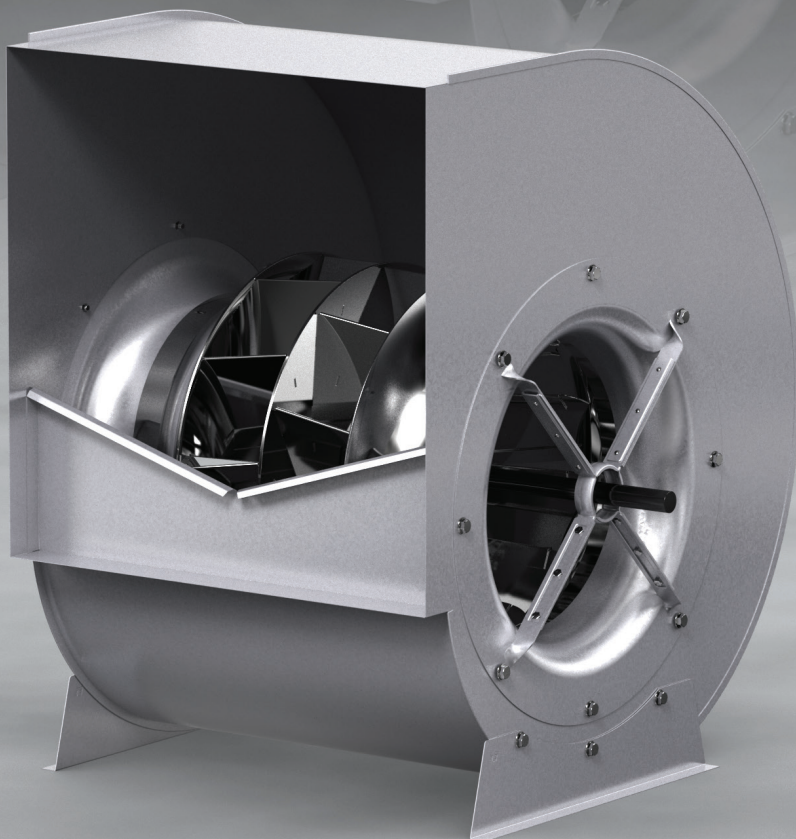


Centrifugal Double-Width Blowers Model CDB

- Backward-Inclined



BUILDING VALUE IN AIR.

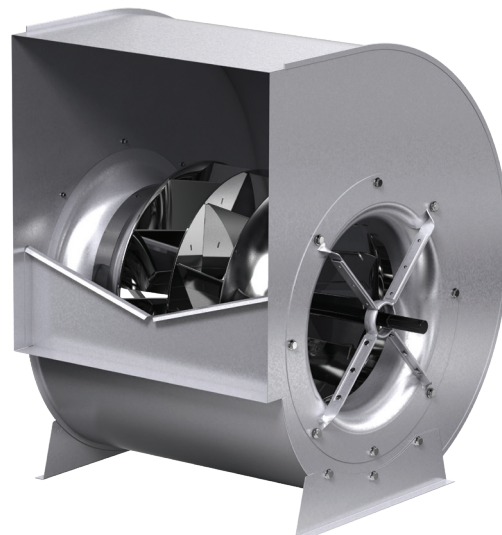


May
2026

Model CDB

Centrifugal Double-Width Blowers

Designed for supply air installations in air handling applications, which require higher performance and efficiency, Model CDB brings you the best performance at the lowest cost.



