

# AEROVENT

INDUSTRIAL VENTILATION SYSTEMS



## **AIRFOIL FANS**

**Model CAE-SW / CAE-DW**

# Airfoil Fans

## Models

### CAE SWSI | CAE DWDI Featuring the E-Series Wheel



**CAE-SW  
Arrangement 9**



**CAE-DW  
Arrangement 3**

This catalog features the new CAE airfoil wheel design. It includes both the SWSI (single width, single inlet) and the DWDI (double width, double inlet) designs. The newly designed airfoil blades offer higher efficiencies and better sound characteristics than our previous designs.

Please discuss your particular application with the Aerovent representative for your area.

Aerovent has established itself as a leader in the design and manufacture of quality air moving equipment and continues to advance by implementing a philosophy that stresses quality in all of its operations. Our products are known for their rugged construction and reliability of operation. Aerovent offers flexibility in design and construction of fans coupled with superior service before and after the sale.

### Model CAE-SW

#### Sizes

12.25" to 98.25" wheel diameters

#### Performance

Airflow to 233,100 CFM

Static pressure to 20" w.g.

#### Arrangements

Available in Arrangements 1, 3, 4, 8, 9, 9F, 10

### Model CAE-DW

#### Sizes

12.25" to 89" wheel diameters

#### Performance

Airflow to 419,500 CFM

Static pressure to 14" w.g.

#### Arrangements

Available in Arrangements 3, 3F



Aerovent, A Twin City Fan Company, certifies that the Model CAE SWSI and CAE DWDI fans 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 comply with the requirements of the AMCA Certified Ratings Program.

Refer to Catalog 726 for sound power levels.



Models CAE-SW and CAE-DW are available with the UL/cUL 705 listing for electrical, File No. E158680.

## Wheel Construction

High efficiency, non-overloading airfoil wheels are provided on all sizes and arrangements. Wheels shall have precision spun, flat inlet cones to allow higher efficiencies over the performance range of the fan. Aluminum wheels using extruded aluminum blades are provided as standard on sizes 245 and smaller and are available as an option on larger units.

The CAE-DW wheels shall have staggered blades for improved sound characteristics. All hollow blade wheels shall be continuously welded around all edges. All wheels shall be statically and dynamically balanced on precision electronic balancers to a Balance Quality Grade G6.3 per ANSI/AMCA 204 or better.

## Housing Construction

All fan housings are continuously welded to provide strength and durability for extended service life — a necessity in all commercial and industrial installations.

All housings are reinforced with rigid bracing to increase structural integrity. The support angles are intermittently welded and caulked between welds to prevent bleed-through corrosion. Precisely positioned cutoff plates and aerodynamically spun inlet cones provide high efficiency and smooth airflow through the fan. The housing construction and dimensions are exactly the same as our current CBA fan design.

All fans are available in standard discharge configuration. CAE-SW fans Class I and II, sizes 270 and smaller in Arrangements 1, 4, and 9 are field rotatable to any standard discharge position. To help reduce overall heights, all CAE-DW fans feature a non-rotatable housing design as standard.

## Shaft

Shafts are AISI Grade 1040 or 1045 hot-rolled steel accurately turned, ground, polished, and ring gauged for accuracy. Shafts are generously sized for a first critical speed of at least 1.43 times the maximum speed for the class.

## Bearings

Bearings are heavy duty, grease lubricated, spherical roller or anti-friction ball (CAE-DW bearings are adapter mounted), self-aligning, pillow block type, selected for minimum average bearing life (AFBMA L-50) in excess of 200,000 hours at the maximum fan RPM.

## Mechanical Run Test & Final Vibration Check

All fans are assembled for a mechanical run test and final balance prior to shipment. Vibration readings are taken on both fan bearings in the axial, horizontal, and vertical directions at the specified speed. Fans are balanced to 0.15 in./sec. peak or less.



**CAE-DW wheel with hollow airfoil blades staggered for improved sound quality**



**CAE-SW wheel with hollow airfoil blades continuously welded to the rim and backplate**



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# SWSI Arrangements



Arrangement 1 fan with optional unitary base, shaft and V-belt drive guard.

## Arrangement 1 SWSI — Single Width, Single Inlet

Arrangement 1 fans are usually belt driven. The wheel is overhung on the shaft, i.e., mounted at the end of the shaft. The motor can be mounted in any of the four AMCA standard motor positions, W, X, Y, or Z. The two fan bearings are mounted on the bearing pedestal, out of the airstream. Arrangement 1 fans are thus recommended for high temperature or contaminated air applications. Belt driven configurations offer performance flexibility. If the performance requirements change after the fan has been installed, it is simple and inexpensive to change the drive.

Extended lube line at inlet — standard on all Arrangement 3 fans.



## Arrangement 3 SWSI — Single Width, Single Inlet

Arrangement 3 is available in belt driven only. Arrangement 3 SWSI has one bearing located in the airstream. The wheel is mounted between the bearings and supported by the fan housing, which makes it a structurally sound, compact, and economical arrangement.



Direct drive Arrangement 4 with shaft seal.

## Arrangement 4 SWSI — Single Width, Single Inlet

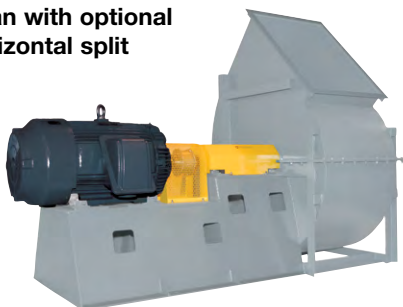
Arrangement 4 is available in direct drive only. The fan wheel is mounted directly on the motor shaft with the motor mounted on a pedestal. An Arrangement 4 design offers low maintenance as there are no fan bearings, fan shaft or drive parts to maintain. Arrangement 4 is typically limited to size 365 or smaller.

### Typical Direct Drive Speeds

60 Hz OPERATION		50 Hz OPERATION	
Synchronous Speed	Full Load Speed	Synchronous Speed	Full Load Speed
3600	3500	3000	2900
1800	1750	1500	1450
1200	1170	1000	975
900	870	750	725

The actual full load speed of the motor can vary slightly depending upon motor HP, motor design and motor manufacturer.

Arrangement 8 fan with optional coupling and horizontal split housing.



## Arrangement 8 SWSI — Single Width, Single Inlet

Arrangement 8 is a modified version of Arrangement 1 used for direct drive. The Arrangement 1 bearing pedestal is extended to accommodate the motor. A flexible coupling connects the fan and motor shaft. Refer to the typical direct drive speeds under Arrangement 4. Recommended for 250 HP and larger applications.

## SWSI Arrangements

### Arrangement 9 SWSI — Single Width, Single Inlet

Arrangement 9 is available as belt driven only. A motor slide base is mounted on the side of the bearing pedestal. This arrangement permits the unit to ship as a complete assembly with the motor and drive mounted.

### Arrangement 9F SWSI — Single Width, Single Inlet (Not Shown)

Arrangement 9F is available when a unit requires a motor that is too large to mount on the side of the bearing pedestal. The fan base is extended to accommodate the motor, for horizontal mounting, similar to an Arrangement 1 fan. Arrangement 9F is not suitable for mounting vibration isolators directly under the fan.



Fan shown is Arrangement 9 CW-UBD with motor on right-hand side.

### Arrangement 10 SWSI — Single Width, Single Inlet

Arrangement 10 is available in sizes 122 through 600 as belt driven only. An Arrangement 10 unit has an adjustable motor base mounted inside the bearing pedestal. This arrangement offers a more compact design than the Arrangement 9 and is suitable for roof or outdoor installations with a weather cover. For Class I and II fans, sizes 122 through 365, Arrangement 10 units are commonly referred to as Utility Sets. (Refer to Catalog 600 for more details.)



Class II Arrangement 10 Utility Set with optional shaft seal.

### Arrangement 3

DWDI fans are generally supplied in Arr. 3 for V-belt drive. The wheel is mounted between the bearings and supported by the fan housing. Since both bearings are located in the airstream, standard DWDI fans should be used for clean air applications with air temperatures limited to 130°F. The motor can be mounted in any of the four standard motor positions: W, X, Y or Z.

### Arrangement 3F (Not Shown)

Arr. 3F offers an integral extended base to accommodate the motor. The base is prepunched to accept vibration isolators. Arr. 3F is available to Size 660 and for motor positions W and Z as standard. For motor positions X and Y, consult factory.

## DWDI Arrangements



Arr. 3 on isolation base with motor located in "Z" position.

# Optional Construction

## Spark Resistant Construction

Fan applications may involve the handling of potentially explosive or flammable particles, fumes or vapors. Such applications require careful consideration by the system designer to insure the safe handling of such gases. Aerovent offers the following classifications of spark resistant construction per AMCA Standard 99-0401. It is the specifier or the user's responsibility to specify the type of spark resistant construction with full recognition of the potential hazards and the degree of protection required.

**Type A** All parts of the fan in contact with the airstream must be made of non-ferrous material — usually aluminum and limited to 250°F operation.

**Type B** The fan shall have a non-ferrous wheel and non-ferrous ring about the opening through which the shaft passes — usually aluminum wheel and rub ring and limited to 250°F construction.

**Type C** The fan shall be so constructed that the shift of the wheel or shaft will not permit two ferrous parts of the fan to rub or strike. This is accomplished with an aluminum inlet cone and rub ring. This construction is limited to 500°F. Construction to 800°F is available using a steel inlet cone with copper/bronze lining.

### Notes:

1. Bearings shall be placed outside the airstream. Therefore, spark resistant construction is not available on Arrangement 3 or 7.
2. The user shall electrically ground all fan parts.

Refer to the above listed AMCA standard for full details

## Special Metals

To suit the demanding applications of today's industry, Aerovent offers a variety of material for construction, including aluminum and stainless steel. We offer AWS and ASME certified welding procedures and welding technicians to assure quality construction when using special metals as well.

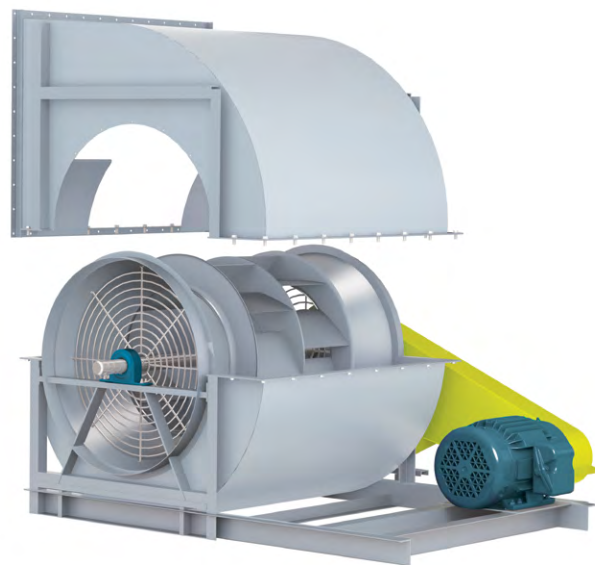


## Split Housings

All fans are designed to permit wheel removal through the fan inlet. To suit installation as well as transportation requirements, Aerovent offers horizontal split, pie-shaped, as well as other special split housing designs. Pie-shaped split housings allow fan wheel and shaft removal without disconnecting ductwork.



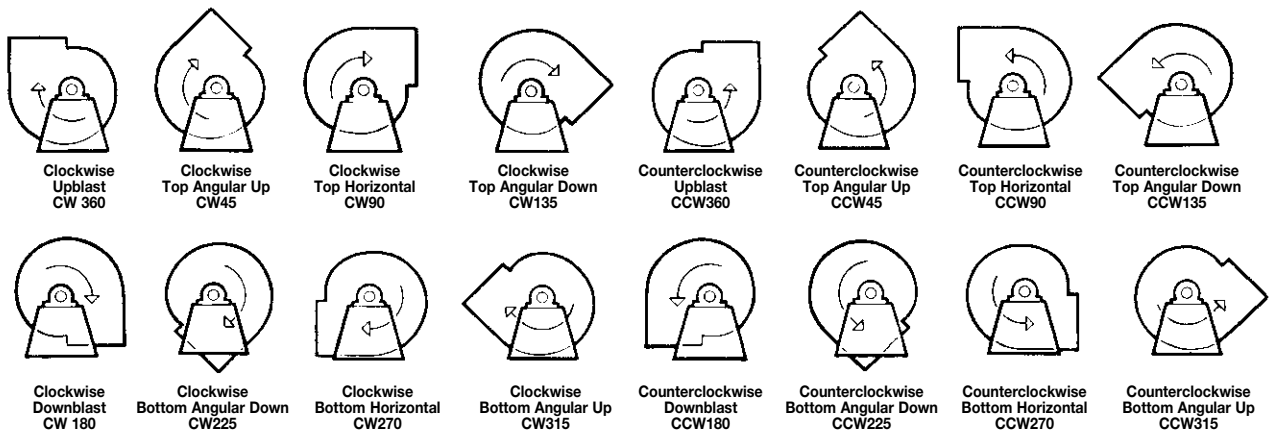
**Arrangement 8 fan with horizontal split housing with bolted access door**



**Arrangement 3 fan with horizontal split housing**

# Standard Configurations

## Designation for Rotation and Discharge



Direction of rotation is determined from drive side of the fan.

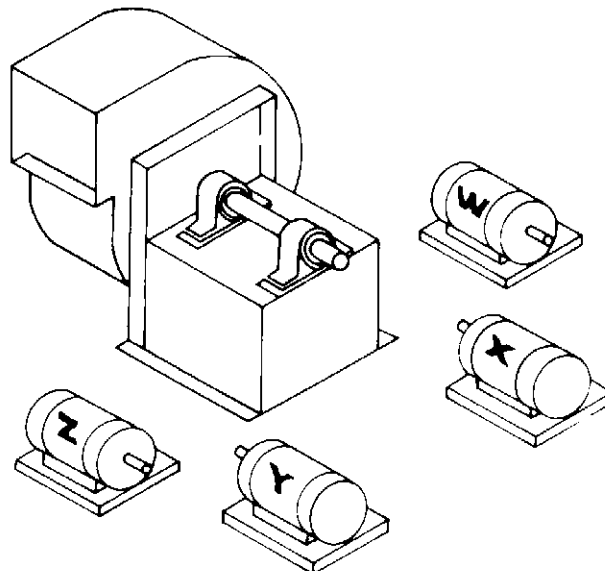
On single inlet fans, the drive side is always considered the side opposite the fan inlet.

On double inlet fans with drives on both sides, the drive side is that with the higher power drive unit.

The direction of discharge is determined in accordance with the diagrams shown above. The angle of discharge references the vertical axis of the fan and is designated in degrees above or below that reference axis.

On fans inverted for ceiling suspension or side-wall mounting, the discharge is determined when the fan is resting on the floor.

## Motor Positions



The drawing above illustrates the AMCA motor position standards for Arrangement 1 and 3 fans (Arrangement 1 shown). The location of the motor is determined by facing the drive side of the fan and designating the motor position by letters W, X, Y, or Z, in accordance with the diagram shown above.

# Accessories

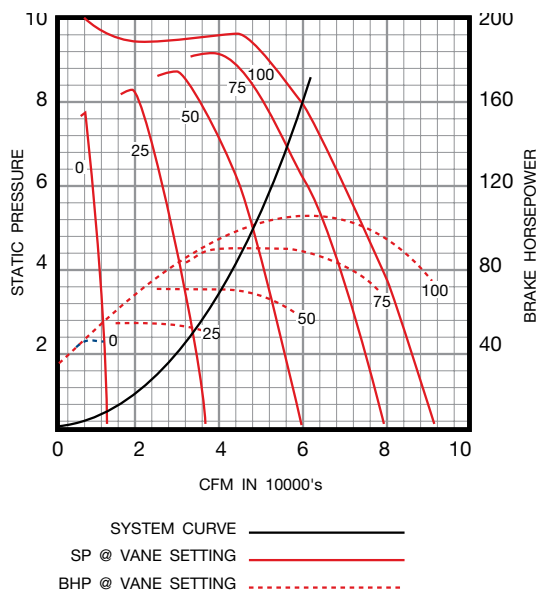


Nestled Inlet Vanes



External Inlet Vanes

Performance Curves  
at Different Vane Settings



Parallel Blade  
Outlet Damper



Opposed Blade  
Outlet Damper

## Volume Control Devices

Outlet dampers, variable inlet vanes, and variable frequency drives are three popular devices used to control volume for fan systems.

## Variable Inlet Vanes

Variable inlet vanes cause the entering air to spin in the direction of wheel rotation, resulting in reduction in volume, static pressure and brake horsepower and thus providing an infinite number of fan curves approximately parallel to the original fan curve. Variable inlet vanes cost about 50% to 80% more than outlet dampers but offer significant savings in energy. Because of their simplicity, inlet vanes can be more reliable when compared to variable frequency drives.

There are two types of variable inlet vanes: nested (internal type) and bolted on (external type).

**Nestled inlet vanes** are built into the fan inlet cone and offer the advantage of saving space and lower cost as opposed to the external type. They are available on all fan sizes 165 and larger. Aerovent offers cantilevered vanes to size 890 Class II fans to minimize insertion losses and noise associated with center hub design.

**External inlet vanes** are bolted to the inlet of the fan and are available from size 122 to size 890. Use of external vanes should be considered for hostile environments since operating linkages are shielded from the airstream. Both types of inlet vanes are available to 600°F construction.

## Outlet Dampers

The closing of the damper adds to the resistance that the fan is working against. This moves the operating point to the left of the initial rating point. The savings in horsepower depends on the relative position on the fan curve and is usually much less than offered by other methods. Outlet dampers are typically the least expensive option and should be considered when infrequent operation at lesser capacity is desired or when handling hot, humid or particulate laden air.

There are two types of outlet dampers: parallel blade and opposed blade.

Parallel blade dampers are recommended for systems where air volume is modulated between full-open to about 75% of open.

Opposed blade dampers cost about 10% more and are recommended for systems where volume is modulated over the entire range. Opposed blades reduce air volume in a closer relationship to the control arm movement.



## Variable Frequency Drive (VFD)

A VFD changes the fan speed and can provide the greatest potential for energy savings, although at highest initial cost. A VFD should be considered for extended operation at part load conditions, especially below 70% of the full volume operation.

## Access Doors

Bolted, quick opening, and raised bolted access doors are available for wheel inspection or maintenance.

## Drain

Threaded pipe coupling welded to the lowest point in the housing scroll. All fans come with a weep hole in the bottom of the housing.

## Shaft Seal

A shaft seal reduces leakage and protects the bearings from a contaminated airstream. It is constructed of non-asbestos woven fibrous materials (ceramic felt) compressed between an aluminum cover plate and the fan housing. A ceramic felt shaft seal does not make the fan gas tight. A variety of special seals is available for low leakage applications requiring more positive protection, including mechanical type stuffing boxes.

## Flanged Inlet

A punched inlet flange is available for duct mounting.

## Flanged Outlet (DWDI Class I & II)

A punched or unpunched flange is welded to the fan outlet. An unpunched flanged outlet is standard on all SWSI and DWDI Class III and IV fans.

## Inlet/Outlet Companion Flanges

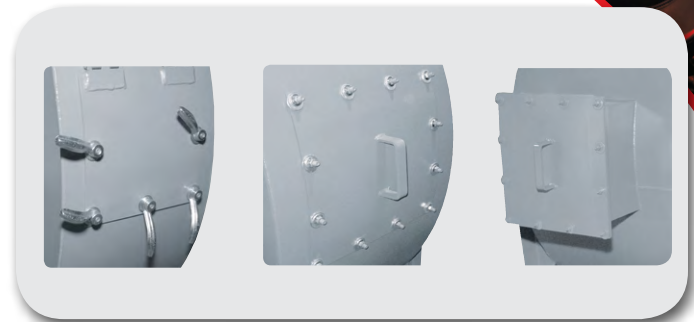
Companion flanges are used for installing the fan to flexible sleeve connections and are punched to match the fan's inlet or outlet.

## Inlet and Outlet Screens

Safety screens are available for mounting in the fan inlet or outlet in non-ducted applications.

## Special Paint & Protective Coatings

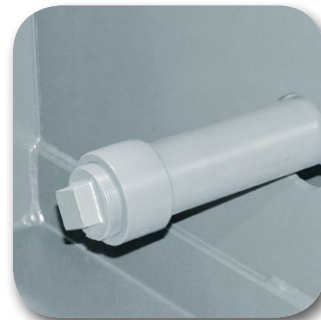
Aerovent has an in-house, specialty coating facility to handle any type of coating requirement. Refer to Protective Coatings Guide FE-400 for more details.



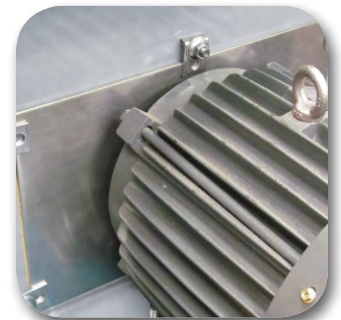
Quick-Open  
Access Door

Bolted  
Access Door

Raised Bolted  
Access Door



Extended Drain with Plug



Shaft Seal

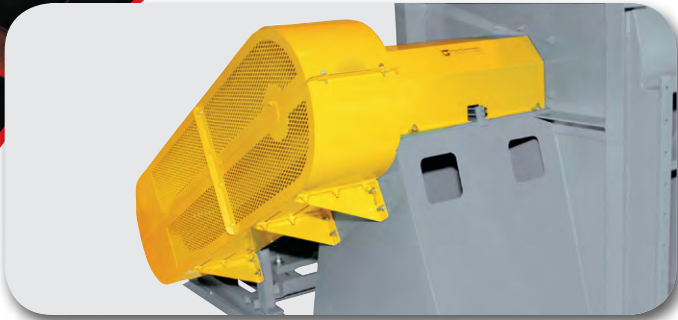


Inlet Safety Screen



Inlet Companion Flange

# Accessories



**Belt, Bearing and Shaft Guard**



**Unitary Base**



**Inlet Box**



**Inlet Box with Shutter**

## **Belt Guards**

A belt guard protects personnel from the moving drive parts. Both standard and totally enclosed type guards are available.

## **Shaft and Bearing Guards (SWSI)**

Solid sheet metal guards cover shaft and bearings and come with extended lube lines to a common point out either side of the guard. A guard spanning the shaft between the bearings is also available to provide easy access to bearings for lubrication and vibration monitoring.

## **Unitary Base**

A structural steel base provides common support to fan, motor and drive including guards. This style of base is designed for use without isolators and requires adequate foundation integrity for proper operation.

## **Vibration Isolation Bases**

Heavy structural base for fan, motor and drive is designed for use with spring or rubber-in-shear type isolators. Use of flexible connectors at inlet and outlet is required on fans with isolators.

## **V-Belt Drives**

V-belt drives offer an economical yet flexible means of transmitting power to the fans. There are two types of V-belt drives.

- **Adjustable Pitch or Variable Speed Drives**

An adjustable pitch drive offers easy adjustment of speed. The motor pulley pitch can be adjusted when the fan is at rest which can offer speed variation of about 10% from the design speed. This style of sheave can result in higher vibration so adjustable pitch drives are not recommended for use on motors over 10 HP or wherever low vibration is required.

- **Fixed Pitch or Constant Speed Drives**

This type of drive offers low cost and lowest vibration levels. Speed change can often be accomplished by changing only one of the sheaves.

## **Bearing Upgrades**

Unit roller or split pillow block, double row roller bearings are available. Split pillow block roller bearings are not available for fans with less than 1-7/16" diameter bearings and are not recommended for fans with light loadings. Refer to Fan Engineering Letters FE-1200 and FE-1300 for the correct type of bearings, selection criteria, maintenance, etc.

