Centrifugal Fans

Model CSB

- Single Width Blowers
- Commercial & Industrial Applications

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October
2025

Model CSB
Centrifugal Single Width Blowers

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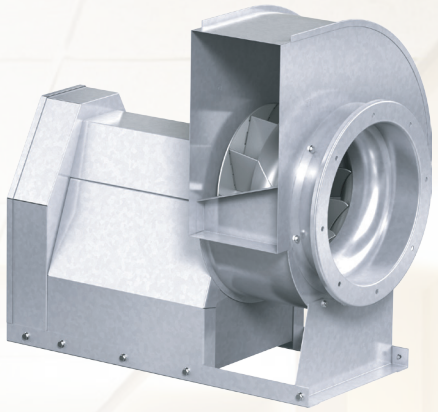
Greenheck's single-width centrifugal fans are designed to provide efficient and reliable operation for commercial and industrial applications. We manufacture our products with state-of-the-art equipment; and undergo quality control testing to ensure a trouble-free start-up.

Model CSB is an excellent choice for **exhaust air**, supply air, **filtration**, heating, **air conditioning** and **industrial** process applications.



Benefits of Greenheck Centrifugal Products

- AMCA licensed for FEI, Sound & Air performance
- Flexible for a variety of applications
- Suitable for indoor or outdoor installation
- Belt drive design allows for easy field performance adjustments
- High-pressure capacity to handle larger ducted systems or filtration requirements
- Efficient backward inclined performance
- Tested and reliable product design

Certifications

Greenheck India Pvt Ltd. certifies that the CSB models shown herein is 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 and comply with the requirements of the AMCA Certified Ratings Program.

*The AMCA Certified Ratings Seal applies to the Fan Energy Index for Model CSB-315 to CSB-1000

Certified data may be found in Greenheck's Computer Aided Product Selection program CAPS®

UL Listed Power ventilator
UL File no. E529585

UL 762 Power Ventilator for Restuarant Exhaust Appliances
UL File no. E529585

UL Power Ventilator for Smoke Control Systems
UL File no. E529585

The model number code is designed to completely identify the unit. The correct code letters must be specified to designate configurations. The remainder of the model number is determined by the size and performance selected from the model CSB Sound and Air performance supplement.

CSB - 560 - B1 - 4 - 3.7

Centrifugal Single Width Blower

Wheel Diameter
315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1120, 1250

Backward Inclined

Class I

Poles

Kw

Building Segments and Applications

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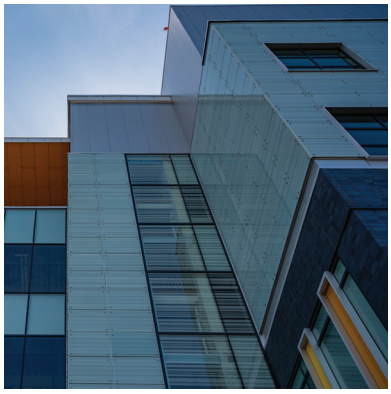
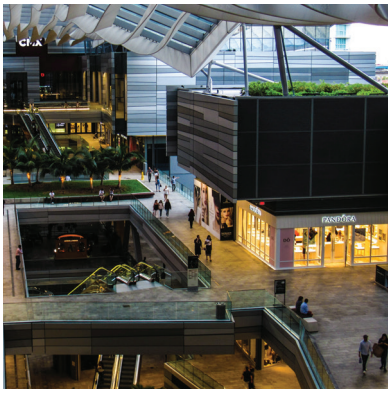
We are known worldwide as a leading manufacturer that provides high-quality air movement, control and conditioning equipment. Our HVAC (heating, ventilation, air-conditioning) products efficiently move air in a variety of commercial and industrial spaces.



Offices and hotels

Automotive facilities



Shopping centers

Food processing

Metros

Hospitals

Mid and high-rise

Typical Applications

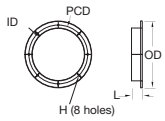
- General or fume exhaust
- Kitchen smoke and grease exhaust
- Stairwell pressurization
- Filtered exhaust
- Industrial process exhaust

Standard Construction Accessories

Standard Construction and Configuration

- Volume up to 84,100 cmh
- Static pressure up to 1,500 Pa
- Galvanized / Hi-Pro Coating
- Greenheck's Permalock™ lock seam scroll
- Backward-inclined (BI) wheels:
  - Steel: (315-1250mm)
  - Aluminum: (315-710mm)

Slip Fit Flange



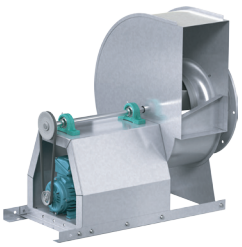
Punched Flange

Accessories/Options

- Inlet connection
- Slip-fit flange
- Punched flange
- Extended warranty (1 to 5 years)

Housing

Constructed of galvanized steel standard offering with Zinc GSM275, preventing additional corrosion than industry standard, extending product life and increasing long-term savings.



As optional concrete grey also available for standard application fans. High temperature silver coating by default when selected for temperature application fans.

Fan Shaft

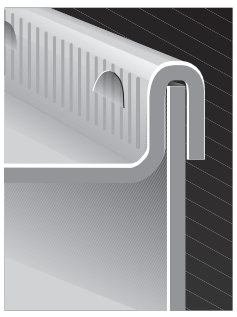
Turned and polished steel that is sized so the first critical speed is at least 25% over the maximum operating speed for each pressure class.

Premium Bearings

Single-width centrifugal products are manufactured with "air handling quality" self-aligning bearings with insert or housed pillow block type. All bearings are selected for a basic rating fatigue life of L_{10} in excess of 40,000 hours at the maximum RPM for the selected pressure class.

L_{10} life implies 90% reliability or 10% failure rate after the stated hours. L_{10} life of 40,000 hours is equal to the average life of 200,000 hours.

Permalock™ Housing



Permalock™ housings use a mechanically fastened seam instead of welding. This airtight and watertight housing construction uses the same structural support as the all-welded housings. Permalock construction is an excellent value engineering option for applications up to 8.5 in. wg (2.1 kPa).

Wheels

Greenheck's single width, single inlet, backward-inclined wheels provide high efficiency with low sound levels. Wheels are balanced statically and dynamically to AMCA G2.5 standard/AMCA Standard 204-05 for smooth

	Backward-Inclined (BI)
Wheel Type	 Aluminum  Steel
Application	General purpose, clean air, restaurant and grease, or severe environments
Temperature	Aluminum: Up to 148°C *(300°F)* Steel: Up to 250°C *(482°F)*
Construction	Aluminum: Sizes: 315-710mm Steel: Sizes: 315-1250mm

Grease Exhaust Accessories

Shaft Seal

A felt seal available for operation at high temperatures or for exhausting contaminated air.

Heat Slinger

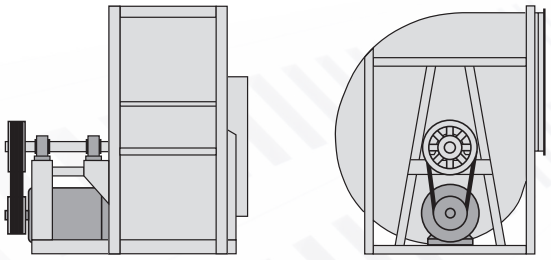
The heat slinger is an aluminum cooling disc mounted on the fan shaft between the inboard bearing and the blower housing to dissipate heat conducted along the fan shaft.

Red Silicone Sealant

Pressure sensitive silicone adhesive recognized for flame retardancy and gasketing properties. Provided at the inlet and outlet of the fan to avoid grease leakage. Working range (-50 to 250 C).

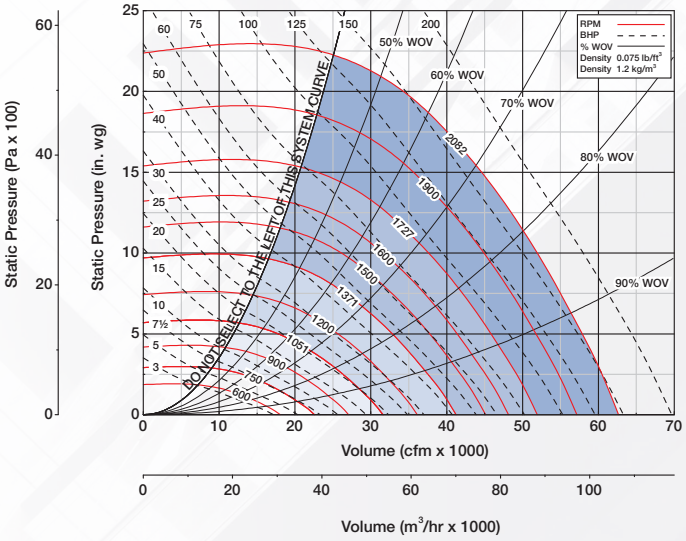
Arrangement 10 — Belt Drive

- Recommended as first choice configuration for belt drive applications
- Most compact belt drive arrangement
- Bearings are mounted out of the airstream
- Motor is mounted beneath the drive frame
- Available with a weatherhood to cover motor, drives and bearings
- Moderate dirt and heat tolerance



Class of Construction

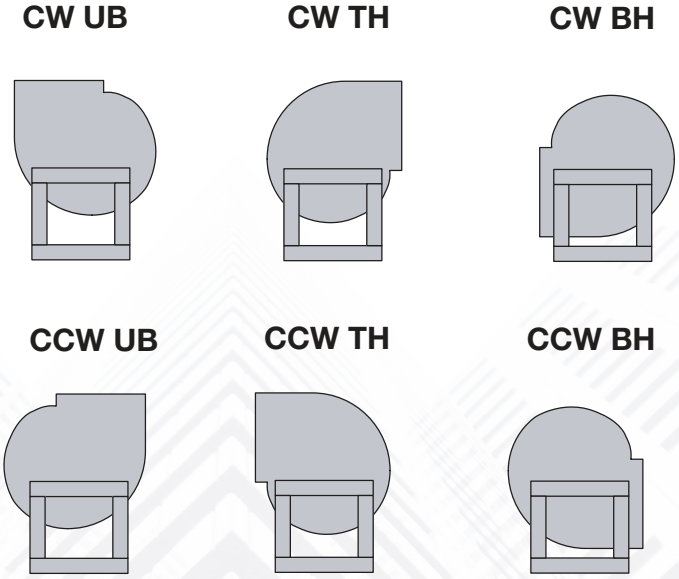
Fan class refers to a construction level designed to handle a given fan outlet velocity and pressure. As the fan performance requirements increase, the fan construction (material gauge, shaft diameter, motor size) must also increase to handle the new workload. CSB models target Class 0 & I performance ranges for backward inclined fans, as defined by AMCA pressure class.



Class 0	Class I	Class II	Class III	Class IV

Discharge Positions and Rotatable Housings

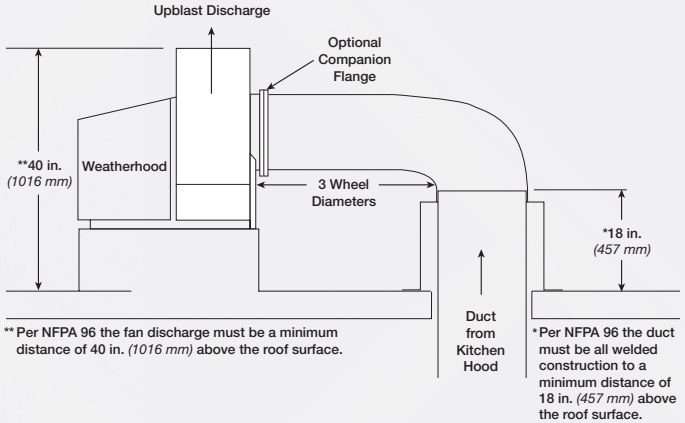
Rotation and discharge is always determined from the drive side of the fan.