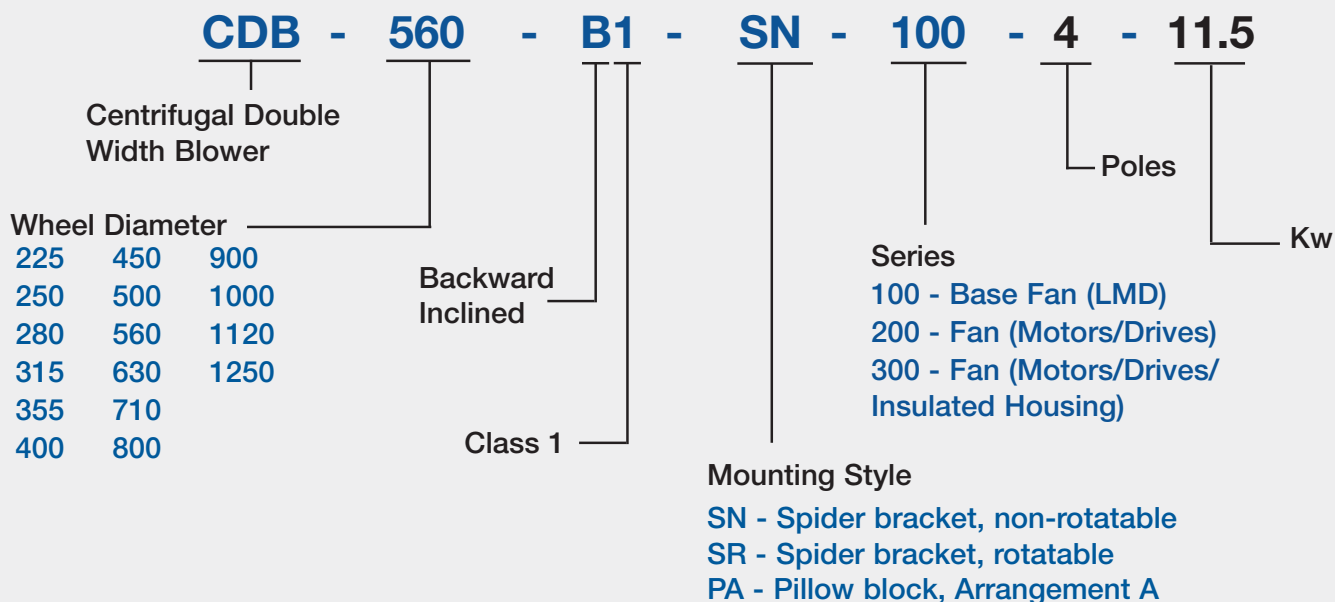
Typical Applications

- Offices
- Shopping centers
- Mid and high-rise buildings
- Hospitals and clinics
- Hotels
- Metros

Benefits

- High-efficiency optimized for air handling units
- Installation savings
- Value-based construction
- Fast and reliable lead time
- Reduced operating torque with aluminum wheel

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 CDB Sound and Air Performance Supplement.



Model CDB

Centrifugal Double-Width Blowers

Model Comparison																							
Model	Location		Mounting					Airflow				Application					Drive Type		Impeller Type			Performance	
	Outdoor	Indoor	Roof Curb	Base/Floor	Hanging	Wall	Ceiling Mounted	Exhaust	Supply	Reversible	Recirculate	Shopping Centers	Mid/High-Rise Buildings	Hospitals/Clinics	Hotels	Car Parks	Belt	Direct	Centrifugal	Propeller/Axial	Mixed Flow	Maximum Volume (cmh)	Maximum Static Pressure (Pa)
CDB	X	X		X				X	X			X	X	X	X	X	X		X			150,000	1,600

The Greenheck centrifugal double-width blower features backward-inclined wheels. These easy-to-install blowers offer high-efficiency operation and are suitable for supply or exhaust applications in air handling units (AHU) and industrial HVAC systems with up to 79% efficiency, increasing long-term savings.

- Model CDB is available in 16 sizes that cover AMCA pressure Class 1 volumes and pressures.

- Capacities range for volumes up to 150,000 cmh (88,500 cfm) and static pressures up to 1,600 Pa (6.4 in. wg).
- Licensed to bear the AMCA Sound and Air seal.
- Licensed to bear the AMCA FEI seal. 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.