## **Other Accessories Available**

- Variation in wheel diameter and width
- Inlet boxes
- Bearings RTD
- Piezometer ring airflow measuring system
- Consult factory for other accessories

## Flow Measurement System

### Piezometer Ring (Airflow Measuring System)

A piezometer ring is available on model CAE fans, as well as other Aerovent housed and plenum fans, as part of an airflow measuring system, based on the principle of a flow nozzle. The inlet cone of the fan is used as the flow nozzle. The flow can be calculated by measuring the pressure drop through the inlet cone. No tubes or sensors are inserted in the high velocity airstream which could obstruct airflow.

The system, consists of a piezometer ring mounted at the throat and a static pressure tap mounted on the face of the inlet cone. A differential pressure transducer and digital display can also be provided.

The pressure drop is measured from the tap located on the face of the inlet cone to the piezometer ring in the throat. The inlet tap is connected to the high-pressure side of the transducer and the piezometer ring is connected to the low-pressure side.

Based on Aerovent laboratory tests, the system was determined to be accurate within +/-5%.

Piezometer Ring Mounted at Throat of Inlet Cone



**NOTE: Aerovent does not recommend placement of flow measuring probes inside the fan inlet cone in the path of airflow. These devices create disturbances and unpredictable performance losses. Aerovent will not be responsible for loss of performance due to such devices.**

## Performance Correction for Temperature & Altitude

The performance tables in this catalog are based on fans handling standard air at a density of 0.075 pounds per cubic foot. This is equivalent to air at 70°F at sea level (29.92" Hg barometric pressure). When specified performance is at a density different than standard, it must be converted to the

equivalent standard conditions before the fan can be selected from the performance tables. The equivalent standard conditions can be calculated by using the Temperature and Altitude Density Ratios shown in the table below.

### Temperature and Altitude Density Ratios

AIR TEMP °F	ALTITUDE IN FEET ABOVE SEA LEVEL											
	0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	20000
	BAROMETRIC PRESSURE IN INCHES OF MERCURY											
	29.92	28.86	27.82	26.82	25.84	24.90	23.98	23.09	22.22	21.39	20.58	16.89
-50	1.293	1.247	1.201	1.159	1.116	1.076	1.036	0.997	0.960	0.924	0.889	0.729
0	1.152	1.111	1.071	1.032	0.995	0.959	0.923	0.889	0.856	0.824	0.792	0.650
50	1.039	1.003	0.967	0.932	0.897	0.864	0.833	0.801	0.772	0.743	0.715	0.586
70	1.000	0.964	0.930	0.896	0.864	0.832	0.801	0.772	0.743	0.714	0.688	0.564
100	0.946	0.912	0.880	0.848	0.818	0.787	0.758	0.730	0.703	0.676	0.651	0.534
150	0.869	0.838	0.808	0.770	0.751	0.723	0.696	0.671	0.646	0.620	0.598	0.490
200	0.803	0.774	0.747	0.720	0.694	0.668	0.643	0.620	0.596	0.573	0.552	0.453
250	0.747	0.720	0.694	0.669	0.645	0.622	0.598	0.576	0.555	0.533	0.514	0.421
300	0.697	0.672	0.648	0.624	0.604	0.580	0.558	0.538	0.518	0.498	0.480	0.393
350	0.654	0.631	0.608	0.586	0.565	0.544	0.524	0.505	0.486	0.467	0.450	0.369
400	0.616	0.594	0.573	0.552	0.532	0.513	0.493	0.476	0.458	0.440	0.424	0.347
450	0.582	0.561	0.542	0.522	0.503	0.484	0.466	0.449	0.433	0.416	0.401	0.328
500	0.552	0.532	0.513	0.495	0.477	0.459	0.442	0.426	0.410	0.394	0.380	0.311
550	0.525	0.506	0.488	0.470	0.454	0.437	0.421	0.405	0.390	0.375	0.361	0.296
600	0.500	0.482	0.465	0.448	0.432	0.416	0.400	0.386	0.372	0.352	0.344	0.282
650	0.477	0.460	0.444	0.427	0.412	0.397	0.382	0.368	0.354	0.341	0.328	0.269
700	0.457	0.441	0.425	0.410	0.395	0.380	0.366	0.353	0.340	0.326	0.315	0.258
750	0.439	0.423	0.407	0.393	0.379	0.365	0.351	0.338	0.326	0.313	0.303	0.248
800	0.420	0.404	0.389	0.375	0.362	0.350	0.336	0.323	0.311	0.300	0.290	0.237
850	0.404	0.391	0.376	0.363	0.349	0.336	0.324	0.312	0.300	0.289	0.279	0.228
900	0.389	0.376	0.363	0.349	0.336	0.324	0.312	0.300	0.289	0.279	0.268	0.220
950	0.376	0.363	0.350	0.337	0.325	0.313	0.301	0.290	0.279	0.269	0.259	0.212
1000	0.363	0.350	0.338	0.325	0.314	0.302	0.291	0.280	0.270	0.259	0.250	0.205

## Maximum RPM, Wheel Weights & WR<sup>2</sup> (moment of inertia in lb-ft<sup>2</sup>)

### SWSI

SIZE	SW ALUMINUM											
	CLASS I			CLASS II			CLASS III			CLASS IV		
	MAX. RPM	WHEEL WEIGHT (LB)	WR <sup>2</sup> (LB-FT <sup>2</sup> )	MAX. RPM	WHEEL WEIGHT (LB)	WR <sup>2</sup> (LB-FT <sup>2</sup> )	MAX. RPM	WHEEL WEIGHT (LB)	WR <sup>2</sup> (LB-FT <sup>2</sup> )	MAX. RPM	WHEEL WEIGHT (LB)	WR <sup>2</sup> (LB-FT <sup>2</sup> )
122	3990	9.4	0.97	5206	9.4	0.97	NA	NA	NA	NA	NA	NA
135	3265	10.1	1.4	4260	10.1	1.4						
150	3260	13.7	2.12	4253	13.6	2.12						
165	2673	15.7	3.23	3487	16.8	4.04						
182	2207	17	6.1	2879	18	6.1	3628	21	6.2			
200	2014	21	6.4	2627	21	7.4	3310	24	9.3			
222	1814	30	12	2367	30	12	2982	34	15			
245	1647	35	21	2149	35	21	2708	38	22			
270	1474	40	29	1923	40	29	2423	47	32			
300	1327	49	46	1731	54	51	2181	58	52			
330	1206	62	70	1573	67	76	1982	72	77			
365	1080	73	103	1409	79	112	1775	84	114			
402	979	85	151	1278	93	165	1610	98	166			
445	886	126	233	1156	135	253	1456	142	256			
490	804	164	391	1050	164	391	1322	174	535			
542	727	227	632	948	227	632	1194	239	673			
600	657	255	931	857	255	931	1080	270	991			
660	597	346	1377	779	346	1377	982	371	1478			
730	540	412	2049	705	499	2671	888	550	2985			
807	488	499	3008	637	574	3474	NA	NA	NA			
890	443	774	5652	578	884	6438						
982	401	904	8248	523	1041	9443						

SIZE	SW STEEL											
	CLASS I			CLASS II			CLASS III			CLASS IV		
	MAX. RPM	WHEEL WEIGHT (LB)	WR <sup>2</sup> (LB-FT <sup>2</sup> )	MAX. RPM	WHEEL WEIGHT (LB)	WR <sup>2</sup> (LB-FT <sup>2</sup> )	MAX. RPM	WHEEL WEIGHT (LB)	WR <sup>2</sup> (LB-FT <sup>2</sup> )	MAX. RPM	WHEEL WEIGHT (LB)	WR <sup>2</sup> (LB-FT <sup>2</sup> )
122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
135												
150												
165												
182												
200												
222												
245												
270	1474	99	70	1923	99	70	2423	121	82	2756	135	91
300	1327	124	106	1731	124	106	2181	148	123	2480	160	137
330	1206	151	162	1573	150	162	1982	185	183	2255	199	203
365	1080	218	276	1409	216	276	1775	251	293	2040	251	306
402	979	252	401	1278	251	401	1610	289	451	1850	288	444
445	886	340	620	1156	339	620	1456	437	815	1673	464	848
490	804	392	895	1050	390	895	1322	533	1257	1520	563	1308
542	727	567	1423	948	608	1543	1194	738	2068	1373	810	2262
600	657	696	2246	857	698	2246	1080	856	2986	1241	942	3356
660	597	942	3413	779	953	3415	982	1132	4494	1128	1235	5040
730	540	1092	5274	705	1103	5276	888	1390	7222	1020	1507	7812
807	488	1288	7766	637	1397	8451	802	1617	10610	922	1758	11505
890	443	1935	14129	578	1940	14130	728	2353	18160	837	2498	19429
982	401	2245	20481	523	2258	20483	654	2971	29160	756	---	---

# Maximum RPM, Wheel Weights & WR<sup>2</sup> (moment of inertia in lb-ft<sup>2</sup>)

## DWDI

SIZE	DW ALUMINUM											
	CLASS I			CLASS II			CLASS III			CLASS IV		
	MAX. RPM	WHEEL WEIGHT (LB)	WR <sup>2</sup> (LB-FT <sup>2</sup> )	MAX. RPM	WHEEL WEIGHT (LB)	WR <sup>2</sup> (LB-FT <sup>2</sup> )	MAX. RPM	WHEEL WEIGHT (LB)	WR <sup>2</sup> (LB-FT <sup>2</sup> )	MAX. RPM	WHEEL WEIGHT (LB)	WR <sup>2</sup> (LB-FT <sup>2</sup> )
122	3957	14	1.1	5158	14.6	1.1	NA	NA	NA	NA	NA	NA
135	3374	14.8	1.56	4398	17.5	1.6						
150	3232	21.8	2.4	4213	23.8	2.43						
165	2761	25	3.75	3599	27.7	4.55						
182	2248	29	10.4	2930	29	9.9	3695	33	9.8			
200	2051	36	10.9	2674	40	14	3372	39	15.2			
222	1837	45	18	2395	53	21	3020	54	24			
245	1668	53	32	2175	62	37	2742	60	35			
270	1541	62	45	2009	69	50	2533	75	51			
300	1387	80	75	1808	86	81	2280	89	80			
330	1261	108	122	1644	114	129	2072	104	111			
365	1114	109	154	1452	123	174	1831	119	162			
402	1010	133	236	1317	144	256	1661	141	239			
445	914	191	353	1191	222	416	1502	219	395			
490	830	245	584	1082	260	619	1364	262	806			
542	750	339	945	977	337	939	1232	360	1014			
600	678	380	1388	883	376	1372	1114	401	1470			
660	616	495	1972	803	499	1987	1013	537	2141			
730	557	593	2949	726	716	3832	916	826	4484			
807	504	727	4382	656	819	4955	NA	NA	NA			
890	457	1131	8259	596	1295	9429						
982	414	1340	12230	539	1541	13979						

SIZE	DW STEEL											
	CLASS I			CLASS II			CLASS III			CLASS IV		
	MAX. RPM	WHEEL WEIGHT (LB)	WR <sup>2</sup> (LB-FT <sup>2</sup> )	MAX. RPM	WHEEL WEIGHT (LB)	WR <sup>2</sup> (LB-FT <sup>2</sup> )	MAX. RPM	WHEEL WEIGHT (LB)	WR <sup>2</sup> (LB-FT <sup>2</sup> )	MAX. RPM	WHEEL WEIGHT (LB)	WR <sup>2</sup> (LB-FT <sup>2</sup> )
122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
135												
150												
165												
182												
200												
222												
245												
270	1541	152	116	2009	170	117	2533	195	130	2756	212	142
300	1387	201	176	1808	197	176	2280	227	196	2480	261	216
330	1261	263	272	1644	254	272	2072	268	290	2255	304	316
365	1114	326	439	1452	335	440	1831	356	444	2040	362	472
402	1010	395	640	1317	390	640	1661	417	700	1850	434	689
445	914	516	981	1191	557	984	1502	674	1317	1673	720	1383
490	830	585	1427	1082	618	1430	1364	803	2049	1520	830	2066
542	750	739	2128	977	771	2247	1232	963	3163	1373	991	3295
600	678	906	3338	883	897	3338	1114	1121	4614	1241	1180	4975
660	616	1349	5213	803	1375	5217	1013	1640	7099	1128	1788	7674
730	557	1571	8239	726	1582	8243	916	2088	11718	1020	2139	12086
807	504	1876	12195	656	1992	12933	828	2450	17251	922	2533	17816
890	457	2827	21881	596	2842	21887	751	3300	27962	837	3377	28592
982	414	3329	31933	539	3343	31941	---	---	---	---	---	---

# Features & Weights

## SWSI Class I

SIZE	HOUSING		SHAFT DIAMETER & BEARINGS				BARE FAN WEIGHT (LB)		
	SIDES	SCROLL	ARR 1 & 9		ARR 3		ARR 1	ARR 3	ARR 9
			SHAFT DIA.	BEARING TYPE	SHAFT DIA.	BEARING TYPE			
122	14	14	1	B	1	B	122	104	129
135	14	14	1	B	1	B	141	125	148
150	14	14	1	B	1	B	169	149	178
165	14	14	1	B	1	B	199	200	209
182	14	14	1 <sup>3</sup> / <sub>16</sub>	B	1 <sup>3</sup> / <sub>16</sub>	B	238	202	251
200	14	14	1 <sup>7</sup> / <sub>16</sub>	B	1 <sup>7</sup> / <sub>16</sub>	B	288	229	304
222	12	14	1 <sup>7</sup> / <sub>16</sub>	B	1 <sup>7</sup> / <sub>16</sub>	B	363	250	384
245	12	14	1 <sup>7</sup> / <sub>16</sub>	B	1 <sup>7</sup> / <sub>16</sub>	B	440	306	464
270	12	14	1 <sup>11</sup> / <sub>16</sub>	B	1 <sup>7</sup> / <sub>16</sub>	B	596	446	625
300	10	12	1 <sup>15</sup> / <sub>16</sub>	B	1 <sup>11</sup> / <sub>16</sub>	B	721	665	756
330	10	12	1 <sup>15</sup> / <sub>16</sub>	B	1 <sup>11</sup> / <sub>16</sub>	B	872	935	915
365	10	12	1 <sup>15</sup> / <sub>16</sub>	B	1 <sup>15</sup> / <sub>16</sub>	B	1094	1031	1146
402	10	12	2 <sup>3</sup> / <sub>16</sub>	B	1 <sup>15</sup> / <sub>16</sub>	B	1431	1297	1501
445	10	12	2 <sup>7</sup> / <sub>16</sub>	B	1 <sup>15</sup> / <sub>16</sub>	B	1673	1628	1755
490	10	12	2 <sup>11</sup> / <sub>16</sub>	B	2 <sup>3</sup> / <sub>16</sub>	R	1951	1807	2046
542	10	12	2 <sup>15</sup> / <sub>16</sub>	B	2 <sup>7</sup> / <sub>16</sub>	R	2863	2402	3000
600	10	12	2 <sup>15</sup> / <sub>16</sub>	B	2 <sup>15</sup> / <sub>16</sub>	B	3375	3267	3538
660	10	12	3 <sup>7</sup> / <sub>16</sub>	R	2 <sup>15</sup> / <sub>16</sub>	R	4277	4114	4486
730	10	10	3 <sup>7</sup> / <sub>16</sub>	R	3 <sup>7</sup> / <sub>16</sub>	R	5221	4813	5479
807	10	10	3 <sup>15</sup> / <sub>16</sub>	R	3 <sup>15</sup> / <sub>16</sub>	R	5255	5498	5515
890	7	10	3 <sup>15</sup> / <sub>16</sub>	R	3 <sup>15</sup> / <sub>16</sub>	R	7220	6668	7576
982	7	7	4 <sup>15</sup> / <sub>16</sub>	SR	4 <sup>15</sup> / <sub>16</sub>	SR	9425	7847	9888

Bearing Types: B = Ball Bearing R = Unit Roller Bearings SR = Spherical Roller Bearings with Split Pillow Block Housings

## SWSI Class II

SIZE	HOUSING		SHAFT DIAMETER & BEARINGS				BARE FAN WEIGHT (LB)		
	SIDES	SCROLL	ARR 1 & 9		ARR 3		ARR 1	ARR 3	ARR 9
			SHAFT DIA.	BEARING TYPE	SHAFT DIA.	BEARING TYPE			
122	14	14	1	B	1	B	128	114	134
135	14	14	1	B	1	B	147	137	154
150	14	14	1 <sup>3</sup> / <sub>16</sub>	B	1 <sup>3</sup> / <sub>16</sub>	B	180	163	189
165	14	14	1 <sup>3</sup> / <sub>16</sub>	B	1 <sup>3</sup> / <sub>16</sub>	B	211	219	221
182	14	14	1 <sup>7</sup> / <sub>16</sub>	B	1 <sup>7</sup> / <sub>16</sub>	B	250	220	264
200	14	14	1 <sup>7</sup> / <sub>16</sub>	B	1 <sup>7</sup> / <sub>16</sub>	B	295	250	311
222	12	14	1 <sup>7</sup> / <sub>16</sub>	B	1 <sup>7</sup> / <sub>16</sub>	B	373	279	394
245	12	14	1 <sup>11</sup> / <sub>16</sub>	B	1 <sup>11</sup> / <sub>16</sub>	B	463	342	489
270	12	14	1 <sup>11</sup> / <sub>16</sub>	B	1 <sup>11</sup> / <sub>16</sub>	B	610	489	640
300	10	12	1 <sup>15</sup> / <sub>16</sub>	B	1 <sup>15</sup> / <sub>16</sub>	B	726	718	762
330	10	12	2 <sup>3</sup> / <sub>16</sub>	B	2 <sup>3</sup> / <sub>16</sub>	B	879	997	924
365	10	12	2 <sup>7</sup> / <sub>16</sub>	B	2 <sup>7</sup> / <sub>16</sub>	B	1133	1095	1189
402	10	12	2 <sup>7</sup> / <sub>16</sub>	R	2 <sup>7</sup> / <sub>16</sub>	B	1459	1392	1531
445	10	12	2 <sup>11</sup> / <sub>16</sub>	R	2 <sup>11</sup> / <sub>16</sub>	R	1680	1724	1765
490	10	12	2 <sup>15</sup> / <sub>16</sub>	R	2 <sup>11</sup> / <sub>16</sub>	R	1957	1907	2057
542	10	12	3 <sup>7</sup> / <sub>16</sub>	R	2 <sup>15</sup> / <sub>16</sub>	R	2943	2576	3087
600	10	12	3 <sup>7</sup> / <sub>16</sub>	R	3 <sup>7</sup> / <sub>16</sub>	R	3429	3518	3598
660	10	12	3 <sup>15</sup> / <sub>16</sub>	R	3 <sup>15</sup> / <sub>16</sub>	R	4445	4476	4663
730	10	10	3 <sup>15</sup> / <sub>16</sub>	R	3 <sup>15</sup> / <sub>16</sub>	R	5415	5304	5682
807	10	10	4 <sup>7</sup> / <sub>16</sub>	SR	4 <sup>7</sup> / <sub>16</sub>	R	5503	6062	5776
890	7	10	4 <sup>15</sup> / <sub>16</sub>	SR	4 <sup>15</sup> / <sub>16</sub>	R	7621	7344	7995
982	7	7	5 <sup>7</sup> / <sub>16</sub>	SR	5 <sup>7</sup> / <sub>16</sub>	SR	9645	8595	10120

Bearing Types: B = Ball Bearing R = Unit Roller Bearings SR = Spherical Roller Bearings with Split Pillow Block Housings

# Features & Weights

## SWSI Class III

SIZE	HOUSING		SHAFT DIAMETER & BEARINGS				BARE FAN WEIGHT (LB)		
	SIDES	SCROLL	ARR 1 & 9		ARR 3		ARR 1	ARR 3	ARR 9
			SHAFT DIA.	BEARING TYPE	SHAFT DIA.	BEARING TYPE			
122	NA								
135									
150									
165									
182	10	10	1 <sup>11</sup> / <sub>16</sub>	B	1 <sup>11</sup> / <sub>16</sub>	B	272	377	287
200	10	10	1 <sup>15</sup> / <sub>16</sub>	B	1 <sup>11</sup> / <sub>16</sub>	B	316	410	334
222	10	10	1 <sup>15</sup> / <sub>16</sub>	B	1 <sup>15</sup> / <sub>16</sub>	R	408	444	431
245	7	7	2 <sup>3</sup> / <sub>16</sub>	B	1 <sup>15</sup> / <sub>16</sub>	R	572	488	604
270	7	7	2 <sup>3</sup> / <sub>16</sub>	B	1 <sup>15</sup> / <sub>16</sub>	R	763	658	801
300	7	7	2 <sup>7</sup> / <sub>16</sub>	R	2 <sup>3</sup> / <sub>16</sub>	R	987	1069	1036
330	7	7	2 <sup>11</sup> / <sub>16</sub>	R	2 <sup>7</sup> / <sub>16</sub>	R	1202	1087	1262
365	7	7	2 <sup>11</sup> / <sub>16</sub>	R	2 <sup>7</sup> / <sub>16</sub>	R	1429	1492	1501
402	7	7	2 <sup>15</sup> / <sub>16</sub>	R	2 <sup>11</sup> / <sub>16</sub>	R	1778	1867	1867
445	7	7	3 <sup>1</sup> / <sub>16</sub>	R	2 <sup>15</sup> / <sub>16</sub>	R	2225	2355	2335
490	7	7	3 <sup>1</sup> / <sub>16</sub>	R	2 <sup>15</sup> / <sub>16</sub>	R	2636	2704	2765
542	7	7	3 <sup>15</sup> / <sub>16</sub>	R	3 <sup>7</sup> / <sub>16</sub>	R	3782	3508	3965
600	7	7	4 <sup>7</sup> / <sub>16</sub>	SR	3 <sup>15</sup> / <sub>16</sub>	R	4741	4748	4971
660	7	7	4 <sup>7</sup> / <sub>16</sub>	SR	3 <sup>15</sup> / <sub>16</sub>	R	5623	6287	5897
730	7	7	4 <sup>15</sup> / <sub>16</sub>	SR	4 <sup>7</sup> / <sub>16</sub>	SR	6796	7374	7127
807	7	7	4 <sup>15</sup> / <sub>16</sub>	SR	4 <sup>15</sup> / <sub>16</sub>	SR	6735	8409	7066
890	7	7	5 <sup>7</sup> / <sub>16</sub>	SR	5 <sup>7</sup> / <sub>16</sub>	SR	8114	10043	8513

Bearing Types: B = Ball Bearing R = Unit Roller Bearings SR = Spherical Roller Bearings with Split Pillow Block Housings