Typical Installation - Commercial Kitchen (Grease)

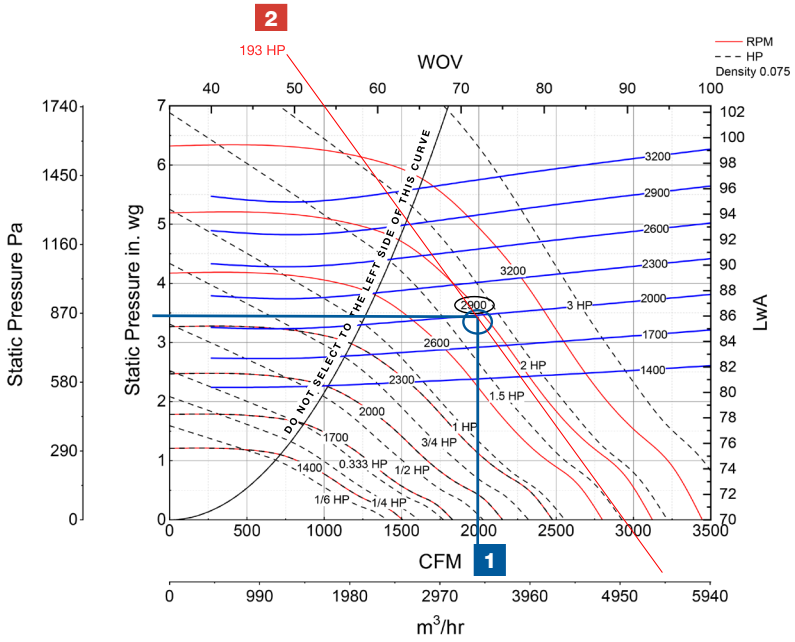
Installation must include a means for inspecting, cleaning and servicing the exhaust fan.

- Fans selected for grease removal must include a 25 mm (1 inch) drain connection.
- An outlet guard is strongly recommended when the fan discharge is accessible.
- An upblast discharge is recommended.
- The fan must discharge a minimum of 1016 mm (46 inches) above the roofline and the exhaust duct must be fully welded to a distance of 457 mm (18 inches) above the roof surface.
- No dampers are to be used in the system.



Steps to use the Air and Sound Graphs

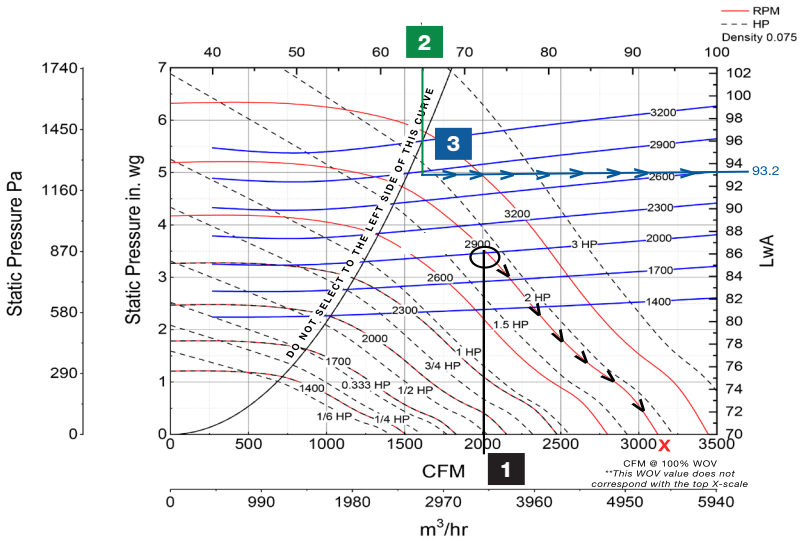
AIR DATA



1 Choose operating point. Begin at 2,000 cfm.

2 Find Bhp. Draw parallel HP line through the intersection found in Step 1.

SOUND DATA

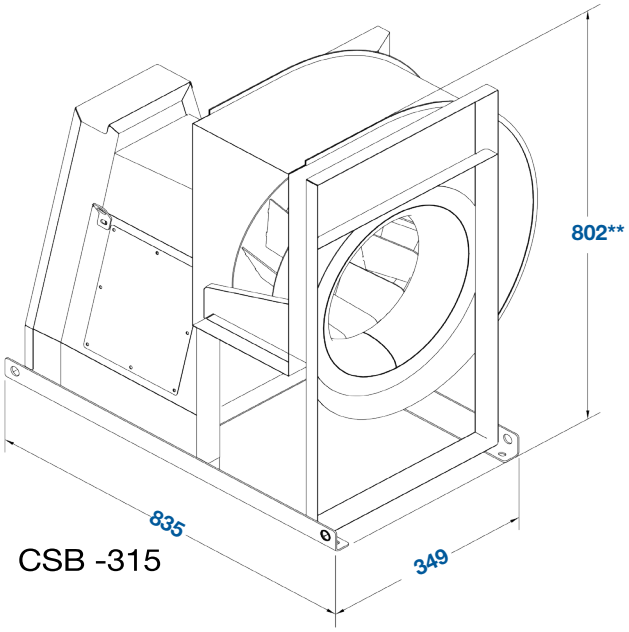


1 Find cfm at 100% WOV (3,100 cfm) from the fan curve (2,900 rpm) at selected operating point (2,000 cfm) at 3.5 in wg.

2 Calculate your % WOV at operating point using equation:
% WOV = (2000 ÷ 3100) x 100 = 65

3 Find LwA value. Use the % WOV value calculated in Step 2. Locate the LwA (2,900) curve and draw a line to the right to find your LwA value of 93.2

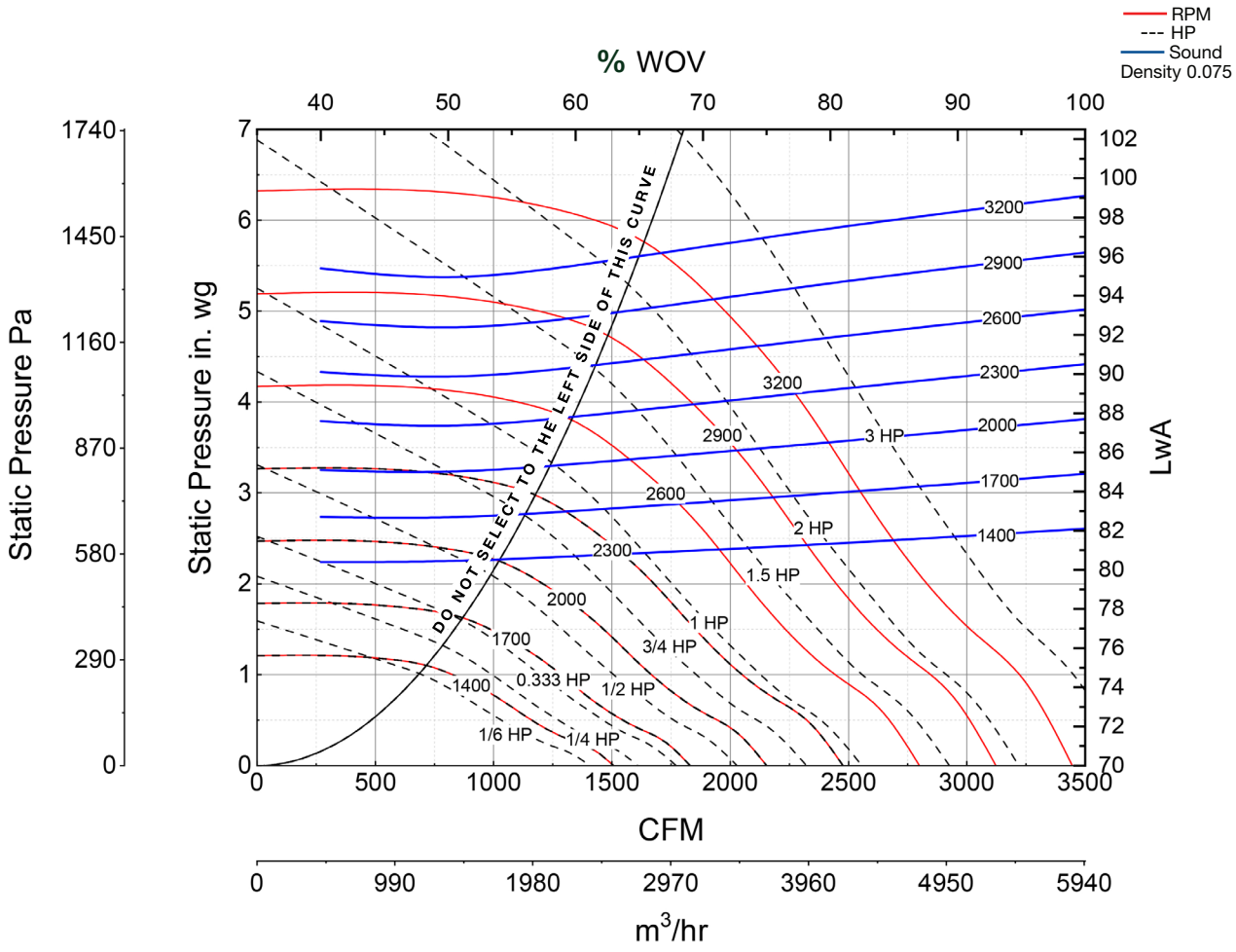
CSB-315 - Belt Drive
Class I



Specification Data	
Maximum Speed (rpm)	3200
Wheel Diameter (mm)	320
Maximum Size (hp)	2.55
Maximum Motor Frame Size	100L

Unit Weight* = 80 kg
Housing thickness(min) = 18 ga
Dimensions shown in milimitres
*Weight shown is largest catalogue TEFC motor position
**Dimensions shown is for TH discharge only.

AIR 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 International Standard 301. Values shown are for Inlet LwiA sound power levels for: Installation Type B: free inlet, ducted outlet. 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.

CSB-355 - Belt Drive
Class I

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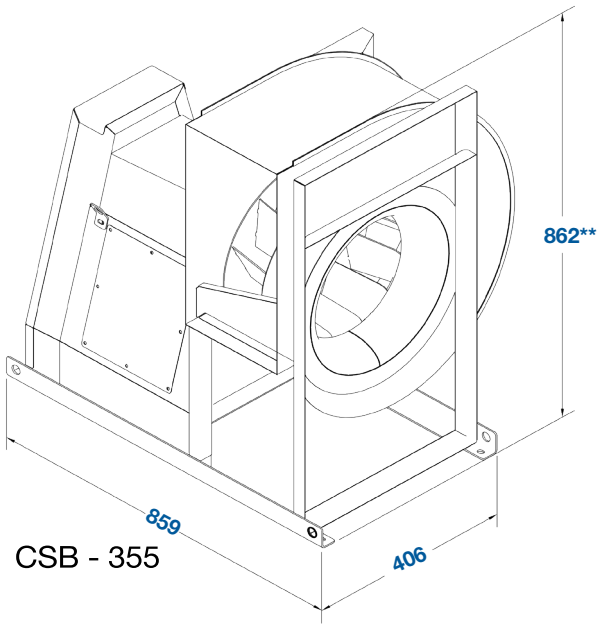
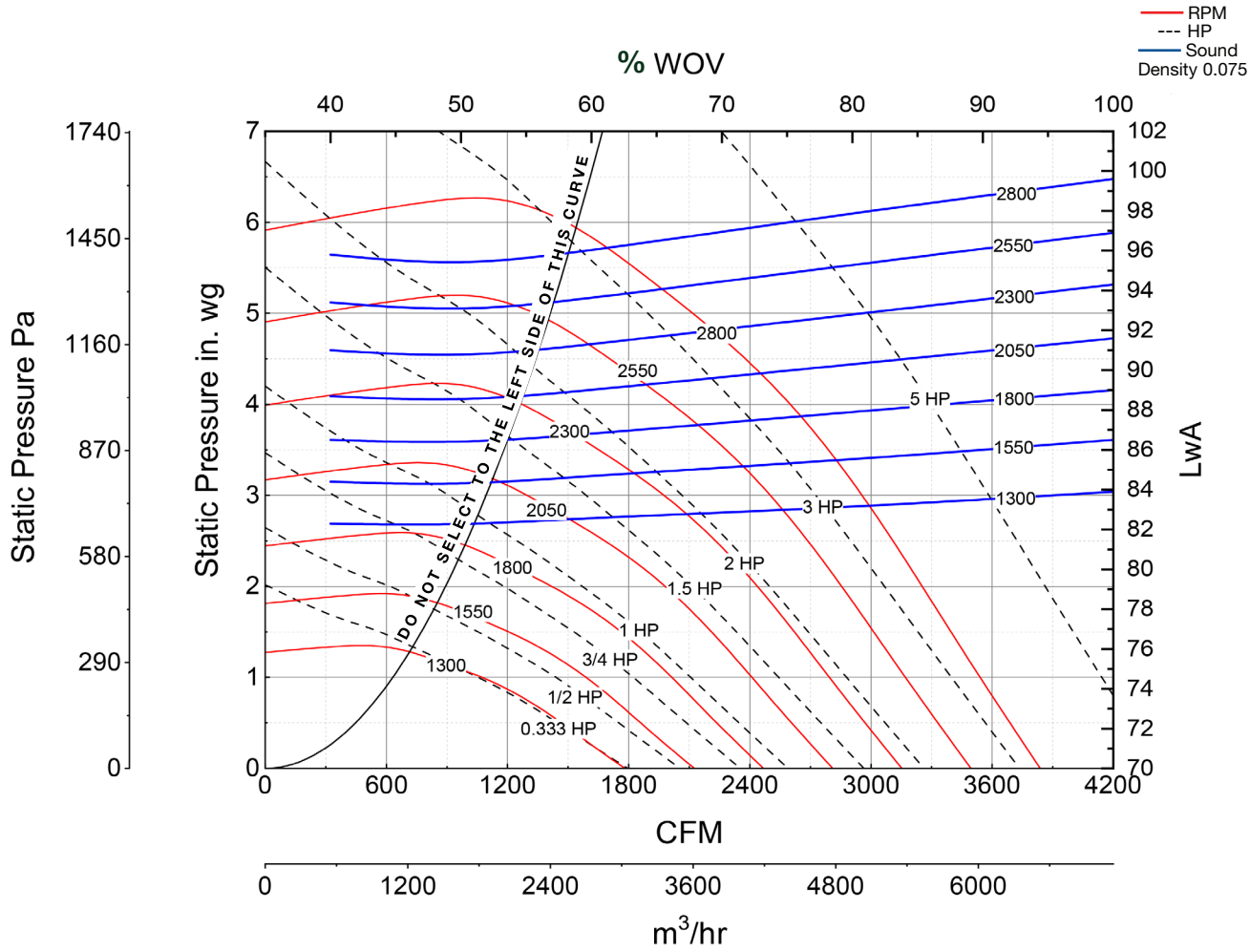


Specification Data	
Maximum Speed (rpm)	2800
Wheel Diameter (mm)	360
Maximum Size (hp)	3.35
Maximum Motor Frame Size	100L

Unit Weight* = 86 kg
Housing thickness(min) = 18 ga
Dimensions shown in milimitres
*Weight shown is largest catalogue TEFC motor position
**Dimensions shown is for TH discharge only.