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_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 Mounting Configurations

Each fan type has its maximum operating speed and power due to its mechanical design. The operating limit of different fan types of CDB models is set according to the requirement of class I as defined in AMCA Standard 99-2408-69.

Type SN

This type is supplied with mounting feet and can be mounted in three different orientations. The construction is mainly for OEM applications.

Fan Size: 225 to 315

Volume: 1,700 to 50,000 cmh

Total Pressure: up to 1,600 Pa

Type SR

This type has frames fitted on both sides of the fan, providing better strength and rigidity. It allows mounting in four different orientations.

Fan Size: 225 to 710

Volume: 1,700 to 50,000 cmh

Total Pressure: up to 1,600 Pa

Type PA

This type has a welded frame, giving increased stiffness and rigidity required for higher operating performance.

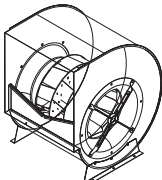
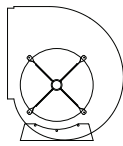
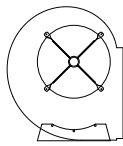
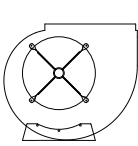
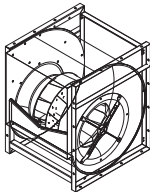
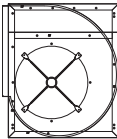
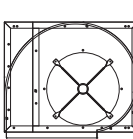
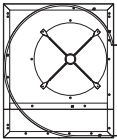
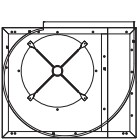
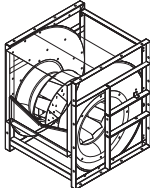
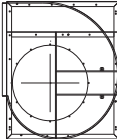
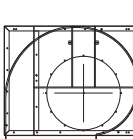
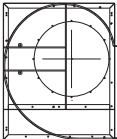
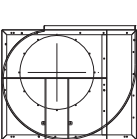
Fan Size: 800 to 1250

Volume: 16,000 to 150,000 cmh

Total Pressure: up to 1,600 Pa

Discharge Positions and Rotatable Housings

All double-width centrifugal fans are available with clockwise (CW) or counterclockwise (CCW) rotation in all standard discharge positions. **Rotation and discharge is always determined from the drive side of the fan.**

Bearing	Configuration Type	Rotation
SN - Spider Bracket Non-Rotatable		   Top Horizontal (TH) Bottom Horizontal (BH) Upblast (UB)
SR - Spider Bracket Rotatable		    Top Horizontal (TH) Bottom Horizontal (BH) Upblast (UB) Downblast (DB)
PA - Pillow Block Rotatable		    Top Horizontal (TH) Bottom Horizontal (BH) Upblast (UB) Downblast (DB)

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.

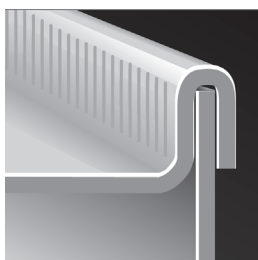
CDB models target Class I performance range for backward inclined fans, as defined by AMCA pressure class.

Housing

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

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).



Sizes	225-1250
Class	I
Housing Material	Steel - Galvanized
Wheel Type	Backward-Inclined

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.

Frames

Constructed of coated steel to reduce corrosion in humid areas and coastal regions while providing durability and saving on replacement or maintenance costs in the future.

Wheels

Greenheck's double-width, double inlet, backward-inclined wheels are constructed of aluminum (sizes: 225-315 mm) and coated steel (sizes: 355-1250 mm) providing high efficiency with low sound levels. Wheels are statically and dynamically balanced to AMCA G6.3 standard for smooth vibration-free operation.

Premium Bearings

Double-width centrifugal products are manufactured with "air handling quality" self-aligning bearings with insert or housed pillow block type. The adapter sleeve collar lock ensures smooth operation and provides superior grip force between the bearing collar and fan shaft. 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 a 10% failure rate after the stated hours.

