

Centrifugal Double Width Blowers Model CDB

Performance Supplement



BUILDING VALUE IN AIR.



November
2019

Certifications and Testing



Greenheck India Pvt. Ltd.

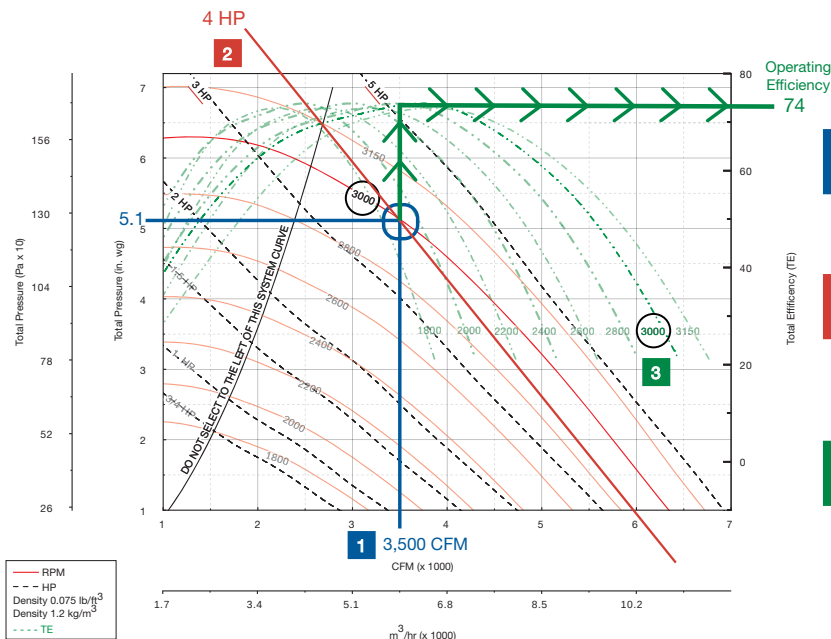
certifies that the CDB models shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



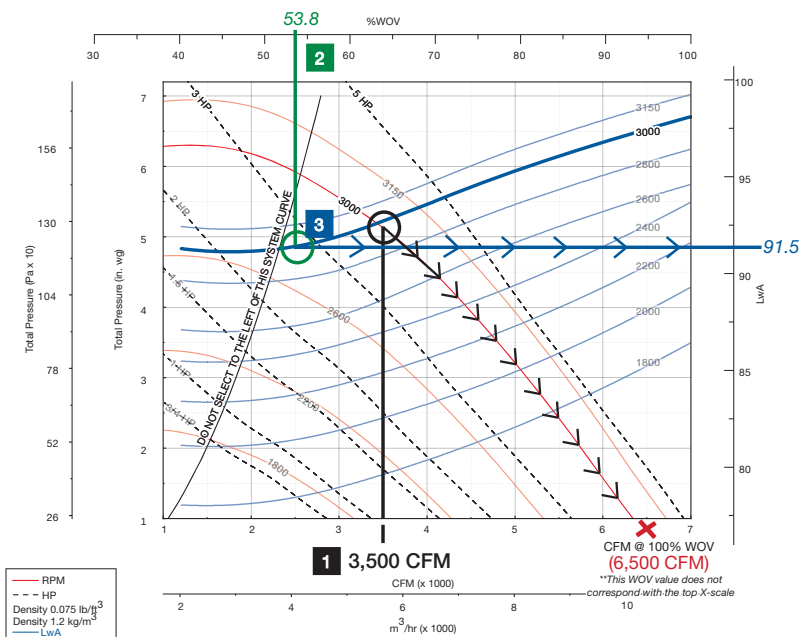
Greenheck India Pvt. Ltd. certifies that the CDB models shown herein are licensed to bear the AMCA FEI Seal. FEI values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEI values for fans with specific motors will vary slightly from those shown.

Steps to use the Air and Sound Graphs

AIR DATA



SOUND DATA

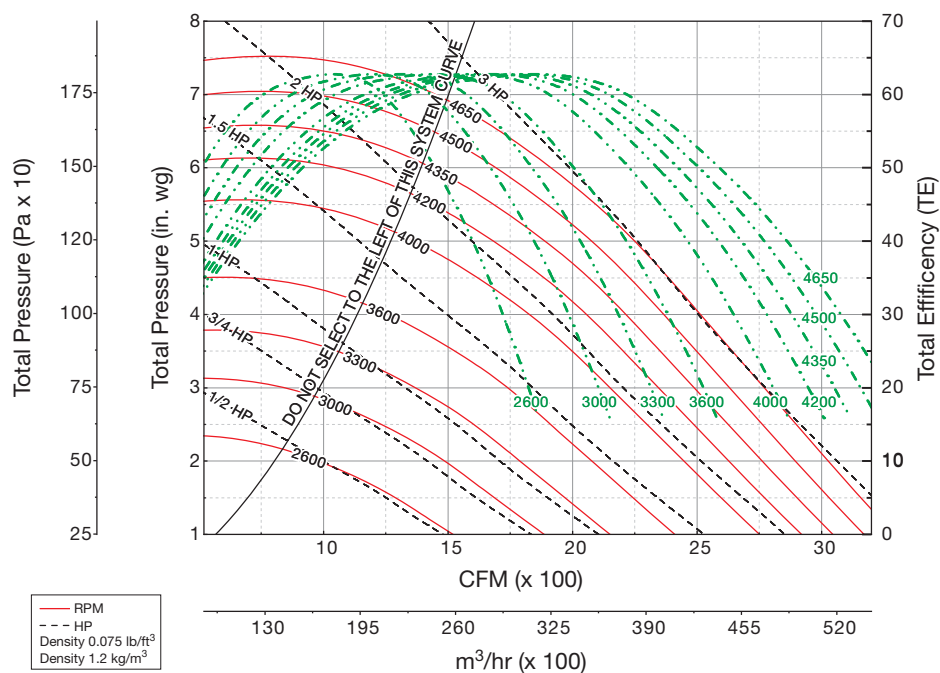


CDB-225 - Belt Drive

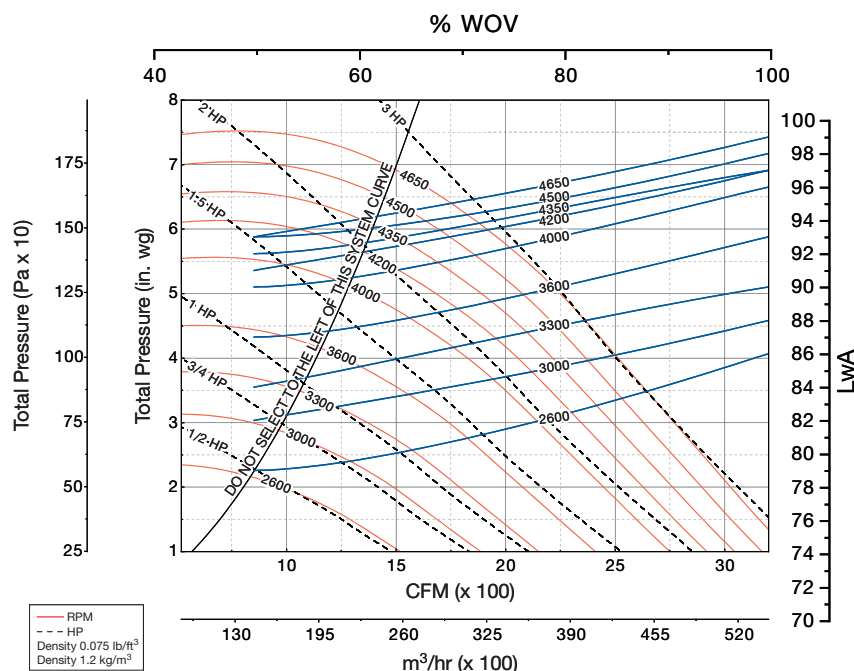
Class I

Specification Data			
Maximum Speed (rpm)	4650	Wheel Diameter (mm)	225
Minimum Size (hp)	0.23	Outlet Area (m ²)	0.082
Maximum Size (hp)	3.02	Outlet Velocity	Volume (m ³ /s) ÷ 0.082

AIR DATA



SOUND DATA



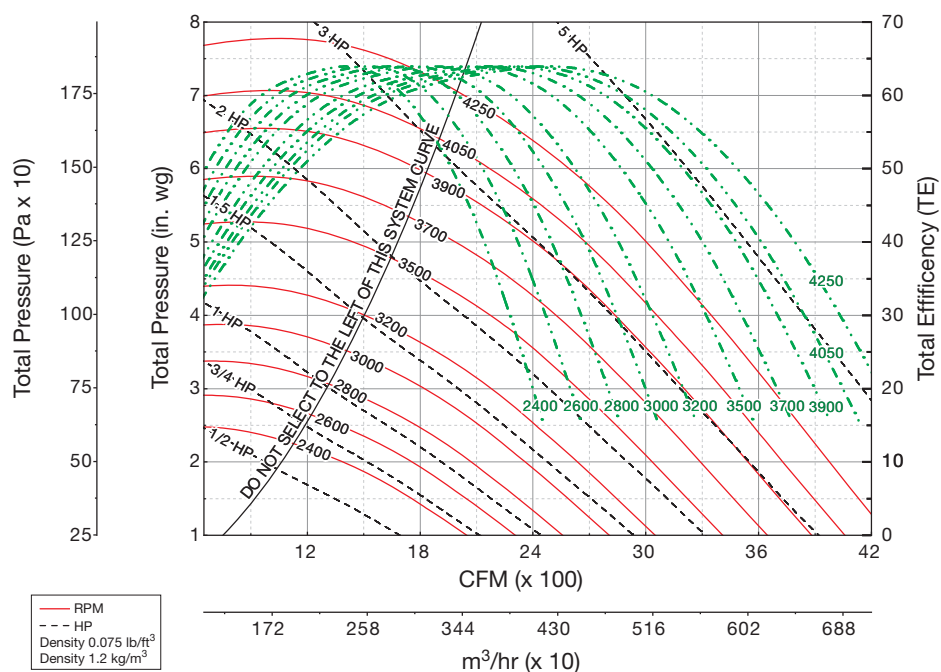
Performance certified is for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LwA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEL_T values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEL_T values for fans with specific motors will vary slightly from those shown.