AIR DATA



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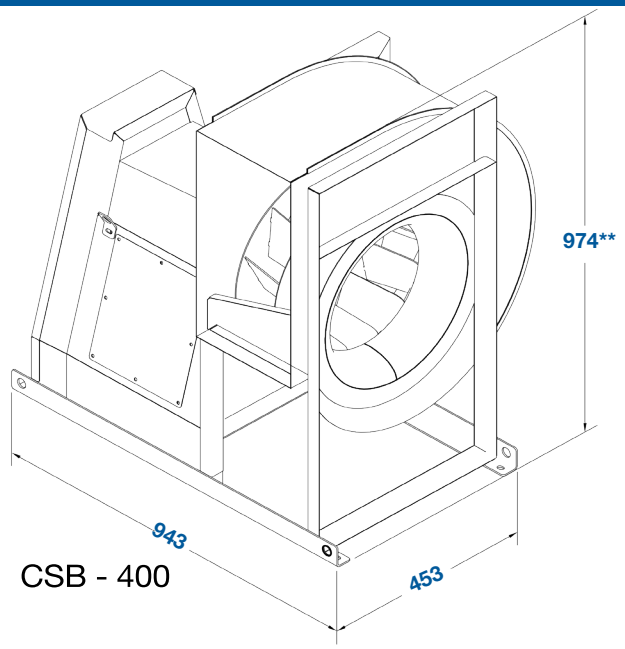
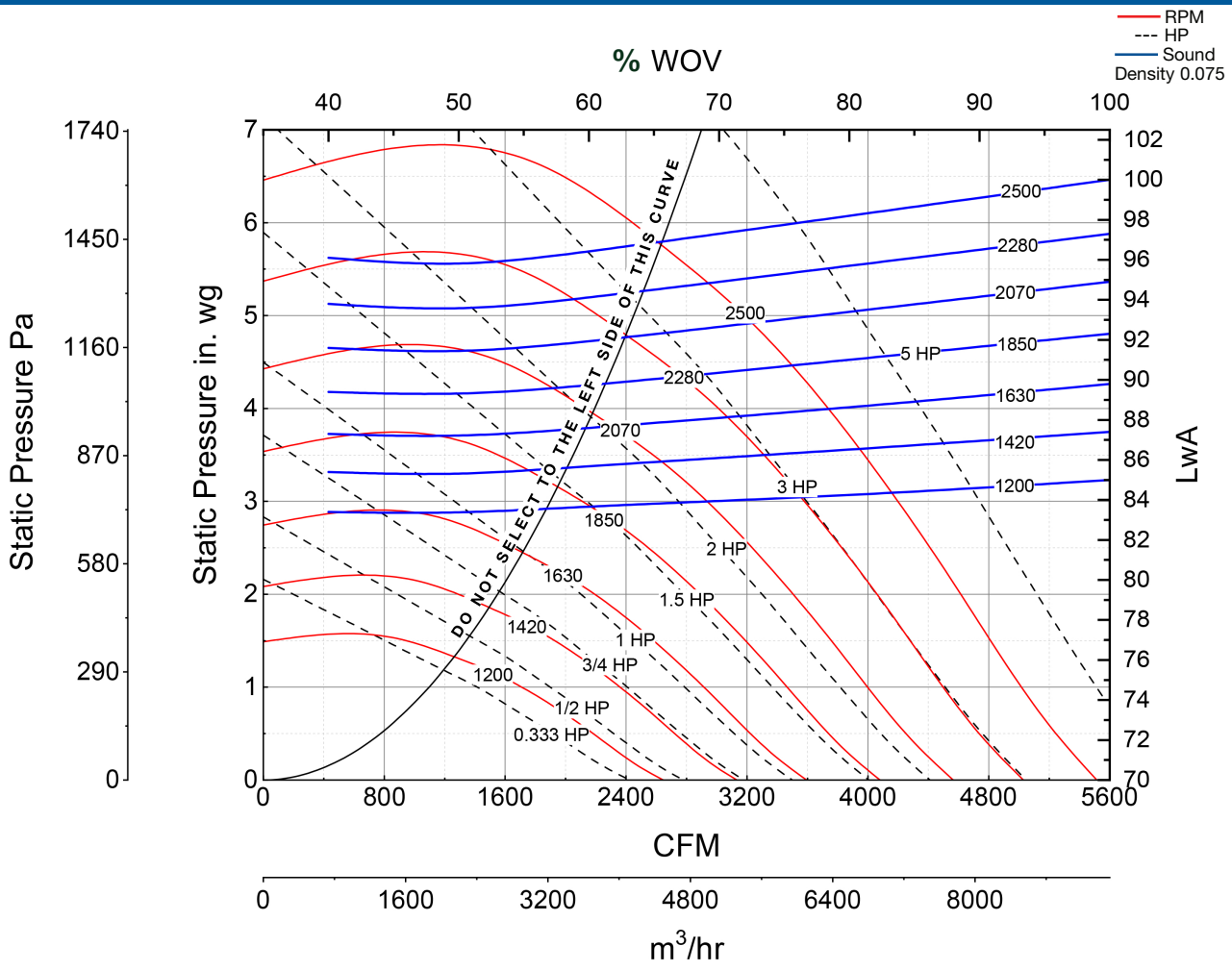
CSB-400 - Belt Drive
Class I



Specification Data	
Maximum Speed (rpm)	2500
Wheel Diameter (mm)	406
Maximum Size (hp)	4.04
Maximum Motor Frame Size	100L

Unit Weight* = 96 kg
Housing thickness(min) = 18 ga
Dimensions shown in milimitres
*Weight shown is largest catalogue TEFC motor position
**Dimensions shown is for TH discharge only.

AIR DATA



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CSB-450 - Belt Drive
Class I

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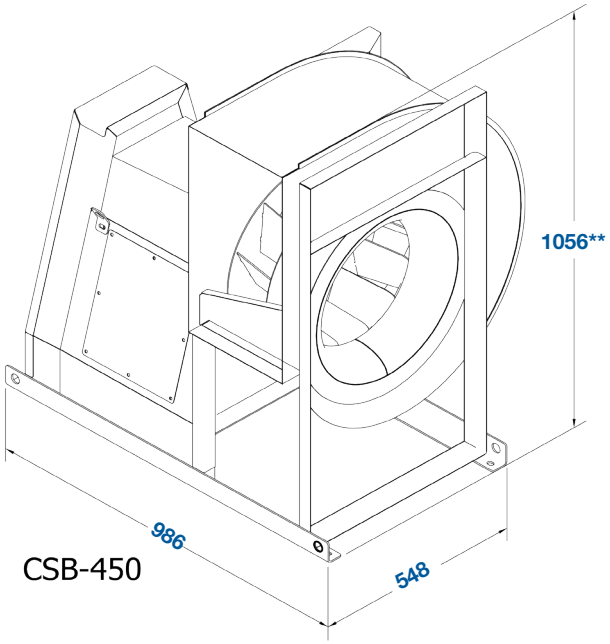
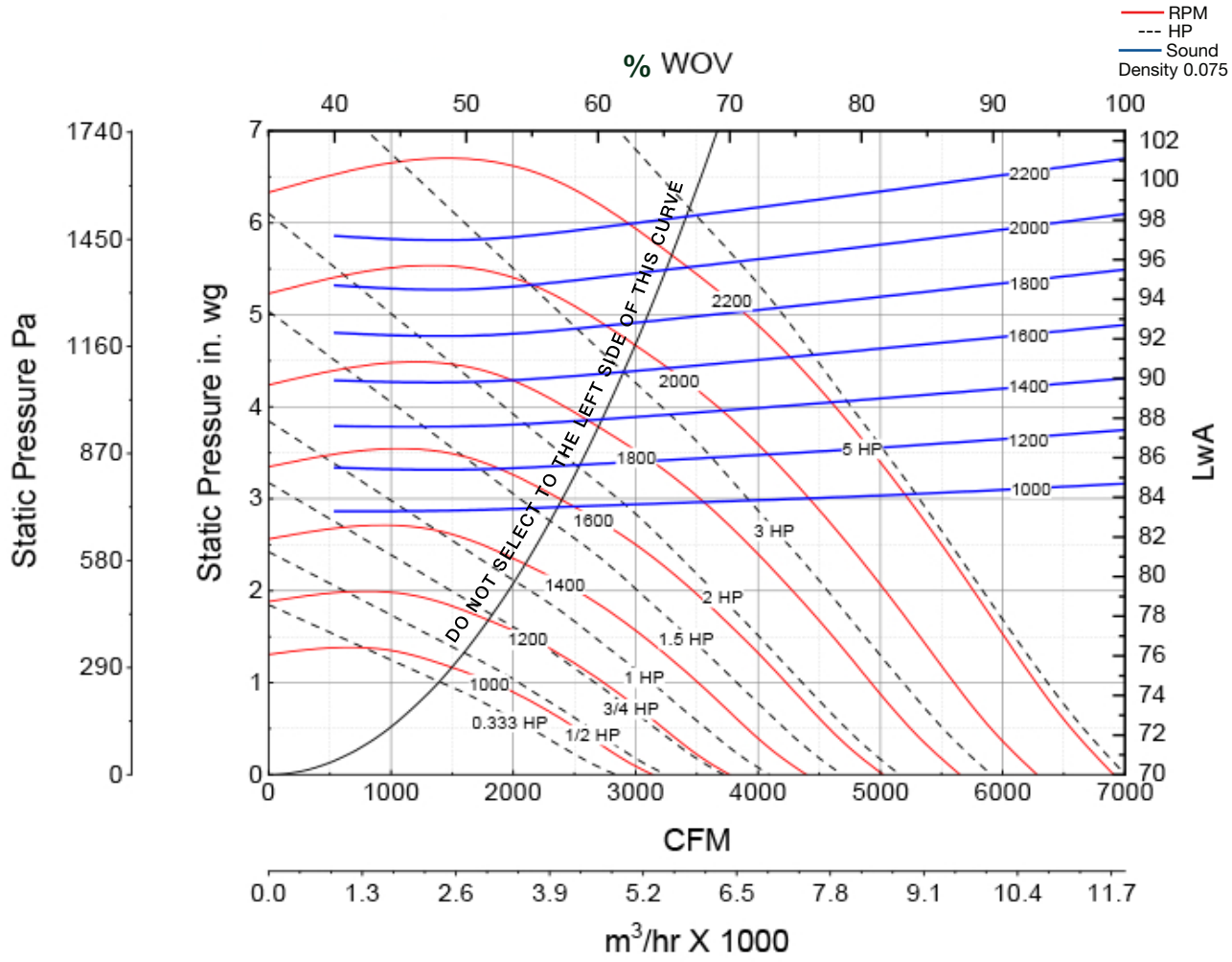


Specification Data	
Maximum Speed (rpm)	2200
Wheel Diameter (mm)	456
Maximum Size (hp)	4.97
Maximum Motor Frame Size	132M

Unit Weight* = 152 kg
Housing thickness(min) = 18 ga
Dimensions shown in milimitres
*Weight shown is largest catalogue TEFC motor position
**Dimensions shown is for TH discharge only.