## SWSI Class IV

SIZE	HOUSING		SHAFT DIAMETER & BEARINGS				BARE FAN WEIGHT (LB)		
	SIDES	SCROLL	ARR 1 & 9		ARR 3		ARR 1	ARR 3	ARR 9
			SHAFT DIA.	BEARING TYPE	SHAFT DIA.	BEARING TYPE			
122	NA								
135									
150									
165									
182									
200									
222									
245									
270	7	7	2 <sup>7</sup> / <sub>16</sub>	R	2 <sup>3</sup> / <sub>16</sub>	R	883	731	927
300	7	7	2 <sup>11</sup> / <sub>16</sub>	R	2 <sup>7</sup> / <sub>16</sub>	R	1112	1180	1169
330	0.25	0.25	2 <sup>15</sup> / <sub>16</sub>	R	2 <sup>11</sup> / <sub>16</sub>	R	1527	1614	1604
365	0.25	0.25	3 <sup>1</sup> / <sub>16</sub>	R	2 <sup>15</sup> / <sub>16</sub>	R	1978	1673	2077
402	0.25	0.25	3 <sup>7</sup> / <sub>16</sub>	R	2 <sup>15</sup> / <sub>16</sub>	R	2425	2077	2547
445	0.25	0.25	3 <sup>15</sup> / <sub>16</sub>	R	3 <sup>7</sup> / <sub>16</sub>	R	3100	2643	3252
490	0.25	0.25	3 <sup>15</sup> / <sub>16</sub>	R	3 <sup>7</sup> / <sub>16</sub>	R	3567	2994	3742
542	0.25	0.25	4 <sup>7</sup> / <sub>16</sub>	SR	3 <sup>15</sup> / <sub>16</sub>	R	4699	3883	4927
600	0.25	0.25	4 <sup>15</sup> / <sub>16</sub>	SR	4 <sup>7</sup> / <sub>16</sub>	SR	5604	5218	5880
660	0.25	0.25	4 <sup>15</sup> / <sub>16</sub>	SR	4 <sup>7</sup> / <sub>16</sub>	SR	6766	6962	7099
730	0.25	0.25	5 <sup>7</sup> / <sub>16</sub>	SR	4 <sup>15</sup> / <sub>16</sub>	SR	8295	8104	8705
807	0.25	0.25	5 <sup>7</sup> / <sub>16</sub>	SR	5 <sup>7</sup> / <sub>16</sub>	SR	8060	9224	8463
890	0.25	0.25	5 <sup>15</sup> / <sub>16</sub>	SR	5 <sup>15</sup> / <sub>16</sub>	SR	9581	11012	10059

Bearing Types: B = Ball Bearing R = Unit Roller Bearings SR = Spherical Roller Bearings with Split Pillow Block Housings

# Features & Weights

## DWDI Class I & II

SIZE	HOUSING		SHAFT DIAMETER & BEARINGS						BARE FAN WEIGHT (LB)	
	SIDES	SCROLL	CLASS I			CLASS II			ARR 3	
			SHAFT DIAMETER		BEARING TYPE	SHAFT DIAMETER		BEARING TYPE	CLASS I	CLASS II
			@ BRG.	@ WHEEL		@ BRG.	@ WHEEL			
122	14	14	1 <sup>3</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>16</sub>	B	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	B	145	159
135	14	14	1 <sup>3</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>16</sub>	B	1 <sup>11</sup> / <sub>16</sub>	1 <sup>11</sup> / <sub>16</sub>	B	165	181
150	14	14	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	B	1 <sup>11</sup> / <sub>16</sub>	1 <sup>11</sup> / <sub>16</sub>	B	201	220
165	14	14	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	B	1 <sup>15</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>16</sub>	B	231	254
182	12	14	1 <sup>11</sup> / <sub>16</sub>	1 <sup>11</sup> / <sub>16</sub>	B	1 <sup>15</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>16</sub>	B	279	302
200	12	14	1 <sup>11</sup> / <sub>16</sub>	1 <sup>11</sup> / <sub>16</sub>	B	2 <sup>3</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>16</sub>	B	327	350
222	12	14	1 <sup>15</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>16</sub>	B	2 <sup>7</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>16</sub>	B	422	472
245	12	14	2 <sup>3</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>16</sub>	B	2 <sup>7</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>16</sub>	B	463	527
270	12	14	2 <sup>3</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>16</sub>	B	2 <sup>11</sup> / <sub>16</sub>	2 <sup>11</sup> / <sub>16</sub>	R	686	756
300	10	12	2 <sup>7</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>16</sub>	B	2 <sup>7</sup> / <sub>16</sub>	2 <sup>15</sup> / <sub>16</sub>	R	971	1024
330	10	12	2 <sup>7</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>16</sub>	B	2 <sup>7</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	R	1107	1155
365	10	12	2 <sup>11</sup> / <sub>16</sub>	2 <sup>11</sup> / <sub>16</sub>	B	2 <sup>11</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	R	1467	1556
402	10	12	2 <sup>7</sup> / <sub>16</sub>	2 <sup>15</sup> / <sub>16</sub>	R	2 <sup>11</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	R	1844	1940
445	10	12	2 <sup>7</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	R	2 <sup>15</sup> / <sub>16</sub>	3 <sup>15</sup> / <sub>16</sub>	R	2227	2366
490	10	12	2 <sup>11</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	R	3 <sup>7</sup> / <sub>16</sub>	3 <sup>15</sup> / <sub>16</sub>	R	2446	2573
542	10	12	2 <sup>15</sup> / <sub>16</sub>	3 <sup>15</sup> / <sub>16</sub>	R	3 <sup>7</sup> / <sub>16</sub>	4 <sup>7</sup> / <sub>16</sub>	R	3107	3343
600	10	12	3 <sup>7</sup> / <sub>16</sub>	4 <sup>7</sup> / <sub>16</sub>	R	3 <sup>15</sup> / <sub>16</sub>	4 <sup>15</sup> / <sub>16</sub>	R	4365	4707
660	10	12	3 <sup>7</sup> / <sub>16</sub>	4 <sup>7</sup> / <sub>16</sub>	R	3 <sup>15</sup> / <sub>16</sub>	4 <sup>15</sup> / <sub>16</sub>	R	5732	6217
730	10	10	3 <sup>15</sup> / <sub>16</sub>	4 <sup>15</sup> / <sub>16</sub>	R	3 <sup>15</sup> / <sub>16</sub>	5 <sup>15</sup> / <sub>16</sub>	R	6427	7059
807	10	10	3 <sup>15</sup> / <sub>16</sub>	5 <sup>7</sup> / <sub>16</sub>	R	4 <sup>7</sup> / <sub>16</sub>	6 <sup>7</sup> / <sub>16</sub>	SR	7883	8660
890	7	10	3 <sup>15</sup> / <sub>16</sub>	5 <sup>15</sup> / <sub>16</sub>	R	4 <sup>7</sup> / <sub>16</sub>	6 <sup>15</sup> / <sub>16</sub>	SR	9395	10446
982	7	7	4 <sup>15</sup> / <sub>16</sub>	6 <sup>7</sup> / <sub>16</sub>	SR	5 <sup>7</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>2</sub>	SR	11585	12762

Bearing Types: B = Ball Bearing R = Unit Roller Bearings SR = Spherical Roller Bearings with Split Pillow Block Housings

## DWDI Class III & IV

SIZE	HOUSING				SHAFT DIAMETER & BEARINGS						BARE FAN WEIGHT (LB)	
	CLASS III		CLASS IV		CLASS III			CLASS IV			ARR 3	
	SIDES	SCROLL	SIDES	SCROLL	SHAFT DIAMETER		BEARING TYPE	SHAFT DIAMETER		BEARING TYPE	CLASS III	CLASS IV
					@ BRG.	@ WHEEL		@ BRG.	@ WHEEL			
122	CONSULT FACTORY		CONSULT FACTORY		CONSULT FACTORY			CONSULT FACTORY			NA	NA
135											NA	NA
150											NA	NA
165											NA	NA
182	10	10	7	7	2 <sup>3</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>16</sub>	R	NA		435	NA	
200	10	10	7	7	2 <sup>7</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>16</sub>	R			590	NA	
222	10	10	7	7	2 <sup>7</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>16</sub>	R			751	NA	
245	7	7	7	7	2 <sup>7</sup> / <sub>16</sub>	2 <sup>15</sup> / <sub>16</sub>	R			812	NA	
270	7	7	7	7	2 <sup>11</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	R	2 <sup>15</sup> / <sub>16</sub>	3 <sup>15</sup> / <sub>16</sub>	R	1122	1229
300	7	7	7	7	2 <sup>11</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	R	2 <sup>15</sup> / <sub>16</sub>	4 <sup>7</sup> / <sub>16</sub>	R	1529	1669
330	7	7	0.25	0.25	2 <sup>15</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	R	3 <sup>7</sup> / <sub>16</sub>	4 <sup>15</sup> / <sub>16</sub>	R	1668	1848
365	7	7	0.25	0.25	2 <sup>15</sup> / <sub>16</sub>	3 <sup>15</sup> / <sub>16</sub>	R	3 <sup>7</sup> / <sub>16</sub>	4 <sup>15</sup> / <sub>16</sub>	R	2075	2327
402	7	7	0.25	0.25	3 <sup>7</sup> / <sub>16</sub>	3 <sup>15</sup> / <sub>16</sub>	R	3 <sup>15</sup> / <sub>16</sub>	5 <sup>7</sup> / <sub>16</sub>	R	2619	2902
445	7	7	0.25	0.25	3 <sup>7</sup> / <sub>16</sub>	4 <sup>7</sup> / <sub>16</sub>	R	3 <sup>15</sup> / <sub>16</sub>	5 <sup>7</sup> / <sub>16</sub>	R	3359	3755
490	7	7	0.25	0.25	3 <sup>15</sup> / <sub>16</sub>	4 <sup>15</sup> / <sub>16</sub>	R	4 <sup>7</sup> / <sub>16</sub>	5 <sup>7</sup> / <sub>16</sub>	SR	3705	4066
542	7	7	0.25	0.25	3 <sup>15</sup> / <sub>16</sub>	5 <sup>7</sup> / <sub>16</sub>	R	4 <sup>7</sup> / <sub>16</sub>	5 <sup>15</sup> / <sub>16</sub>	SR	4629	5097
600	7	7	0.25	0.25	4 <sup>7</sup> / <sub>16</sub>	5 <sup>7</sup> / <sub>16</sub>	SR	4 <sup>15</sup> / <sub>16</sub>	6 <sup>7</sup> / <sub>16</sub>	SR	6479	7064
660	7	7	0.25	0.25	4 <sup>15</sup> / <sub>16</sub>	5 <sup>15</sup> / <sub>16</sub>	SR	5 <sup>7</sup> / <sub>16</sub>	6 <sup>7</sup> / <sub>16</sub>	SR	8614	9574
730	7	7	0.25	0.25	4 <sup>15</sup> / <sub>16</sub>	6 <sup>15</sup> / <sub>16</sub>	SR	5 <sup>15</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>2</sub>	SR	9999	10881
807	7	7	0.25	0.25	—	—	SR	—	—	SR	12223	12300
890	7	7	0.25	0.25	—	—	SR	—	—	SR	14547	15731
982	7	7	0.25	0.25	—	—	—	—	—	—	NA	NA

Bearing Types: B = Ball Bearing R = Unit Roller Bearings SR = Spherical Roller Bearings with Split Pillow Block Housings





**CAE SWSI | Size 150**

Outlet Area - 1.29 ft² Wheel Dia. - 15.00 inches Tip Speed - 3.93 x RPM

Fan Efficiency Grade = FEG80  
Max. BHP = 0.125 (RPM÷1000)³

CFM	OV	0.25" SP		0.50" SP		0.75" SP		1" SP		1.5" SP		2" SP		2.5" SP		3" SP		3.5" SP		4" SP		4.5" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1032	800	874	0.08	1015	0.13	1131	0.18	<u>1233</u>	<u>0.23</u>	1420	0.35	1594	0.49	1765	0.64								
1161	900	947	0.09	1079	0.15	1192	0.21	<u>1292</u>	<u>0.27</u>	<u>1468</u>	<u>0.39</u>	<u>1629</u>	<u>0.53</u>	<u>1784</u>	<u>0.69</u>	1936	0.85						
1290	1000	1022	0.12	1145	0.18	1255	0.24	<u>1353</u>	<u>0.31</u>	<u>1522</u>	<u>0.44</u>	<u>1675</u>	<u>0.58</u>	1819	0.74	1958	0.91	2096	1.09	2231	1.29		
1419	1100	1099	0.14	1214	0.20	1320	0.28	1415	0.35	<u>1581</u>	<u>0.49</u>	<u>1727</u>	<u>0.64</u>	<u>1864</u>	<u>0.80</u>	1994	0.98	2121	1.16	2247	1.36	2371	1.57
1548	1200	1177	0.17	1285	0.24	1386	0.31	1479	0.39	1642	0.55	1784	0.71	<u>1915</u>	<u>0.87</u>	<u>2040</u>	<u>1.05</u>	2159	1.24	2275	1.44	2391	1.65
1806	1400	1337	0.24	1434	0.32	1524	0.40	1610	0.49	1766	0.67	1904	0.85	2029	1.04	<u>2144</u>	<u>1.23</u>	2255	1.42	2362	1.63	2465	1.85
2064	1600	1501	0.34	1589	0.43	1670	0.52	1748	0.61	1895	0.81	2029	1.02	2150	1.23	2263	1.44	2368	1.65	2467	1.87	2564	2.10
2322	1800	1667	0.45	1747	0.55	1822	0.66	1893	0.75	2029	0.97	2158	1.21	2276	1.44	2385	1.67	2487	1.91	2584	2.14	2677	2.39
2580	2000	1834	0.59	1908	0.71	1978	0.82	2044	0.93	2170	1.16	2290	1.41	2404	1.67	2511	1.93	2611	2.19	2705	2.45	2796	2.71
2838	2200	2003	0.76	2071	0.89	2136	1.01	2198	1.14	2316	1.38	2427	1.64	2536	1.92	2640	2.21	2738	2.50	2830	2.78	2918	3.07
3096	2400	2173	0.96	2236	1.10	2296	1.24	2355	1.37	2466	1.64	2571	1.91	2672	2.20	2771	2.50	2866	2.82	2957	3.14	3044	3.45
3354	2600	2344	1.19	2402	1.34	2459	1.49	2514	1.64	2619	1.94	2718	2.22	2814	2.52	2907	2.83	2998	3.17	3087	3.51	3172	3.86
3612	2800	2515	1.46	2570	1.62	2623	1.79	2675	1.95	2774	2.27	2869	2.58	2960	2.89	3048	3.21	3134	3.55	3219	3.91	3302	4.28
3870	3000	2687	1.77	2739	1.95	2789	2.12	2838	2.30	2932	2.64	3022	2.98	3109	3.31	3193	3.65	3275	3.99	3355	4.36	3435	4.74
4128	3200	2860	2.12	2908	2.31	2955	2.50	3002	2.68	3091	3.05	3178	3.42	3260	3.77	3341	4.13	3419	4.49	3496	4.86	3571	5.25
4386	3400	3033	2.52	3078	2.72	3123	2.92	3167	3.12	3252	3.51	3335	3.90	3414	4.28	3491	4.66	3566	5.03	3640	5.42	3712	5.82

CFM	OV	5" SP		5.5" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2580	2000	2882	2.97	2965	3.24	3044	3.51	<u>3200</u>	<u>4.07</u>	<u>3351</u>	<u>4.67</u>	<u>3496</u>	<u>5.29</u>	3637	5.93	3777	6.60	3916	7.29	4055	8.01	4192	8.75
2838	2200	3003	3.35	3084	3.64	3163	3.93	<u>3312</u>	<u>4.52</u>	<u>3453</u>	<u>5.12</u>	<u>3593</u>	<u>5.76</u>	3729	6.43	3860	7.11	3988	7.82	4115	8.55	4242	9.31
3096	2400	3126	3.76	3206	4.07	3283	4.38	3430	5.01	3569	5.66	3700	6.31	3829	6.98	3956	7.69	4080	8.42	4200	9.17		
3354	2600	3253	4.20	3331	4.54	3407	4.87	3551	5.55	3687	6.22	3818	6.92	3941	7.62	4060	8.33	4180	9.08				
3612	2800	3382	4.66	3459	5.03	3533	5.39	3674	6.11	3808	6.84	3936	7.57	4059	8.31	4176	9.06						
3870	3000	3512	5.13	3588	5.53	3661	5.93	3800	6.72	3932	7.49	4058	8.27	4179	9.05								
4128	3200	3646	5.66	3719	6.07	3791	6.50	3928	7.34	4058	8.18	4182	9.01										
4386	3400	3783	6.23	3854	6.66	3923	7.10	4058	8.00	4186	8.90												
4644	3600	3924	6.86	3992	7.30	4058	7.75	4189	8.68														
4902	3800	4069	7.57	4133	8.01	4197	8.47																
5160	4000	4215	8.34																				
5418	4200																						

MAXIMUM RPM: Class I — 3260 Class II — 4253 Selections above 4000 RPM not recommended. Consult factory.

**CAE SWSI | Size 165**

Outlet Area - 1.57 ft² Wheel Dia. - 16.50 inches Tip Speed - 4.32 x RPM

Fan Efficiency Grade = FEG85  
Max. BHP = 0.222 (RPM÷1000)³

CFM	OV	0.25" SP		0.50" SP		0.75" SP		1" SP		1.5" SP		2" SP		2.5" SP		3" SP		3.5" SP		4" SP		4.5" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1256	800	726	0.08	859	0.16	970	0.20	1086	0.28														
1413	900	780	0.10	909	0.14	1015	0.23	<u>1110</u>	<u>0.30</u>	1323	0.49												
1570	1000	838	0.12	959	0.19	1062	0.26	1154	0.34	1332	0.51												
1727	1100	899	0.14	1010	0.22	1112	0.30	1200	0.38	<u>1359</u>	<u>0.55</u>	1532	0.77										
1884	1200	960	0.17	1063	0.25	1162	0.34	1249	0.43	1402	0.61	1547	0.81	1711	1.07								
2198	1400	1086	0.24	1177	0.33	1264	0.43	1349	0.53	1496	0.74	1625	0.95	<u>1747</u>	<u>1.17</u>	1882	1.44	2023	1.76				
2512	1600	1214	0.32	1298	0.43	1375	0.54	1451	0.65	1595	0.89	1719	1.12	1833	1.37	1940	1.61	2050	1.88	2171	2.21	2295	2.57
2826	1800	1344	0.43	1422	0.55	1493	0.67	1561	0.79	1695	1.05	1818	1.32	1927	1.58	2029	1.85	2127	2.13	2220	2.41	2321	2.73
3140	2000	1475	0.56	1548	0.69	1615	0.82	1677	0.96	1799	1.24	1918	1.53	2026	1.83	2125	2.12	2218	2.42	2307	2.72	2393	3.03
3454	2200	1608	0.71	1676	0.86	1739	1.00	1797	1.15	1909	1.45	2020	1.76	2126	2.09	2224	2.41	2315	2.74	2400	3.06	2483	3.39
3768	2400	1742	0.90	1805	1.05	1865	1.21	1921	1.37	2025	1.69	2126	2.03	2227	2.37	2324	2.73	2414	3.08	2498	3.44	2578	3.79
4082	2600	1876	1.11	1936	1.28	1992	1.45	2046	1.62	2144	1.97	2238	2.32	2332	2.69	2425	3.07	2514	3.45	2598	3.84	2677	4.22
4396	2800	2012	1.36	2068	1.54	2121	1.72	2172	1.91	2266	2.28	2355	2.66	2442	3.04	2529	3.44	2615	3.85	2698	4.27	2777	4.68
4710	3000	2147	1.64	2200	1.84	2251	2.03	2299	2.23	2390	2.63	2474	3.02	2556	3.43	2637	3.85	2719	4.28	2799	4.72	2877	5.17
5024	3200	2284	1.96	2333	2.17	2381	2.38	2427	2.59	2515	3.01	2596	3.44	2674	3.87	2750	4.30	2826	4.75	2903	5.21	2978	5.68
5338	3400	2420	2.32	2467	2.55	2513	2.77	2557	2.99	2641	3.44	2720	3.89	2794	4.34	2867	4.80	2938	5.27	3010	5.75	3082	6.24

CFM	OV	5" SP		5.5" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3140	2000	2478	3.35	2568	3.70	2664	4.10	2862	4.99														
3454	2200	2564	3.73	2641	4.07	2718	4.42	2885	5.23</														

# CAE SWSI | Size 182

Fan Efficiency Grade = FEG90  
Max. BHP = 0.44 (RPM÷1000)<sup>3</sup>

Outlet Area - 1.92 ft<sup>2</sup> Wheel Dia. - 18.25 inches Tip Speed - 4.78 x RPM

CFM	OV	0.50" SP		1" SP		1.5" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1536	800	713	0.16																				
1728	900	753	0.19	947	0.36																		
1920	1000	794	0.22	964	0.39	1151	0.62																
2304	1200	881	0.29	1036	0.49	1175	0.70	1333	0.98														
2688	1400	973	0.38	1117	0.61	1241	0.84	1360	1.09														
3072	1600	1068	0.48	1202	0.74	1321	1.01	1426	1.27	1644	1.89												
3456	1800	1168	0.61	1292	0.90	1403	1.20	1506	1.50	1690	2.11	1893	2.86										
3840	2000	1272	0.77	1385	1.08	1490	1.41	1588	1.74	1763	2.41	1929	3.12	2116	3.99	2302	4.97						
4224	2200	1377	0.95	1480	1.29	1581	1.65	1673	2.01	1843	2.75	1994	3.48	2147	4.29	2318	5.26	2490	6.33				
4608	2400	1484	1.17	1579	1.53	1673	1.92	1761	2.31	1924	3.11	2071	3.91	2208	4.72	2350	5.62	2507	6.67	2666	7.83		
4992	2600	1593	1.42	1680	1.81	1768	2.22	1852	2.64	2008	3.50	2152	4.37	2283	5.23	2408	6.11	2540	7.10	2684	8.22	2832	9.46
5376	2800	1702	1.71	1784	2.12	1865	2.55	1945	3.00	2095	3.92	2233	4.85	2363	5.80	2482	6.72	2598	7.67	2720	8.73	2852	9.92
5760	3000	1813	2.04	1889	2.48	1964	2.93	2040	3.41	2185	4.39	2318	5.38	2443	6.38	2561	7.39	2671	8.37	2780	9.40	2893	10.52
6528	3400	2035	2.83	2102	3.32	2169	3.82	2236	4.35	2369	5.44	2494	6.55	2611	7.67	2723	8.81	2831	9.96	2932	11.09	3028	12.20
7296	3800	2260	3.82	2320	4.36	2380	4.91	2439	5.48	2559	6.67	2676	7.90	2787	9.14	2893	10.40	2994	11.66	3093	12.95	3187	14.22
8064	4200	2485	5.02	2540	5.62	2594	6.22	2648	6.84	2756	8.12	2864	9.45	2970	10.83	3070	12.20	3167	13.59	3260	14.98	3350	16.38

CFM	OV	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP		20" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4608	2400																						
4992	2600	2973	10.74																				
5376	2800	2989	11.21	3125	12.59																		
5760	3000	3014	11.76	3141	13.11	3269	14.55	3393	16.03														
6144	3200	3060	12.47	3171	13.75	3289	15.16	3409	16.65	3528	18.20	3643	19.79										
6528	3400	3124	13.36	3222	14.58	3324	15.90	3433	17.35	3546	18.89	3659	20.50	3770	22.16	3878	23.86						
6912	3600	3198	14.37	3289	15.60	3380	16.86	3475	18.22	3575	19.69	3680	21.27	3787	22.94	3894	24.66	3999	26.43				
7296	3800	3277	15.48	3364	16.73	3449	18.00	3536	19.33	3624	20.72	3717	22.23	3813	23.82	3913	25.51	4015	27.29				
7680	4000	3358	16.63	3443	17.95	3525	19.26	3607	20.60	3689	21.98	3772	23.42	3857	24.93	3947	26.56	4040	28.27				
8064	4200	3438	17.80	3523	19.21	3605	20.60	3684	21.99	3762	23.39	3839	24.80	3917	26.27	3997	27.87	4080	29.45				
8832	4600	3604	20.30	3686	21.85	3766	23.39	3844	24.94	3919	26.46	3992	27.98	4064	29.51								
9600	5000	3776	23.05	3854	24.70	3931	26.37	4006	28.05	4080	29.73												

MAXIMUM RPM: Class I — 2207 Class II — 2879 Class III — 3628 Class IV — 4080 Selections above 4000 RPM not recommended. Consult factory.