CDB-250 - Belt Drive

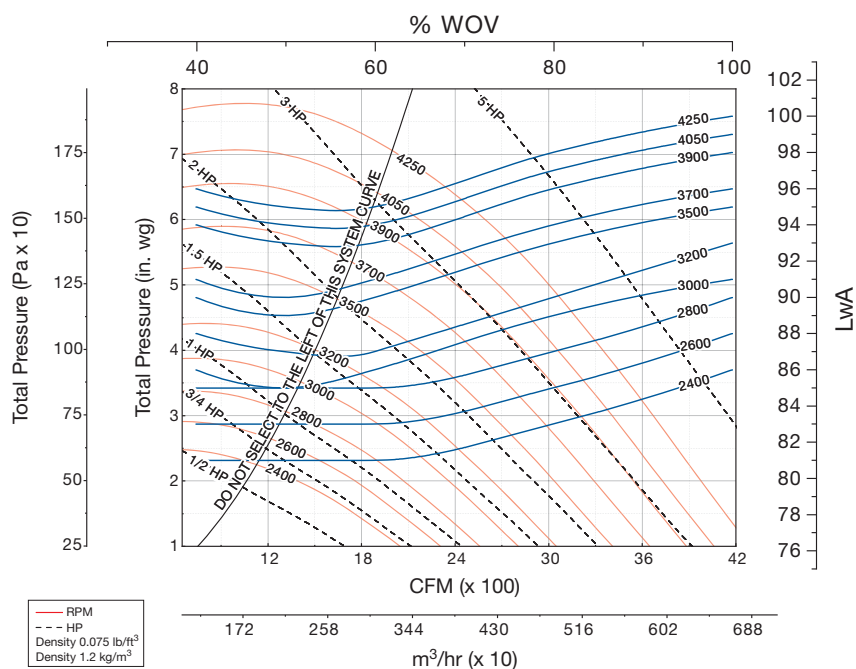
Class I

Specification Data			
Maximum Speed (rpm)	4250	Wheel Diameter (mm)	250
Minimum Size (hp)	0.31	Outlet Area (m ²)	0.109
Maximum Size (hp)	3.92	Outlet Velocity	Volume (m ³ /s) ÷ 0.109

AIR DATA



SOUND DATA



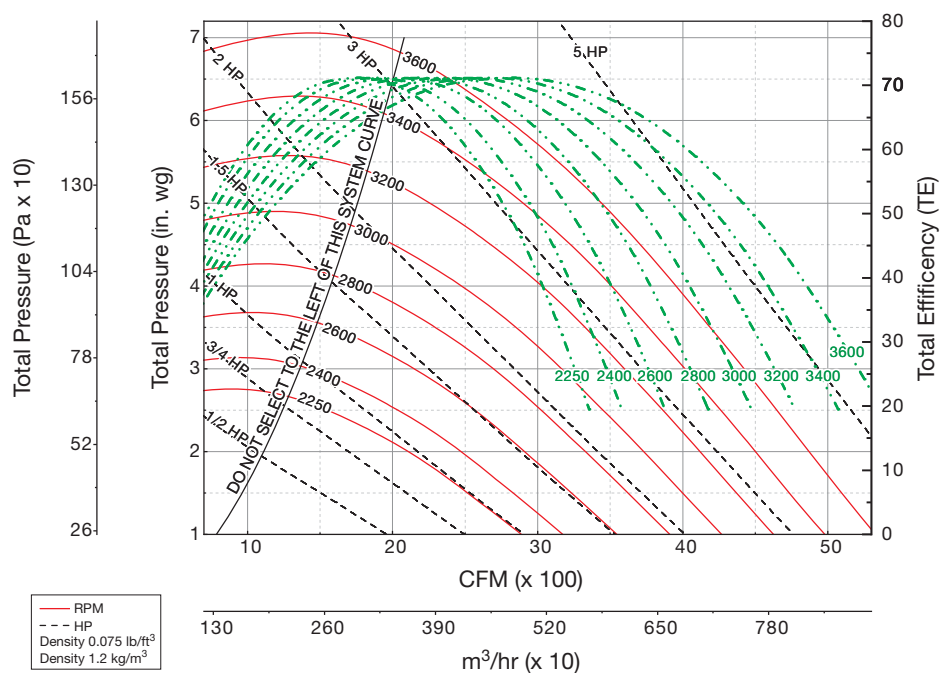
Performance certified is for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LwA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEL_r values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEL_r values for fans with specific motors will vary slightly from those shown.

CDB-280 - Belt Drive

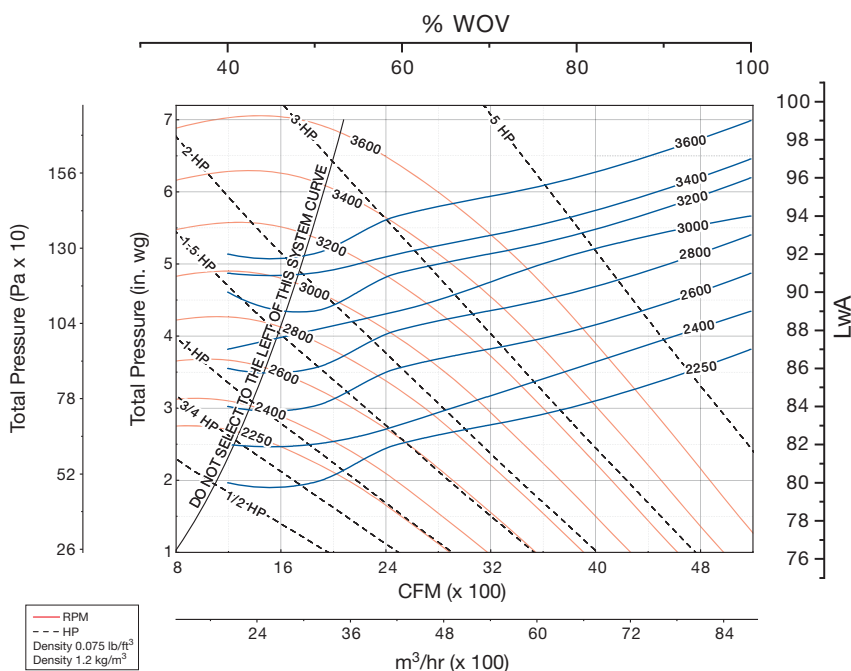
Class I

Specification Data			
Maximum Speed (rpm)	3600	Wheel Diameter (mm)	280
Minimum Size (hp)	0.40	Outlet Area (m ²)	0.130
Maximum Size (hp)	4.06	Outlet Velocity	Volume (m ³ /s) ÷ 0.130

AIR DATA



SOUND DATA



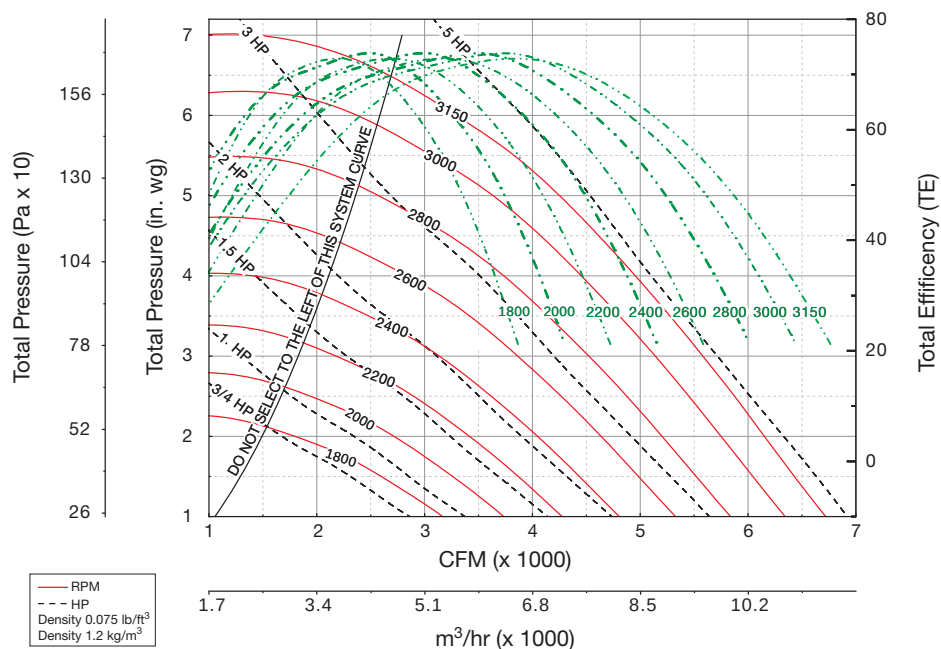
Performance certified for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LWA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEL_T values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEL_T values for fans with specific motors will vary slightly from those shown.

CDB-315 - Belt Drive

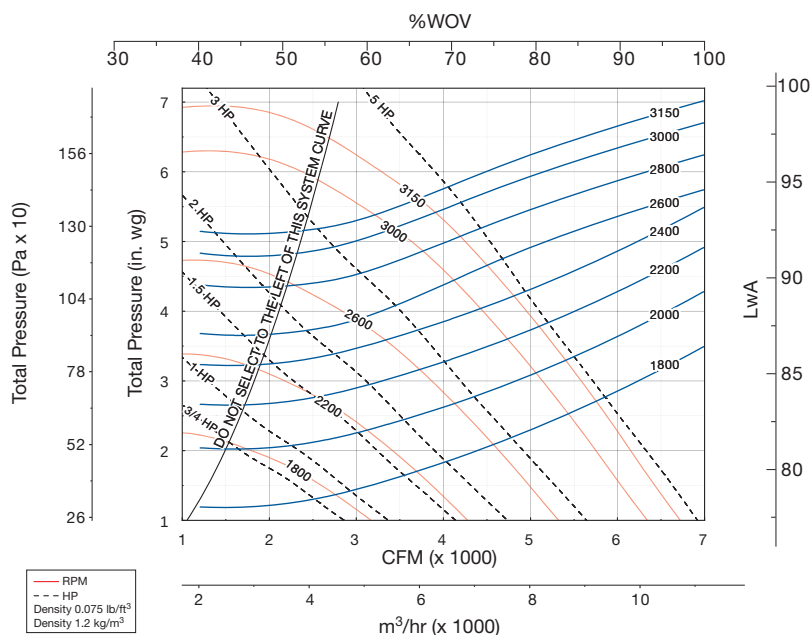
Class I

Specification Data			
Maximum Speed (rpm)	3150	Wheel Diameter (mm)	315
Minimum Size (hp)	0.34	Outlet Area (m ²)	0.163
Maximum Size (hp)	4.79	Outlet Velocity	Volume (m ³ /s) ÷ 0.163

AIR DATA



SOUND DATA



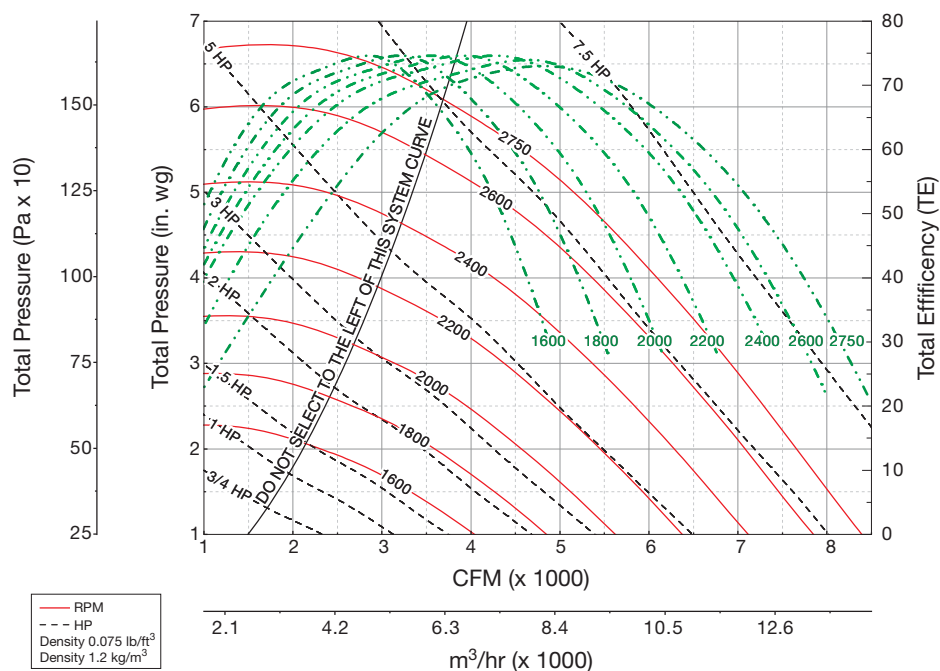
Performance certified is for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LwA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEL_T values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEL_T values for fans with specific motors will vary slightly from those shown.