AIR DATA



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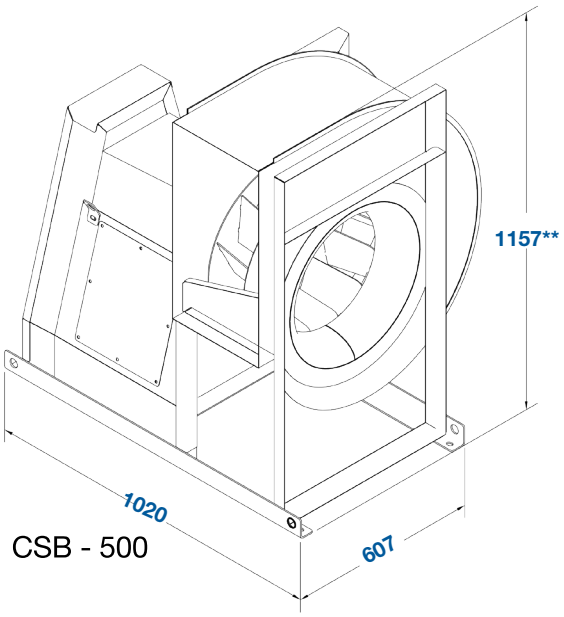
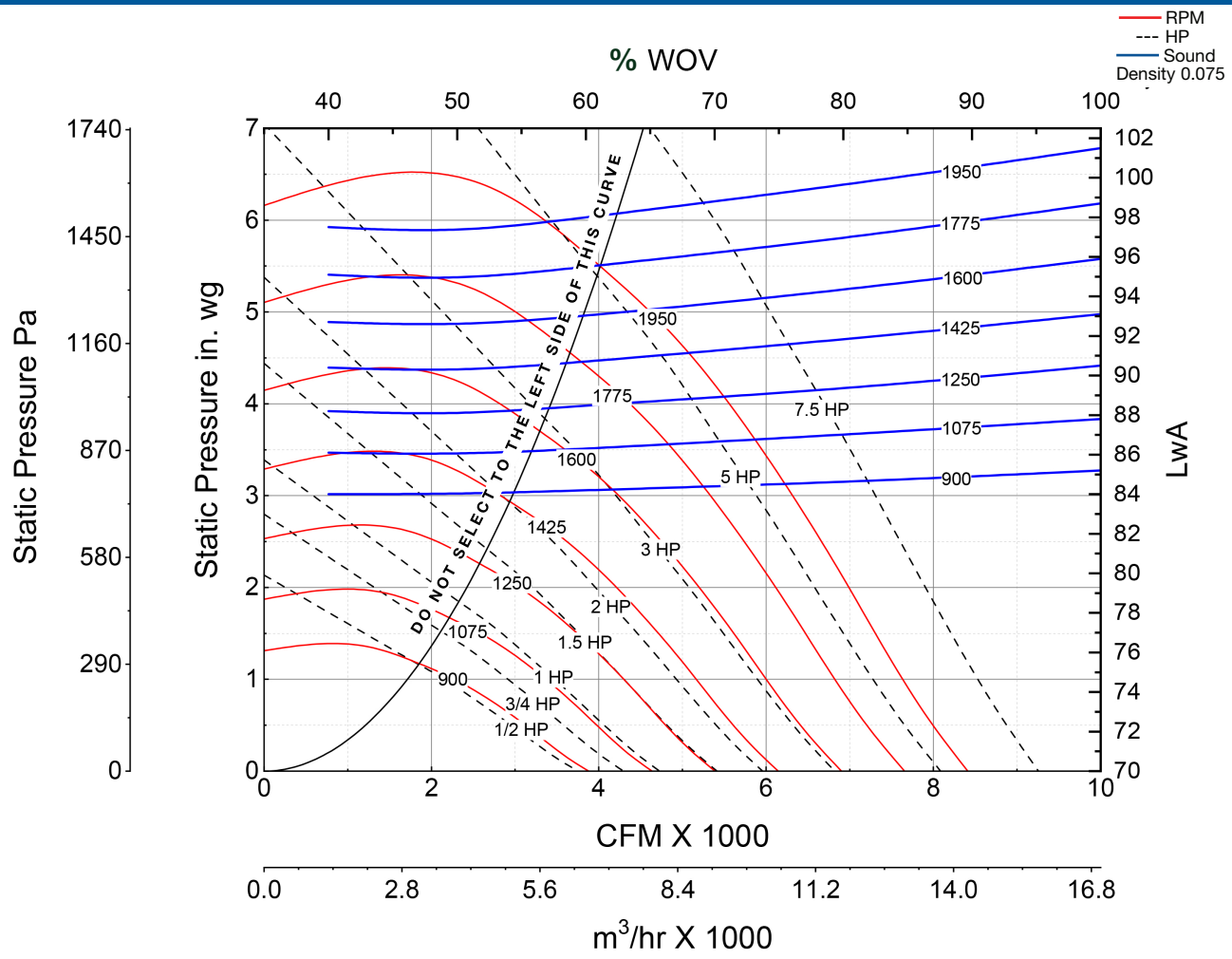
CSB-500 - Belt Drive
Class I



Specification Data	
Maximum Speed (rpm)	1950
Wheel Diameter (mm)	507
Maximum Size (hp)	5.82
Maximum Motor Frame Size	132M

Unit Weight* = 168 kg
Housing thickness(min) = 18 ga
Dimensions shown in milimitres
*Weight shown is largest catalogue TEFC motor position
** Dimensions shown is for TH discharge only.

AIR DATA



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CSB-560 - Belt Drive
Class I

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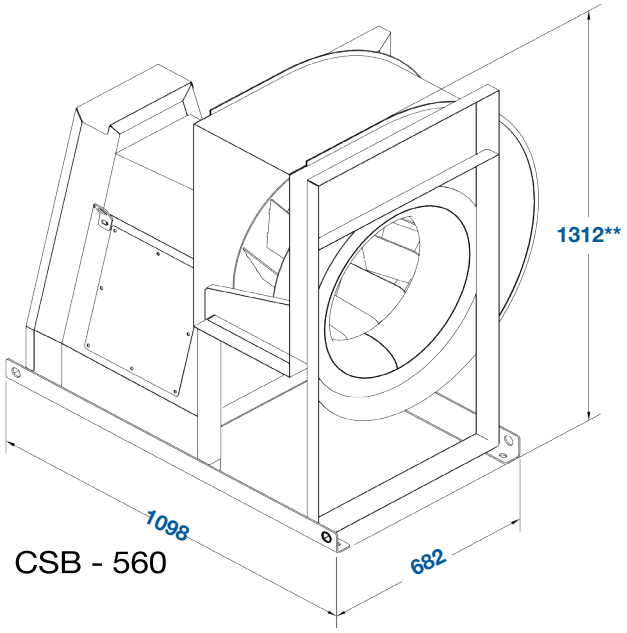

Specification Data	
Maximum Speed (rpm)	1800
Wheel Diameter (mm)	568
Maximum Size (hp)	7.37
Maximum Motor Frame Size	132M

Unit Weight* = 193 kg
Housing thickness(min) = 18 ga
Dimensions shown in milimitres
*Weight shown is largest catalogue TEFC motor position
** Dimensions shown is for TH discharge only.

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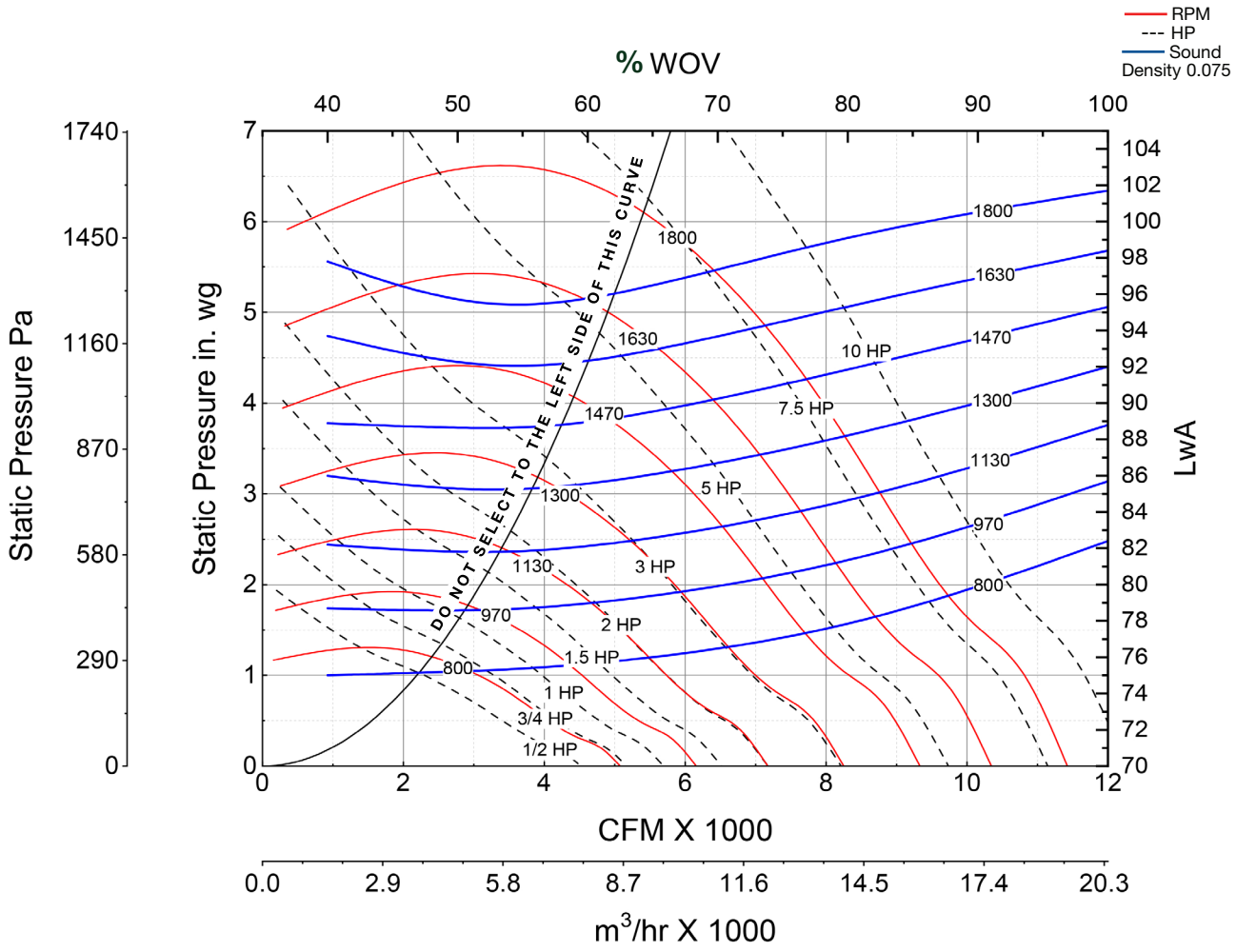

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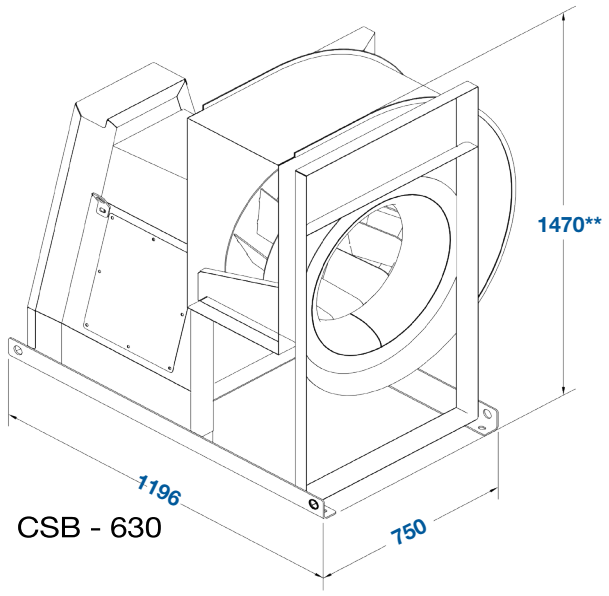
CSB-630 - Belt Drive
Class I



Specification Data	
Maximum Speed (rpm)	1500
Wheel Diameter (mm)	639
Maximum Size (hp)	7.38
Maximum Motor Frame Size	132M

Unit Weight* = 252 kg
Housing thickness(min) = 18 ga
Dimensions shown in milimitres
*Weight shown is largest catalogue TEFC motor position
**Dimensions shown is for TH discharge only.