# CAE SWSI | Size 200

Fan Efficiency Grade = FEG90  
Max. BHP = 0.695 (RPM÷1000)<sup>3</sup>

Outlet Area - 2.30 ft<sup>2</sup> Wheel Dia. - 20.00 inches Tip Speed - 5.24 x RPM

CFM	OV	0.50" SP		1" SP		1.5" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1840	800	650	0.19																				
2070	900	686	0.22	864	0.43																		
2300	1000	723	0.26	879	0.47	1050	0.75																
2760	1200	802	0.34	944	0.58	1071	0.84	1216	1.17														
3220	1400	886	0.45	1018	0.73	1131	1.01	1240	1.31														
3680	1600	973	0.58	1096	0.89	1204	1.21	1300	1.53	1500	2.27												
4140	1800	1064	0.73	1177	1.08	1279	1.43	1373	1.80	1541	2.52	1727	3.44										
4600	2000	1158	0.92	1262	1.29	1358	1.69	1447	2.09	1607	2.88	1759	3.74	1930	4.78	2100	5.96						
5060	2200	1254	1.14	1348	1.54	1440	1.97	1524	2.40	1679	3.29	1817	4.16	1958	5.14	2115	6.30	2272	7.60				
5520	2400	1352	1.40	1438	1.83	1524	2.29	1605	2.76	1753	3.72	1888	4.68	2013	5.65	2143	6.73	2287	8.00	2432	9.39		
5980	2600	1450	1.69	1530	2.16	1610	2.65	1688	3.16	1830	4.18	1961	5.23	2081	6.26	2196	7.32	2316	8.50	2448	9.86	2583	11.33
6440	2800	1550	2.04	1624	2.53	1698	3.05	1772	3.59	1909	4.69	2035	5.81	2153	6.93	2262	8.04	2369	9.19	2481	10.46	2602	11.89
6900	3000	1650	2.43	1720	2.96	1789	3.50	1858	4.07	1990	5.24	2112	6.43	2227	7.64	2334	8.84	2435	10.03	2535	11.26	2638	12.60
7820	3400	1853	3.38	1914	3.96	1975	4.56	2036	5.19	2158	6.50	2272	7.83	2379	9.17	2482	10.55	2580	11.92	2672	13.26	2760	14.60
8740	3800	2057	4.55	2112	5.20	2167	5.87	2221	6.54	2331	7.97	2438	9.45	2540	10.94	2636	12.44	2729	13.96	2818	15.48	2905	17.02
9660	4200	2262	5.99	2312	6.70	2362	7.43	2412	8.17	2510	9.70	2609	11.30	2706	12.95	2797	14.59	2885	16.25	2970	17.92	3053	19.61

CFM	OV	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP		20" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5520	2400																						
5980	2600	2713	12.89																				
6440	2800	2727	13.44	2851	15.10																		
6900	3000	2749	14.09	2866	15.73	2983	17.45	3096	19.23														
7360	3200	2790	14.93	2892	16.48	3000	18.17	3110	19.96	3219	21.83	3324	23.75										
7820	3400	2848	15.99	2938	17.47	3032	19.06	3131	20.79	3234	22.63	3338	24.58	3440	26.58	3538	28.62						
8280	3600	2915	17.20	2998	18.67	3082	20.20	3169	21.84	3261	23.61	3357	25.51	3455	27.50	3552	29.56	3648	31.68				
8740	3800	2987	18.53	3066	20.02	3144	21.55	3223	23.14	3305	24.84	3389	26.62	3478	28.55	3570	30.59	3663	32.72				
9200	4000	3060	19.90	3138	21.48	3213	23.05	3288	24.66	3363	26.32	3439	28.04	3517	29.86	3599	31.80	3685	33.88				
9660	4200	3133	21.29	3211	22.99	3286	24.66	3358	26.32	3429	27.99	3500	29.70	3571	31.46	3645	33.33	3721	35.30				
10580	4600	3284	24.29	3359	26.14	3432	27.99	3503	29.84	3572	31.67	3639	33.50	3704	35.31								
11500	5000	3440	27.56	3512	29.56	3582	31.55	3651	33.57	3719	35.60												

MAXIMUM RPM: Class I — 2014

### CAE SWSI | Size 222

Fan Efficiency Grade = FEG90  
Max. BHP = 1.19 (RPM ÷ 1000)<sup>3</sup>

Outlet Area - 2.85 ft<sup>2</sup>    Wheel Dia. - 22.25 inches    Tip Speed - 5.84 x RPM

CFM	OV	0.50" SP		1" SP		1.5" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2280	800	582	0.23	750	0.46																		
2565	900	615	0.28	763	0.51																		
2850	1000	649	0.32	784	0.57	920	0.86																
3420	1200	721	0.43	846	0.72	955	1.02	1068	1.37														
3990	1400	799	0.57	913	0.90	1013	1.24	1106	1.59	1300	2.42												
4560	1600	880	0.75	984	1.12	1079	1.50	1165	1.88	1329	2.71	1500	3.70										
5130	1800	964	0.96	1060	1.37	1148	1.79	1230	2.22	1377	3.09	1525	4.07	1678	5.19								
5700	2000	1051	1.22	1138	1.66	1220	2.12	1298	2.59	1439	3.55	1569	4.54	1703	5.65	1841	6.90						
6270	2200	1139	1.52	1219	2.00	1296	2.50	1369	3.01	1505	4.07	1627	5.12	1745	6.23	1867	7.46	1992	8.80				
6840	2400	1229	1.89	1302	2.39	1374	2.93	1443	3.49	1572	4.62	1692	5.78	1801	6.93	1909	8.16	2021	9.49	2135	10.93	2250	12.47
7410	2600	1319	2.31	1387	2.84	1454	3.41	1519	4.01	1643	5.23	1758	6.48	1864	7.72	1964	8.98	2064	10.31	2167	11.75	2272	13.28
7980	2800	1410	2.79	1474	3.36	1536	3.96	1598	4.60	1715	5.90	1826	7.23	1930	8.58	2026	9.91	2119	11.28	2211	12.70	2307	14.24
8550	3000	1502	3.35	1562	3.95	1620	4.58	1678	5.24	1790	6.63	1896	8.04	1996	9.47	2092	10.93	2181	12.36	2267	13.81	2353	15.33
9690	3400	1687	4.68	1740	5.36	1792	6.05	1844	6.78	1945	8.30	2043	9.89	2136	11.48	2226	13.10	2312	14.74	2394	16.37	2472	17.99
10830	3800	1873	6.35	1921	7.10	1968	7.86	2015	8.65	2107	10.31	2197	12.05	2283	13.80	2367	15.59	2448	17.38	2527	19.21	2603	21.04
11970	4200	2061	8.40	2104	9.21	2147	10.05	2190	10.91	2274	12.69	2356	14.55	2437	16.48	2516	18.44	2592	20.40	2666	22.38	2738	24.37

CFM	OV	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP		20" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6840	2400																						
7410	2600	2378	14.91																				
7980	2800	2404	15.85	2502	17.56	2600	19.34																
8550	3000	2442	16.96	2532	18.65	2623	20.43	2715	22.30	2807	24.24												
9120	3200	2491	18.22	2573	19.91	2657	21.69	2742	23.54	2828	25.48	2914	27.49	3000	29.57								
9690	3400	2548	19.64	2624	21.34	2701	23.11	2780	24.98	2860	26.92	2940	28.91	3020	30.96	3101	33.10	3182	35.31				
10260	3600	2611	21.21	2683	22.94	2755	24.74	2827	26.58	2901	28.52	2975	30.50	3051	32.58	3127	34.72	3203	36.91	3279	39.16		
10830	3800	2676	22.87	2747	24.70	2815	26.52	2883	28.39	2951	30.31	3020	32.30	3090	34.36	3161	36.50	3233	38.71	3305	40.97		
11400	4000	2742	24.59	2812	26.53	2879	28.45	2944	30.36	3008	32.29	3073	34.30	3138	36.36	3204	38.49	3271	40.69	3339	42.96		
11970	4200	2809	26.40	2878	28.44	2944	30.45	3008	32.46	3071	34.49	3132	36.50	3193	38.55	3255	40.69	3317	42.87				
13110	4600	2947	30.29	3012	32.47	3077	34.70	3140	36.93	3201	39.14	3260	41.33	3318	43.54								
14250	5000	3090	34.59	3153	36.96	3214	39.32	3275	41.74	3334	44.13												

**MAXIMUM RPM:**    Class I — 1814    Class II — 2367    Class III — 2982    Class IV — 3347

### CAE SWSI | Size 245

Fan Efficiency Grade = FEG90  
Max. BHP = 1.93 (RPM ÷ 1000)<sup>3</sup>

Outlet Area - 3.45 ft<sup>2</sup>    Wheel Dia. - 24.50 inches    Tip Speed - 6.41 x RPM

CFM	OV	0.50" SP		1" SP		1.5" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2760	800	528	0.28	681	0.56																		
3105	900	558	0.34	692	0.62																		
3450	1000	589	0.39	712	0.69	836	1.04																
4140	1200	655	0.53	768	0.87	866	1.23	969	1.65														
4830	1400	725	0.70	828	1.09	919	1.50	1004	1.92	1181	2.93												
5520	1600	798	0.90	893	1.35	979	1.81	1057	2.28	1206	3.28	1362	4.48										
6210	1800	875	1.16	961	1.65	1041	2.16	1116	2.68	1250	3.74	1385	4.93	1524	6.29								
6900	2000	953	1.47	1032	2.00	1107	2.56	1178	3.14	1306	4.30	1424	5.50	1546	6.84	1671	8.34						
7590	2200	1033	1.84	1106	2.41	1176	3.02	1242	3.64	1366	4.92	1477	6.20	1584	7.55	1695	9.03	1809	10.67				
8280	2400	1114	2.28	1181	2.88	1246	3.54	1309	4.21	1427	5.59	1535	6.99	1634	8.38	1733	9.87	1835	11.50	1939	13.25	2043	15.10
8970	2600	1196	2.78	1258	3.43	1319	4.12	1378	4.85	1490	6.32	1595	7.83	1692	9.35	1782	10.86	1873	12.47	1968	14.24	2063	16.08
9660	2800	1279	3.37	1337	4.06	1394	4.79	1450	5.56	1556	7.13	1657	8.75	1751	10.37	1839	12.00	1923	13.64	2007	15.37	2094	17.23
10350	3000	1362	4.04	1416	4.77	1470	5.54	1522	6.34	1624	8.02	1720	9.72	1812	11.47	1898	13.21	1979	14.95	2058	16.73	2136	18.56
11730	3400	1530	5.66	1578	6.47	1626	7.32	1673	8.20	1765	10.05	1853	11.95	1938	13.88	2020	15.85	2098	17.83	2173	19.82	2244	21.79
13110	3800	1699	7.67	1742	8.57	1785	9.50	1828	10.46	1911	12.45	1993	14.56	2072	16.70	2148	18.86	2222	21.05	2293	23.24	2362	25.45
14490	4200	1869	10.14	1908	11.12	1947	12.13	1986	13.18	2062	15.32	2137	17.58	2211	19.93	2282	22.28	2351	24.65	2419	27.07	2485	29.50

CFM	OV	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP		20" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8280	2400																						
8970	2600	2159	18.05																				
9660	2800	2183	19.20	2272	21.27	2361	23.42																
10350	3000	2217	20.53	2299	22.59	2382	24.75	2465	26.99	2549	29.36												
11040	3200	2261	22.05	2336	24.11	2412	26.25	2490	28.52	2568	30.87	2646	33.29	2724	35.80								
11730	3400	2313	23.78	2382	25.83	2452	27.98	2524	30.25	2596	32.57	2669	34.99	2742	37.48	2816	40.09	2890	42.79				
12420	3600	2370	25.67	2435	27.76	2500	29.91	2566	32.16	2633	34.50	2701	36.93	2770	39.45	2839	42.03	2908	44.68	2978	47.45		
13110	3800	2429	27.68	2493	29.89	2555	32.10	2616	34.33	2678	36.66	2741	39.08	2805	41.59	2870	44.20	2935	46.86	3000	49.57		
13800	4000	2489	29.78	2552	32.10	2612	34.39	2672	36.74	2730	39.07	2789	41.50	2848	43.99	2908	46.56	2969	49.23	3031	52.00		
14490	4200	2549	31.94	2612	34.41	2672	36.85	2730	39.27	2787	41.72	2843	44.18	2898	46.65	2954	49.22	3011	51.89				
15870	4600	2674	36.64	2733	39.27	2792	41.97	2849	44.65	2905	47.36	2959	50.03	3011	52.67								
17250	5000	2804	41.85	2861	44.71	2917	47.59																

CAE SWSI | Size 270

Fan Efficiency Grade = FEG90

Outlet Area - 4.19 ft² Wheel Dia. - 27.00 inches Tip Speed - 7.07 x RPM

Max. BHP = 3.07 (RPM ÷ 1000)³

Table with 12 columns for SP (0.50" to 9") and 4 columns for RPM and BHP. Contains performance data for various CFM and OV values.

Table with 12 columns for SP (10" to 20") and 4 columns for RPM and BHP. Contains performance data for various CFM and OV values.

MAXIMUM RPM: Class I — 1474 Class II — 1923 Class III — 2423 Class IV — 2756

CAE SWSI | Size 300

Fan Efficiency Grade = FEG90

Outlet Area - 5.17 ft² Wheel Dia. - 30.00 inches Tip Speed - 7.85 x RPM

Max. BHP = 5.21 (RPM ÷ 1000)³

Table with 12 columns for SP (0.50" to 9") and 4 columns for RPM and BHP. Contains performance data for various CFM and OV values.

Table with 12 columns for SP (10" to 20") and 4 columns for RPM and BHP. Contains performance data for various CFM and OV values.

MAXIMUM RPM: Class I — 1327 Class II — 1731 Class III — 2181 Class IV — 2480

Performance certified is for installation Type B & D: Free or ducted inlet, ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

Legend:

Class I = Regular face to left of Class II Class III = Italic face to right of Class II Class II = Regular face in light shaded area Class IV = Italic face in darker shaded area Max. Static Efficiency = Underlined

# CAE SWSI | Size 330

Fan Efficiency Grade = FEG90

Outlet Area - 6.26 ft<sup>2</sup>    Wheel Dia. - 33.00 inches    Tip Speed - 8.64 x RPM

Max. BHP = 8.38 (RPM ÷ 1000)<sup>3</sup>

CFM	OV	0.50" SP		1" SP		1.5" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5008	800	392	0.50	506	1.00																		
5634	900	411	0.58	517	1.11	613	1.71																
6260	1000	433	0.67	531	1.23	621	1.86																
7512	1200	481	0.90	567	1.53	647	2.21	706	2.55	722	2.97	864	4.62										
8764	1400	531	1.16	609	1.88	681	2.64	749	3.44	877	5.23	998	7.17										
10016	1600	584	1.49	656	2.30	721	3.14	783	4.01	901	5.90	1011	7.98	1117	10.18								
11268	1800	639	1.89	706	2.80	766	3.72	822	4.66	931	6.66	1034	8.87	1131	11.20	1226	13.66	1318	16.23				
12520	2000	696	2.37	757	3.35	813	4.36	866	5.40	967	7.56	1062	9.82	1154	12.31	1242	14.91	1328	17.62	1412	20.41		
13772	2200	754	2.95	810	4.00	863	5.11	913	6.24	1006	8.53	1096	10.95	1182	13.50	1265	16.23	1346	19.10	1424	22.03	1502	25.09
15024	2400	813	3.63	864	4.74	914	5.93	962	7.17	1049	9.62	1134	12.22	1215	14.87	1293	17.66	1370	20.66	1444	23.74	1517	26.96
16276	2600	872	4.40	920	5.59	966	6.85	1012	8.19	1095	10.82	1175	13.59	1251	16.37	1326	19.30	1398	22.34	1469	25.56	1538	28.88
17528	2800	932	5.30	976	6.55	1020	7.90	1063	9.31	1143	12.15	1218	15.04	1291	18.04	1362	21.10	1431	24.25	1498	27.52	1564	30.95
18780	3000	992	6.32	1034	7.67	1075	9.07	1115	10.54	1193	13.61	1264	16.65	1333	19.80	1401	23.05	1466	26.29	1531	29.71	1594	33.21
21284	3400	1114	8.80	1151	10.28	1187	11.82	1223	13.42	1294	16.83	1361	20.29	1424	23.75	1485	27.28	1545	30.90	1604	34.57	1662	38.31
23788	3800	1236	11.86	1270	13.52	1303	15.22	1335	16.95	1399	20.62	1462	24.49	1522	28.38	1578	32.21	1633	36.13	1687	40.12	1741	44.23
26292	4200	1360	15.63	1390	17.43	1420	19.28	1450	21.19	1508	25.11	1566	29.28	1622	33.54	1676	37.83	1728	42.12	1778	46.41	1827	50.76

CFM	OV	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP		20" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15024	2400	<i>1588</i>	<i>30.19</i>	<i>1658</i>	<i>33.49</i>	<i>1727</i>	<i>36.90</i>																
16276	2600	1605	32.26	1672	35.78	1738	39.35	1802	42.91	1866	46.63	1928	50.39										
17528	2800	<i>1628</i>	<i>34.46</i>	<i>1692</i>	<i>38.14</i>	<i>1754</i>	<i>41.83</i>	<i>1815</i>	<i>45.58</i>	<i>1876</i>	<i>49.42</i>	<i>1936</i>	<i>53.29</i>	1995	57.24	2054	61.35						
18780	3000	<i>1655</i>	<i>36.80</i>	<i>1716</i>	<i>40.58</i>	<i>1775</i>	<i>44.38</i>	<i>1834</i>	<i>48.33</i>	<i>1892</i>	<i>52.34</i>	<i>1949</i>	<i>56.37</i>	2006	60.49	2062	64.62	2118	68.90	2172	73.12	2226	77.52
20032	3200	1686	39.38	1744	43.21	1801	47.15	1857	51.17	1913	55.35	1968	59.57	2022	63.83	2076	68.19	2129	72.52	2182	76.96	2234	81.40
21284	3400	1719	42.13	1775	46.05	1830	50.09	1884	54.22	1938	58.52	1991	62.88	2043	67.28	2094	71.71	2145	76.26	2196	80.89	2246	85.49
22536	3600	1755	45.13	1809	49.16	1862	53.28	1914	57.48	1966	61.87	2017	66.32	2067	70.83	2117	75.47	2166	80.14	2215	84.92		
23788	3800	1794	48.37	1845	52.46	1896	56.67	1947	61.04	1997	65.48	2046	70.00	2095	74.67	2143	79.39	2190	84.13	2237	89.01		
25040	4000	1834	51.71	1884	56.03	1933	60.37	1982	64.83	2030	69.33	2078	73.98	2125	78.69	2171	83.45	2217	88.35				
26292	4200	1876	55.22	1924	59.70	1972	64.27	2019	68.83	2066	73.52	2112	78.22	2157	82.95	2202	87.83	2247	92.87				
28796	4600	1966	62.94	2011	67.76	2055	72.58	2099	77.50	2143	82.50	2186	87.47	2229	92.53								
31300	5000	2060	71.42	2103	76.62	2144	81.71	2186	87.03	2226	92.21												

MAXIMUM RPM:    Class I — 1206    Class II — 1573    Class III — 1982    Class IV — 2255

# CAE SWSI | Size 365

Fan Efficiency Grade = FEG90

Outlet Area - 7.66 ft<sup>2</sup>    Wheel Dia. - 36.50 inches    Tip Speed - 9.56 x RPM

Max. BHP = 14.05 (RPM ÷ 1000)<sup>3</sup>

CFM	OV	0.50" SP		1" SP		1.5" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6128	800	348	0.59	449	1.22																		
6894	900	368	0.70	457	1.32																		
7660	1000	387	0.80	470	1.45	551	2.27																
9192	1200	430	1.07	506	1.82			640	3.60														
10724	1400	476	1.40	545	2.24	606	3.13	663	4.08	778	6.38												
12256	1600	524	1.80	587	2.75	645	3.74	697	4.76	797	7.04	898	9.78										
13788	1800	574	2.29	632	3.35	685	4.42	735	5.55	825	7.88	914	10.58	1004	13.69								
15320	2000	626	2.89	678	4.03	728	5.22	775	6.44	861	8.96	940	11.63	1021	14.74	1102	18.19	1182	21.75				
16852	2200	678	3.59	726	4.83	773	6.13	817	7.44	900	10.19	974	12.98	1046	16.01	1120	19.47	1193	23.19	1266	27.10		
18384	2400	731	4.41	775	5.74	819	7.14	861	8.57	939	11.48	1012	14.53	1078	17.60	1144	20.93	1212	24.70	1279	28.71	1347	33.00
19916	2600	785	5.37	826	6.80	866	8.27	906	9.81	980	12.92	1050	16.15	1115	19.46	1176	22.84	1237	26.47	1299	30.46	1362	34.82
21448	2800	839	6.46	877	7.98	915	9.57	952	11.18	1023	14.51	1090	17.93	1153	21.44	1212	25.00	1269	28.69	1325	32.55	1383	36.82
22980	3000	894	7.72	930	9.35	965	11.02	1000	12.74	1068	16.29	1132	19.91	1193	23.62	1251	27.42	1305	31.22	1358	35.17	1410	39.26
26044	3400	1004	10.72	1036	12.55	1067	14.41	1098	16.31	1159	20.22	1218	24.25	1275	28.39	1329	32.53	1382	36.85	1432	41.17	1479	45.44
29108	3800	1116	14.51	1144	16.51	1172	18.56	1199	20.62	1255	24.96	1309	29.36	1362	33.91	1413	38.52	1462	43.14	1510	47.88	1556	52.65
32172	4200	1227	19.06	1253	21.29	1278	23.52	1303	25.79	1353	30.45	1403	35.27	1453	40.27	1500	45.22	1546	50.25	1591	55.35	1635	60.52

CFM	OV	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP		20" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
18384	2400	1413	37.24																				
19916	2600	1424	39.32	1486	43.98	1548	48.66																
21448	2800	1441	41.38	1499	46.17	1557	51.14	1614	56.12	1671	61.10												
22980	3000	1464	43.74	1518	48.52	1572	53.53	1626	58.73	1680	64.07	1733	69.40	1787	74.83								
24512	3200	1492	46.55	1542	51.19	1593	56.21	1644	61.47	1695	66.94	1745	72.46	1795	78.10	1845	83.81	1896	89.66				
26044	3400	1526	49.91	1572	54.48	1619	59.34	1667	64.54	1714	69.88	1762	75.55	1810	81.41	1858	87.42	1905	93.41	1952	99.47	1999	105.54
27576	3600	1562	53.53	1606	58.19	1650	63.04	1694	68.07	1739	73.41	1784	79.00	1829	84.81	1874	90.81	1919	96.98	1964	103.29	2009	109.72
29108	3800	1600	57.43	1643	62.28	1685	67.21	1726	72.19	1768	77.47	1810	82.92	1852	88.57	1895	94.59	1938	100.82				

# CAE SWSI | Size 402

Fan Efficiency Grade = FEG90

Outlet Area - 9.31 ft<sup>2</sup> Wheel Dia. - 40.25 inches Tip Speed - 10.54 x RPM Max. BHP = 22.91 (RPM÷1000)<sup>3</sup>