CDB-355 - Belt Drive

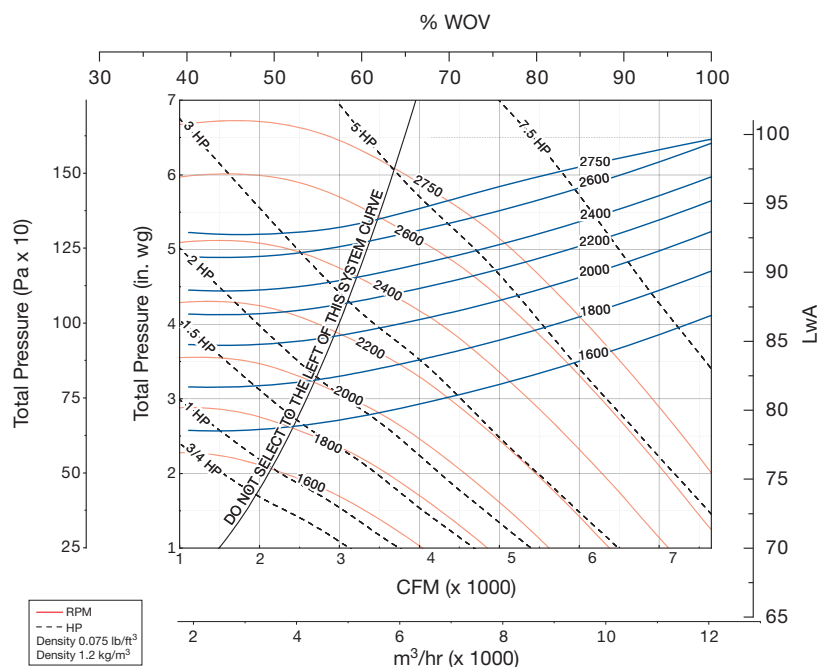
Class I

Specification Data			
Maximum Speed (rpm)	2750	Wheel Diameter (mm)	355
Minimum Size (hp)	0.43	Outlet Area (m ²)	0.204
Maximum Size (hp)	5.80	Outlet Velocity	Volume (m ³ /s) ÷ 0.204

AIR DATA



SOUND DATA



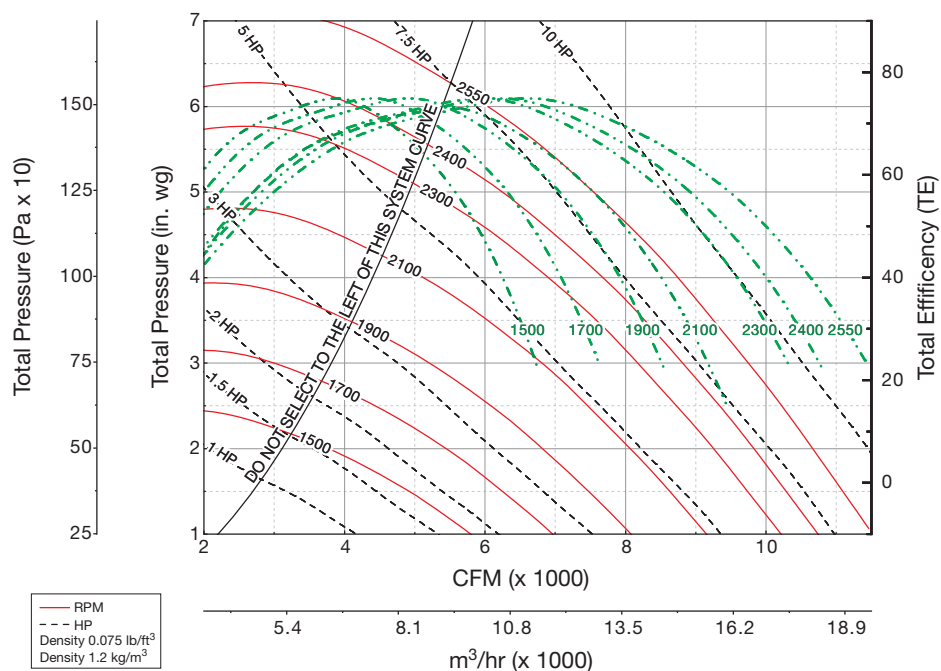
Performance certified is for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LwA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEL_T values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEL_T values for fans with specific motors will vary slightly from those shown.

CDB-400 - Belt Drive

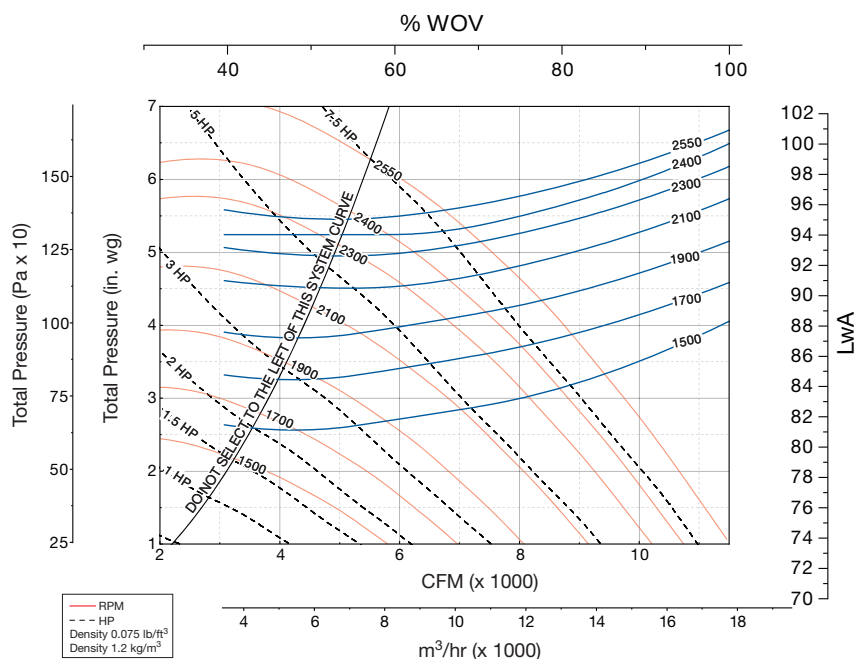
Class I

Specification Data			
Maximum Speed (rpm)	2550	Wheel Diameter (mm)	400
Minimum Size (hp)	0.53	Outlet Area (m ²)	0.258
Maximum Size (hp)	8.63	Outlet Velocity	Volume (m ³ /s) ÷ 0.258

AIR DATA



SOUND DATA



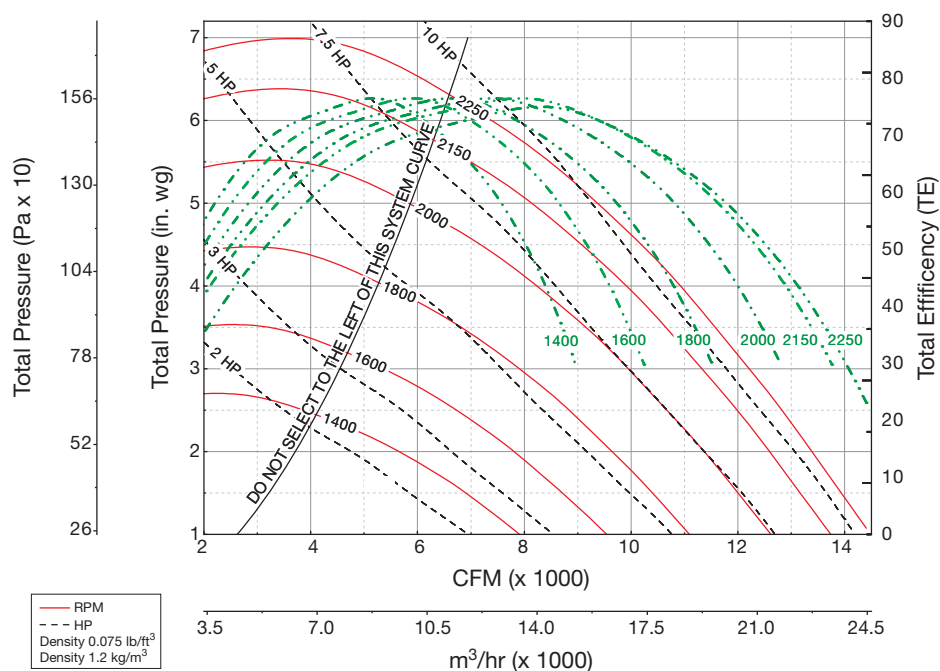
Performance certified is for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LwA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEL_r values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEL_r values for fans with specific motors will vary slightly from those shown.

CDB-450 - Belt Drive

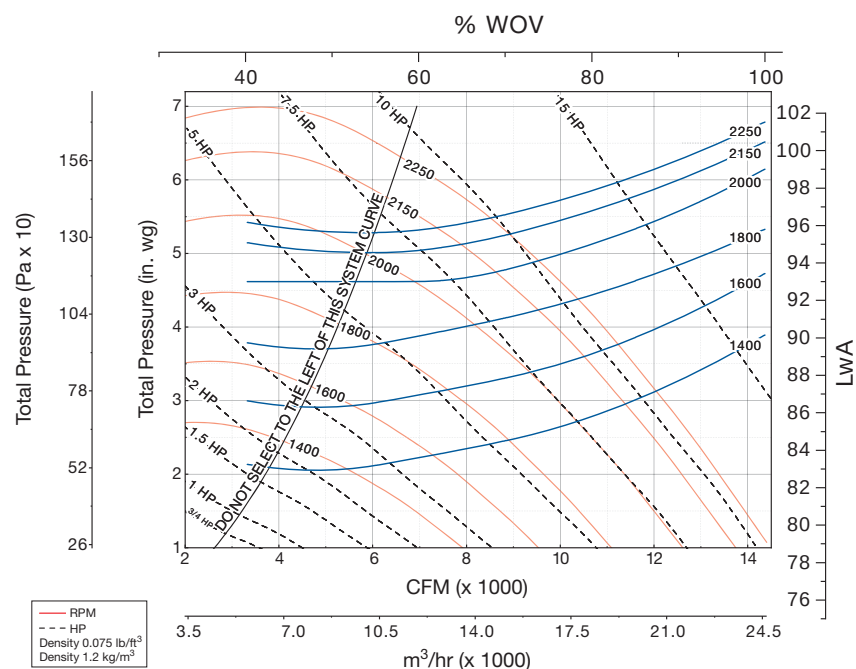
Class I

Specification Data			
Maximum Speed (rpm)	2250	Wheel Diameter (mm)	450
Minimum Size (hp)	0.78	Outlet Area (m ²)	0.323
Maximum Size (hp)	10.68	Outlet Velocity	Volume (m ³ /s) ÷ 0.323

AIR DATA



SOUND DATA



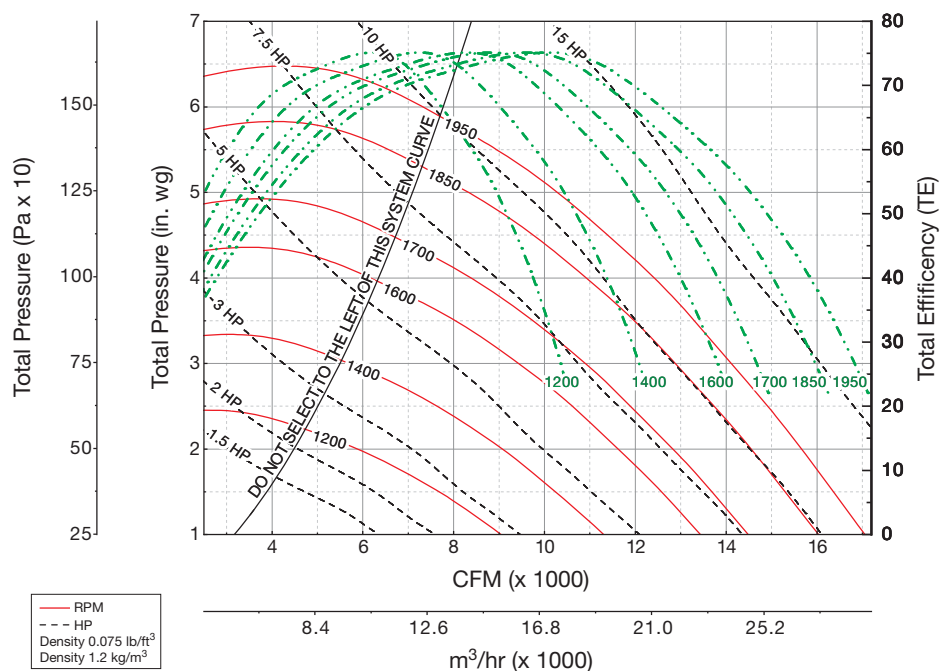
Performance certified is for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LWA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEL_T values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEL_T values for fans with specific motors will vary slightly from those shown.

