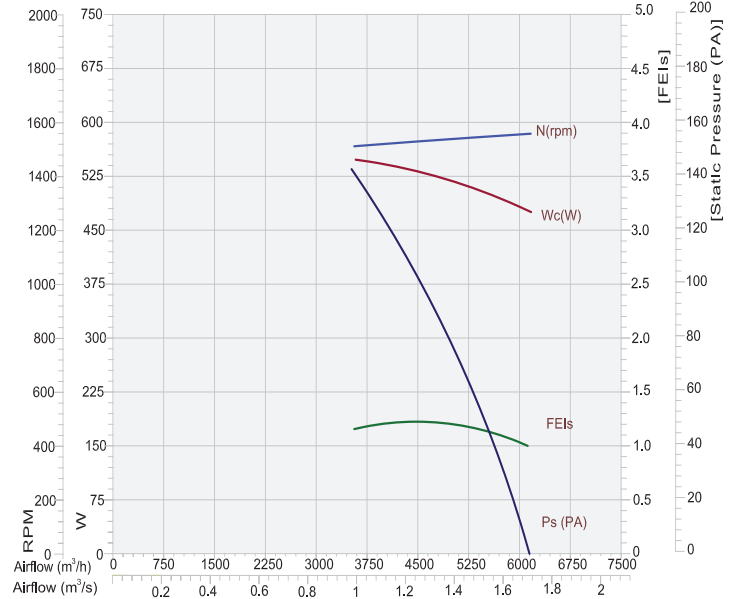
WMF-500-4SE (50 Hz)

Q (m³/s)	P _s (PA)	N (rpm)	W _c (W)	FEI _s
1.489	0	1388	318	1.26
1.376	30	1381	330	1.43
1.246	62	1376	336	1.57
1.111	91	1367	346	1.60
0.913	113	1349	372	1.41



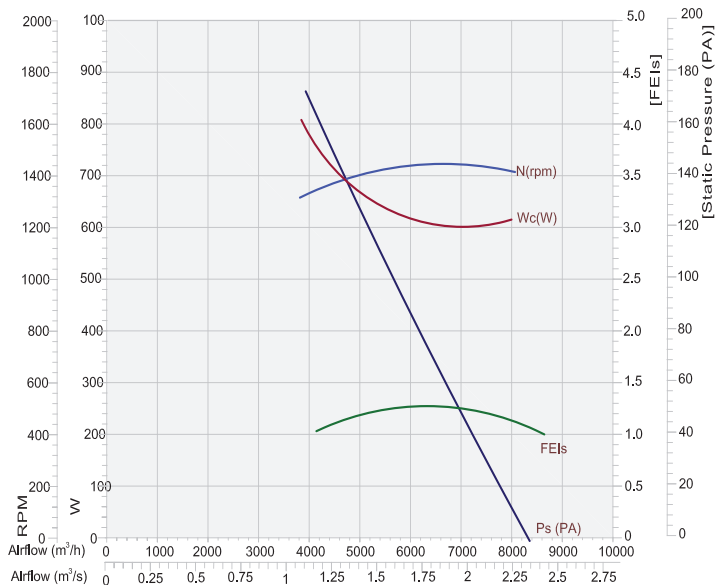
WMF-500-4SE (60 Hz)

Q (m³/s)	P _s (PA)	N (rpm)	W _c (W)	FEI _s
1.703	0	1596	468	1.00
1.553	40	1582	492	1.12
1.386	84	1565	499	1.28
1.219	116	1540	520	1.28
1.037	139	1502	541	1.18



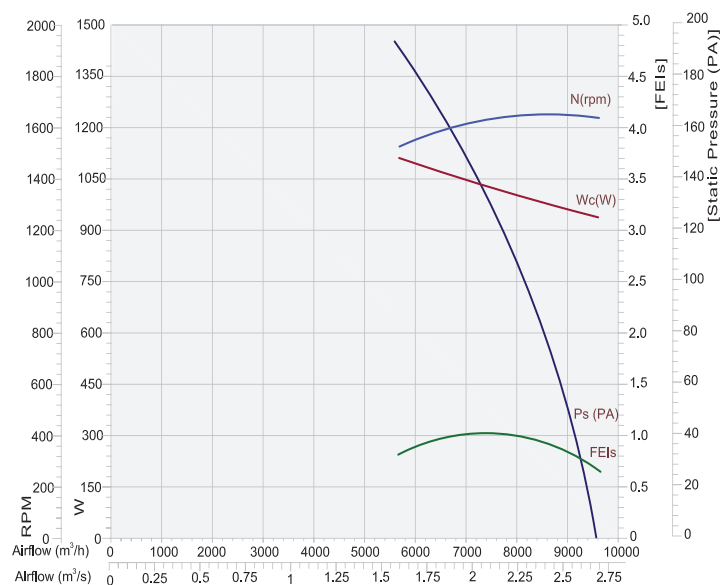
WMF-630-4SE (50 Hz)

Q (m³/s)	P _s (PA)	N (rpm)	W _c (W)	FEI _s
2.340	0	1418	627	1.00
2.141	50	1442	615	1.24
1.895	94	1415	659	1.31
1.617	130	1399	739	1.20
1.400	166	1378	836	1.06



WMF-630-4SE (60 Hz)

Q (m³/s)	P _s (PA)	N (rpm)	W _c (W)	FEI _s
2.683	0	1645	954	0.68
2.442	71	1646	960	1.00
2.149	121	1626	969	1.06
1.872	154	1592	1131	0.96
1.580	195	1529	1271	0.85



› Products Covered

Energy industrial WMF series Fans

› One Year Limited Warranty For Energy Products

Twin City Fan warrants to the original commercial purchaser that the Products will be free from defects in material and workmanship for a period of one (1) year from the date of shipment.