Insert bearings on sizes up to 710 and pillow block bearings for sizes 800 to 1250. Standard bearing life is L_{10} life in excess of 40,000 hours.

Vibration Analysis

All Greenheck double-width products undergo a complete mechanical vibration test after assembly. Our custom data acquisition system uses tri-axial accelerometers to measure the vibration in three planes at the design operating speed. A permanent record for each fan's performance is kept on file and is available upon request.

The standard "filter-in" vibration levels attained meet the requirements of Fan Application BV-3 as defined in AMCA Standard 204-05 "Balance Quality and Vibration Levels for Fans". Consult the factory if more stringent vibration levels are necessary.

Drive Type	Filter-In Vibration Limit (Rigidly Mounted)
Belt, Arrg. 3	0.15 in/sec-pk

Optional Accessories

Scroll Stiffener

Reduces vibration of the housing by providing additional structural rigidity resulting in lower sound levels. This often is applied in the absence of an outlet duct connection and/or insulated housing.

Double-Sided Shaft

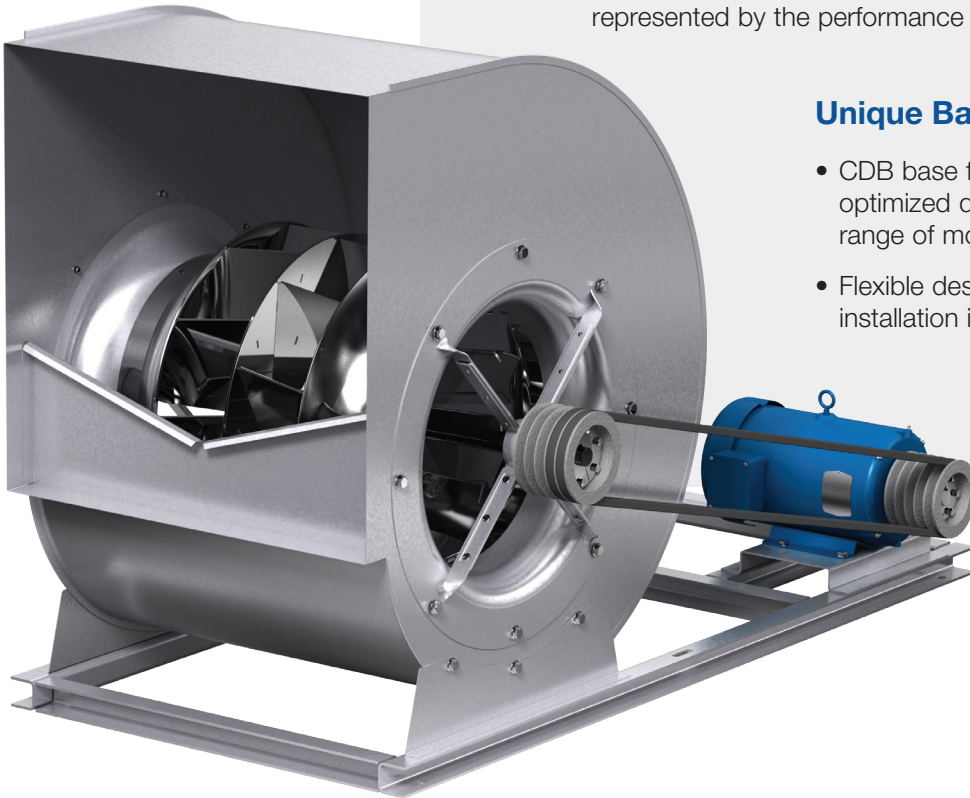
Allows for motor mounting options on either side of the fan and the option to couple two fans in tandem.

Motor Selection

- CDB-200 series offers motors and drive set along with a motor base frame.
- Motors should be selected based on the absorbed power at the operating point represented by the performance curves.