CDB-500 - Belt Drive

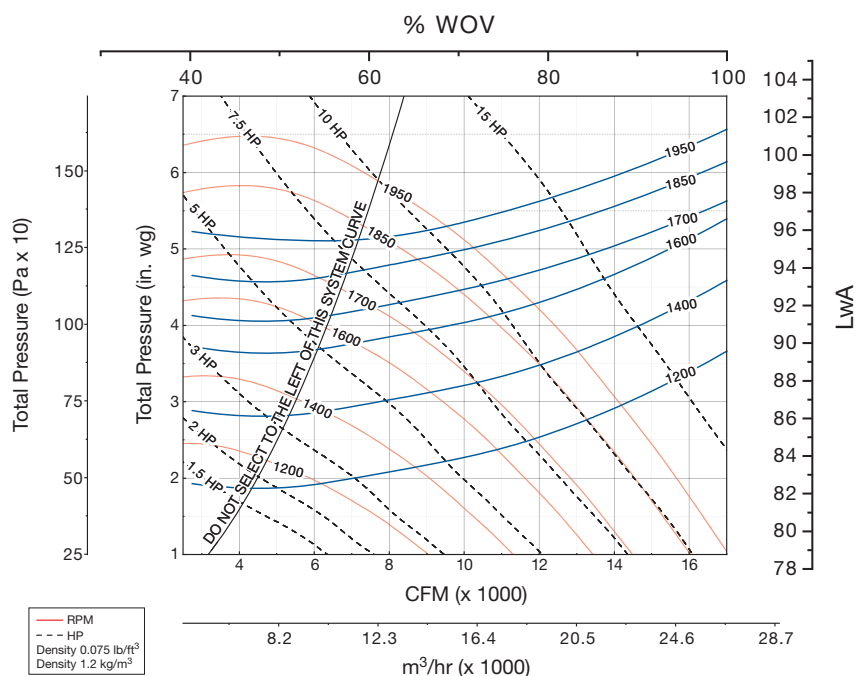
Class I

Specification Data			
Maximum Speed (rpm)	1950	Wheel Diameter (mm)	500
Minimum Size (hp)	0.83	Outlet Area (m ²)	0.407
Maximum Size (hp)	11.78	Outlet Velocity	Volume (m ³ /s) ÷ 0.407

AIR DATA



SOUND DATA



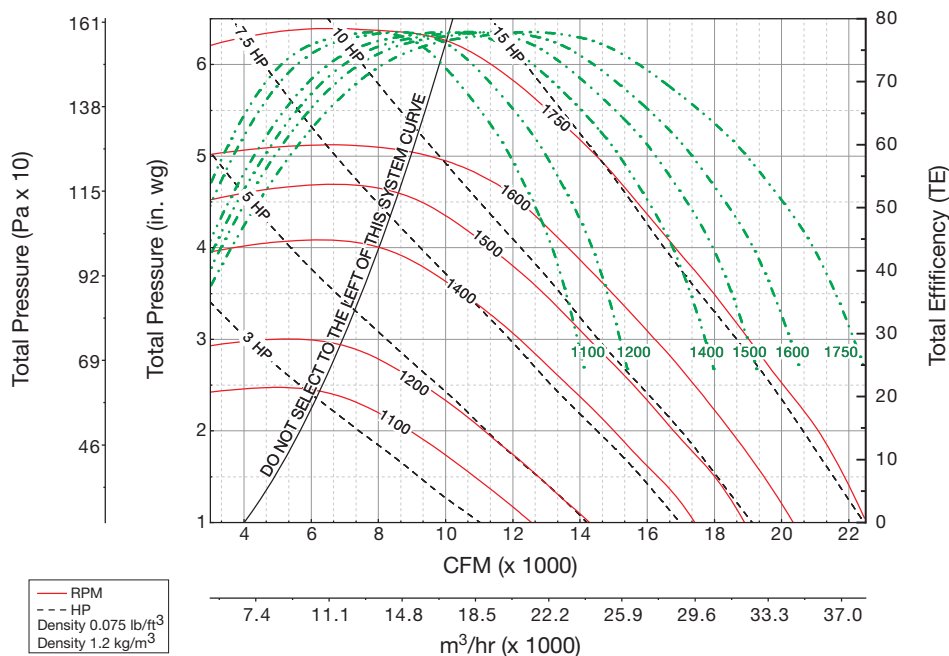
Performance certified is for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LwA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEL_T values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEL_T values for fans with specific motors will vary slightly from those shown.

CDB-560 - Belt Drive

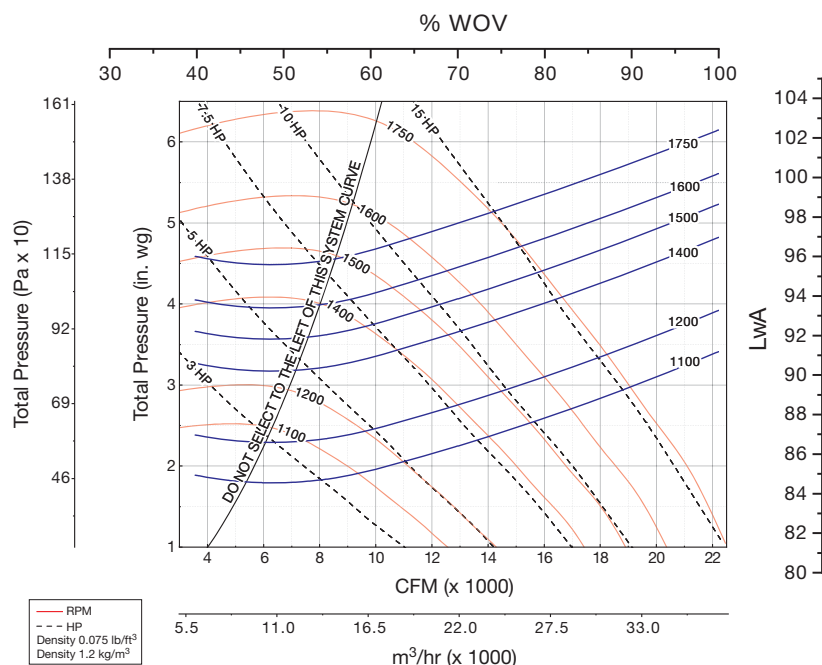
Class I

Specification Data			
Maximum Speed (rpm)	1750	Wheel Diameter (mm)	560
Minimum Size (hp)	1.03	Outlet Area (m ²)	0.509
Maximum Size (hp)	15.74	Outlet Velocity	Volume (m ³ /s) ÷ 0.509

AIR DATA



SOUND DATA



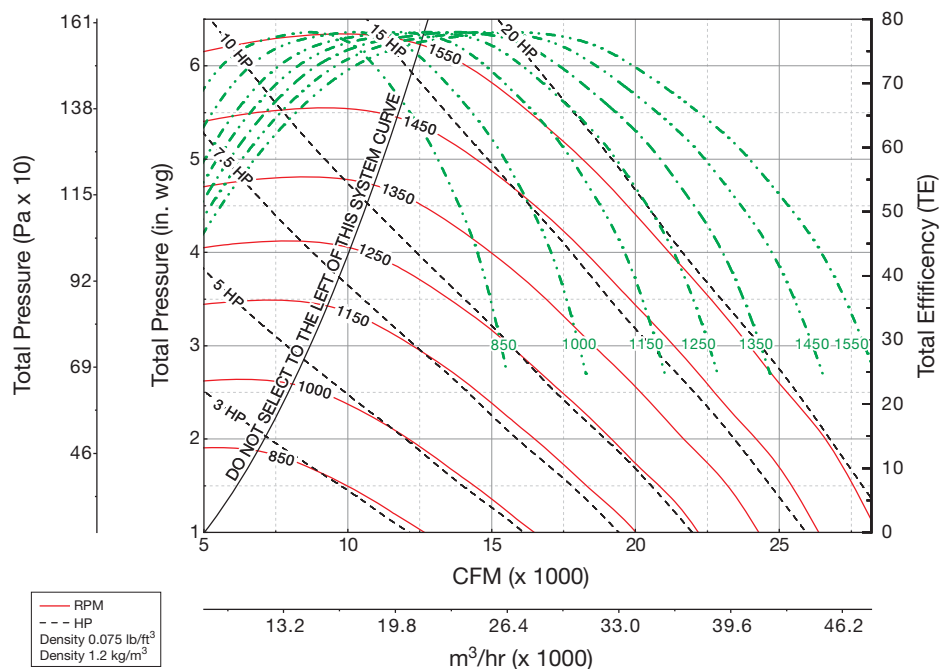
Performance certified is for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LWA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEL_r values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEL_r values for fans with specific motors will vary slightly from those shown.

CDB-630 - Belt Drive

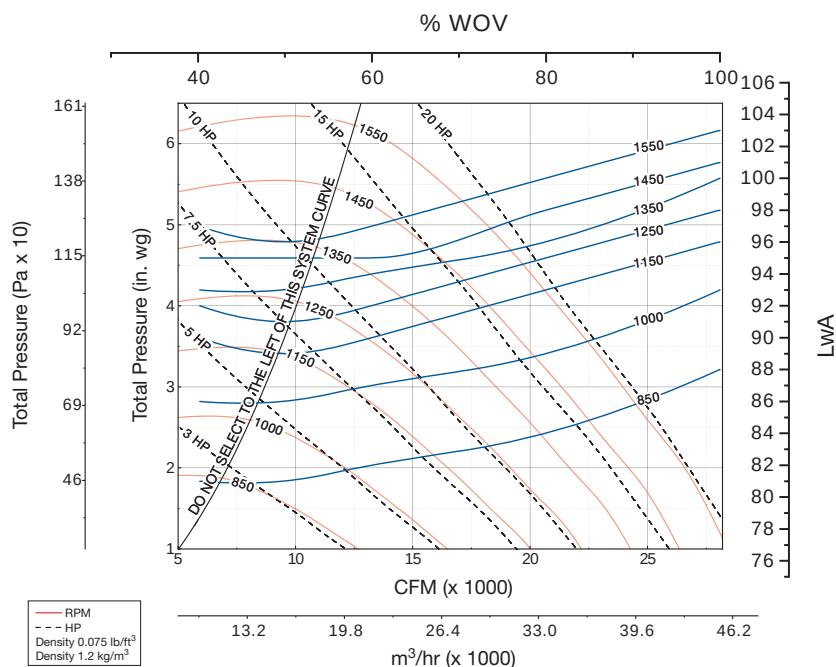
Class I

Specification Data			
Maximum Speed (rpm)	1550	Wheel Diameter (mm)	630
Minimum Size (hp)	0.86	Outlet Area (m ²)	0.639
Maximum Size (hp)	19.71	Outlet Velocity	Volume (m ³ /s) ÷ 0.639