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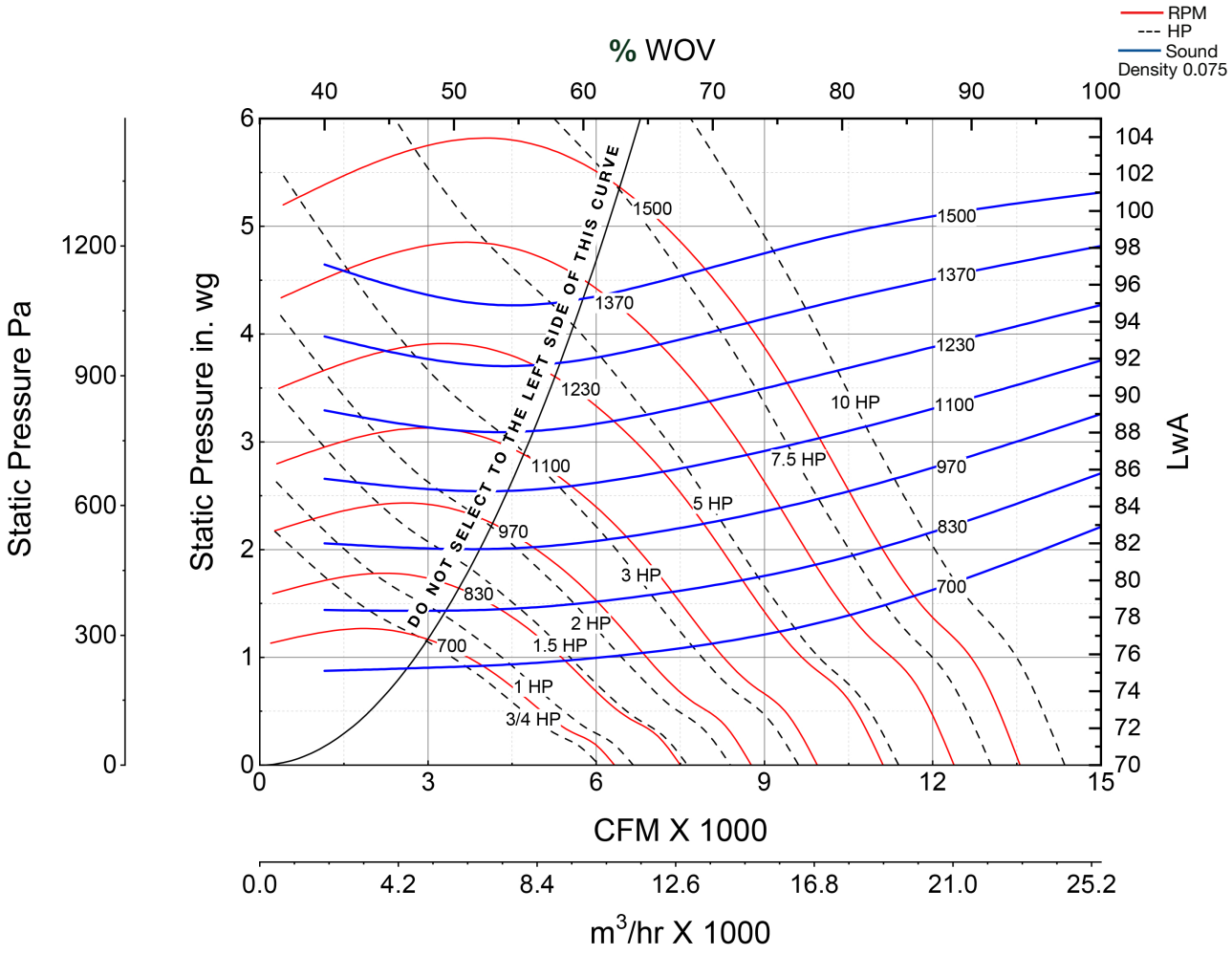

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CSB-710 - Belt Drive
Class I

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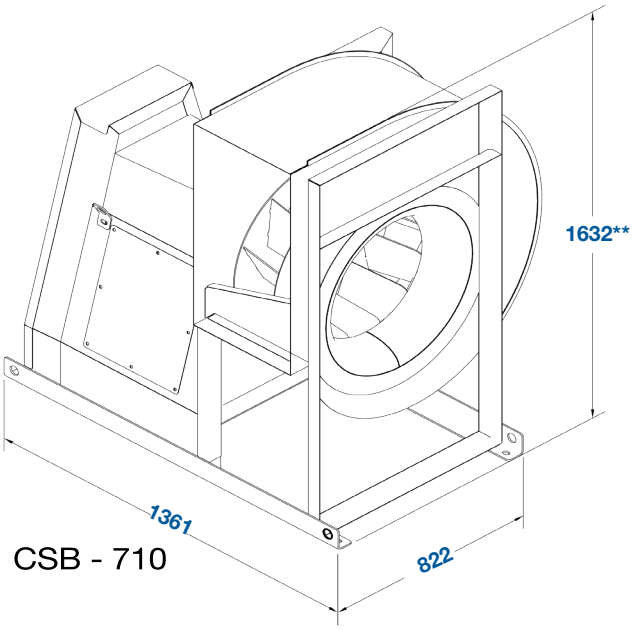
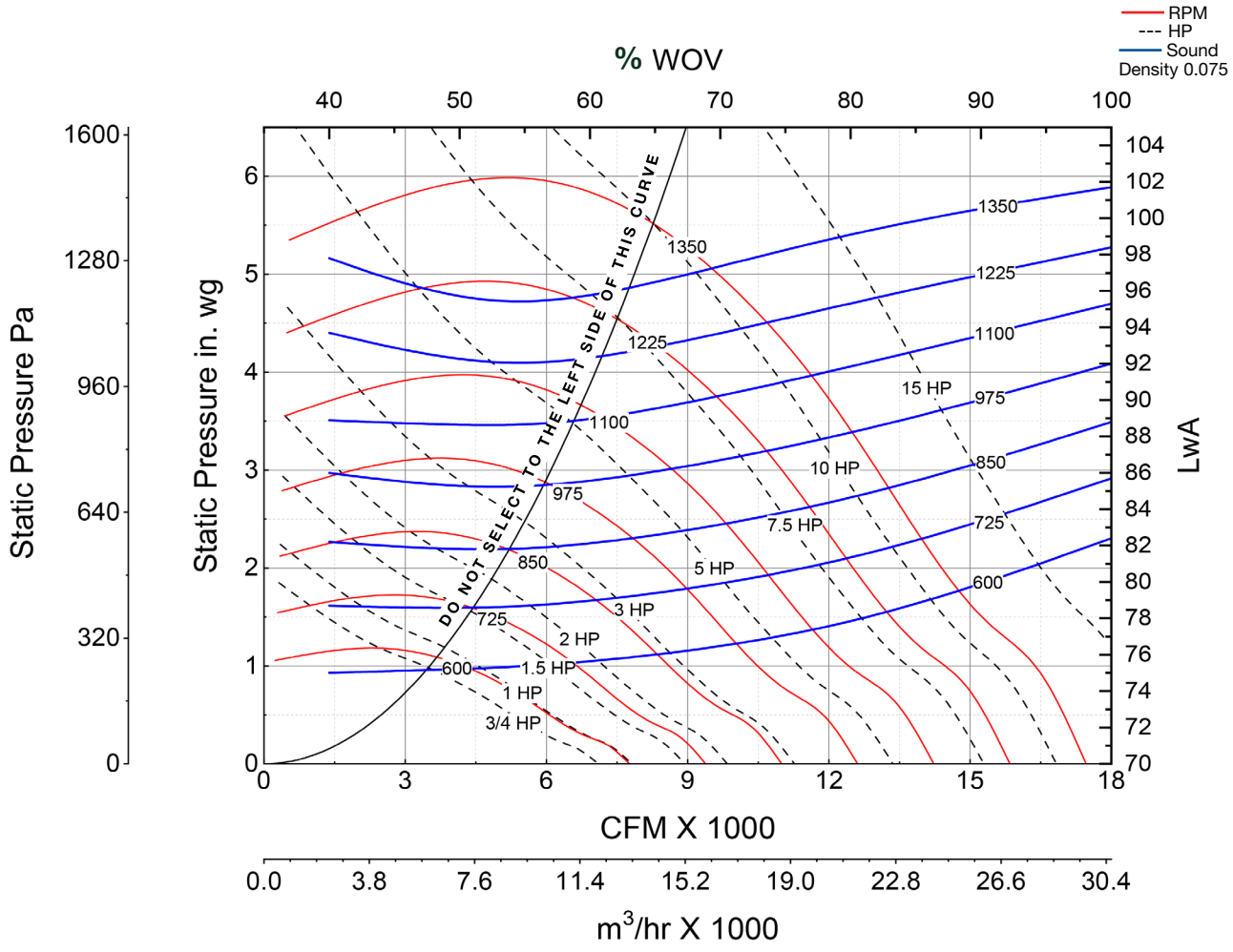


Specification Data	
Maximum Speed (rpm)	1350
Wheel Diameter (mm)	720
Maximum Size (hp)	11.55
Maximum Motor Frame Size	160L

Unit Weight* = 386 kg
Housing thickness(min) = 18 ga
Dimensions shown in milimitres
*Weight shown is largest catalogue TEFC motor position
**Dimensions shown is for TH discharge only.

AIR DATA



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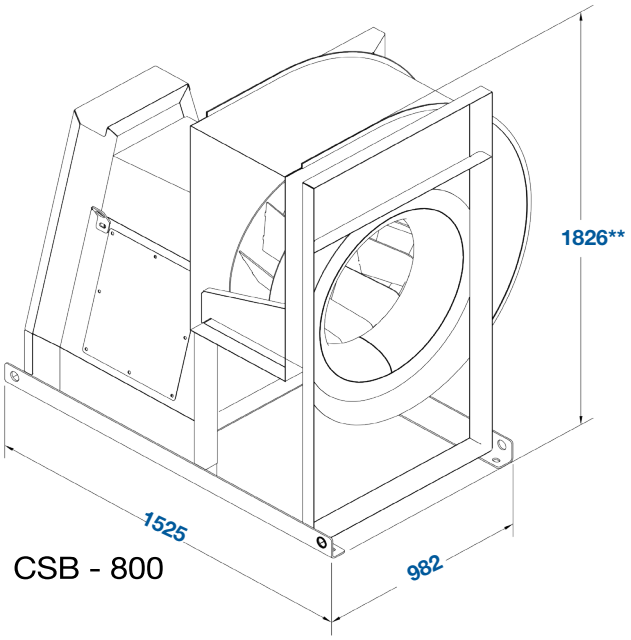
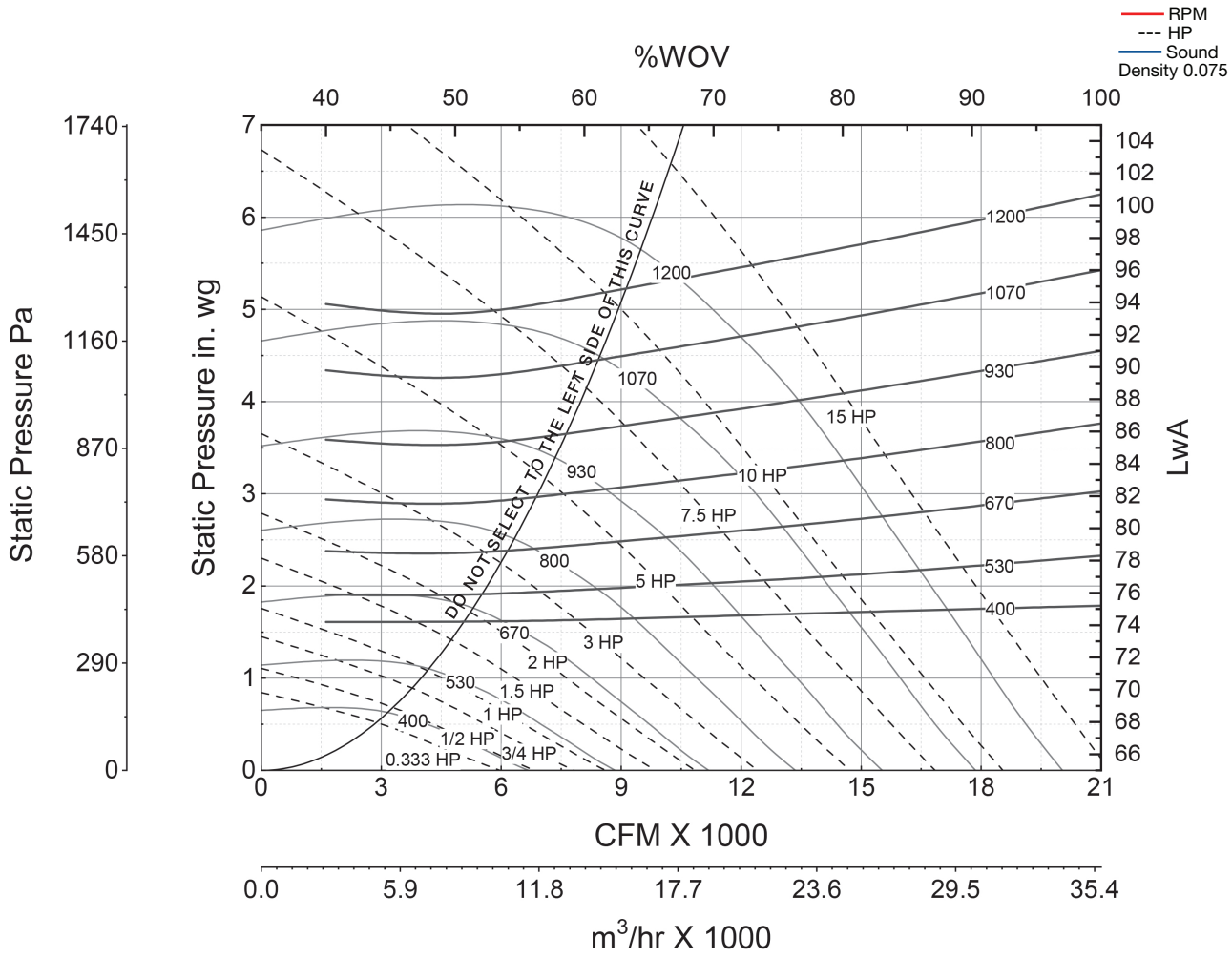
CSB-800 - Belt Drive
Class I