CFM	OV	0.50" SP		1" SP		1.5" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7448	800	316	0.72	407	1.48																		
8379	900	333	0.84	415	1.62																		
9310	1000	351	0.98	426	1.77																		
11172	1200	390	1.30	459	2.21	500	2.77																
						519	3.19	580	4.37														
13034	1400	432	1.70	494	2.72	550	3.81	601	4.95	706	7.77												
14896	1600	475	2.19	532	3.33	584	4.53	632	5.78	722	8.53	814	11.87										
16758	1800	520	2.78	573	4.07	621	5.38	667	6.76	748	9.58	829	12.88	911	16.68								
18620	2000	567	3.51	615	4.90	660	6.34	703	7.84	781	10.91	852	14.12	926	17.93	999	22.09	1072	26.45				
20482	2200	615	4.37	658	5.86	700	7.42	741	9.05	816	12.38	883	15.77	948	19.43	1015	23.63	1082	28.21	1148	32.95		
22344	2400	663	5.37	703	6.99	742	8.66	780	10.39	851	13.93	917	17.63	978	21.43	1037	25.42	1099	30.03	1160	34.93	1221	40.07
24206	2600	712	6.53	749	8.27	785	10.05	821	11.91	889	15.72	952	19.62	1011	23.66	1066	27.74	1122	32.21	1178	37.04	1235	42.32
26068	2800	761	7.86	795	9.70	829	11.61	863	13.59	928	17.67	988	21.78	1046	26.10	1099	30.40	1150	34.82	1202	39.63	1254	44.75
27930	3000	810	9.36	843	11.36	874	13.35	906	15.45	968	19.77	1026	24.17	1081	28.65	1134	33.31	1183	37.92	1231	42.71	1279	47.78
31654	3400	910	13.02	939	15.24	967	17.49	995	19.80	1051	24.59	1104	29.45	1156	34.50	1205	39.55	1253	44.79	1298	50.00	1341	55.23
35378	3800	1011	17.59	1037	20.05	1062	22.52	1087	25.05	1137	30.27	1187	35.71	1235	41.23	1281	46.80	1325	52.37	1369	58.18	1411	64.02
39102	4200	1112	23.14	1136	25.88	1159	28.61	1181	31.31	1227	37.04	1272	42.87	1317	48.90	1360	54.96	1402	61.12	1443	67.34	1483	73.65
22344	2400	1282	45.34																				
24206	2600	1291	47.77	1347	53.40	1403	59.06																
26068	2800	1307	50.34	1359	56.10	1412	62.19	1463	68.15	1516	74.38												
27930	3000	1327	53.12	1376	58.92	1426	65.15	1475	71.48	1523	77.83	1572	84.44	1620	90.88								
29792	3200	1353	56.60	1399	62.34	1444	68.26	1491	74.77	1537	81.38	1583	88.19	1628	94.99	1673	101.88	1719	108.93				
31654	3400	1383	60.59	1425	66.17	1468	72.14	1511	78.38	1554	84.92	1598	91.89	1641	98.92	1684	106.12	1727	113.46	1770	120.91	1813	128.35
33516	3600	1416	65.03	1456	70.71	1496	76.61	1536	82.74	1577	89.27	1617	95.92	1658	103.01	1699	110.34	1740	117.88	1781	125.59	1822	133.44
35378	3800	1451	69.85	1490	75.75	1528	81.73	1565	87.75	1603	94.15	1641	100.76	1680	107.80	1718	114.93	1757	122.50	1796	130.30	1835	138.30
37240	4000	1486	74.79	1524	80.91	1561	87.09	1597	93.31	1633	99.73	1669	106.36	1705	113.18	1741	120.20	1778	127.70	1815	135.45		
39102	4200	1521	79.88	1559	86.36	1596	92.91	1631	99.32	1666	105.93	1700	112.54	1734	119.35	1768	126.34	1802	133.52	1837	141.12		
42826	4600	1595	91.20	1631	98.07	1667	105.17	1701	112.11	1735	119.27	1768	126.42	1800	133.54	1831	140.63						
46550	5000	1672	103.74	1706	111.04	1740	118.52	1773	125.99	1806	133.65	1838	141.31										

MAXIMUM RPM: Class I — 979 Class II — 1278 Class III — 1610 Class IV — 1850

# CAE SWSI | Size 445

Fan Efficiency Grade = FEG90

Outlet Area - 11.39 ft<sup>2</sup> Wheel Dia. - 44.50 inches Tip Speed - 11.65 x RPM Max. BHP = 37.85 (RPM÷1000)<sup>3</sup>

CFM	OV	0.50" SP		1" SP		1.5" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9112	800	286	0.89	368	1.81																		
10251	900	302	1.04	375	1.97																		
11390	1000	318	1.20	386	2.17	452	3.38																
13668	1200	353	1.59	415	2.70	469	3.89	525	5.35														
15946	1400	391	2.09	447	3.33	497	4.64	544	6.07	638	9.48												
18224	1600	430	2.68	482	4.10	529	5.56	572	7.08	653	10.43	736	14.50										
20502	1800	471	3.41	518	4.96	562	6.58	603	8.25	677	11.73	750	15.75	824	20.39								
22780	2000	513	4.29	556	5.99	597	7.75	636	9.58	706	13.31	771	17.29	838	21.95	904	27.05	970	32.39				
25058	2200	556	5.33	596	7.19	634	9.10	670	11.05	738	15.13	799	19.30	858	23.80	918	28.88	979	34.53	1038	40.25		
27336	2400	600	6.57	636	8.54	672	10.62	706	12.73	770	17.05	830	21.59	884	26.14	939	31.18	994	36.71	1050	42.80	1105	49.08
29614	2600	644	7.99	678	10.13	711	12.33	743	14.57	804	19.21	862	24.06	915	28.97	965	33.99	1015	39.39	1066	45.34	1117	51.74
31892	2800	689	9.64	720	11.89	751	14.25	781	16.63	839	21.56	894	26.65	946	31.90	995	37.26	1041	42.67	1087	48.41	1135	54.82
34170	3000	734	11.51	763	13.91	791	16.34	820	18.92	876	24.20	928	29.54	978	35.04	1026	40.75	1070	46.35	1114	52.29	1157	58.42
38726	3400	824	15.96	850	18.67	875	21.40	901	24.28	951	30.09	1000	36.15	1046	42.22	1091	48.48	1134	54.84	1174	61.11	1214	67.69
43282	3800	915	21.54	938	24.51	961	27.56	984	30.69	1029	37.05	1074	43.68	1117	50.38	1159	57.25	1199	64.09	1238	71.07	1276	78.21
47838	4200	1007	28.39	1028	31.67	1049	35.03	1069	38.35	1110	45.29	1151	52.45	1192	59.88	1231	67.31	1269	74.85	1306	82.46	1342	90.14
27336	2400	1159	55.37																				
29614	2600	1168	58.46	1219	65.40	1269	72.22																
31892	2800	1182	61.52	1230	68.72	1277	76.01	1324	83.47	1371	90.92												
34170	3000	1201	65.05	1245	72.10	1290	79.68	1334	87.36	1378	95.26	1422	103.29	1466	111.30								
36448	3200	1224	69.23	1265	76.14	1307	83.62	1348	91.28	1390	99.45	1432	107.87	1473	116.26	1514	124.77	1555	133.26				
38726	3400	1252	74.25	1290	81.70	1328	88.22	1367	95.87	1406	103.90	1445	112.25	1485	121.11	1524	129.96	1562	138.71	1601	147.86	1640	157.01
41004	3600	1282	79.71	1318	86.64	1354	93.83	1390	101.30	1426	109.04	1463	117.36	1500	126.01	1537	134.96	1574	144.16	1611	153.57	1648	163.15
43282	3800	1313	85.48	1348	92.66	1382	99.89	1416	107.37	1450	115.11	1485	123.35	1520	131.90	1555	140.79	1590	149.99	1625	159.45	1660	169.16
45560	4000	1345	91.60	1379	99.02	1413	106.70	1445	114.18	1478	122.14	1510	130.11	1542	138.31	1575	147.02	1609	156.34	1642	165.69		
47838	4200	1377	97.90	1411	105.75	1444	113.66	1476	121.58	1507	129.50	1538	137.66	1569	146.06	1600	154.69	1631	163.55	1662	172.65		
52394	4600	1443	111.54	1476	120.05	1508	128.59	1539	137.15	1570	145.97	1599	154.47	1628	163.20	1657	172.16						
56950	5000	1513	126.95	1544	135.96	1574	144.90	1604	154.08	1634	163.50	1663	172.88										

MAXIMUM RPM: Class I — 886 Class II — 1156 Class III — 1456 Class IV — 1673

Performance certified is for installation Type B & D: Free or ducted inlet, ducted outlet.  
 Power rating (B

CAE SWSI | Size 490

Fan Efficiency Grade = FEG90  
Max. BHP = 61.26 (RPM ÷ 1000)<sup>3</sup>

Outlet Area - 13.80 ft<sup>2</sup> Wheel Dia. - 49.00 inches Tip Speed - 12.83 x RPM

Table with 13 columns for CFM, OV, and 0.50" SP through 9" SP. Each sub-column lists RPM and BHP. Data rows include 11040-27600 CFM and 30360-38640 CFM.

Table with 13 columns for CFM, OV, and 10" SP through 20" SP. Each sub-column lists RPM and BHP. Data rows include 33120-41400 CFM and 44160-69000 CFM.

MAXIMUM RPM: Class I — 804 Class II — 1050 Class III — 1322 Class IV — 1520

CAE SWSI | Size 542

Fan Efficiency Grade = FEG90  
Max. BHP = 101.90 (RPM ÷ 1000)<sup>3</sup>

Outlet Area - 16.92 ft<sup>2</sup> Wheel Dia. - 54.25 inches Tip Speed - 14.20 x RPM

Table with 13 columns for CFM, OV, and 0.50" SP through 9" SP. Each sub-column lists RPM and BHP. Data rows include 13536-20304 CFM, 23688-33840 CFM, 37224-47376 CFM, and 50760-71064 CFM.

Table with 13 columns for CFM, OV, and 10" SP through 20" SP. Each sub-column lists RPM and BHP. Data rows include 40608-50760 CFM, 54144-64296 CFM, and 67680-84600 CFM.

MAXIMUM RPM: Class I — 727 Class II — 948 Class III — 1194 Class IV — 1373

Performance certified is for installation Type B & D: Free or ducted inlet, ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

Legend:

- Class I = Regular face to left of Class II
Class II = Regular face in light shaded area
Class III = Italic face to right of Class II
Class IV = Italic face in darker shaded area
Max. Static Efficiency = Underlined







CAE SWSI | Size 890

Fan Efficiency Grade = FEG90

Outlet Area - 45.54 ft² Wheel Dia. - 89.00 inches Tip Speed - 23.30 x RPM Max. BHP = 1211.0 (RPM÷1000)³

Table with columns CFM, OV, 0.50" SP, 1" SP, 1.5" SP, 2" SP, 3" SP, 4" SP, 5" SP, 6" SP, 7" SP, 8" SP, 9" SP. Each SP column contains RPM and BHP values.

Table with columns CFM, OV, 10" SP, 11" SP, 12" SP, 13" SP, 14" SP, 15" SP, 16" SP, 17" SP, 18" SP, 19" SP, 20" SP. Each SP column contains RPM and BHP values.

MAXIMUM RPM: Class I — 443 Class II — 578 Class III — 728 Class IV — 837

CAE SWSI | Size 982

Fan Efficiency Grade = FEG90

Outlet Area - 55.50 ft² Wheel Dia. - 98.25 inches Tip Speed - 27.72 x RPM Max. BHP = 1985.0 (RPM÷1000)³

Table with columns CFM, OV, 0.50" SP, 1" SP, 1.5" SP, 2" SP, 3" SP, 4" SP, 5" SP, 6" SP, 7" SP, 8" SP, 9" SP. Each SP column contains RPM and BHP values.

MAXIMUM RPM: Class I — 401 Class II — 523 Class III — 654 Class IV — 756

Performance certified is for installation Type B & D: Free or ducted inlet, ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

Legend:

Class I = Regular face to left of Class II Class III = Italic face to right of Class II
Class II = Regular face in light shaded area Class IV = Italic face in darker shaded area
Max. Static Efficiency = Underlined













### CAE DWDI | Size 542

Outlet Area - 30.46 ft<sup>2</sup> Wheel Dia. - 54.25 inches Tip Speed - 14.20 x RPM Fan Efficiency Grade = FEG90 Max. BHP = 185.4 (RPM ÷ 1000)<sup>3</sup>

CFM	OV	0.5" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		8" SP		10" SP		12" SP		14" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
24368	800	236	2.43																				
30460	1000	260	3.23	<u>321</u>	6.02																		
36552	1200	289	4.32	341	7.35	444	14.97																
42644	1400	319	5.63	366	9.01	<u>453</u>	16.88																
48736	1600	351	7.27	394	11.05	471	19.34	549	29.34														
54828	1800	383	9.19	424	13.48	495	22.45	<u>561</u>	32.40	632	44.29												
60920	2000	416	11.49	454	16.18	521	25.97	581	36.34	<u>642</u>	48.18	706	61.58										
67012	2200	451	14.33	486	19.43	549	30.01	605	40.98	<u>659</u>	<u>52.89</u>	715	66.26	774	81.28								
73104	2400	485	17.50	518	23.05	578	34.52	631	46.22	682	58.80	<u>731</u>	72.02	<u>783</u>	86.91	889	120.18						
79196	2600	520	21.24	551	27.22	608	39.57	658	51.94	706	65.05	753	79.12	<u>798</u>	93.56	896	127.31						
85288	2800	556	25.62	584	31.86	638	45.01	687	58.46	732	72.09	776	86.53	819	101.75	<u>906</u>	135.04	998	173.19				
91380	3000	591	30.42	618	37.17	669	51.10	717	65.65	760	80.03	802	95.17	842	110.62	<u>922</u>	144.29	1005	181.83	1090	223.48		
97472	3200	627	35.97	653	43.24	701	57.92	747	73.31	789	88.70	828	104.10	867	120.44	942	154.76	<u>1018</u>	<u>192.62</u>	<u>1098</u>	234.75	1176	279.15
103564	3400	663	42.16	687	49.72	733	65.28	777	81.45	818	97.82	856	114.14	893	131.00	965	166.56	<u>1035</u>	<u>204.45</u>	<u>1108</u>	246.39	1183	291.64
115748	3800	736	56.89	757	65.13	799	82.37	840	100.38	878	118.35	914	136.47	949	155.08	<u>1015</u>	192.89	<u>1079</u>	232.84	<u>1141</u>	274.45	<u>1205</u>	319.72
127932	4200	809	74.76	828	83.78	867	102.86	904	122.21	940	142.08	974	161.95	1007	182.22	1069	223.02	1128	264.97	1186	309.18	<u>1243</u>	355.41

MAXIMUM RPM: Class I — 750 Class II — 977 Class III — 1232 Class IV — 1373

### CAE DWDI | Size 600

Outlet Area - 37.26 ft<sup>2</sup> Wheel Dia. - 60.00 inches Tip Speed - 15.71 x RPM Fan Efficiency Grade = FEG90 Max. BHP = 306.8 (RPM ÷ 1000)<sup>3</sup>

CFM	OV	0.5" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		8" SP		10" SP		12" SP		14" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
29808	800	213	2.96																				
37260	1000	235	3.94	<u>290</u>	7.35																		
44712	1200	261	5.26	308	8.96	402	18.39																
52164	1400	289	6.92	331	11.03	410	20.71																
59616	1600	317	8.86	356	13.48	426	23.69	496	35.81														
67068	1800	346	11.21	383	16.44	447	27.35	507	39.58	571	54.05												
74520	2000	377	14.15	411	19.87	471	31.75	526	44.62	580	58.79	638	75.20										
81972	2200	407	17.43	439	23.70	496	36.63	547	50.13	<u>596</u>	64.75	647	81.24	700	99.50								
89424	2400	439	21.48	468	28.13	522	42.08	570	56.39	617	72.05	<u>661</u>	88.11	708	106.33	803	146.57						
96876	2600	470	25.95	498	33.26	549	48.21	595	63.55	639	79.82	680	96.42	722	114.67	810	155.65						
104328	2800	502	31.20	528	38.96	577	55.10	621	71.45	662	88.24	702	106.02	741	124.71	819	165.08	902	211.60				
111780	3000	535	37.34	559	45.52	605	62.54	648	80.20	687	97.83	725	116.34	762	135.68	833	176.09	909	222.65	986	273.75		
119232	3200	567	44.01	590	52.78	634	70.91	675	89.51	713	108.32	749	127.51	784	147.38	852	189.48	920	235.28	992	286.48	1064	342.14
126684	3400	600	51.72	621	60.78	663	79.94	703	99.83	740	119.85	774	139.64	807	159.99	872	203.38	<u>936</u>	<u>250.23</u>	<u>1001</u>	<u>300.66</u>	<u>1070</u>	<u>357.12</u>
141588	3800	665	69.44	685	79.85	723	100.99	759	122.54	794	144.84	827	167.30	858	189.66	917	235.38	975	284.29	<u>1032</u>	<u>336.06</u>	<u>1089</u>	<u>390.53</u>
156492	4200	731	91.27	749	102.63	784	125.86	817	149.29	850	173.85	881	198.33	911	223.26	966	272.33	1020	324.21	1072	377.83	1124	434.88

MAXIMUM RPM: Class I — 678 Class II — 883 Class III — 1114 Class IV — 1241

### CAE DWDI | Size 660

Outlet Area - 45.08 ft<sup>2</sup> Wheel Dia. - 66.00 inches Tip Speed - 17.28 x RPM Fan Efficiency Grade = FEG90 Max. BHP = 494.1 (RPM ÷ 1000)<sup>3</sup>

CFM	OV	0.5" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		8" SP		10" SP		12" SP		14" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
36064	800	194	3.60																				
45080	1000	214	4.80	<u>264</u>	8.93																		
54096	1200	237	6.34	280	10.84	365	22.17																
63112	1400	262	8.31	301	13.36	<u>372</u>	24.91																
72128	1600	288	10.71	324	16.37	<u>387</u>	28.60	451	43.35														
81144	1800	315	13.62	348	19.86	407	33.25	461	47.92	519	65.37												
90160	2000	342	17.01	373	23.92	428	38.37	478	53.93	528	71.42	580	90.99										
99176	2200	370	21.09	399	28.65	451	44.34	498	60.92	<u>542</u>	78.42	<u>588</u>	98.21	636	120.19								
108192	2400	399	25.97	426	34.17	475	51.07	519	68.55	560	86.75	601	106.66	644	128.87	730	177.34						
117208	2600	428	31.56	453	40.32	499	58.30	541	76.93	581	96.63	619	117.14	656	138.52	736	188.06						
126224	2800	457	37.91	480	47.14	525	66.84	565	86.66	602	106.87	638	128.17	673	150.47	745	200.10	820	256.02				
135240	3000	486	45.08	508	55.02	550	75.68	589	97.00	625	118.63	659	140.71	692	163.65	758	213.68	826	269.05	896	330.82		
144256	3200	515	53.12	536	63.73	576	85.64	614	108.50	648	130.96	681	154.35	713	178.53	774	228.79	<u>836</u>	<u>284.31</u>	902	346.84	967	413.62
153272	3400	545	62.42	565	73.72	603	96.87	639	120.75	672	144.55	704	169.23	734	193.88	793	246.34	851	302.88	910	363.79	973	432.46
171304	3800	605	84.22	623	96.75	657	122.05	690	148.28	722	175.39	751	201.77	780	229.50	834	285.19	887	344.74	<u>938</u>	<u>406.39</u>	<u>990</u>	<u>472.53</u>
189336	4200	665	110.67	681	124.23	713	152.47	743	180.85	773	210.58	801	240.07	828	269.98	878	329.32	927	391.95	975	457.82	<u>1021</u>	<u>524.94</u>

MAXIMUM RPM: Class I — 616 Class II — 803 Class III — 1013 Class IV — 1128

Performance certified is for installation Type B & D: Free or ducted inlet, ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

#### Legend:

Class I = Regular face to left of Class II Class III = *Italic face* to right of Class II  
Class II = Regular face in light shaded area Class IV = *Italic face* in darker shaded area  
Max. Static Efficiency = Underlined

## CAE DWDI | Size 730

Fan Efficiency Grade = FEG90

Outlet Area - 55.15 ft<sup>2</sup> Wheel Dia. - 73.00 inches Tip Speed - 19.11 x RPM Max. BHP = 817.9 (RPM÷1000)<sup>3</sup>

CFM	OV	0.5" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		8" SP		10" SP		12" SP		14" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
44120	800	175	4.38																				
55150	1000	193	5.82	<u>238</u>	<u>10.83</u>																		
66180	1200	215	7.84	253	13.24	330	27.12																
77210	1400	237	10.18	272	16.32	337	30.66																
88240	1600	260	13.04	293	20.04	350	35.02	408	53.14														
99270	1800	285	16.70	315	24.38	368	40.69	417	<u>58.71</u>	470	80.36												
110300	2000	310	20.97	338	29.46	387	46.95	432	65.90	<u>477</u>	<u>87.18</u>	525	111.71										
121330	2200	335	25.91	361	35.13	408	54.35	450	74.41	<u>490</u>	<u>95.92</u>	532	120.41	575	147.02								
132360	2400	361	31.84	385	41.75	429	62.28	469	83.74	507	106.57	<u>543</u>	<u>130.22</u>	<u>582</u>	<u>157.46</u>	660	216.96						
143390	2600	387	38.62	409	49.12	452	71.72	489	94.04	525	118.02	559	142.81	<u>593</u>	<u>169.38</u>	666	230.66						
154420	2800	413	46.32	434	57.69	474	81.43	511	106.13	544	130.55	577	156.95	609	184.57	<u>673</u>	<u>244.19</u>	741	312.75				
165450	3000	439	55.00	459	67.19	497	92.44	533	118.99	565	145.08	596	172.31	626	200.55	<u>685</u>	<u>261.05</u>	747	329.41	810	404.60		
176480	3200	466	65.14	485	78.16	521	104.91	555	132.65	586	160.33	615	188.19	644	217.77	700	280.16	<u>756</u>	<u>348.05</u>	816	425.08	874	505.53
187510	3400	493	76.48	511	90.28	545	118.39	577	147.16	608	177.22	636	206.54	664	237.59	717	301.42	<u>769</u>	<u>369.96</u>	<u>823</u>	<u>445.47</u>	879	527.80
209570	3800	547	103.04	563	118.20	594	149.32	624	181.54	652	213.81	679	246.86	705	280.51	754	348.86	802	421.83	<u>848</u>	<u>497.07</u>	<u>895</u>	<u>577.95</u>
231630	4200	601	135.23	616	152.20	644	185.98	672	221.48	698	256.65	724	293.46	748	329.48	794	403.17	838	479.31	<u>881</u>	<u>559.11</u>	<u>923</u>	<u>642.00</u>

MAXIMUM RPM: Class I — 557 Class II — 726 Class III — 916 Class IV — 1020

## CAE DWDI | Size 807

Fan Efficiency Grade = FEG90

Outlet Area - 67.48 ft<sup>2</sup> Wheel Dia. - 80.75 inches Tip Speed - 21.14 x RPM Max. BHP = 1355 (RPM÷1000)<sup>3</sup>