AIR DATA



SOUND DATA



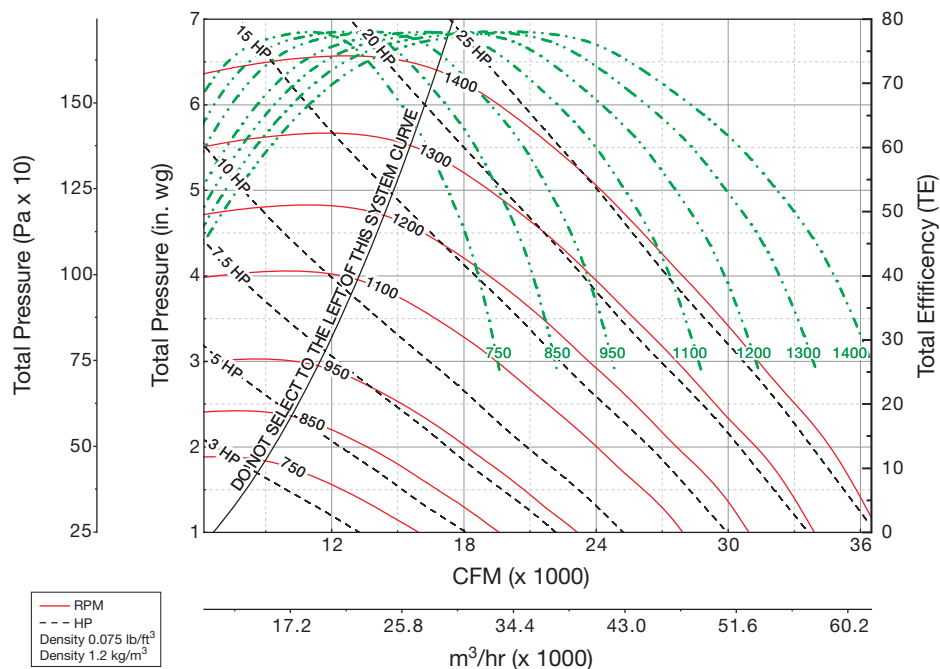
Performance certified is for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LWA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEL_r values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEL_r values for fans with specific motors will vary slightly from those shown.

CDB-710 - Belt Drive

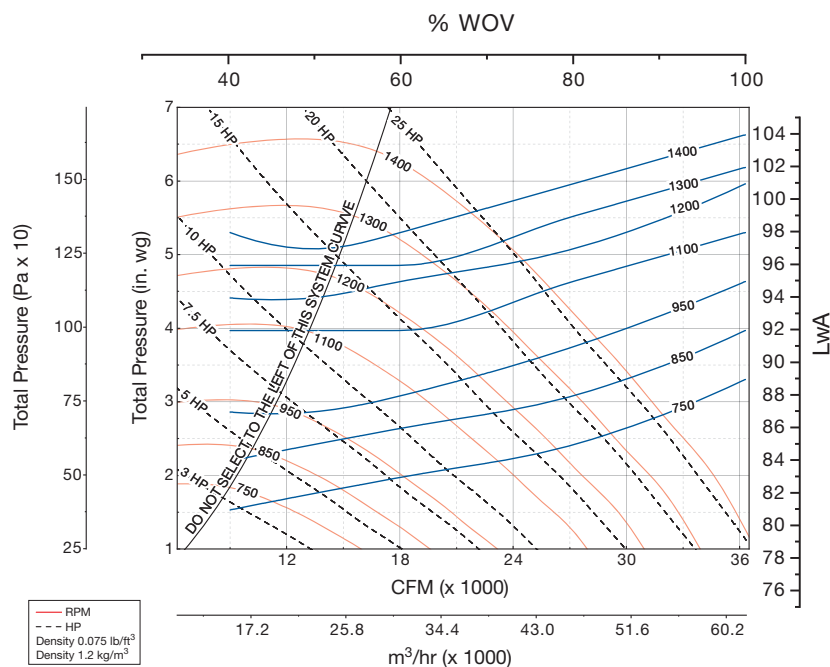
Class I

Specification Data			
Maximum Speed (rpm)	1400	Wheel Diameter (mm)	710
Minimum Size (hp)	1.07	Outlet Area (m ²)	0.806
Maximum Size (hp)	26.40	Outlet Velocity	Volume (m ³ /s) ÷ 0.806

AIR DATA



SOUND DATA



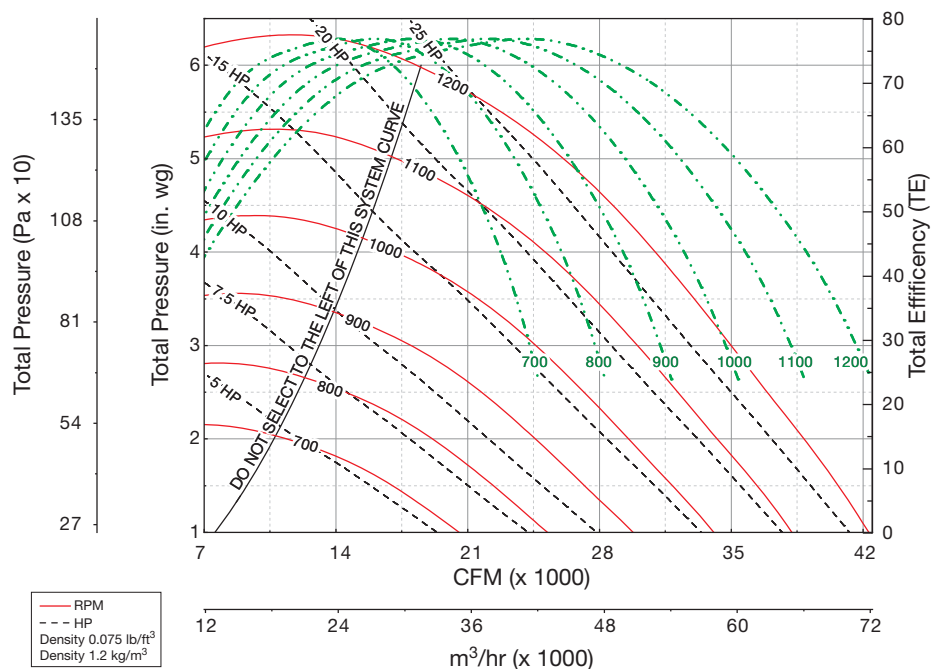
Performance certified is for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LWA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEL_T values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEL_T values for fans with specific motors will vary slightly from those shown.

CDB-800 - Belt Drive

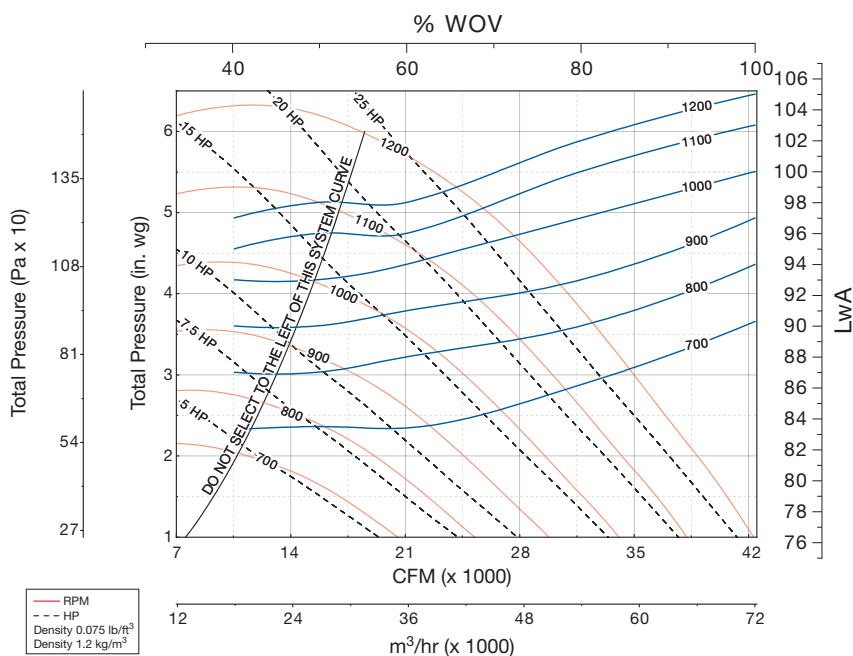
Class I

Specification Data			
Maximum Speed (rpm)	1200	Wheel Diameter (mm)	800
Minimum Size (hp)	2.15	Outlet Area (m ²)	1.012
Maximum Size (hp)	27.93	Outlet Velocity	Volume (m ³ /s) ÷ 1.012

AIR DATA



SOUND DATA



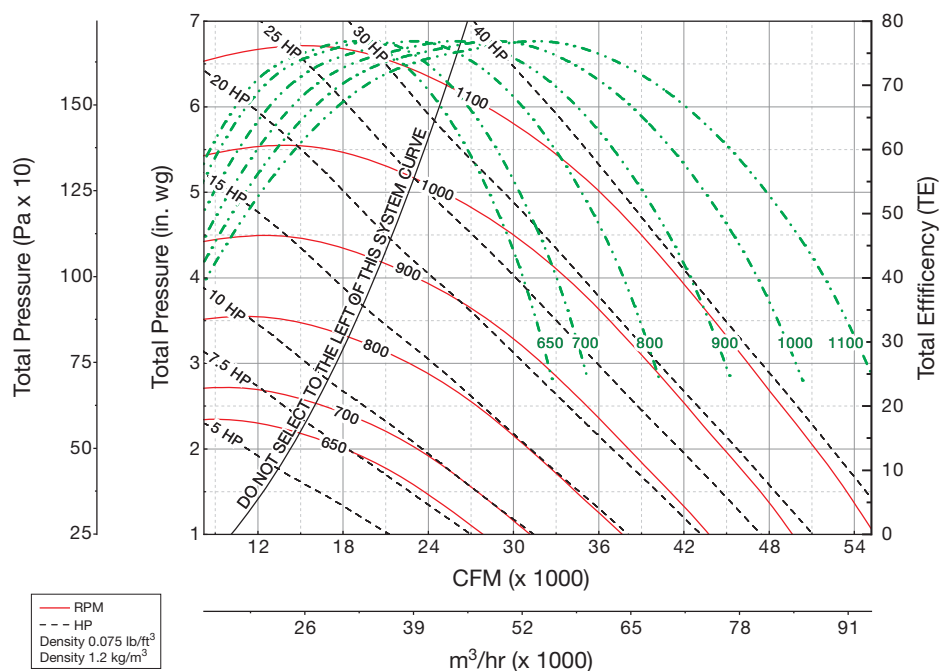
Performance certified is for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LwA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEL_T values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEL_T values for fans with specific motors will vary slightly from those shown.