› Exclusive Remedy

Twin City Fan will, at its option, repair or replace (without removal or installation) the affected components of any defective Product; repair or replace (without removal or installation) the entire defective Product; or refund the invoice price of the Product. In all cases, a reasonable time period must be allowed for warranty repairs to be completed.

› What You Must Do

In order to make a claim under these warranties:

- You must be the original commercial purchaser of the Product.
- You must promptly notify us, within the warranty period, of any defect and provide us with any substantiation that we may reasonably request.
- The Product must have been installed and maintained in accordance with good industry practice and any specific Energy industry recommendations.

› Limitations

- In all cases, Twin City Fan reserves the right to fully satisfy its obligations under the Limited Warranties by refunding the invoice price of the defective Product (or, if the Product has been discontinued, of the most nearly comparable current product).
- Twin City Fan reserves the right to furnish a substitute or replacement component or product in the event a Product or any component of the product is discontinued or otherwise unavailable.
- Energy's only obligation with respect to components not manufactured by Twin City Fan shall be to pass through the warranty made by the manufacturer of the defective component.

› Exclusions

These warranties do not cover defects caused by:

- Improper design or operation of the system into which the Product is incorporated.
- Improper installation.
- Accident, abuse or misuse.
- Unreasonable use (including any use for non-commercial purposes, failure to provide reasonable and necessary maintenance as specified by Twin City Fan, misapplication and operation in excess of stated performance characteristics).
- Components not manufactured by Twin City Fan.

› General

The foregoing warranties are exclusive and in lieu of all other warranties except that of title, whether written, oral or implied, in fact or in law (including any warranty of merchantability or fitness for a particular purpose)

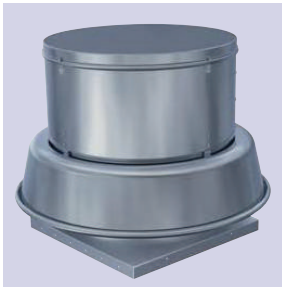
Twin City Fan hereby disclaims any liability for special, punitive, indirect, incidental or consequential damages, including without limitation lost profits or revenues, loss of use of equipment, cost of capital, cost of substitute products, facilities or services, downtime, shutdown or slowdown costs.

The remedies of the original commercial purchaser set forth herein are exclusive and the liability of Energy industry with respect to the Products, whether in contract, tort, warranty, strict liability or other legal theory shall not exceed the invoice price charged by Twin City Fan to its customer for the affected Product at the time the claim is made.

Inquiries regarding these warranties should be sent to: Twin City Fan & Blower

Offers a Wide Range of Products

General & Industrial Ventilation Products



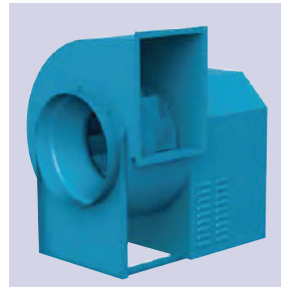
Centrifugal
Roof Exhausters



Centrifugal Roof
Exhausters



Centrifuga Inline Fan



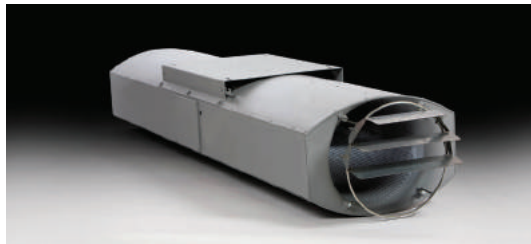
Centrifugal Blowers



Mixed Flow
Inline Fan



Axial Fan



Jet Fans



Axial Wall Fan



Axial Window Fan



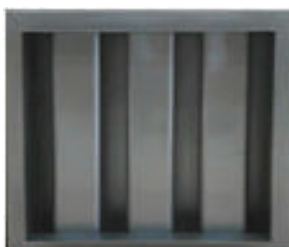
Model BP
Variable Air Volume Box



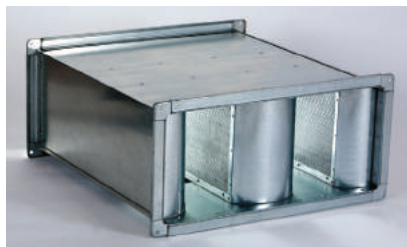
Model TH
Variable Air Volume Box



Ventilation Mangement System



Sand Trap Louvers



Sound Attenuators



HVAC Sensors & Transmitters



Control
Panels

Ecology Unit



INDUSTRIAL PROCESS AND COMMERCIAL VENTILATION SYSTEMS

CENTRIFUGAL FANS | UTILITY SETS | PLENUM & PLUG FANS | INLINE CENTRIFUGAL FANS
MIXED FLOW FANS | TUBEAXIAL & VANEAXIAL FANS | PROPELLER WALL FANS | PROPELLER ROOF VENTILATORS
CENTRIFUGAL ROOF & WALL EXHAUSTERS | CEILING VENTILATORS | GRAVITY VENTILATORS | DUCT BLOWERS
RADIAL BLADED FANS | RADIAL TIP FANS | HIGH EFFICIENCY INDUSTRIAL FANS | PRESSURE BLOWERS
LABORATORY EXHAUST FANS | FILTERED SUPPLY FANS | MANCOOLERS | FIBERGLASS FANS | CUSTOM FANS



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