CFM	OV	0.5" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		8" SP		10" SP		12" SP		14" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
53984	800	<u>158</u>	<u>5.34</u>																				
67480	1000	175	7.19	216	13.41																		
80976	1200	194	9.54	229	16.26	298	33.07																
94472	1400	214	12.41	246	19.99	<u>304</u>	<u>37.27</u>																
107968	1600	235	15.94	265	24.56	316	42.68	369	65.10														
121464	1800	257	20.28	285	29.90	332	49.48	<u>377</u>	<u>71.85</u>	425	98.41												
134960	2000	280	25.60	305	35.85	350	57.52	391	80.92	<u>431</u>	<u>106.50</u>	474	136.16										
148456	2200	303	31.75	326	42.85	368	66.05	407	91.17	<u>443</u>	<u>117.39</u>	481	147.39	520	180.09								
161952	2400	326	38.83	348	51.07	388	76.30	424	102.47	458	130.11	<u>491</u>	<u>159.45</u>	<u>526</u>	<u>192.51</u>	597	265.93						
175448	2600	349	46.91	370	60.23	408	87.36	442	115.02	475	144.76	506	175.42	<u>536</u>	<u>207.15</u>	602	282.12						
188944	2800	373	56.51	392	70.40	429	99.99	462	129.90	492	159.94	522	192.46	550	225.16	<u>609</u>	<u>299.66</u>	670	382.87				
202440	3000	397	67.37	415	82.24	450	113.64	481	144.83	511	177.75	539	211.08	566	245.50	<u>619</u>	<u>319.02</u>	675	402.52	733	496.56		
215936	3200	421	79.55	438	95.34	471	128.37	502	162.57	530	196.44	556	230.30	583	267.57	633	343.10	<u>684</u>	<u>426.91</u>	737	518.68	790	618.29
229432	3400	445	93.16	462	110.50	493	145.13	522	180.46	549	216.08	575	252.78	600	290.33	648	368.50	<u>695</u>	<u>452.30</u>	<u>744</u>	<u>545.04</u>	795	646.69
256424	3800	494	125.70	509	144.66	537	182.71	564	222.00	590	262.39	614	302.30	637	342.69	682	427.55	725	516.09	<u>767</u>	<u>609.13</u>	<u>810</u>	<u>709.54</u>
283416	4200	543	165.17	557	186.36	582	227.34	607	270.33	631	314.03	654	358.24	677	404.57	718	493.74	758	587.48	797	685.56	<u>835</u>	<u>787.20</u>

MAXIMUM RPM: Class I — 504 Class II — 656 Class III — 828 Class IV — 922

## CAE DWDI | Size 890

Fan Efficiency Grade = FEG90

Outlet Area - 81.98 ft<sup>2</sup> Wheel Dia. - 89.00 inches Tip Speed - 23.30 x RPM Max. BHP = 2203 (RPM÷1000)<sup>3</sup>

CFM	OV	0.5" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		8" SP		10" SP		12" SP		14" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
65584	800	144	6.57																				
81980	1000	159	8.77	196	16.29																		
98376	1200	176	11.58	208	19.82	271	40.46																
114772	1400	194	15.04	223	24.22	<u>276</u>	<u>45.37</u>																
131168	1600	214	19.58	240	29.67	<u>287</u>	<u>52.01</u>	335	79.23														
147564	1800	234	24.90	258	36.08	302	60.57	<u>342</u>	<u>87.25</u>	385	118.98												
163960	2000	254	31.08	277	43.68	317	69.51	354	97.68	<u>391</u>	<u>129.33</u>	430	165.34										
180356	2200	275	38.61	296	52.16	334	80.31	369	110.51	<u>402</u>	<u>142.67</u>	<u>436</u>	<u>178.54</u>	472	219.05								
196752	2400	296	47.28	316	62.18	352	92.66	385	124.77	416	158.57	<u>446</u>	<u>194.37</u>	<u>477</u>	<u>233.50</u>	542	323.66						
213148	2600	317	57.18	336	73.36	370	105.97	401	139.69	431	175.89	459	212.96	<u>487</u>	<u>252.71</u>	546	342.35						
229544	2800	339	69.00	356	85.76	389	121.24	419	157.60	446	193.78	473	232.88	499	273.49	<u>552</u>	<u>362.94</u>	608	465.37				
245940	3000	360	81.70	377	100.27	408	137.75	437	176.64	463	215.04	489	256.35	513	297.29	<u>562</u>	<u>388.33</u>	613	490.35	665	603.09		
262336	3200	382	96.66	398	116.34	427	155.57	455	196.87	481	238.82	505	280.65	529	325.12	574	416.09	<u>620</u>	<u>517.12</u>	669	631.00	717	751.83
278732	3400	404	113.37	419	134.06	447	175.94	474	219.75	499	263.90	522	307.60	544	351.93	588	447.80	<u>631</u>	<u>550.55</u>	675	662.02	721	784.61
311524	3800	448	152.48	462	175.93	487	221.65	512	270.12	535	318.19	557	367.05	578	416.39	619	519.92	658	627.52	<u>696</u>	<u>740.27</u>	<u>734</u>	<u>858.72</u>
344316	4200	493	201.06	505	225.88	528	276.08	551	328.87	573	382.45	594	436.54	614	490.87	651	598.56	688	714.47				

# CAE DWDI | Size 982

Outlet Area - 99.90 ft<sup>2</sup> Wheel Dia. - 98.25 inches Tip Speed - 25.72 x RPM

Fan Efficiency Grade = FEG90  
Max. BHP = 3611 (RPM÷1000)<sup>3</sup>

CFM	OV	0.5" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		8" SP		10" SP		12" SP		14" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
79920	800	<u>130</u>	<u>7.92</u>																				
99900	1000	144	10.68	<u>177</u>	<u>19.67</u>																		
119880	1200	159	14.00			245	49.01																
139860	1400	176	18.41	202	29.52	<u>250</u>	<u>55.28</u>																
159840	1600	194	23.92	218	36.45	<u>260</u>	<u>63.40</u>	303	96.11														
179820	1800	212	30.36	234	44.14	273	73.36	<u>310</u>	<u>106.53</u>	349	145.31												
199800	2000	230	37.83	251	53.28	287	84.57	321	119.40	<u>354</u>	<u>157.36</u>	390	202.23										
219780	2200	249	46.99	268	63.47	303	98.31	334	134.36	<u>364</u>	<u>173.65</u>	395	217.65	427	265.90								
239760	2400	268	57.53	286	75.59	319	113.07	348	151.07	376	191.97	<u>404</u>	<u>236.85</u>	<u>432</u>	<u>284.38</u>	491	394.49						
259740	2600	287	69.57	304	89.08	336	130.11	364	171.30	390	213.65	416	259.92	<u>441</u>	<u>307.65</u>	495	418.23						
279720	2800	307	84.02	323	105.02	352	147.28	379	191.23	404	236.14	429	284.87	452	333.25	500	<u>442.22</u>						
299700	3000	326	99.47	341	121.66	370	168.44	396	215.50	420	263.18	443	312.49	465	363.00	509	<u>472.99</u>						
319680	3200	346	117.76	360	141.16	387	189.88	412	239.64	435	289.62	457	341.01	479	395.73	<u>520</u>	<u>507.19</u>						
339660	3400	366	138.20	379	162.66	405	214.55	429	267.11	452	321.57	473	375.21	493	429.46	533	546.82						
379620	3800	406	186.06	418	213.63	441	269.84	464	329.63	485	388.66	505	448.49	524	508.66								
419580	4200	446	244.06	457	274.46	479	337.96	499	400.48	519	465.94	538	531.78										

MAXIMUM RPM: Class I — 414 Class II — 539

Performance certified is for installation Type B & D: Free or ducted inlet, ducted outlet.  
Power rating (BHP) does not include transmission losses.  
Performance ratings do not include the effects of appurtenances (accessories).

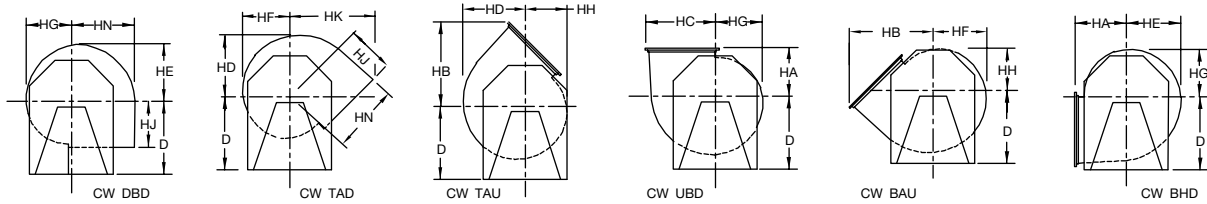
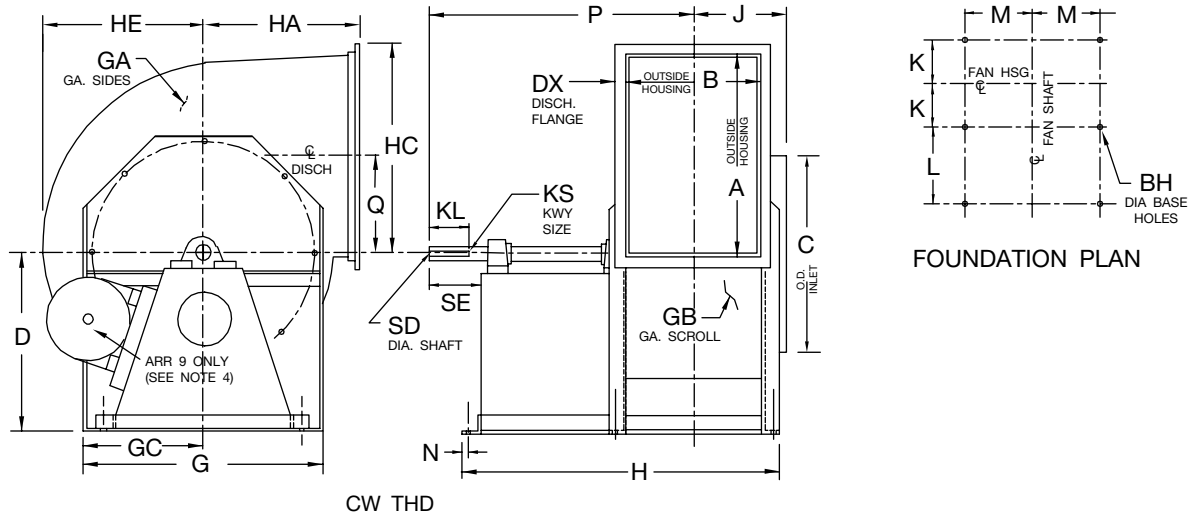
**Legend:**

Class I = Regular face to left of Class II Class III = *Italic face* to right of Class II  
Class II = Regular face in light shaded area Class IV = *Italic face* in darker shaded area  
Max. Static Efficiency = Underlined



## Arrangement 1 & 9, SWSI Rotatable, Class I & II

### Sizes 122-270



**NOTES:**

1. Discharge angles are included on all discharges except 'TAD' and 'DBD'.
2. "CW" rotation is shown. "CCW" rotation is similar but opposite.
- \* 3. Shaft diameter is increased to 1.187 on hi-temp fans that require shaft coolers.
4. Standard Arr. 9 motor location is on the left for 'CW' rotation units and on the right for 'CCW' rotation. Dim 'FR' equals max. motor frame.

## Arrangement 1 & 9, SWSI Rotatable, Class I & II

### Sizes 122-270

SIZE	A	B	BH	C	D	DX	FR ARR. 9	G	GA	GB	GC	H		HA
												ARR. 1	ARR. 9	
122	13.00	9.75	0.44	13.25	14.50	1.00	145T	16.00	14	14	8.00	22.50	27.00	9.75
135	14.31	10.81	0.44	14.56	15.75	1.00	184T	17.50	14	14	8.75	24.13	30.63	10.75
150	15.88	11.94	0.44	16.19	17.75	1.00	184T	19.00	14	14	9.50	26.75	31.75	11.94
165	17.44	13.19	0.44	17.75	19.00	1.00	215T	20.50	14	14	10.25	28.75	36.13	13.13
182	19.38	14.56	0.44	19.50	21.00	1.25	254T	22.50	12	14	11.25	31.13	41.88	14.50
200	21.19	15.94	0.56	21.38	22.75	1.25	254T	25.00	12	14	12.50	33.50	43.25	15.81
222	23.56	17.69	0.56	23.75	25.50	1.25	256T	27.25	12	14	13.63	38.25	45.25	17.69
245	25.94	19.44	0.56	26.06	28.00	1.25	256T	29.75	12	14	14.88	41.50	47.00	19.50
270	28.63	21.38	0.56	28.50	30.50	1.50	284T	33.00	12	14	16.50	45.38	51.75	21.44

SIZE	HB	HC	HD	HE	HF	HG	HH	HJ	HK	HN	J	K	KL	KS	
														CL I	CL II
122	16.75	13.94	11.19	10.56	9.94	9.31	8.69	9.25	15.69	12.94	7.44	5.75	2.50	0.25 x 0.13	0.25 x 0.13
135	18.38	15.25	12.31	11.63	10.94	10.25	9.56	10.25	17.31	14.25	8.00	6.31	2.50	0.25 x 0.13	0.25 x 0.13
150	20.31	16.81	13.75	12.88	12.13	11.38	10.63	11.44	19.25	15.81	9.06	6.88	3.00	0.25 x 0.13	0.25 x 0.13
165	22.25	18.38	15.06	14.13	13.31	12.50	11.69	12.63	21.19	17.38	9.69	7.50	3.00	0.25 x 0.13	0.25 x 0.13
182	24.81	20.56	16.69	15.69	14.75	13.81	12.88	14.00	23.56	19.31	10.88	8.19	3.50	0.25 x 0.13	0.38 x 0.19
200	27.00	22.38	18.38	17.31	16.25	15.19	14.13	15.31	25.75	21.13	11.56	8.88	3.50	0.38 x 0.19	0.38 x 0.19
222	30.00	24.75	20.44	19.06	17.94	16.81	15.69	17.19	28.75	23.50	12.44	10.00	4.00	0.38 x 0.19	0.38 x 0.19
245	33.00	27.13	22.38	21.00	19.75	18.50	17.25	19.00	31.75	25.88	13.31	10.88	4.50	0.38 x 0.19	0.38 x 0.19
270	36.44	30.06	24.69	23.19	21.81	20.44	19.06	20.94	35.00	28.56	14.25	11.81	4.50	0.38 x 0.19	0.38 x 0.19

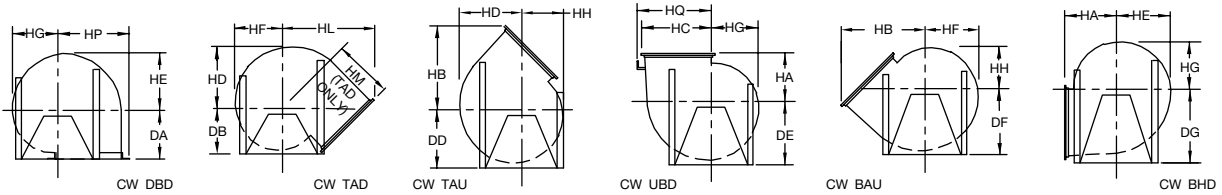
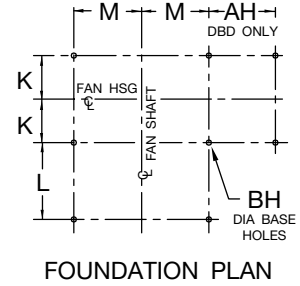
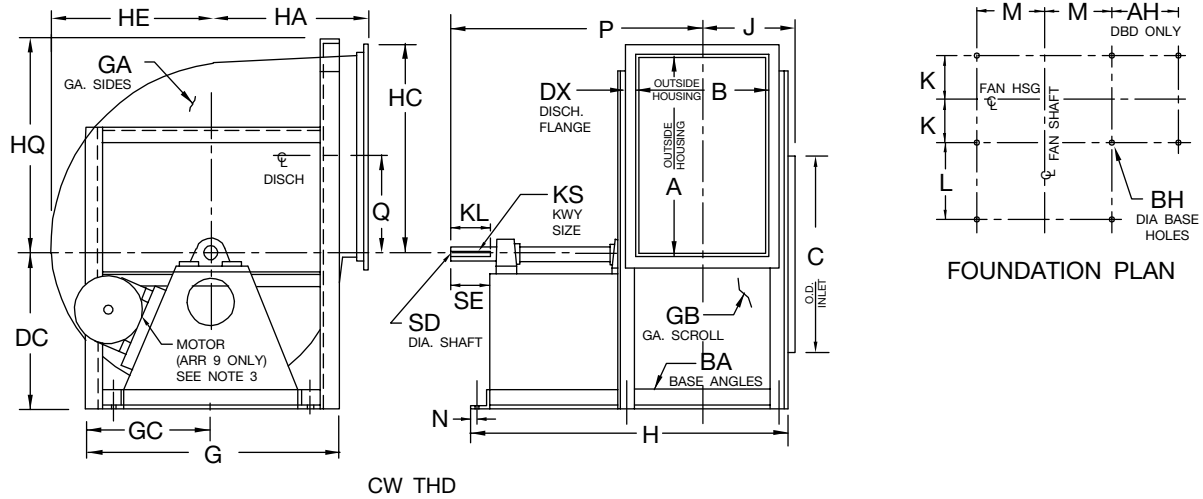
SIZE	L		M	N	P		Q	SD		SE
	ARR. 1	ARR. 9			ARR. 1	ARR. 9		CL I	CL II	
122	10.00	14.50	6.75	0.50	18.00	22.50	6.44	1.00	1.00*	3.25
135	10.50	17.00	7.38	0.50	19.06	25.56	7.13	1.00	1.00*	3.25
150	12.00	17.00	8.25	0.50	21.63	26.63	7.88	1.00	1.19	3.75
165	12.50	19.88	8.75	0.63	22.38	29.75	8.69	1.00*	1.19	3.75
182	13.50	24.25	9.63	0.63	24.56	35.31	9.63	1.19	1.44	4.25
200	14.50	24.25	10.63	0.63	26.25	36.00	10.56	1.44	1.44	4.25
222	16.50	23.50	11.75	0.88	30.13	37.13	11.75	1.44	1.44	4.75
245	18.00	23.50	12.88	0.88	33.00	38.50	12.94	1.44	1.69	5.25
270	20.00	26.38	14.13	0.88	35.94	42.31	14.25	1.69	1.69	5.25

AC9237E - ARR. 1  
AC9239F - ARR. 9

DIMENSIONS ARE NOT TO BE USED FOR CONSTRUCTION. CERTIFIED DRAWINGS AVAILABLE UPON REQUEST.



## Arrangement 1 & 9, SWSI Non-Rotatable, Class I & II Sizes 300-982



**NOTES:**

1. Discharge angles are included on all discharges.
2. "CW" rotation is shown. "CCW" rotation is similar but opposite.
3. Standard Arr. 9 motor location is on the left for "CW" rotation units and on the right for "CCW" rotation. Dimension "FR" equals max. motor frame.
4. For fans with inlet box at 90° or 270° use "BAU" discharge dimension "DF" for centerline height.

# Arrangement 1 & 9, SWSI Non-Rotatable, Class I & II

## Sizes 300-982

		SIZE	A	AH	B	BA	BH	C	DA	DB	DC	DD	DE	DF	DG	DX	FR ARR. 9
ARRANGEMENTS 1 & 9	300	31.81	17.25	23.81	2.50 x 2.50	0.56	31.63	26.75	26.75	26.75	26.75	28.50	30.00	35.50	1.50	286T	
	330	35.13	19.06	26.06	2.50 x 2.50	0.56	34.75	30.00	30.00	30.00	30.00	31.00	32.75	39.00	1.50	324T	
	365	38.69	21.13	28.88	2.50 x 2.50	0.56	38.50	29.00	30.50	29.50	31.50	33.50	35.50	41.00	1.50	324T	
	402	42.63	23.31	31.81	3.00 x 3.00	0.81	42.44	32.00	32.50	33.00	35.25	37.00	39.50	45.50	1.50	326T	
	445	47.13	25.81	35.19	3.00 x 3.00	0.81	46.88	35.38	36.25	35.50	38.50	40.00	43.25	50.00	1.50	364T	
	490	51.94	28.13	38.63	3.00 x 3.00	0.81	51.63	39.00	38.75	39.00	42.25	44.00	47.50	54.75	2.00	364T	
	542	57.38	31.81	42.88	3.00 x 4.00	0.81	57.13	43.06	42.25	43.50	46.50	49.00	52.25	60.25	2.00	404T	
	600	63.50	34.94	47.31	3.00 x 4.00	0.81	63.13	47.69	45.00	48.00	51.25	54.00	57.50	66.25	2.00	404T	
	660	69.69	39.13	52.19	3.50 x 5.00	0.81	69.38	52.44	49.50	52.50	55.75	59.00	63.00	73.25	2.50	405T	
	730	77.25	42.63	57.56	3.50 x 5.00	0.81	76.75	58.00	54.25	57.00	61.75	64.50	69.50	80.75	2.50	405T	
ARR. 1 ONLY	807	85.44	47.06	63.63	3.50 x 5.00	0.81	84.88	64.19	59.50	63.00	67.50	72.00	76.50	89.00	2.50	-	
	890	94.13	50.25	70.13	3.50 x 5.00	0.81	93.38	70.00	65.50	69.25	73.75	78.25	85.00	97.75	2.50	-	
	982	104.00	53.75	77.50	4.00 x 6.00	0.81	103.50	77.75	71.50	76.50	80.00	86.50	92.00	108.25	2.50	-	

		SIZE	G	GA	GB	GC	H	HA	HB	HC	HD	HE	HF	HG	HH	HL	HM	HP
ARRANGEMENTS 1 & 9	300	41.00	10	12	20.50	55.75	23.81	40.31	33.25	27.44	25.75	24.25	22.75	21.25	47.13	33.44	34.25	
	330	44.00	10	12	22.00	60.63	26.25	44.44	36.56	30.13	28.38	26.69	25.00	23.31	51.00	35.56	37.56	
	365	48.00	10	12	24.00	63.38	29.00	48.88	40.13	33.50	31.50	29.63	27.75	25.88	55.50	38.38	41.13	
	402	52.50	10	12	26.25	67.88	32.00	53.81	44.06	37.00	34.69	32.63	30.56	28.50	60.50	41.56	45.56	
	445	56.50	10	12	28.25	72.88	35.38	59.38	48.56	40.88	38.25	36.00	33.75	31.50	65.69	44.38	50.06	
	490	61.50	10	12	30.75	76.63	39.00	65.69	53.88	44.88	42.19	39.69	37.19	34.69	72.31	48.44	54.88	
	542	67.00	10	12	33.50	87.50	43.06	72.38	59.31	49.75	46.69	43.94	41.19	38.44	78.88	52.31	61.31	
	600	73.00	10	12	36.50	91.75	47.69	80.00	65.44	55.00	51.69	48.63	45.56	42.50	86.25	56.56	67.44	
	660	80.00	10	12	40.00	101.25	52.44	88.06	72.13	60.38	56.81	53.38	49.94	46.50	94.81	62.00	74.63	
	730	88.00	10	10	44.00	109.63	58.00	97.31	79.63	66.94	62.88	59.13	55.38	104.19	67.69	82.13		
ARR. 1 ONLY	807	95.50	10	10	47.75	118.63	64.19	107.50	87.81	74.00	69.50	65.38	61.25	57.13	113.69	73.00	90.31	
	890	106.50	7	10	53.25	128.13	70.00	117.75	96.50	81.56	76.63	72.06	67.50	62.94	125.38	80.75	99.00	
	982	122.00	7	7	61.00	140.63	77.75	130.13	106.31	90.06	84.63	79.56	74.50	69.44	140.06	91.75	109.75	