Unique Base Frame Design

- CDB base frames offer a compact and optimized design to accommodate a range of motor frame sizes and positions.
- Flexible design allows for motor installation in CW and CCW configuration.



Insulated Housing

- CDB 300 series offers an easy-to-install insulated housing incorporated with the CDB blower and motor.
- Insulated housing is constructed with a hollow aluminum profile and double skin galvanized steel panels with CFC-free PUF insulation ensuring robust operation at low noise levels.
- Fan can be accessed through the side panels.
- Provided with inlet and outlet flange for duct connections.
- Available inlet filter section as an option.

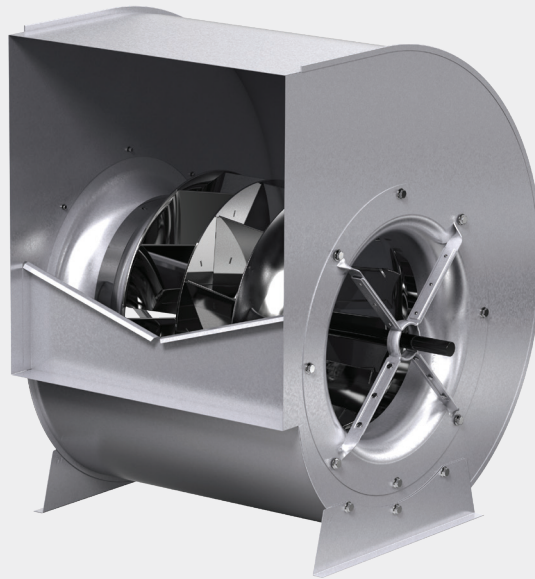


Model
CDB-100

Base Fan, LMD

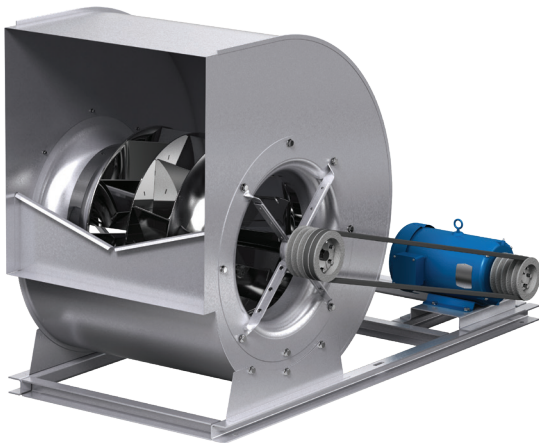
Application

- Air handling units



Model
CDB-200

Fan with Motors / Drives



Model
CDB-300

Fan with Motors / Drives
in Insulated Housing



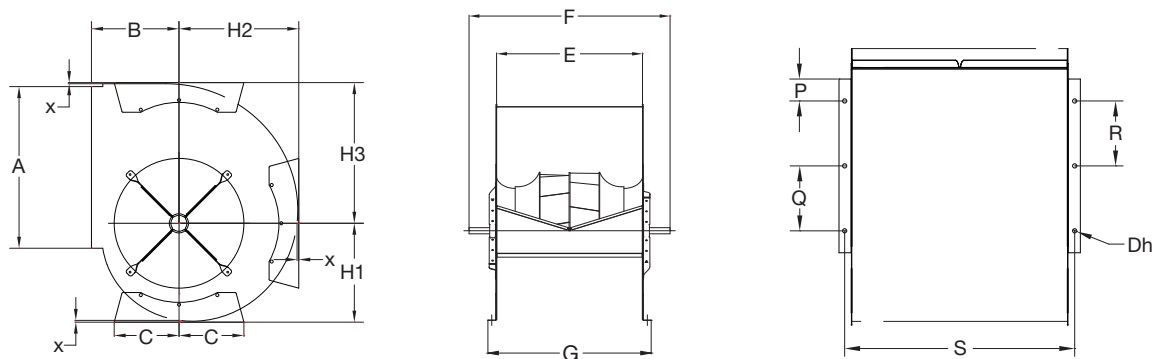
Supply and Exhaust Applications for:

- Offices
- Mid and high-rise buildings
- Hotels
- Shopping center
- Hospitals and clinics
- Metros

CDB-100 Series

Dimensional Information

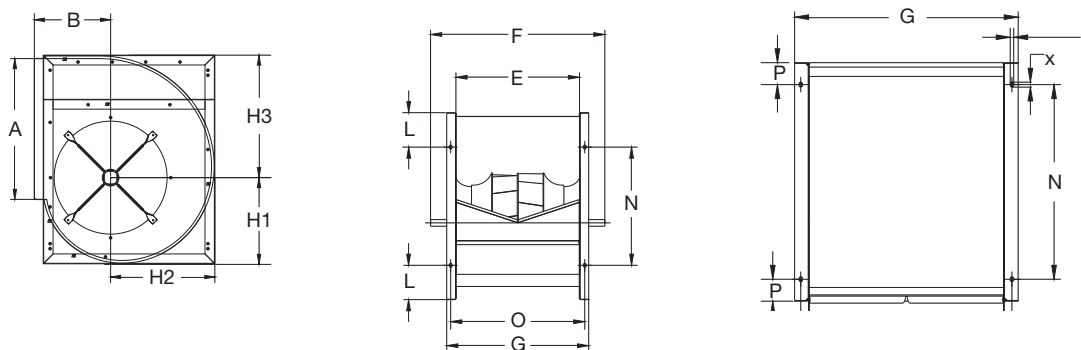
Mounting Arrangement SN (225-710)



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	360	53	62	62	332	27x9	20
250	322	189	128	5	203	246	288	322	486	393	53	75	75	365	27x9	20
280	358	206	143	5	225	273	321	358	556	430	53	90	90	402	27x9	20
315	404	226	161	5	251	305	359	404	600	486	53	108	108	450	27x9	20

All nominal dimensions are in mm.

Mounting Arrangement SR (225-450)



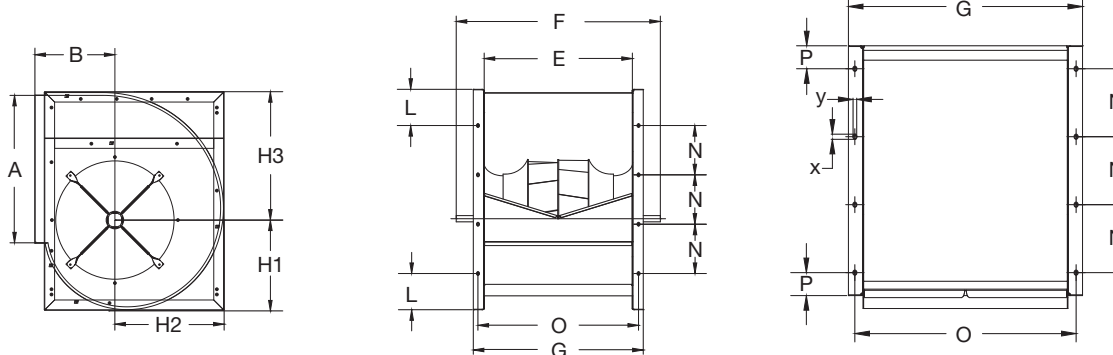
Size	A	B	H1	H2	H3	E	F	G	L	N	O	P	x	y	Shaft Diameter
225	288	175	185	223	261	288	452	356	104	238	325	65	12	9	20
250	322	189	203	246	288	322	486	388	108	274	359	65	12	9	20
280	358	206	225	273	321	358	556	424	113	319	395	65	12	9	20
315	404	226	251	305	359	404	600	474	120	371	444	65	16	11	20
355	452	247	279	340	402	452	672	534	127	427	498	65	16	11	30
400	506	274	313	381	450	506	726	588	134	495	552	65	16	11	30
450	568	319	351	428	505	568	798	650	157	541	614	80	18	13	35

All nominal dimensions are in mm.