CDB-900 - Belt Drive

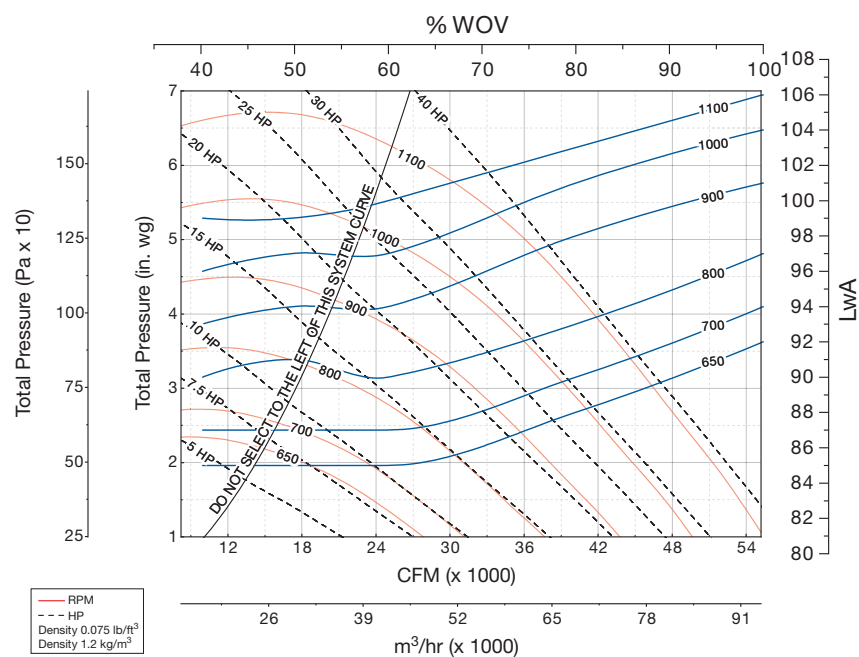
Class I

Specification Data			
Maximum Speed (rpm)	1100	Wheel Diameter (mm)	900
Minimum Size (hp)	3.10	Outlet Area (m ²)	1.277
Maximum Size (hp)	38.77	Outlet Velocity	Volume (m ³ /s) ÷ 1.277

AIR DATA



SOUND DATA



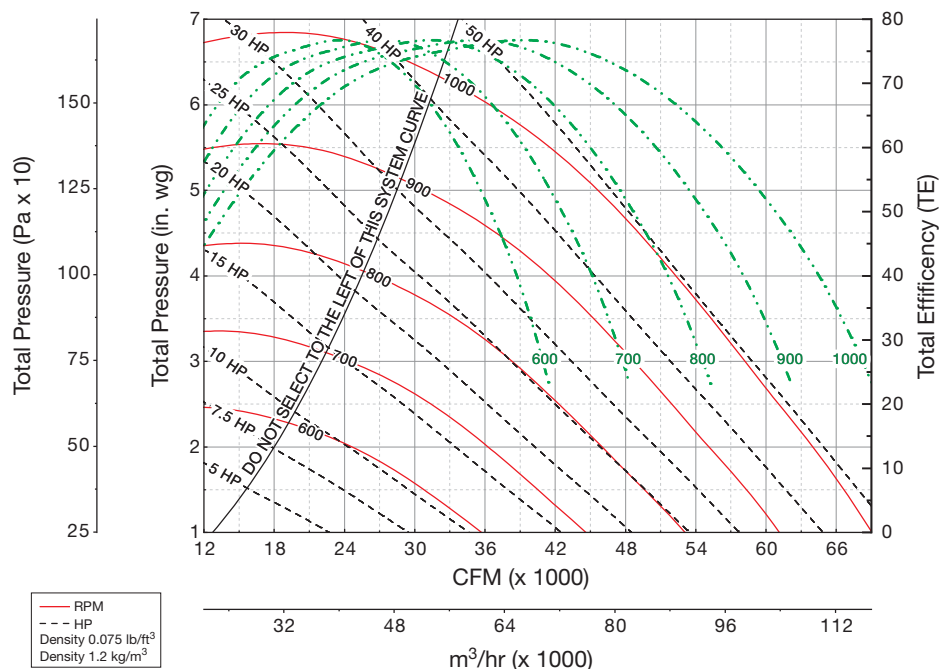
Performance certified is for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LwA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEL_T values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEL_T values for fans with specific motors will vary slightly from those shown.

CDB-1000 - Belt Drive

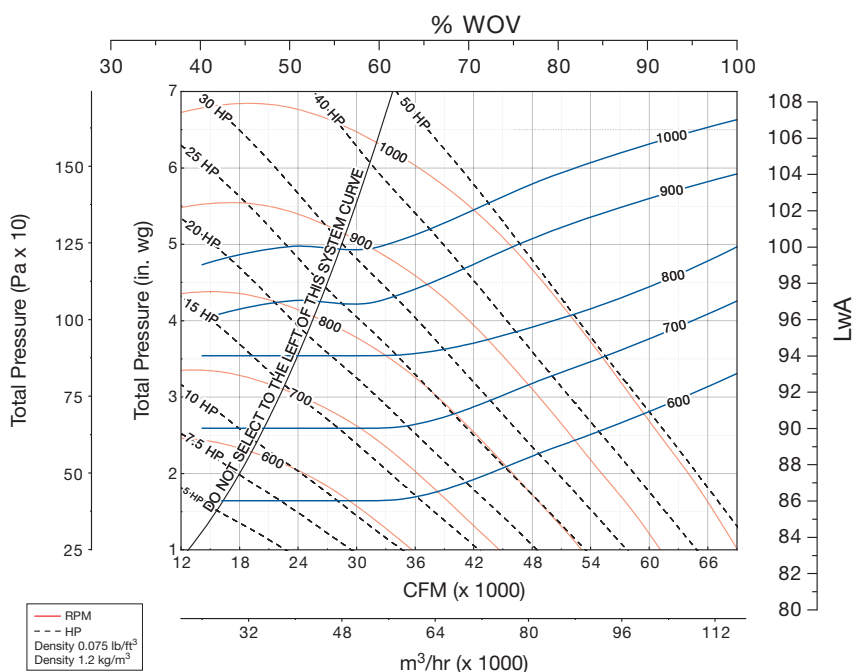
Class I

Specification Data			
Maximum Speed (rpm)	1000	Wheel Diameter (mm)	1000
Minimum Size (hp)	4.12	Outlet Area (m ²)	1.603
Maximum Size (hp)	49.33	Outlet Velocity	Volume (m ³ /s) ÷ 1.603

AIR DATA



SOUND DATA



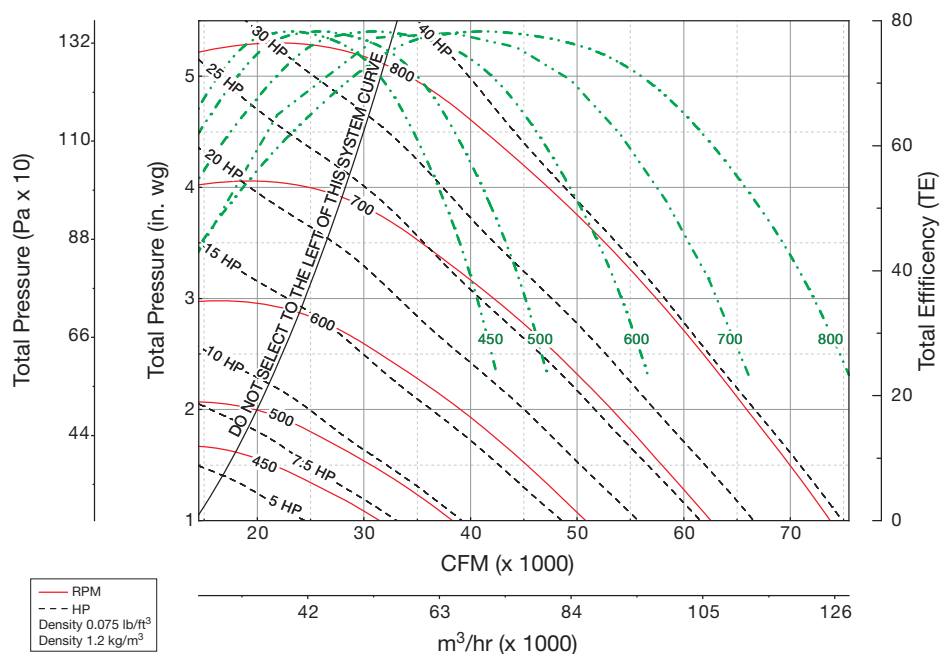
Performance certified is for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LwA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEL_r values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEL_r values for fans with specific motors will vary slightly from those shown.

CDB-1120 - Belt Drive

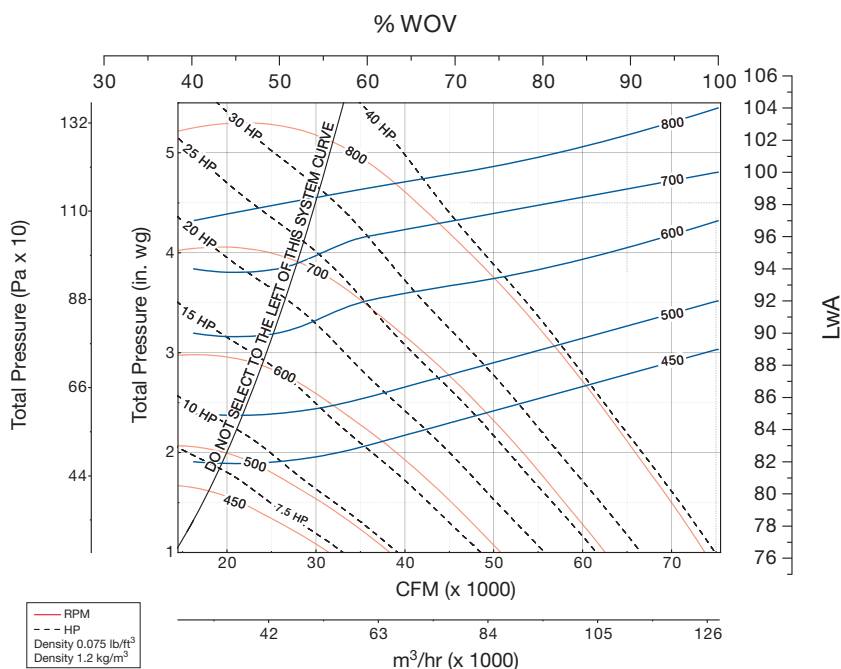
Class I

Specification Data			
Maximum Speed (rpm)	800	Wheel Diameter (mm)	1120
Minimum Size (hp)	2.77	Outlet Area (m ²)	2.022
Maximum Size (hp)	39.35	Outlet Velocity	Volume (m ³ /s) ÷ 2.022

AIR DATA



SOUND DATA



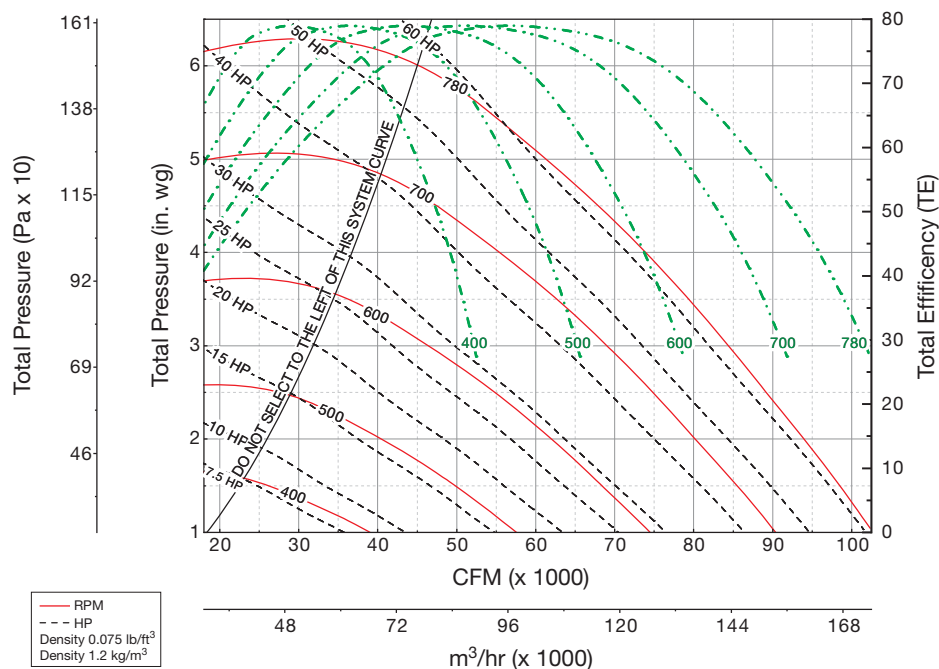
Performance certified for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LWA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEL_T values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEL_T values for fans with specific motors will vary slightly from those shown.