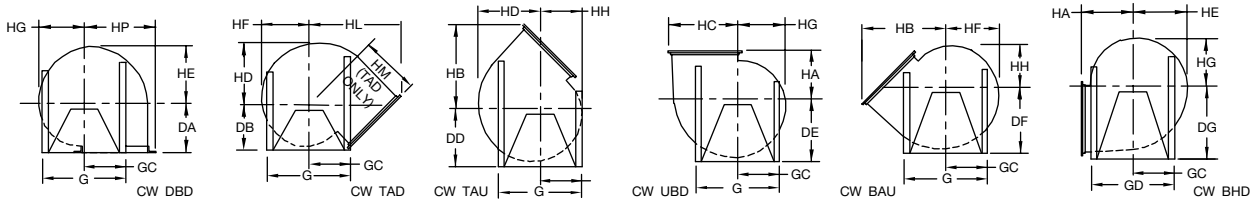
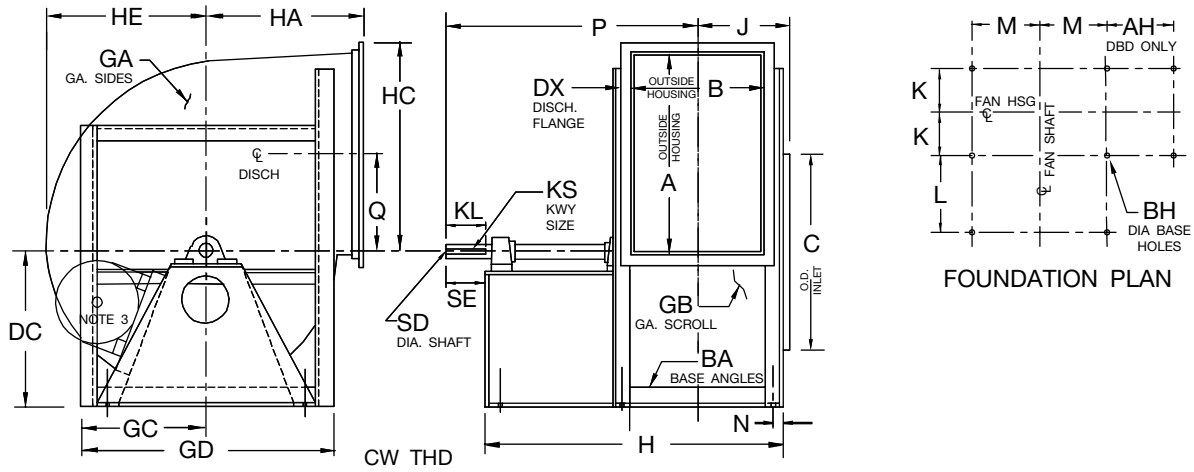
		SIZE	HQ	J	K	KL	KS		L	M	N	P	Q	SD		SE
							CL I	CL II						CL I	CL II	
ARRANGEMENTS 1 & 9	300	-	15.50	13.31	5.00	0.50 x 0.25	0.50 x 0.25	26.88	15.88	1.13	44.56	15.81	1.94	1.94	5.75	
	330	-	16.63	14.44	5.00	0.50 x 0.25	0.50 x 0.25	29.50	17.38	1.13	48.31	17.50	1.94	2.19	5.75	
	365	-	18.00	15.81	5.00	0.50 x 0.25	0.63 x 0.31	29.50	18.88	1.13	49.69	19.25	1.94	2.44	5.75	
	402	-	20.00	17.56	5.00	0.50 x 0.25	0.63 x 0.31	30.00	20.88	1.38	51.69	21.25	2.19	2.44	5.75	
	445	-	21.69	19.25	5.50	0.63 x 0.31	0.63 x 0.31	31.63	22.88	1.38	55.50	23.50	2.44	2.69	6.25	
	490	-	23.38	20.94	5.50	0.63 x 0.31	0.75 x 0.38	32.00	25.38	1.38	57.56	25.88	2.69	2.94	6.25	
	542	59.75	26.50	23.56	6.00	0.75 x 0.38	0.88 x 0.44	36.63	27.63	1.88	64.81	28.63	2.94	3.44	6.75	
	600	65.75	28.75	25.81	6.00	0.75 x 0.38	0.88 x 0.44	36.38	30.63	1.88	66.81	31.69	2.94	3.44	6.75	
	660	72.25	32.19	28.75	7.00	0.88 x 0.44	1.00 x 0.50	39.00	33.13	2.38	72.88	34.75	3.44	3.94	7.75	
	730	79.75	34.94	31.44	7.50	0.88 x 0.44	1.00 x 0.50	42.00	37.13	2.38	79.06	38.50	3.44	3.94	8.25	
ARR. 1 ONLY	807	87.75	37.81	34.44	8.00	1.00 x 0.50	1.00 x 0.50	45.00	40.88	2.38	85.81	42.63	3.94	4.44	9.00	
	890	96.50	41.06	37.69	8.00	1.00 x 0.50	1.25 x 0.63	48.00	46.38	2.38	92.06	46.94	3.94	4.94	9.00	
	982	106.75	45.75	41.88	8.00	1.25 x 0.63	1.25 x 0.63	51.13	53.13	2.88	98.88	51.81	4.94	5.44	9.00	

AC9238E - ARR. 1  
AC9259G - ARR. 9

DIMENSIONS ARE NOT TO BE USED FOR CONSTRUCTION. CERTIFIED DRAWINGS AVAILABLE UPON REQUEST.



## Arrangement 1 & 9, SWSI Non-Rotatable, Class III Sizes 122-330



**NOTES:**

1. Discharge angles are included on all discharges.
2. "CW" rotation is shown. "CCW" rotation is similar but opposite.
3. Standard Arr. 9 motor location is on the left for "CW" rotation units and on the right for "CCW" rotation.
4. Arrangement 1 only - For fans Size 182-330 (except TAD 182-200) with inlet box at 90° or 270° use "BAU" discharge dimension "DF" for centerline height.





# Arrangement 1 & 9, SWSI Non-Rotatable, Class III

## Sizes 122-330

SIZE	A	AH	B	BA	BH	C	DX	G	GA	GB	GC	GD	FR ARR. 9	HA	HB
122	13.13	7.63	9.88	1.50 x 2.00	0.44	13.25	1.25	19.75	10	10	9.88	18.63	215T	9.75	17.00
135	14.44	8.31	10.94	1.50 x 2.00	0.44	14.56	1.25	21.00	10	10	10.50	19.88	256T	10.75	18.63
150	16.00	9.00	12.06	1.50 x 2.00	0.44	16.19	1.25	22.75	10	10	11.38	21.63	256T	11.94	20.56
165	17.56	9.81	13.31	1.50 x 2.00	0.44	17.75	1.25	24.25	10	10	12.13	23.13	256T	13.13	22.50
182	19.50	10.88	14.63	2.00 x 2.00	0.56	19.50	1.25	27.00	10	10	13.50	27.00	286T	14.50	24.81
200	21.31	11.69	16.00	2.00 x 2.00	0.56	21.38	1.25	29.00	10	10	14.50	29.00	326T	15.81	27.06
222	23.69	13.44	17.75	2.50 x 2.50	0.56	23.75	1.25	32.25	10	10	16.13	32.25	326T	17.69	30.06
245	26.19	14.63	19.63	2.50 x 2.50	0.56	26.06	1.50	34.50	7	7	17.25	34.50	326T	19.50	33.25
270	28.88	16.19	21.56	2.50 x 2.50	0.56	28.50	1.50	37.00	7	7	18.50	37.00	365T	21.44	36.50
300	32.00	17.81	23.94	3.00 x 3.00	0.81	31.63	1.50	42.00	7	7	21.00	42.00	365T	23.81	40.38
330	35.31	19.63	26.19	3.00 x 3.00	0.81	34.75	1.50	45.00	7	7	22.50	45.00	365T	26.25	44.44

SIZE	HC	HD	HE	HF	HG	HH	HL	HM	HP	J	K	KS	M	N	Q	SD
122	14.25	11.25	10.63	10.00	9.38	8.75	22.94	18.19	15.00	7.94	6.06	0.38 x 0.19	6.50	0.88	6.44	1.44
135	15.56	12.38	11.69	11.00	10.31	9.63	24.50	19.06	16.31	8.50	6.63	0.38 x 0.19	7.13	0.88	7.13	1.44
150	17.13	13.81	12.94	12.19	11.44	10.69	26.50	20.31	17.88	9.06	7.19	0.38 x 0.19	8.00	0.88	7.88	1.69
165	18.69	15.13	14.19	13.38	12.56	11.75	28.31	21.38	19.44	9.69	7.81	0.38 x 0.19	8.75	0.88	8.69	1.69
182	20.63	16.75	15.75	14.81	13.88	12.94	31.06	23.31	21.38	10.31	8.44	0.38 x 0.19	9.63	0.88	9.63	1.69
200	22.44	18.38	17.38	16.31	15.25	14.19	33.31	24.69	23.19	11.00	9.13	0.50 x 0.25	10.63	0.88	10.56	1.94
222	24.81	20.50	19.13	18.00	16.88	15.75	36.69	27.06	26.06	12.38	10.25	0.50 x 0.25	11.50	1.13	11.75	1.94
245	27.50	22.50	21.13	19.88	18.63	17.38	38.88	27.50	28.50	13.31	11.19	0.50 x 0.25	12.63	1.13	12.94	2.19
270	30.19	24.81	23.31	21.94	20.56	19.19	42.06	29.25	31.19	14.31	12.19	0.50 x 0.25	13.88	1.13	14.25	2.19
300	33.31	27.50	25.81	24.31	22.81	21.31	46.75	32.81	34.81	16.00	13.63	0.63 x 0.31	15.63	1.38	15.81	2.44
330	36.63	30.19	28.44	26.75	25.06	23.38	50.63	34.94	38.13	17.13	14.75	0.63 x 0.31	17.13	1.38	17.50	2.69

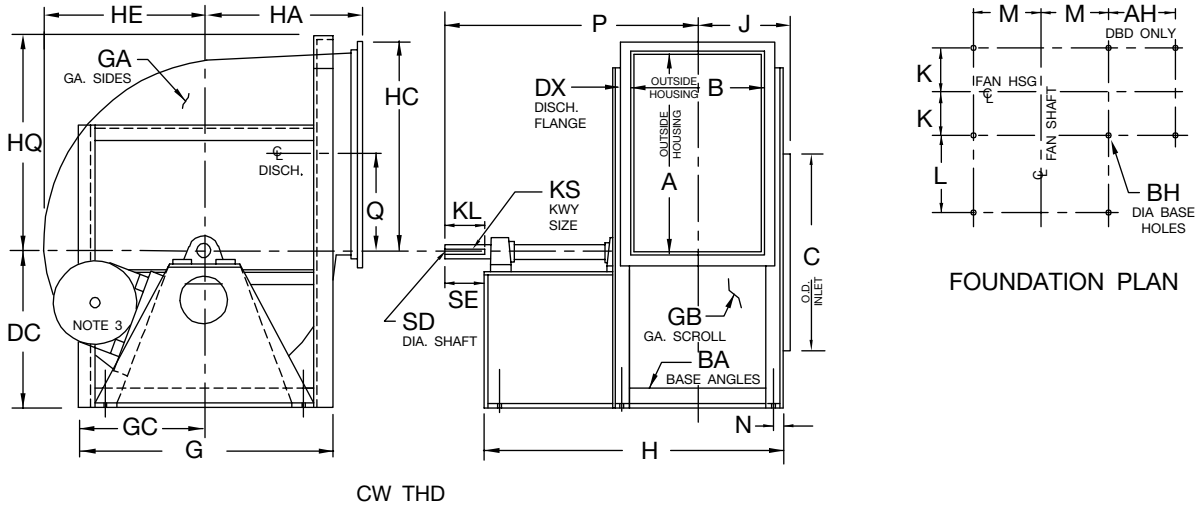
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	ARR. 1	ARR. 9	ARR. 1	ARR. 9	ARR. 1	ARR. 9	ARR. 1	ARR. 9	ARR. 1	ARR. 9	ARR. 1	ARR. 9
122	9.75	20.75	15.25	20.75	10.25	20.75	11.00	20.75	11.50	20.75	12.25	20.75
135	10.75	23.50	16.00	23.50	11.25	23.50	12.00	23.50	12.75	23.50	13.25	23.50
150	11.94	23.75	16.75	23.75	12.25	23.75	13.25	23.75	14.00	23.75	14.75	23.75
165	13.13	23.75	17.50	23.75	13.50	23.75	14.50	23.75	15.25	23.75	16.25	23.75
182	14.50	26.25	18.50	26.25	14.75	26.25	15.75	26.25	16.75	26.25	17.75	26.25
200	15.81	29.50	19.50	29.50	16.25	29.50	17.25	29.50	18.25	29.50	19.25	29.50
222	17.69	30.00	21.00	30.00	18.00	30.00	19.25	30.00	20.50	30.00	22.00	30.00
245	19.50	30.25	22.00	30.25	20.00	30.25	21.25	30.25	22.50	30.25	24.00	30.25
270	21.44	33.00	23.50	33.00	22.00	33.00	23.50	33.00	24.75	33.00	26.25	33.00
300	23.81	33.50	26.00	33.50	24.50	33.50	26.00	33.50	27.50	33.50	29.50	33.50
330	26.25	34.00	27.75	34.00	27.00	34.00	28.50	34.00	30.00	34.00	32.25	34.00

SIZE	DG		H		KL		L		P		SE	
	ARR. 1	ARR. 9	ARR. 1	ARR. 9	ARR. 1	ARR. 9	ARR. 1	ARR. 9	ARR. 1	ARR. 9	ARR. 1	ARR. 9
122	9.75	20.75	15.25	20.75	10.25	20.75	11.00	20.75	11.50	20.75	12.25	20.75
135	10.75	23.50	16.00	23.50	11.25	23.50	12.00	23.50	12.75	23.50	13.25	23.50
150	11.94	23.75	16.75	23.75	12.25	23.75	13.25	23.75	14.00	23.75	14.75	23.75
165	13.13	23.75	17.50	23.75	13.50	23.75	14.50	23.75	15.25	23.75	16.25	23.75
182	14.50	26.25	18.50	26.25	14.75	26.25	15.75	26.25	16.75	26.25	17.75	26.25
200	15.81	29.50	19.50	29.50	16.25	29.50	17.25	29.50	18.25	29.50	19.25	29.50
222	17.69	30.00	21.00	30.00	18.00	30.00	19.25	30.00	20.50	30.00	22.00	30.00
245	19.50	30.25	22.00	30.25	20.00	30.25	21.25	30.25	22.50	30.25	24.00	30.25
270	21.44	33.00	23.50	33.00	22.00	33.00	23.50	33.00	24.75	33.00	26.25	33.00
300	23.81	33.50	26.00	33.50	24.50	33.50	26.00	33.50	27.50	33.50	29.50	33.50
330	26.25	34.00	27.75	34.00	27.00	34.00	28.50	34.00	30.00	34.00	32.25	34.00

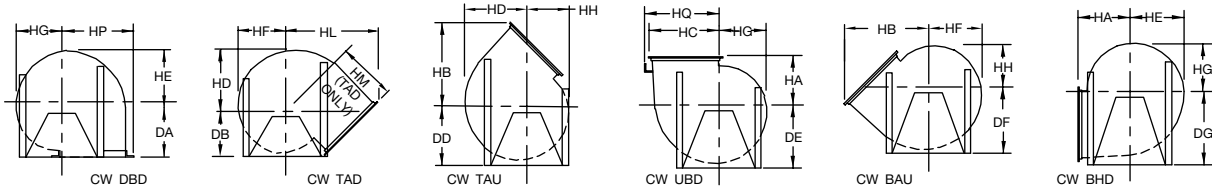
AC9244D - ARR. 1  
AC9128E - ARR. 9

DIMENSIONS ARE NOT TO BE USED FOR CONSTRUCTION. CERTIFIED DRAWINGS AVAILABLE UPON REQUEST.

## Arrangement 1 & 9, SWSI Non-Rotatable, Class III Sizes 365-890



FOUNDATION PLAN



**NOTES:**

1. Discharge angles are included on all discharges.
2. "CW" rotation is shown. "CCW" rotation is similar but opposite.
3. Standard Arr. 9 motor location is on the left for 'CW' rotation units and on the right for 'CCW' rotation. Dim 'FR' equals max. motor frame.
4. For fans with inlet box at 90° or 270° use "BAU" discharge dimension "DF" for centerline height.



# Arrangement 1 & 9, SWSI Non-Rotatable, Class III

## Sizes 365-890

SIZE	A	AH	B	BA	BH	C	DX	G	GA	GB	GC	FR ARR. 9	HA	HB	HC
365	38.88	21.69	29.00	3.00 x 3.00	0.81	38.50	1.50 x 1.50	49.00	7	7	24.50	405T	29.00	48.94	40.19
402	42.81	24.38	31.94	3.00 x 4.00	0.81	42.44	2.00 x 2.00	52.50	7	7	26.25	405T	32.00	54.19	44.63
445	47.31	26.88	35.31	3.00 x 4.00	0.81	46.88	2.00 x 2.00	56.50	7	7	28.25	405T	35.38	59.75	49.13
490	52.13	29.19	38.75	3.00 x 4.00	0.81	51.63	2.00 x 2.00	61.50	7	7	30.75	405T	39.00	65.69	53.94
542	57.56	32.88	43.00	3.50 x 5.00	0.81	57.13	2.50 x 2.50	67.00	7	7	33.50	405T	43.06	72.81	59.88
600	63.69	36.00	47.44	3.50 x 5.00	0.81	63.13	2.50 x 2.50	74.00	7	7	37.00	405T	47.69	80.38	66.00
660	69.88	40.19	52.31	4.00 x 6.00	0.81	69.38	2.50 x 2.50	80.00	7	7	40.00	405T	52.44	88.13	72.19
730	77.38	43.69	57.69	4.00 x 6.00	0.81	76.75	2.50 x 2.50	88.00	7	7	44.00	405T	58.00	97.38	79.69
807	85.56	48.13	63.75	4.00 x 6.00	0.81	84.88	2.50 x 2.50	96.50	7	7	48.25	405T	64.19	107.50	87.88
890	94.25	51.31	70.13	4.00 x 6.00	0.81	93.38	2.50 x 2.50	107.50	7	7	53.75	405T	70.00	117.75	96.56

SIZE	HD	HE	HF	HG	HH	HL	HM	HP	HQ	J	K	KS	M	N	Q	SD
365	33.63	31.56	29.69	27.81	25.94	55.13	37.75	41.69	-	18.50	16.13	0.63 x 0.31	18.63	1.38	19.25	2.69
402	37.06	34.75	32.69	30.63	28.56	60.38	40.75	46.63	-	21.00	18.13	0.75 x 0.38	20.38	1.88	21.25	2.94
445	41.00	38.31	36.06	33.81	31.56	66.56	44.94	51.13	-	22.69	19.81	0.88 x 0.44	22.38	1.88	23.50	3.44
490	44.94	42.25	39.75	37.25	34.75	72.44	48.50	55.94	-	24.38	21.50	0.88 x 0.44	24.88	1.88	25.88	3.44
542	49.88	46.75	44.00	41.25	38.50	79.75	52.88	62.38	59.75	27.50	24.13	1.00 x 0.50	27.13	2.38	28.63	3.94
600	55.06	51.75	48.69	45.63	42.56	87.56	57.81	68.50	66.25	29.75	26.38	1.00 x 0.50	30.13	2.38	31.69	4.44
660	60.50	56.88	53.44	50.00	46.56	94.94	62.06	75.69	72.38	33.19	29.31	1.00 x 0.50	32.63	2.88	34.75	4.44
730	67.00	62.94	59.19	55.44	51.69	104.25	67.75	83.19	79.75	35.88	32.00	1.25 x 0.63	36.63	2.88	38.50	4.94
807	74.13	69.56	65.44	61.31	57.19	114.31	73.75	91.38	88.38	38.88	35.00	1.25 x 0.63	40.38	2.88	42.63	4.94
890	81.63	76.69	72.13	67.56	63.00	125.94	81.50	100.06	97.00	42.06	38.19	1.25 x 0.63	45.88	2.88	46.94	5.44

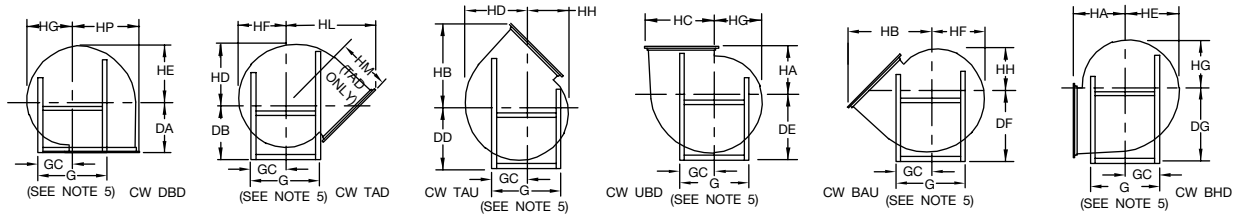
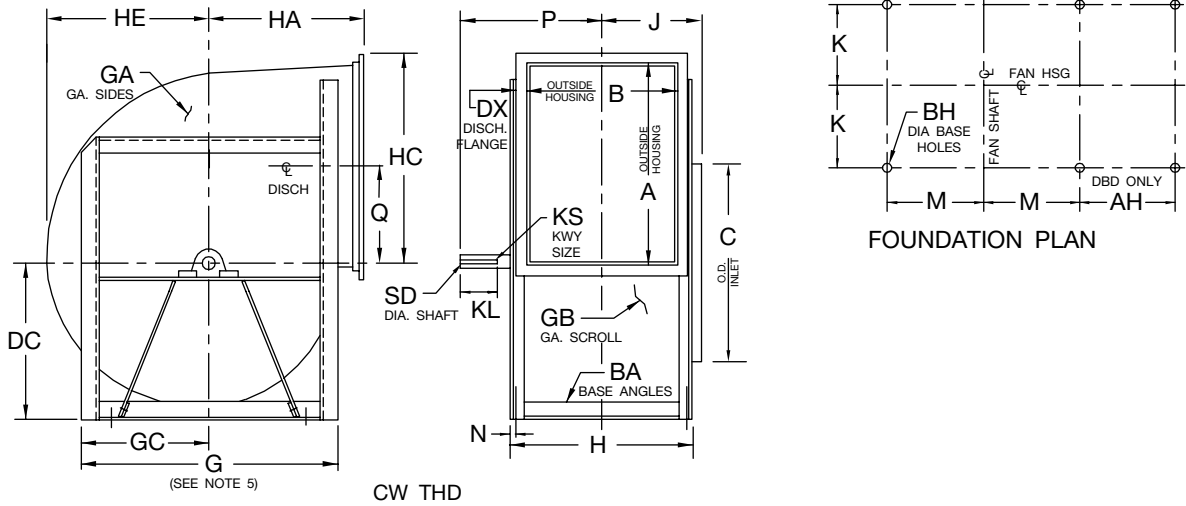
SIZE	DA		DB		DC		DD		DE		DF	
	ARR. 1	ARR. 9	ARR. 1	ARR. 9	ARR. 1	ARR. 9	ARR. 1	ARR. 9	ARR. 1	ARR. 9	ARR. 1	ARR. 9
365	29.00	37.50	29.25	37.50	29.50	37.50	31.50	37.50	33.50	37.50	35.50	37.50
402	32.00	40.25	31.75	40.25	33.00	40.25	35.25	40.25	37.00	40.25	39.50	40.25
445	35.38	41.00	36.25	41.00	35.50	41.00	38.50	41.00	40.00	41.00	43.25	43.25
490	39.00	41.00	38.75	41.00	39.00	41.00	42.25	42.25	44.00	44.00	47.50	47.50
542	43.06	43.06	42.25	42.25	43.50	43.50	46.50	46.50	49.00	49.00	52.25	52.25
600	47.69	47.69	45.00	45.00	48.00	48.00	51.25	51.25	54.00	54.00	57.50	57.50
660	52.44	52.44	49.50	49.50	52.50	52.50	55.75	55.75	59.00	59.00	63.00	63.00
730	58.00	58.00	54.25	54.25	57.00	57.00	61.75	61.75	64.50	64.50	69.50	69.50
807	64.19	64.19	59.50	59.50	63.00	63.00	67.50	67.50	72.00	72.00	76.50	76.50
890	70.00	70.00	65.50	65.50	69.25	69.25	73.75	73.75	78.25	78.25	85.00	85.00

SIZE	DG		H		KL		L		P		SE	
	ARR. 1	ARR. 9	ARR. 1	ARR. 9	ARR. 1	ARR. 9	ARR. 1	ARR. 9	ARR. 1	ARR. 9	ARR. 1	ARR. 9
365	41.50	41.50	58.00	70.38	7.00	8.00	22.50	34.88	48.25	61.88	7.75	9.00
402	45.50	45.50	64.00	81.13	8.00	8.75	24.00	41.13	52.75	71.13	8.75	10.00
445	50.00	50.00	70.38	84.50	8.00	8.75	27.00	41.13	57.69	72.81	9.00	10.00
490	54.75	54.75	75.75	87.88	9.00	8.75	29.00	41.13	62.38	74.50	10.00	10.00
542	60.75	60.75	82.00	93.75	9.00	9.00	29.50	41.25	65.50	77.75	10.00	10.50
600	66.75	66.75	89.50	98.25	9.50	9.00	32.50	41.25	71.25	80.00	10.50	10.50
660	73.75	73.75	98.38	105.13	10.00	9.00	35.00	41.75	77.19	83.44	11.00	10.50
730	81.25	81.25	106.75	110.50	10.50	9.00	38.00	41.75	83.38	86.13	11.50	10.50
807	89.50	89.50	115.75	116.50	10.50	9.00	41.00	41.75	89.38	89.13	11.50	10.50
890	98.25	98.25	125.13	122.88	11.00	9.00	44.00	41.75	96.06	92.31	12.00	10.50

AC9245E - ARR. 1  
AC9129D - ARR. 9

DIMENSIONS ARE NOT TO BE USED FOR CONSTRUCTION. CERTIFIED DRAWINGS AVAILABLE UPON REQUEST.