Specification Data	
Maximum Speed (rpm)	1200
Wheel Diameter (mm)	811
Maximum Size (hp)	12.98
Maximum Motor Frame Size	160L

Unit Weight* = 445 kg
Housing thickness(min) = 18 ga
Dimensions shown in milimitres
*Weight shown is largest catalogue TEFC motor position
**Dimensions shown is for TH discharge only.

AIR DATA



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CSB-900 - Belt Drive
Class I

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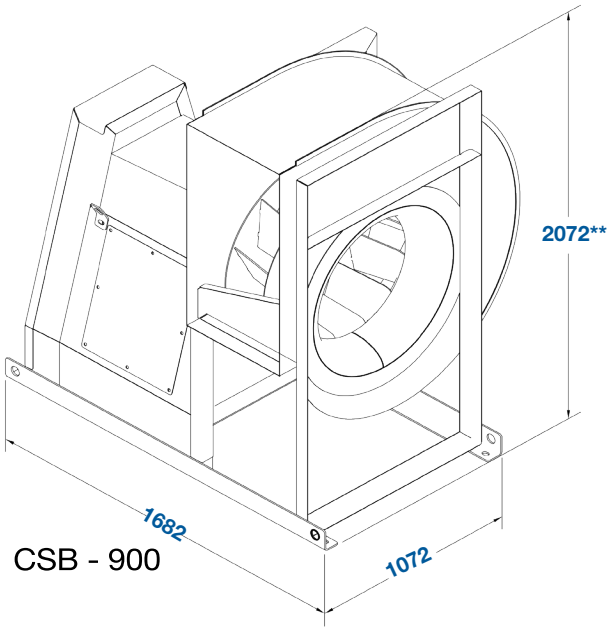
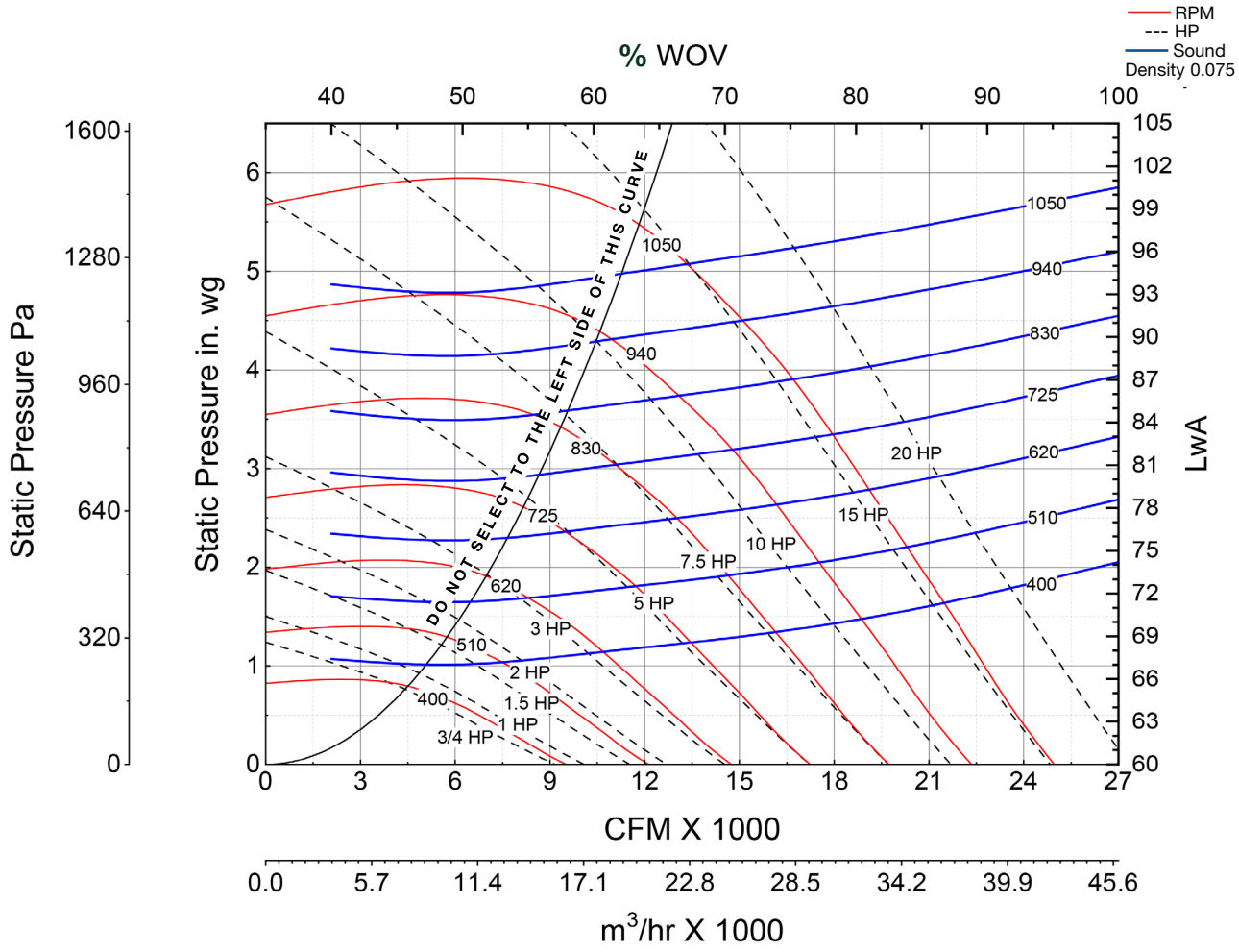


Specification Data	
Maximum Speed (rpm)	1050
Wheel Diameter (mm)	913
Maximum Size (hp)	15.67
Maximum Motor Frame Size	180L

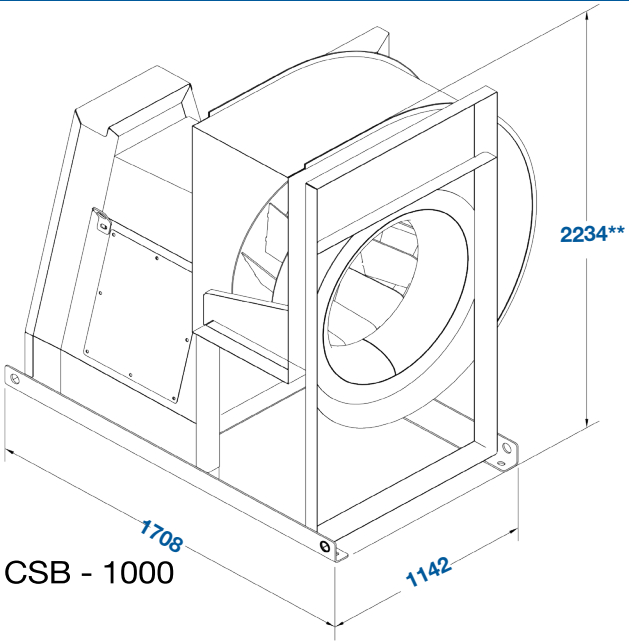
Unit Weight* = 562 kg
Housing thickness(min) = 18 ga
Dimensions shown in milimitres
*Weight shown is largest catalogue TEFC motor position
**Dimensions shown is for TH discharge only.

AIR 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 International Standard 301. Values shown are for Inlet LwiA sound power levels for: Installation Type B: free inlet, ducted outlet. 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.

CSB-1000 - Belt Drive
Class I

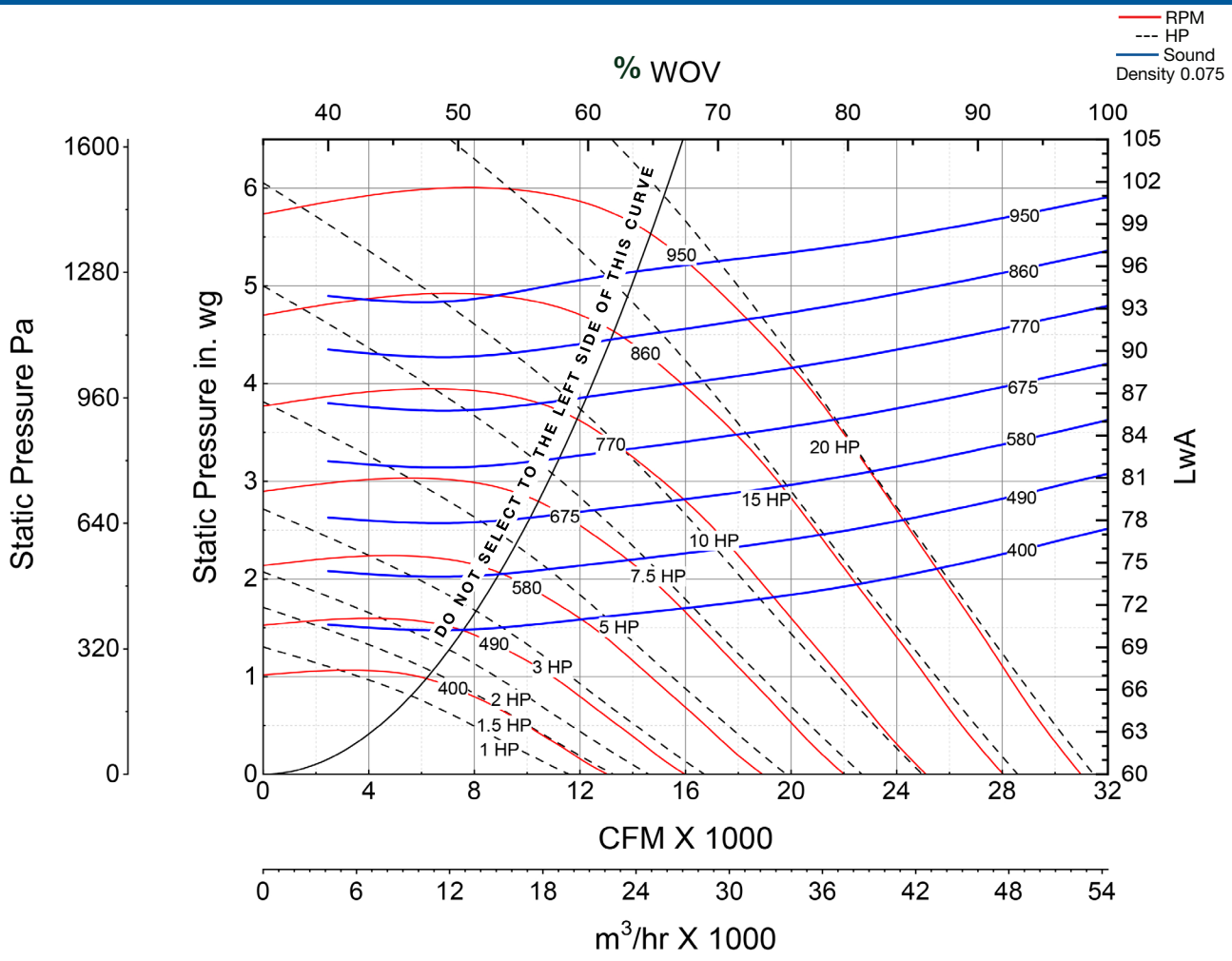


CSB - 1000

Specification Data	
Maximum Speed (rpm)	950
Wheel Diameter (mm)	1014
Maximum Size (hp)	19.59
Maximum Motor Frame Size	180L

Unit Weight* = 622 kg
Housing thickness(min) = 18 ga
Dimensions shown in milimitres
*Weight shown is largest catalogue TEFC motor position
**Dimensions shown is for TH discharge only.