CDB-1250 - Belt Drive

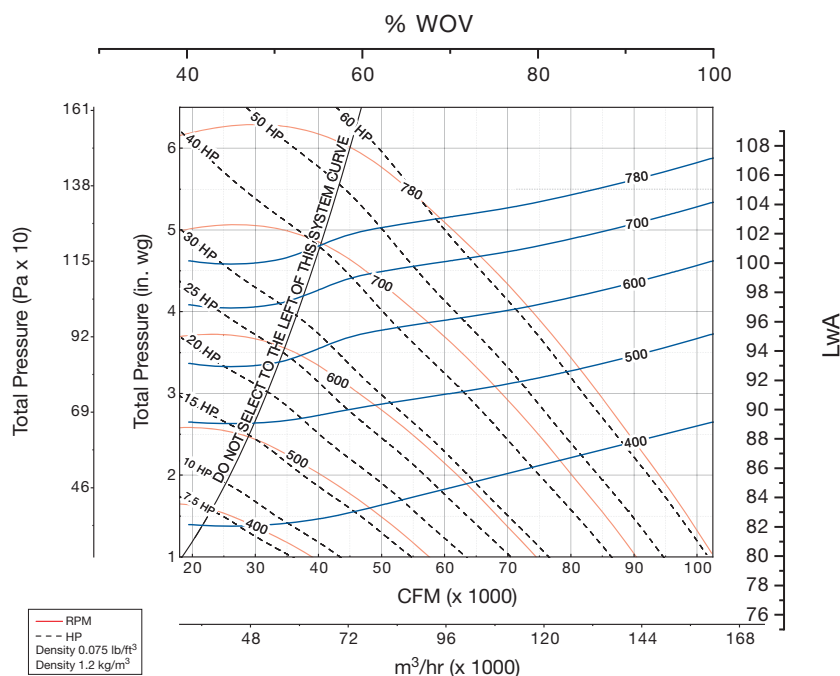
Class I

Specification Data			
Maximum Speed (rpm)	780	Wheel Diameter (mm)	1250
Minimum Size (hp)	3.37	Outlet Area (m ²)	2.323
Maximum Size (hp)	63.15	Outlet Velocity	Volume (m ³ /s) ÷ 2.323

AIR DATA

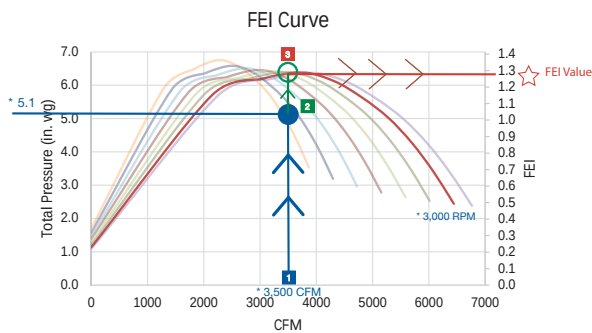


SOUND DATA



Performance certified is for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LwA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEL_T values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEL_T values for fans with specific motors will vary slightly from those shown.

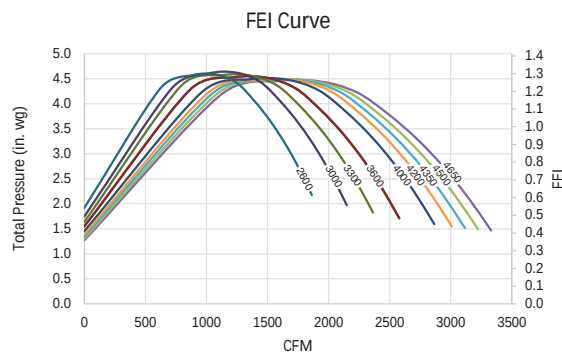
Steps to use the FEI Graph



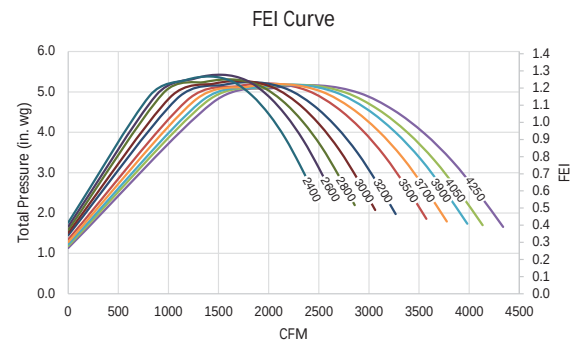
* Reference Air Graph values on page 2

- 1** Use selected operating point (OP).
*Begin at 3,500 CFM.
- 2** From (OP), draw a vertical line to FEI curve at *(selected RPM).
- 3** From the intersection at step 2, draw a horizontal line to the right y-axis. Use the right y-axis scale to determine your FEI value.

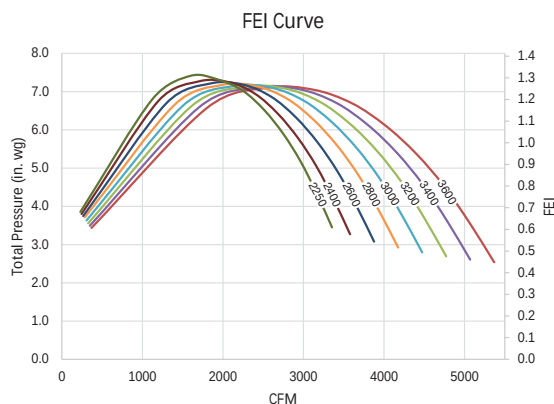
CDB-225



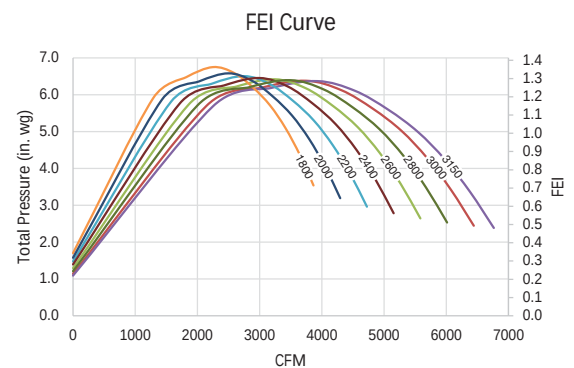
CDB-250



CDB-280

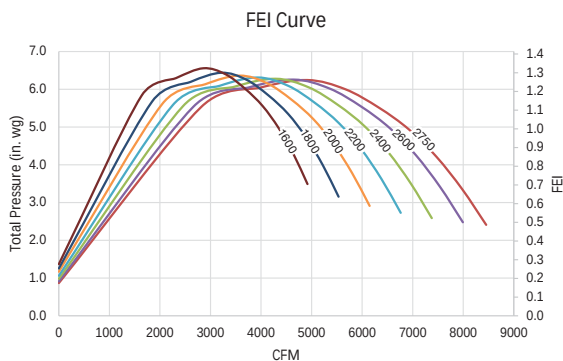


CDB-315

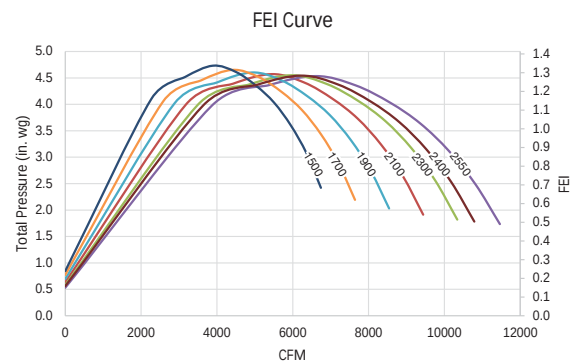


Performance certified is for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LwA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEI_r values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEI_r values for fans with specific motors will vary slightly from those shown.

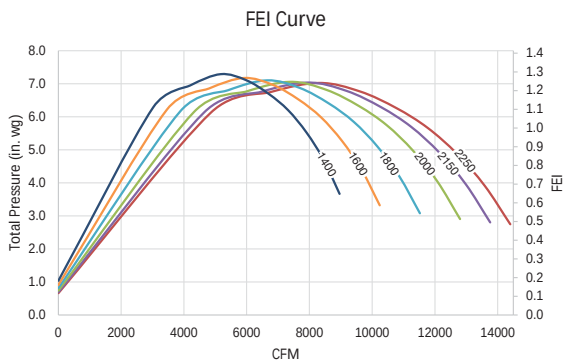
CDB-355



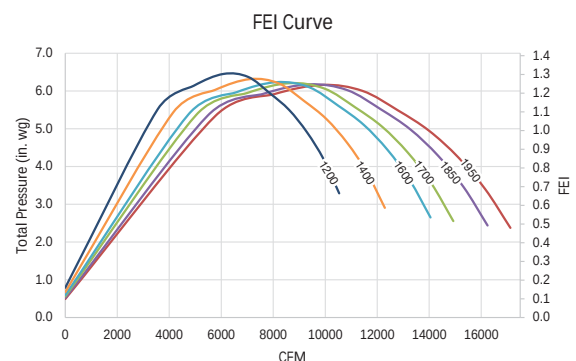
CDB-400



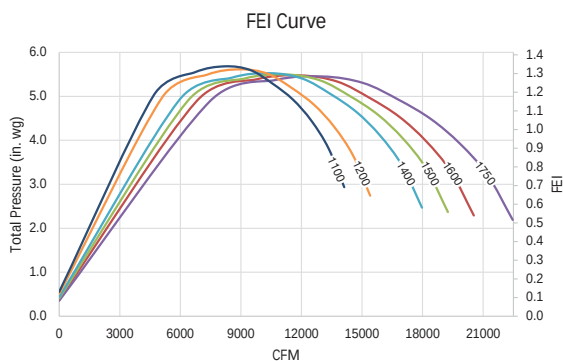
CDB-450



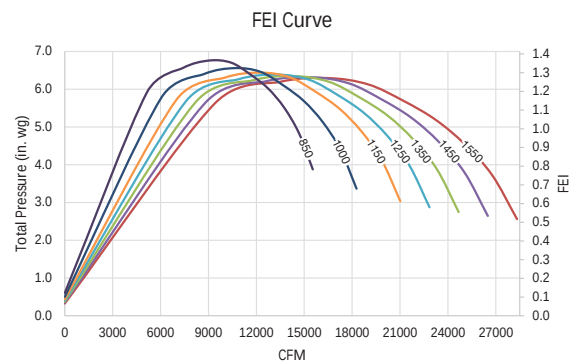
CDB-500



CDB-560

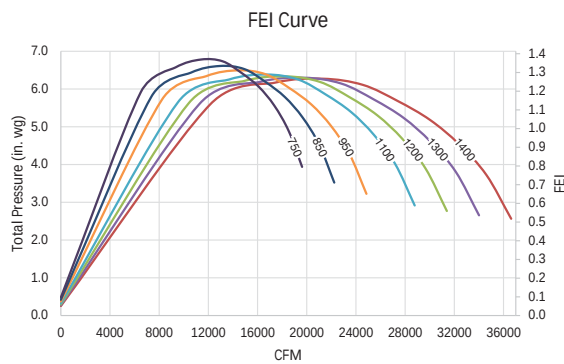


CDB-630

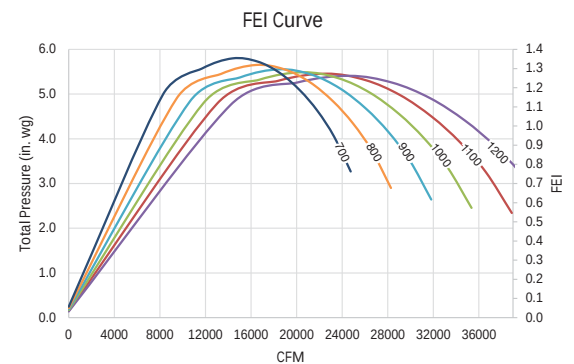


Performance certified is for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LwA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEI_T values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEI_T values for fans with specific motors will vary slightly from those shown.