CDB-100 Series

Dimensional Information

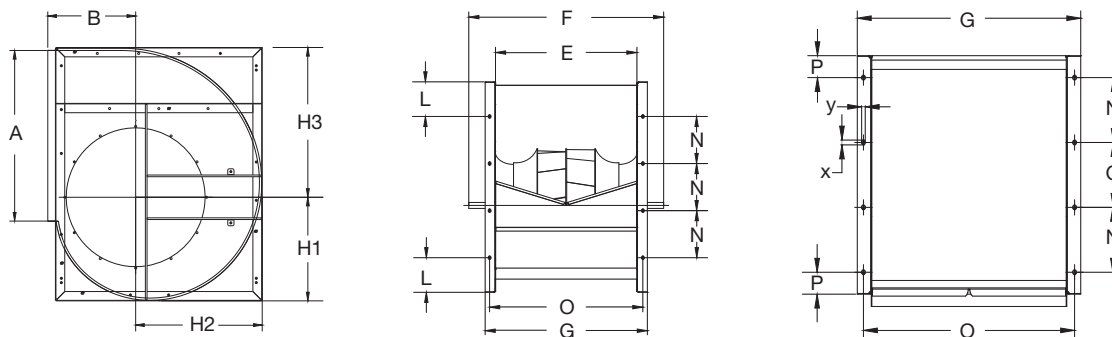
Mounting Arrangement SR (500-710)



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	698	80	18	13	35
560	714	387	437	529	621	714	980	818	174	237	771	80	18	13	40
630	800	420	485	592	699	800	1079	904	189	269	862	80	18	13	45
710	898	466	544	664	786	898	1208	1002	202	309	961	80	22	17	50

All nominal dimensions are in mm.

Mounting Arrangement PA (800-1250)



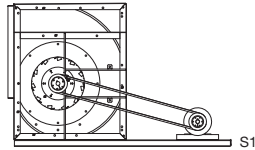
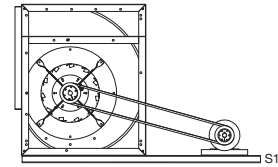
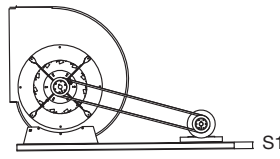
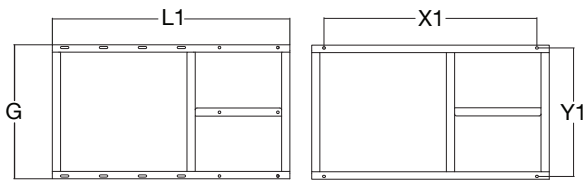
Size	A	B	H1	H2	H3	E	F	G	L	N	Q	O	P	x	y	Shaft Diameter
800	1006	518	611	746	883	1006	1368	1118	174	382	326	1069	65	22	17	55
900	1130	616	685	838	991	1130	1521	1252	274	376	376	1204	120	22	17	65
1000	1266	671	759	928	1100	1266	1677	1388	292	425	425	1340	120	22	17	70
1120	1422	739	848	1038	1230	1422	1800	1572	309	487	487	1493	116	22	17	75
1250	1524	813	941	1155	1371	1524	1975	1686	333	549	549	1596	116	22	17	80

All nominal dimensions are in mm.