AIR 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 International Standard 301. Values shown are for Inlet LwiA sound power levels for: Installation Type B: free inlet, ducted outlet. 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.

CSB-1120 - Belt Drive
Class I

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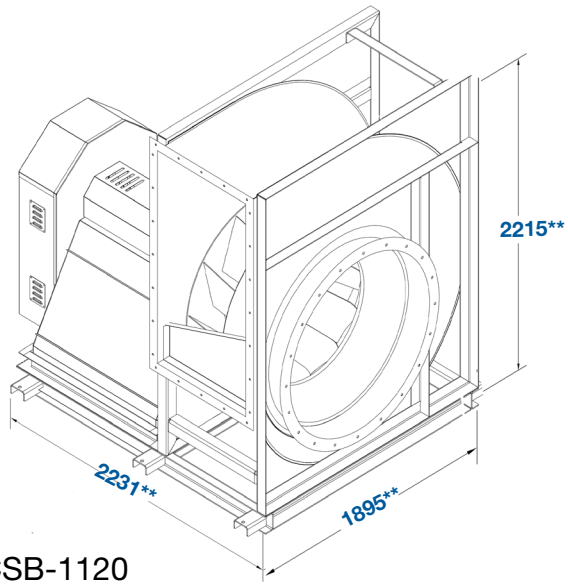
Building Value in Air.

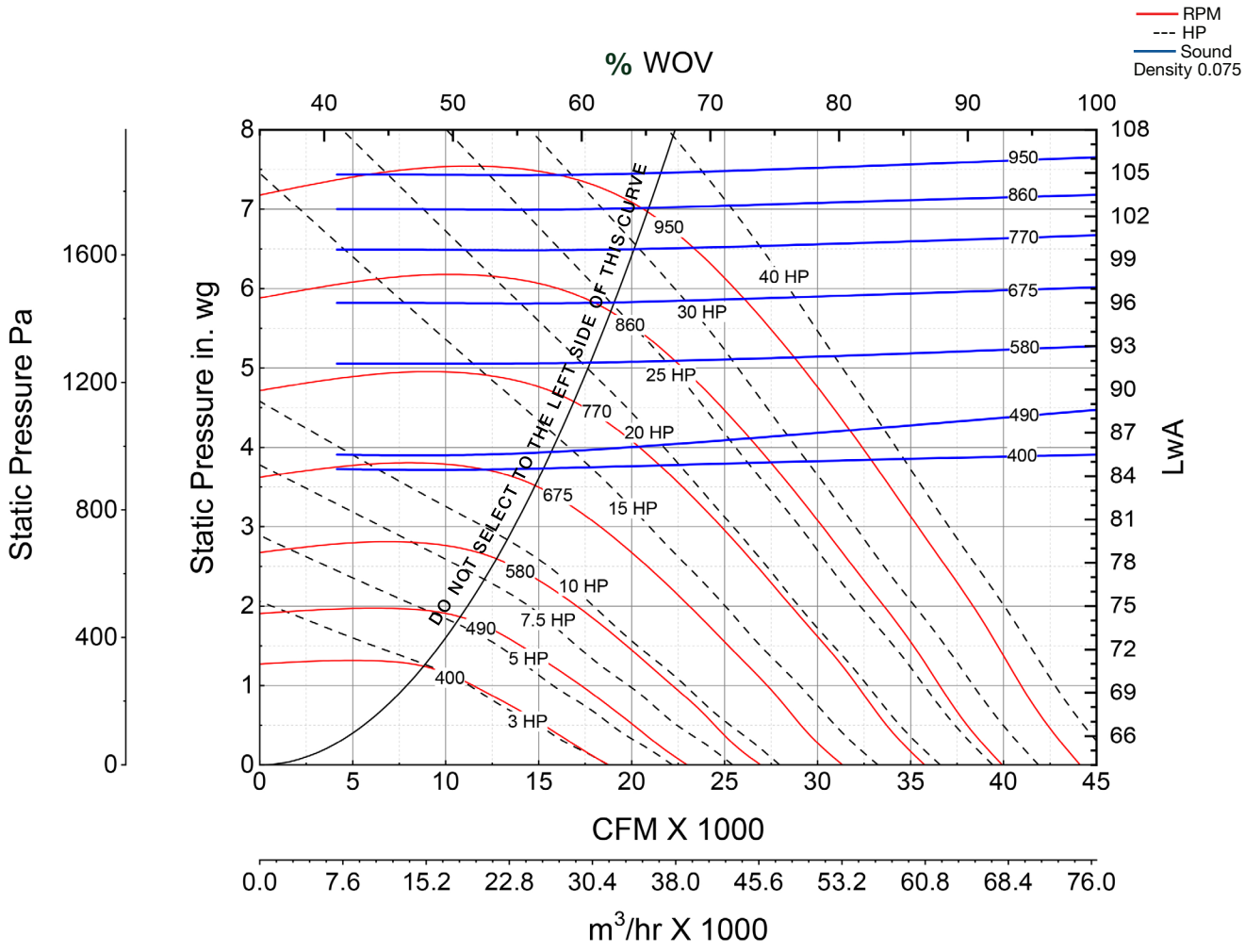


CSB-1120

Specification Data	
Maximum Speed (rpm)	900
Wheel Diameter (mm)	1136
Maximum Size (hp)	32.09
Maximum Motor Frame Size	200L

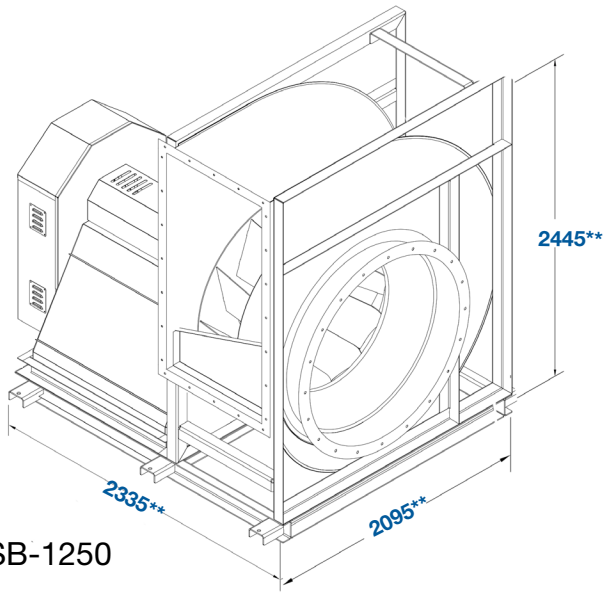
Unit Weight* = 1105 kg
Housing thickness(min) = 18 ga
Dimensions shown in milimitres
*Weight shown is largest catalogue TEFC motor
** Dimensions shown is for TH discharge only.

AIR 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 International Standard 301. Values shown are for Inlet LwiA sound power levels for: Installation Type B: free inlet, ducted outlet.

CSB-1250 - Belt Drive
Class I

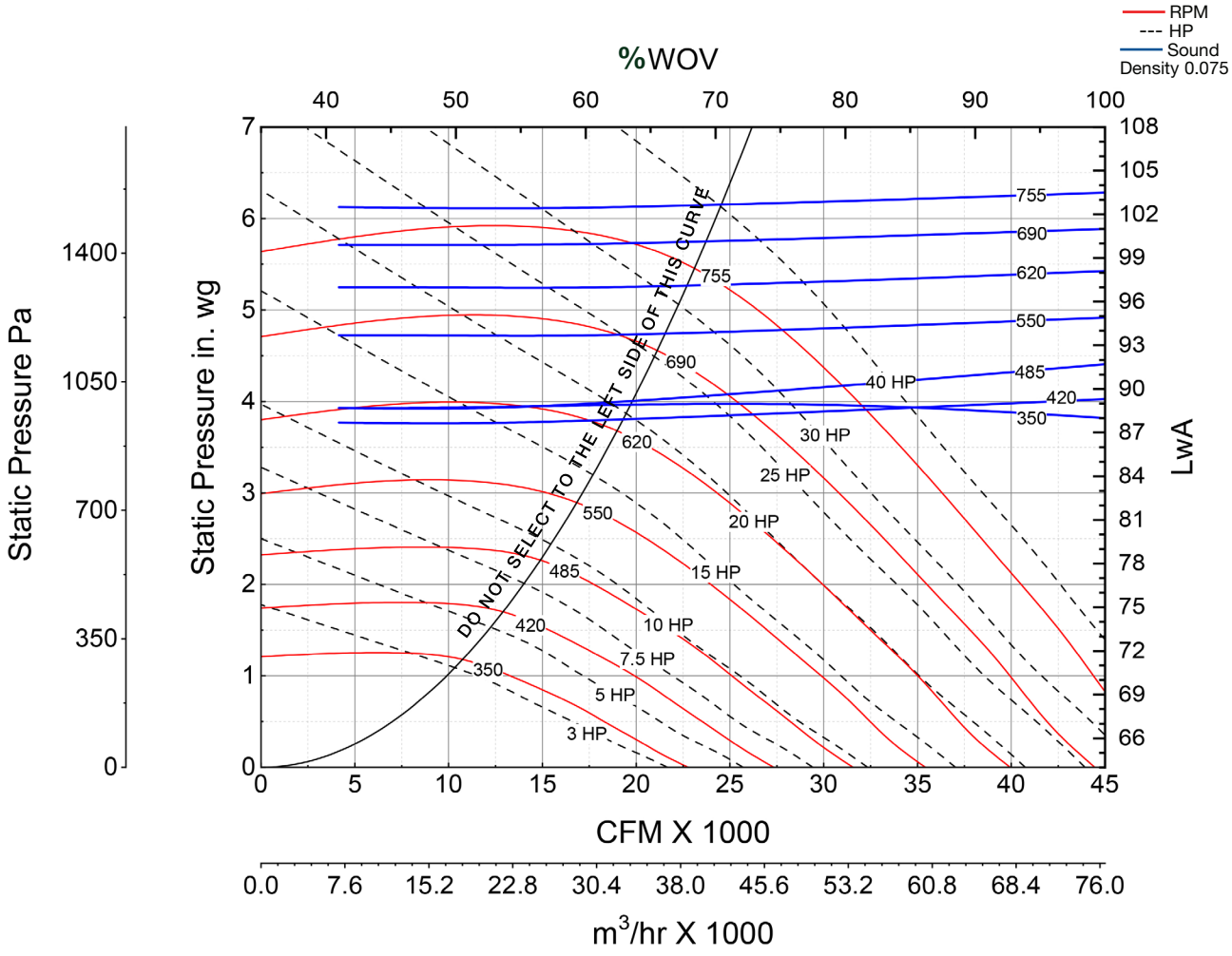


CSB-1250

Specification Data	
Maximum Speed (rpm)	780
Wheel Diameter (mm)	1267
Maximum Size (hp)	47.42
Maximum Motor Frame Size	250M

Unit Weight* = 1620 kg
Housing thickness(min) = 18 ga
Dimensions shown in milimitres
*Weight shown is largest catalogue TEFC motor
** Dimensions shown is for TH discharge only.

AIR DATA



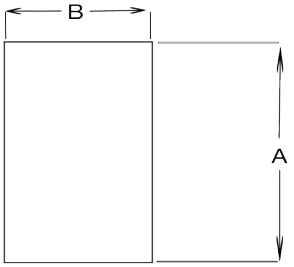
Performance certified is for installation type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (HP) does not include transmission losses. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for Inlet LwiA sound power levels for: Installation Type B: free inlet, ducted outlet.