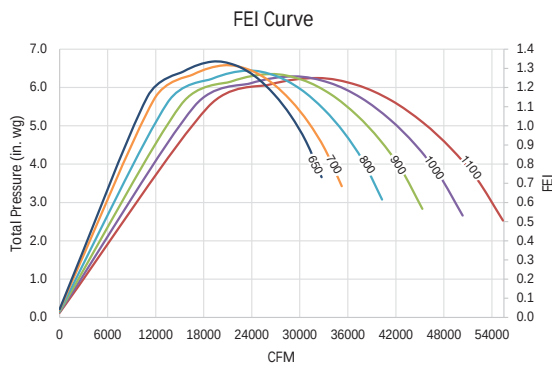
CDB-710



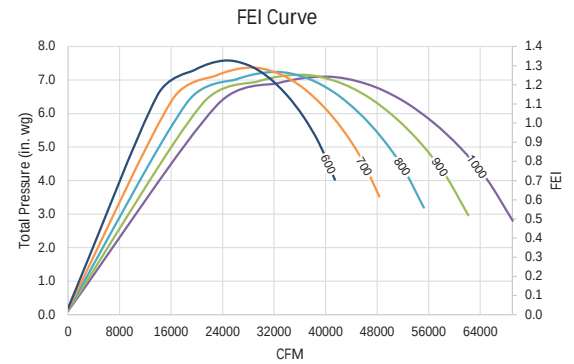
CDB-800



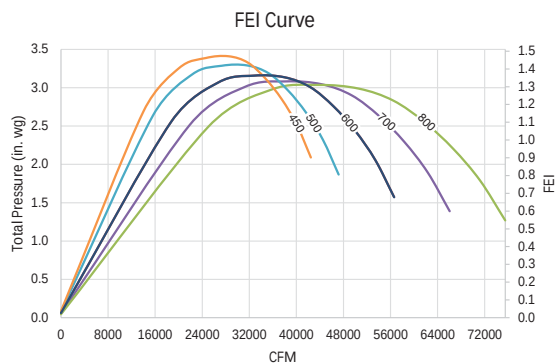
CDB-900



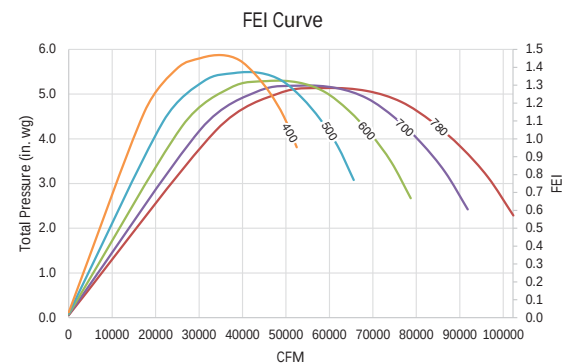
CDB-1000



CDB-1120

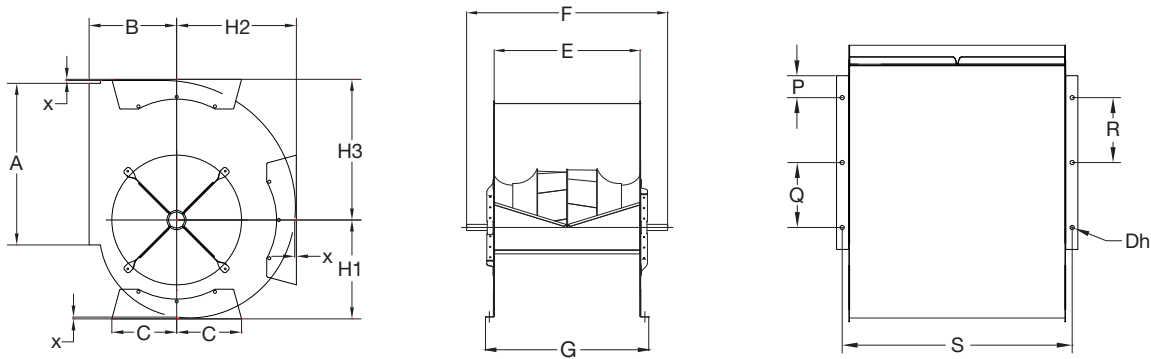


CDB-1250



Performance certified is for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA Standard 301. Values shown are for Inlet LWA sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction for the outlet duct. FEI_T values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (50 Hz IE2). FEI_T values for fans with specific motors will vary slightly from those shown.

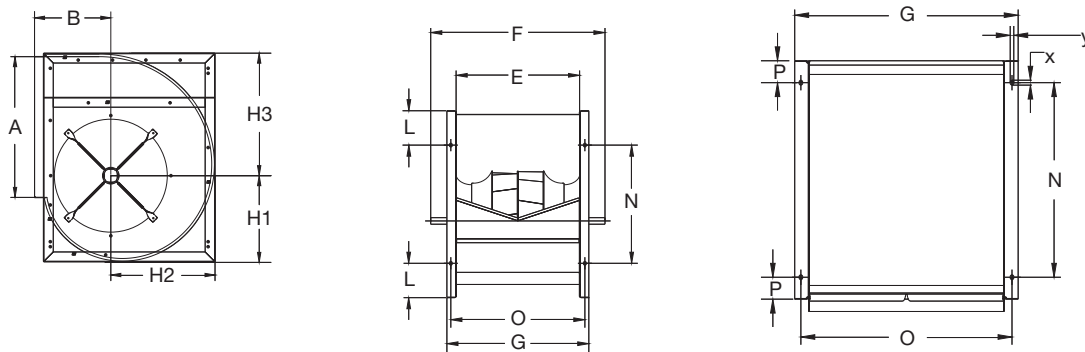
Mounting Arrangement SN (225-710)



Size	A	B	C	x	H1	H2	H3	E	F	G	P	Q	R	S	Dh	Shaft Diameter
225	288	175	115	5	185	223	261	288	452	339	53	62	62	317	14	20
250	322	189	128	5	203	246	288	322	486	373	53	75	75	351	14	20
280	358	206	143	5	225	273	321	358	556	410	53	90	90	388	14	20
315	404	226	161	5	251	305	359	404	600	466	53	108	108	439	14	20
355	452	247	182	5	279	340	402	452	672	514	53	128	128	487	14	25
400	506	274	205	5	313	381	450	506	726	578	53	151	151	546	14	25
450	568	319	230	5	351	428	505	568	798	640	53	177	177	608	14	25
500	638	343	256	5	385	470	556	638	876	720	72	183	183	683	14	30
560	714	387	286	5	437	529	621	714	980	796	72	214	214	759	14	30
630	800	420	322	5	485	592	699	800	1066	892	72	250	250	850	14	35
710	898	466	363	5	544	664	786	898	1180	990	105	258	258	948	14	40

All dimensions are in millimeters.

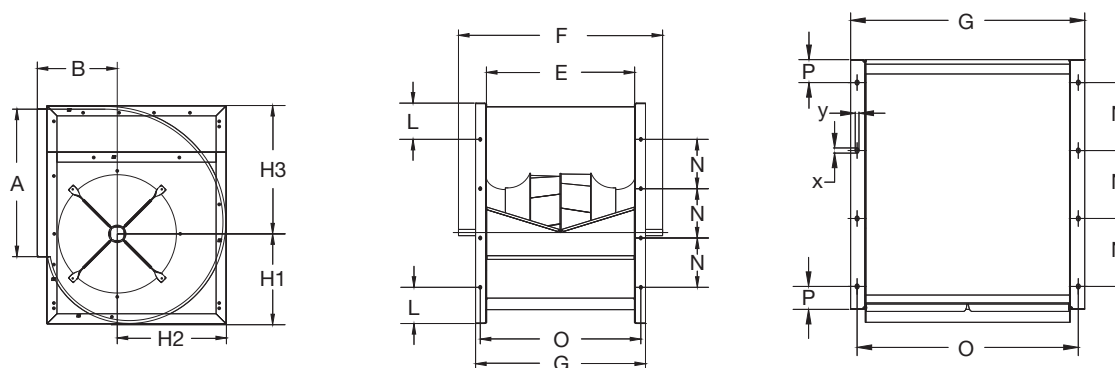
Mounting Arrangement SR (225-450)



Size	A	B	H1	H2	H3	E	F	G	L	N	O	P	x	y	Shaft Diameter
225	288	175	185	223	261	288	452	354	104	238	325	65	12	9	20
250	322	189	203	246	288	322	486	388	108	274	359	65	12	9	20
280	358	206	225	273	321	358	556	424	113	319	395	65	12	9	20
315	404	226	251	305	359	404	600	474	120	371	444	65	16	11	20
355	452	247	279	340	402	452	672	534	127	427	498	65	16	11	25
400	506	274	313	381	450	506	726	588	134	495	552	65	16	11	25
450	568	319	351	428	505	568	798	650	157	541	614	80	18	13	25

All dimensions are in millimeters.

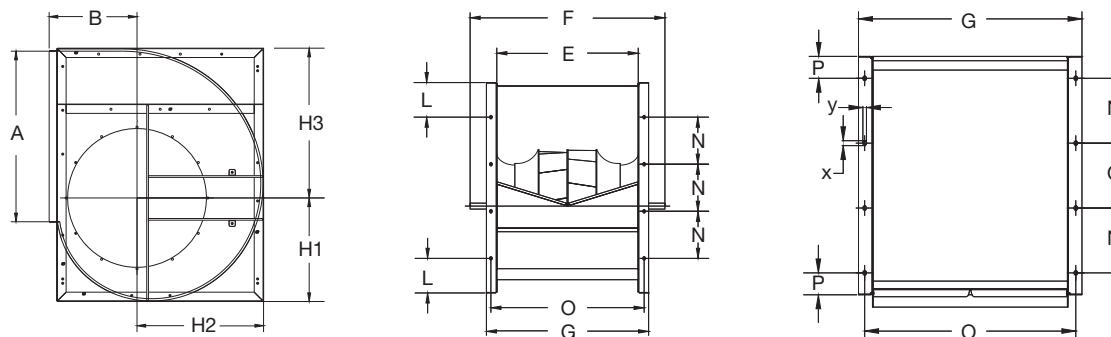
Mounting Arrangement SR (500-710)



Size	A	B	H1	H2	H3	E	F	G	L	N	O	P	x	y	Shaft Diameter
500	638	343	385	470	556	638	876	740	167	203	695	80	18	13	30
560	714	387	437	529	621	714	980	816	174	237	771	80	18	13	30
630	800	420	485	592	699	800	1066	902	189	269	857	80	18	13	35
710	898	466	544	664	786	898	1180	1010	202	309	960	80	22	17	40

All dimensions are in millimeters.

Mounting Arrangement PA (800-1250)



Size	A	B	H1	H2	H3	E	F	G	L	N	Q	O	P	x	y	Shaft Diameter
800	1006	518	611	746	883	1006	1288	1118	257	382	326	1069	65	22	17	45
900	1130	616	685	838	991	1130	1466	1252	274	376	376	1204	120	22	17	45
1000	1266	671	759	928	1100	1266	1614	1388	292	425	425	1340	120	22	17	50
1120	1422	739	848	1038	1230	1422	1800	1544	313	484	484	1496	120	22	17	60
1250	1524	813	941	1155	1371	1524	1975	1646	335	547	547	1598	120	22	17	65

All dimensions are in millimeters.

Design and Selection Support

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