CDB-200/300 Series

Dimensional Information

CDB-200 Mounting Arrangement Base Frame, SN, SR, & PA



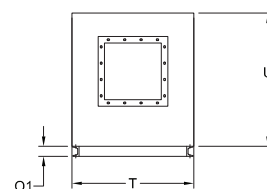
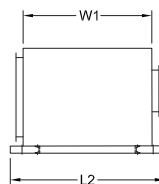
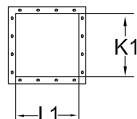
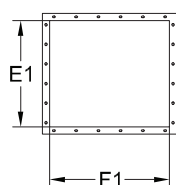
Size	L1	G	X1	Y1	S1
225	719	354	599	332	50
250	771	388	651	365	50
280	824	424	704	402	50
315	887	474	767	450	50
355	991	534	871	504	50
400	1115	588	995	558	50
450	1179	648	942	620	60
500	1243	740	1093	700	80
560	1446	821	1296	771	80
630	1554	902	1404	862	80
710	1861	1008	1711	965	80
800	1969	1118	1849	1069	100
900	2320	1255	2090	1204	120
1000	2336	1391	2106	1340	120
1120	2496	1572	2274	1494	120
1250	2808	1686	2578	1596	120

All nominal dimensions are in mm.

CDB-200/300 Series

Dimensional Information

CDB-300 Insulated Housing



CDB-300 Box dimensions (without filter)						
Size	W1	T	U (TH/BH)	U(UB)	O1	L2
225	905	730	730	711	80	719
250	960	800	765	754	80	771
280	1020	900	810	810	80	824
315	1100	1000	850	862	80	887
355	1190	1130	920	947	80	991
400	1290	1260	1000	1041	80	1115
450	1400	1400	1100	1142	80	1179
500	1520	1550	1185	1246	80	1243
560	1640	1720	1350	1425	80	1446
630	1780	1930	1450	1555	80	1554
710	2000	2160	1630	1763	80	1861
800	2200	2430	1820	1983	80	1969
900	2450	2700	2000	2155	80	2127
1000	2600	3000	2200	2393	80	2336
1120	2940	3380	2490	2724	100	2496
1250	3210	3720	2670	2947	100	2808

All nominal dimensions are in mm.

CDB-300 Box dimensions (with filter)						
Size	W1	T	U (TH/BH)	U (UB)	O1	L2
225	1105	730	730	711	80	719
250	1160	800	765	754	80	771
280	1220	900	810	810	80	824
315	1300	1000	850	862	80	887
355	1390	1130	920	947	80	991
400	1490	1260	1000	1041	80	1115
450	1600	1400	1100	1142	80	1179
500	1720	1550	1185	1246	80	1243
560	1840	1720	1350	1425	80	1446
630	1980	1930	1450	1555	80	1554
710	2200	2160	1630	1763	80	1861
800	2400	2430	1820	1983	80	1969
900	2650	2700	2000	2155	80	2127
1000	2800	3000	2200	2393	80	2336
1120	3100	3340	2450	2724	100	2496
1250	3390	3700	2650	2947	100	2808

All nominal dimensions are in mm.

CDB-Insulated Housing-Inlet/Outlet Connections					
Size	Inlet Connections			Outlet Connections	
	E1 (TH/BH)	E1 (UB)	F1	L1	K1
225	670	651	670	288	288
250	685	674	720	322	322
280	730	730	820	358	358
315	790	802	940	404	404
355	840	867	1050	452	452
400	940	981	1200	506	506
450	1020	1062	1320	568	568
500	1105	1166	1470	638	638
560	1290	1365	1660	714	714
630	1370	1475	1850	800	800
710	1550	1683	2080	898	898
800	1760	1923	2370	1006	1006
900	1920	2075	2620	1130	1130
1000	2120	2313	2920	1266	1266
1120	2390	2624	3280	1422	1422
1250	2570	2847	3620	1524	1524

All nominal dimensions are in mm.

Design and Selection Support

Enjoy Greenheck's extraordinary service, before, during and after the sale.

Greenheck offers added value to our wide selection of top performing, energy-efficient products by providing several unique Greenheck service programs.



- Greenheck's free Computer Aided Product Selection program (CAPS®), rated by many as the best in the industry, helps you conveniently and efficiently select the right products for the challenge at hand.

Find out more about these Greenheck services at
www.greenheck.co.in

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.