Outlet & Inlet Connections

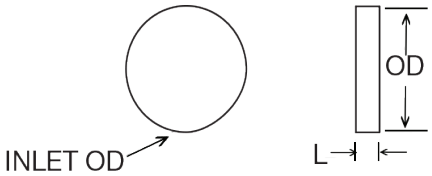
Outlet Slip Fit			Outlet-Punched								Inlet-Slip Fit		Inlet-Punched Flange					
Size	A	B	C	D	E	F	G	H	Hole Dia	No Of Holes	ID	L	ID	PCD	OD	H (Hole Dia)	Number of holes	L
315	404	208	504	308	91	60	258	454	10	20	318	70	315	355	390	10	8	175
355	452	234	552	334	103	66	284	502	10	20	358	70	355	395	440	10	8	175
400	506	255	606	354	117	71	305	556	10	20	403	70	400	450	485	12	8	175
450	568	287	668	387	132	79	337	618	10	20	453	70	450	500	527	12	8	175
500	638	321	738	421	150	88	371	688	10	20	503	70	500	560	589	12	12	175
560	714	357	814	456	169	97	407	764	10	20	563	70	560	620	651	12	12	175
630	800	403	900	503	190	108	453	850	10	20	633	70	630	690	732	12	12	175
710	898	451	998	551	214	120	501	948	10	20	713	70	710	770	798	12	16	175
800	1007	505	1109	605	151	126	557	1063	12	24	803	70	800	860	902	12	16	175
900	1130	567	1230	667	151	142	619	1182	12	24	903	70	900	970	1010	15	16	175
1000	1266	637	1366	737	151	159	690	1320	12	24	1003	70	1000	1070	1110	15	16	175
1120	1408	707	1528	827	220	182	774	1474	12	24	1120	82	1120	1190	1262	15	20	180
1250	1572	789	1692	909	277	207	856	1638	12	24	1250	82	1250	1320	1393	15	20	180

All nominal dimensions are in millimeters.

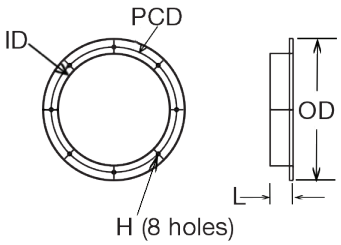
Outlet



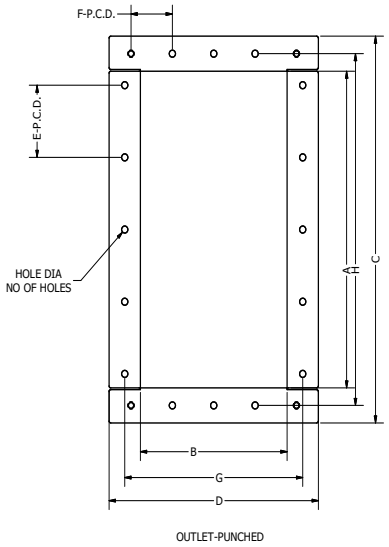
Inlet - Slip Fit



Inlet - Punched Flange



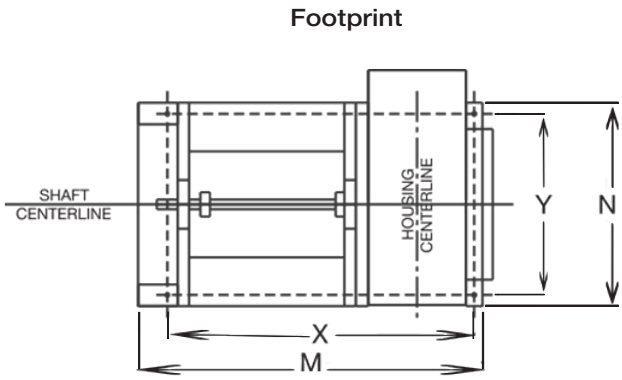
Outlet - Punched Flange

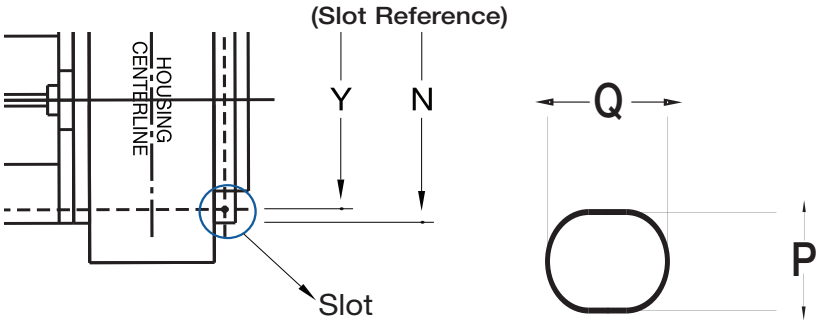


Foot Print & Slot Dimensions (315 -1000)

Size	X	Y	M	N	P	Q
315	765	305	835	350	13	18
355	789	362	859	406	13	18
400	893	405	943	453	13	18
450	936	497	986	548	13	18
500	960	545	1020	607	13	18
560	1038	620	1098	682	13	18
630	1136	700	1196	762	13	18
710	1301	760	1361	822	13	18
800	1465	915	1525	982	13	18
900	1622	1005	1682	1072	13	25
1000	1638	1075	1708	1142	13	18

All nominal dimensions are in millimeters.

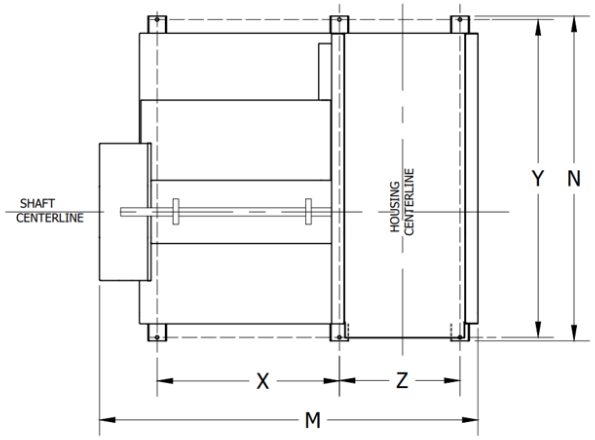




Foot Print & Slot Dimensions (1120 -1250)

Size	Orientation	X	Y	M	N	Z	P	Q
1120	**TH**	978	1855	2231	1895	809	20	60
1120	**UB**	978	2245	2231	2285	809	20	60
1120	**BH**	978	1855	2231	1895	809	20	60
1250	**TH**	952	2055	2362	2095	932	20	60
1250	**UB**	952	2476	2362	2516	932	20	60
1250	**BH**	952	2055	2362	2095	932	20	60

All nominal dimensions are in millimeters.



CCW/CW UB Dimensions (Fig. 1 & 2)

Size	Z	H	A	W
315	448	674	350	600
355	463	710	406	672
400	529	803	453	756
450	554	873	548	850
500	606	949	607	935
560	696	1083	682	1051
630	773	1196	762	1177
710	851	1317	822	1321
800	946	1504	982	1489
900	1086	1702	1072	1668
1000	1136	1807	1142	1852
1120	1168	1905	2285	2097
1250	1289	2097	2516	2328

All nominal dimensions are in millimeters.

Fig. 1 (CCW)

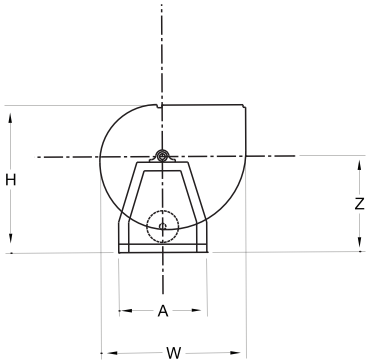
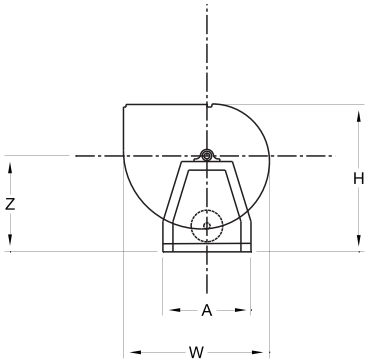


Fig. 2 (CW)



CCW/CW TH Dimensions (Fig. 3 & 4)

Size	Z	H	A	W
315	448	804	350	526
355	463	860	406	583
400	529	976	453	653
450	554	1055	548	742
500	606	1158	607	809
560	696	1314	682	912
630	773	1472	762	1010
710	851	1632	822	1127
800	946	1826	982	1303
900	1086	2073	1072	1450
1000	1136	2233	1142	1597
1120	976	2215	1895	1788
1250	1067	2445	2095	1980

All nominal dimensions are in millimeters.

Fig. 3 (CCW)

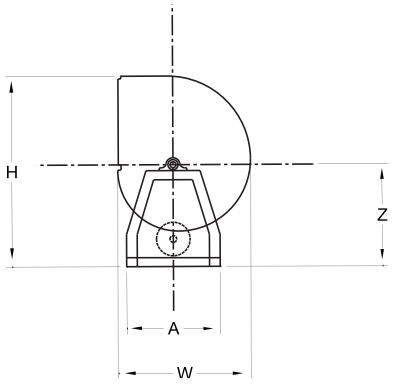
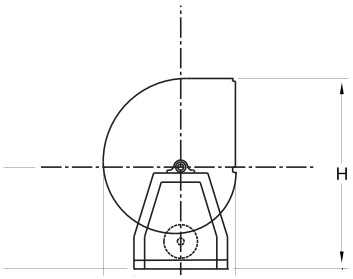


Fig. 4 (CW)



CW/CCW BH Dimensions (Fig. 5 & 6)

Size	Z	H	A	W
315	448	695	350	526
355	463	740	406	583
400	529	838	453	653
450	554	903	548	742
500	606	987	607	809
560	696	1129	682	912
630	773	1254	762	1010
710	851	1392	822	1127
800	946	1555	982	1303
900	1086	1768	1072	1450
1000	1136	1892	1142	1597
1120	1354	2215	1895	1788
1250	1495	2445	2095	1980

All nominal dimensions are in millimeters.

Fig. 5 (CW)

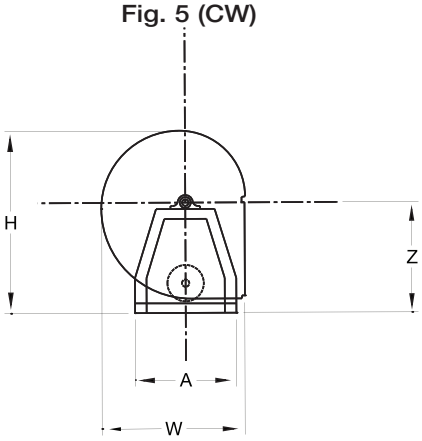
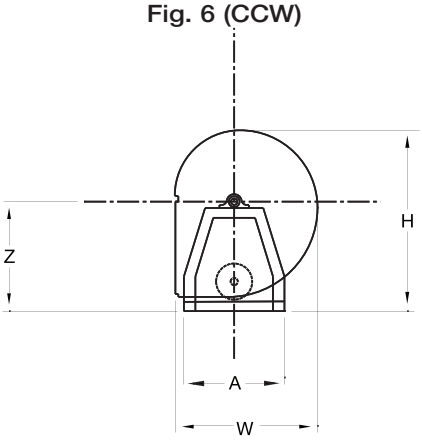
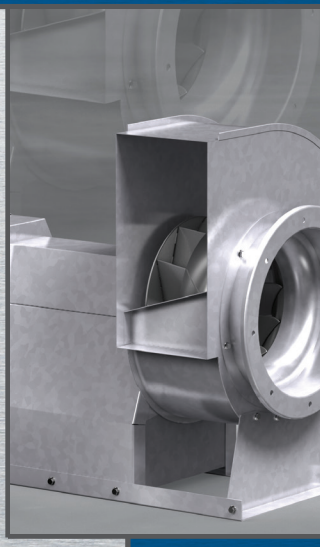


Fig. 6 (CCW)



Notes

Design and Selection Support



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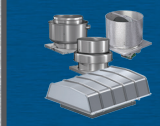

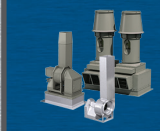

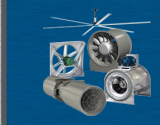

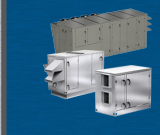

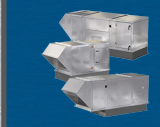

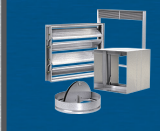

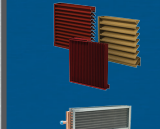

Building Value in Air

Greenheck delivers value to mechanical engineers by helping them solve virtually any air quality challenges their clients face with a comprehensive selection of top quality, innovative air-related equipment. We offer extra value to contractors by providing easy-to-install, competitively priced, reliable products that arrive on time. And building owners and occupants value the energy efficiency, low maintenance and quiet dependable operation they experience long after the construction project ends.

Our Commitment

As a result of our commitment to continuous improvement, Greenheck reserves the right to change specifications without notice.

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Greenheck India Private Ltd has been independently audited and confirmed as being in conformity with ISO 9001:2015 and ISO 14001:2015.