# Arrangement 3, SWSI Non-Rotatable, Class I & II Sizes 122-982



### NOTES:

- Discharge angles are included on all discharges.
- "CW" rotation is shown. "CCW" rotation is similar but opposite.
- Inlet bearing bar support is removable.
- Bearing bar supports may extend beyond base angles. See AC1000851 for dimensions if space limitations are required for mounting fan.
- For Sizes 122, 135 and 150 top horizontal and bottom horizontal discharges, 'G' is 1.25" smaller than indicated in the table.

SIZE	A	AH	B	BA	BH	C	DA	DB	DC	DD	DE	DF	DG	DX	G	GA	GB	GC
122	13.00	7.06	9.75	1.5x1.5	0.44	13.25	9.75	15.25	10.25	11.00	11.50	12.25	15.00	1.00	19.75*	14	14	9.88
135	14.31	7.75	10.81	1.5x1.5	0.44	14.56	10.75	16.00	11.25	12.00	12.75	13.25	16.25	1.00	21.00*	14	14	10.50
150	15.88	8.44	11.94	1.5x1.5	0.44	16.19	11.94	16.75	12.25	13.25	14.00	14.75	18.00	1.00	22.75*	14	14	11.38
165	17.44	9.75	13.19	1.5x2.0	0.44	17.75	13.13	17.50	13.50	14.50	15.25	16.25	19.50	1.00	24.25	14	14	12.13
182	19.38	10.81	14.56	1.5x2.0	0.44	19.50	14.50	18.50	14.75	15.75	16.75	17.75	21.50	1.25	26.00	12	14	13.00
200	21.19	11.63	15.94	1.5x2.0	0.56	21.38	15.81	19.50	16.25	17.25	18.25	19.25	23.50	1.25	28.00	12	14	14.00
222	23.56	12.88	17.69	2.0x2.0	0.56	23.75	17.69	21.00	18.00	19.25	20.50	22.00	26.00	1.25	31.25	12	14	15.63
245	25.94	14.13	19.44	2.0x2.0	0.56	26.06	19.50	22.00	20.00	21.25	22.50	24.00	28.25	1.25	33.50	12	14	16.75
270	28.63	15.56	21.38	2.0x2.0	0.56	28.50	21.44	23.50	22.00	23.50	24.75	26.25	31.00	1.50	36.00	12	14	18.00
300	31.81	17.25	23.81	2.5x2.5	0.56	31.63	23.81	26.00	24.50	26.00	28.50	29.50	34.25	1.50	41.00	10	12	20.50
330	35.13	19.06	26.06	2.5x2.5	0.56	34.75	26.25	27.75	27.00	28.50	31.00	32.25	37.25	1.50	44.00	10	12	22.00
365	38.69	21.13	28.88	2.5x2.5	0.56	38.50	29.00	30.50	29.50	31.50	33.50	35.50	41.00	1.50	48.00	10	12	24.00
402	42.63	23.31	31.81	3.0x3.0	0.81	42.44	32.00	32.50	33.00	35.25	37.00	39.50	45.50	1.50	52.50	10	12	26.25
445	47.13	25.81	35.19	3.0x3.0	0.81	46.88	35.38	36.25	35.50	38.50	40.00	43.25	50.00	1.50	56.50	10	12	28.25
490	51.94	28.13	38.63	3.0x3.0	0.81	51.63	39.00	38.75	39.00	42.25	44.00	47.50	54.75	2.00	61.50	10	12	30.75
542	57.38	31.81	42.88	3.0x4.0	0.81	57.13	43.06	42.25	43.50	46.50	49.00	52.25	60.25	2.00	67.00	10	12	33.50
600	63.50	34.94	47.31	3.0x4.0	0.81	63.13	47.69	45.00	48.00	51.25	54.00	57.50	66.25	2.00	73.00	10	12	36.50
660	69.69	39.13	52.19	3.5x5.0	0.81	69.38	52.44	49.50	52.50	55.75	59.00	63.00	73.25	2.50	80.00	10	12	40.00
730	77.25	42.63	57.56	3.5x5.0	0.81	76.75	58.00	54.25	57.00	61.75	64.50	69.50	80.75	2.50	88.00	10	10	44.00
807	85.44	47.06	63.63	3.5x5.0	0.81	84.88	64.19	59.50	63.00	67.50	72.00	76.50	89.00	2.50	95.50	10	10	47.75
890	94.13	50.25	70.13	3.5x5.0	0.81	93.38	70.00	65.50	69.25	73.75	78.25	85.00	97.81	2.50	106.50	7	10	53.25
982	104.00	53.75	77.50	4.0x6.0	0.81	103.50	77.75	71.50	76.50	80.00	86.50	92.00	108.25	2.50	122.00	7	7	61.00

\* For Sizes 122, 135 and 150, see note 5.

## Arrangement 3, SWSI Non-Rotatable, Class I & II

### Sizes 122-982

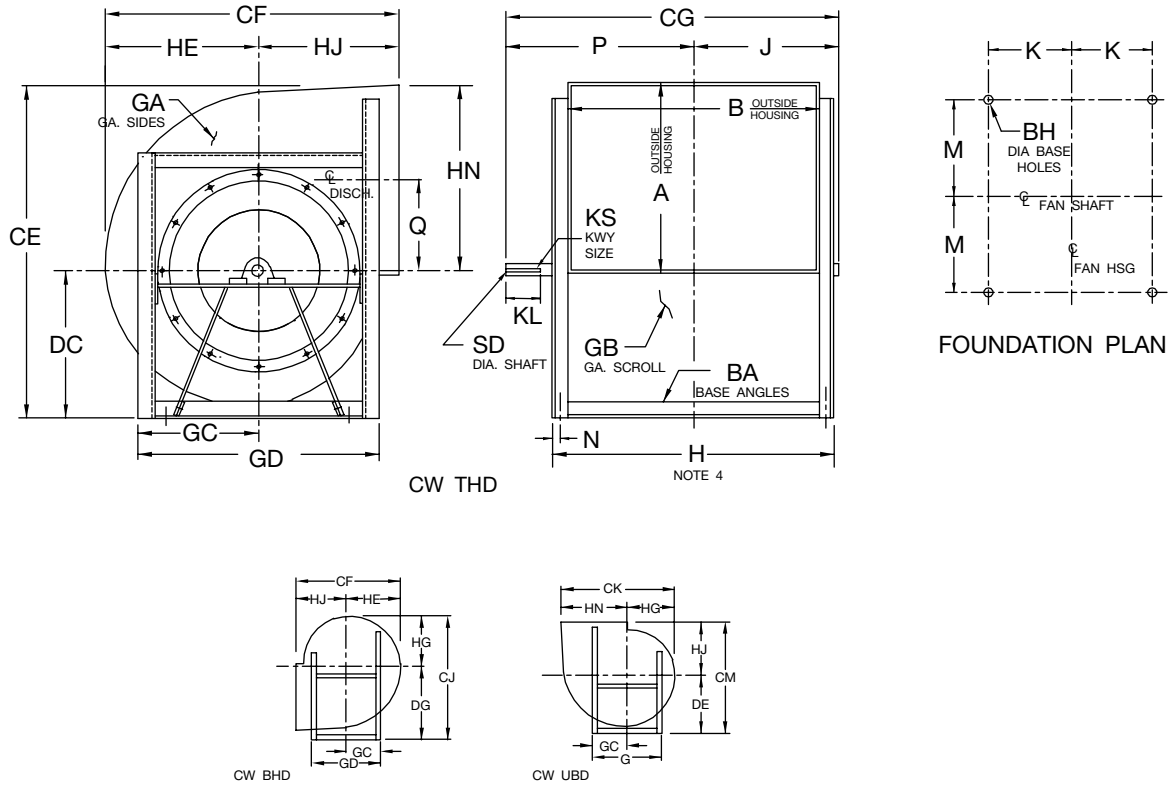
SIZE	H	HA	HB	HC	HD	HE	HF	HG	HH	HL	HM	HP	HQ	J	K	KL
122	12.75	9.75	16.75	13.94	11.19	10.56	9.94	9.31	8.69	22.50	17.88	14.44	-	7.44	5.75	2.50
135	13.88	10.75	18.38	15.25	12.31	11.63	10.94	10.25	9.56	24.06	18.75	15.75	-	8.00	6.31	2.50
150	15.00	11.94	20.31	16.81	13.75	12.88	12.13	11.38	10.63	26.00	20.00	17.31	-	9.06	6.88	3.00
165	17.25	13.13	22.25	18.38	15.06	14.13	13.31	12.50	11.69	27.88	21.06	19.38	-	9.69	7.75	3.00
182	18.63	14.50	24.81	20.56	16.69	15.69	14.75	13.81	12.88	30.44	22.50	21.31	-	10.88	8.44	3.50
200	20.00	15.81	27.00	22.38	18.38	17.31	16.25	15.19	14.13	32.75	23.94	23.13	-	11.56	9.13	3.50
222	21.75	17.69	30.00	24.75	20.44	19.06	17.94	16.81	15.69	36.06	26.25	25.50	-	12.44	10.00	4.00
245	23.50	19.50	33.00	27.13	22.38	21.00	19.75	18.50	17.25	38.88	27.81	27.88	-	13.31	10.88	4.50
270	25.38	21.44	36.44	30.06	24.69	23.19	21.81	20.44	19.06	42.38	29.88	30.56	-	14.25	11.81	4.50
300	28.88	23.81	40.31	33.25	27.44	25.75	24.25	22.75	21.25	47.13	33.44	34.25	-	16.00	13.31	5.00
330	31.13	26.25	44.44	36.56	30.13	28.38	26.69	25.00	23.31	51.00	35.56	37.56	-	17.13	14.44	5.00
365	33.88	29.00	48.88	40.13	33.50	31.50	29.63	27.75	25.88	55.50	38.38	41.13	-	19.06	15.81	5.00
402	37.88	32.00	53.81	44.06	37.00	34.69	32.63	30.56	28.50	60.50	41.56	45.56	-	20.50	17.56	5.00
445	41.25	35.38	59.38	48.56	40.88	38.25	36.00	33.75	31.50	65.69	44.38	50.06	-	22.69	19.25	5.50
490	44.63	39.00	65.69	53.88	44.88	42.19	39.69	37.19	34.69	72.31	48.44	54.88	-	24.44	20.94	5.50
542	50.88	43.06	72.38	59.31	49.75	46.69	43.94	41.19	38.44	78.88	52.31	61.31	59.75	26.56	23.56	6.00
600	55.38	47.69	80.00	65.44	55.00	51.69	48.63	45.56	42.50	86.25	56.56	67.44	65.75	29.75	25.81	6.00
660	62.25	52.44	88.06	72.13	60.38	56.81	53.38	49.94	46.50	94.81	62.00	74.63	72.25	32.19	28.75	7.00
730	67.63	58.00	97.31	79.63	66.94	62.88	59.13	55.38	51.63	104.19	67.69	82.13	79.75	34.88	31.44	7.50
807	73.63	64.19	107.50	87.81	74.00	69.50	65.38	61.25	57.13	113.69	73.00	90.31	87.75	38.88	34.44	8.00
890	80.13	70.00	117.75	96.50	81.56	76.63	72.06	67.50	62.94	125.38	80.75	99.00	96.50	43.19	37.69	8.00
982	89.50	77.75	130.13	106.31	90.06	84.63	79.56	74.50	69.44	140.06	91.75	109.75	106.75	47.88	41.88	8.00

SIZE	KS		M	N	P		Q	SD	
	CL I	CL II			CL I	CL II		CL I	CL II
122	0.25 x 0.13	0.25 x 0.13	6.75	0.63	10.00	10.00	6.44	1.00	1.00
135	0.25 x 0.13	0.25 x 0.13	7.38	0.63	10.56	10.56	7.13	1.00	1.00
150	0.25 x 0.13	0.25 x 0.13	8.25	0.63	11.63	12.00	7.88	1.00	1.19
165	0.25 x 0.13	0.25 x 0.13	8.75	0.88	12.25	12.63	8.69	1.00	1.19
182	0.25 x 0.13	0.38 x 0.19	9.63	0.88	13.81	14.63	9.63	1.19	1.44
200	0.38 x 0.19	0.38 x 0.19	10.63	0.88	15.31	15.31	10.56	1.44	1.44
222	0.38 x 0.19	0.38 x 0.19	11.75	0.88	16.69	16.69	11.75	1.44	1.44
245	0.38 x 0.19	0.38 x 0.19	12.88	0.88	18.06	18.44	12.94	1.44	1.69
270	0.38 x 0.19	0.38 x 0.19	14.13	0.88	19.00	19.38	14.25	1.44	1.69
300	0.38 x 0.19	0.50 x 0.25	15.88	1.13	21.13	21.25	15.81	1.69	1.94
330	0.38 x 0.19	0.50 x 0.25	17.38	1.13	22.25	22.88	17.50	1.69	2.19
365	0.50 x 0.25	0.63 x 0.31	18.88	1.13	23.75	24.63	19.25	1.94	2.44
402	0.50 x 0.25	0.63 x 0.31	20.88	1.38	25.25	26.13	21.25	1.94	2.44
445	0.50 x 0.25	0.63 x 0.31	22.88	1.38	27.44	29.19	23.50	1.94	2.69
490	0.50 x 0.25	0.63 x 0.31	25.38	1.38	30.25	30.88	25.88	2.19	2.69
542	0.63 x 0.31	0.75 x 0.38	27.63	1.88	33.38	33.75	28.63	2.44	2.94
600	0.75 x 0.38	0.88 x 0.44	30.63	1.88	35.50	36.88	31.69	2.94	3.44
660	0.75 x 0.38	1.00 x 0.50	33.13	2.38	39.88	40.81	34.75	2.94	3.94
730	0.88 x 0.44	1.00 x 0.50	37.13	2.38	43.50	44.00	38.50	3.44	3.94
807	1.00 x 0.50	1.00 x 0.50	40.88	2.38	47.63	49.56	42.63	3.94	4.44
890	1.00 x 0.50	1.25 x 0.63	46.38	2.38	50.75	53.44	46.94	3.94	4.94
982	1.25 x 0.63	1.25 x 0.63	53.13	2.88	56.88	57.88	51.81	4.94	5.44

AC9834G  
AC9241F  
AC9257E

DIMENSIONS ARE NOT TO BE USED FOR CONSTRUCTION. CERTIFIED DRAWINGS AVAILABLE UPON REQUEST.

## Arrangement 3, DWDI Non-Rotatable, Class I & II Sizes 122-270



**NOTES:**

1. For optional flanged outlet and downblast discharge, see AC14895.
2. "CW" rotation is shown. "CCW" rotation is similar but opposite.
3. Inlet bearing bar support is removable.
4. Bearing bar supports may extend beyond base angles. See AC1000648 for dimensions if space limitations are required for mounting fan.

## Arrangement 3, DWDI Non-Rotatable, Class I & II

### Sizes 122-270

SIZE	A	B	BA	BH	CE	CF	CG		CJ	CK	CM	DC	DE	DG
							CL I	CL II						
122	13.00	17.44	1.50 x 1.50	0.44	23.19	19.81	26.69	28.63	24.31	22.25	20.75	10.25	11.50	15.00
135	14.31	19.44	1.50 x 1.50	0.44	25.50	21.88	28.69	30.63	26.50	24.50	23.00	11.25	12.75	16.25
150	15.88	21.44	1.50 x 1.50	0.44	28.06	24.32	33.13	33.13	29.38	27.19	25.44	12.25	14.00	18.00
165	17.44	23.56	1.50 x 2.00	0.44	30.88	26.76	35.25	35.62	32.00	29.88	27.88	13.50	15.25	19.50
182	19.38	26.00	1.50 x 2.00	0.44	34.06	29.69	38.13	38.50	35.31	33.13	30.75	14.75	16.75	21.50
200	21.19	28.50	1.50 x 2.00	0.56	37.38	32.62	40.63	42.12	38.69	36.31	33.56	16.25	18.25	23.50
222	23.56	31.63	2.00 x 2.00	0.56	41.50	36.25	44.62	46.88	42.81	40.31	37.69	18.00	20.50	26.00
245	25.94	34.81	2.00 x 2.00	0.56	45.88	40.00	49.62	50.75	46.75	44.38	41.50	20.00	22.50	28.25
270	28.63	38.25	2.00 x 2.00	0.56	50.56	44.13	53.00	54.75	51.44	49.00	45.69	22.00	24.75	31.00

SIZE	G	GA	GB	GC	GD	H	HE	HG	HJ	HN	J		K	KL
											CL I	CL II		
122	19.75	14	14	9.88	18.50	20.50	10.56	9.31	9.25	12.94	11.44	12.38	9.63	3.00
135	21.00	14	14	10.50	19.75	22.50	11.63	10.25	10.25	14.25	12.44	13.38	10.63	3.00
150	22.75	14	14	11.38	21.50	24.50	12.88	11.38	11.44	15.81	14.38	14.38	11.63	3.50
165	24.25	14	14	12.13	24.25	27.63	14.13	12.50	12.63	17.38	15.44	15.56	12.94	3.50
182	26.00	12	14	13.00	26.00	30.00	15.69	13.81	14.00	19.31	16.63	16.75	14.13	4.00
200	28.00	12	14	14.00	28.00	32.50	17.31	15.19	15.31	21.13	17.88	18.56	15.38	4.00
222	31.25	12	14	15.63	31.25	35.63	19.06	16.81	17.19	23.50	19.56	20.63	16.94	4.50
245	33.50	12	14	16.75	33.50	38.88	21.00	18.50	19.00	25.88	21.81	22.31	18.56	5.00
270	36.00	12	14	18.00	36.00	42.25	23.19	20.44	20.94	28.56	23.50	24.31	20.25	5.00

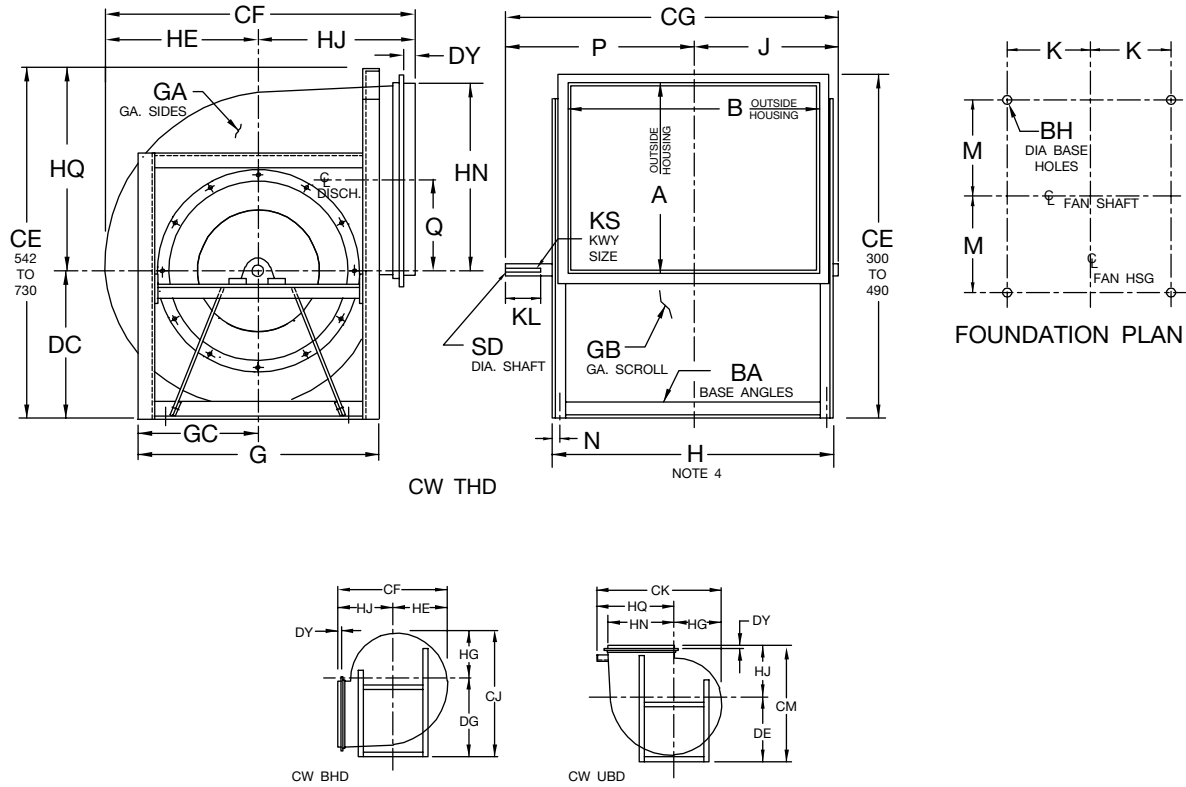
SIZE	KS		M	N	P		Q	SD	
	CL I	CL II			CL I	CL II		CL I	CL II
122	0.25 x 0.13	0.38 x 0.19	6.75	0.63	15.25	16.25	6.44	1.19	1.44
135	0.25 x 0.13	0.38 x 0.19	7.38	0.63	16.25	17.25	7.13	1.19	1.69
150	0.38 x 0.19	0.38 x 0.19	8.25	0.63	18.75	18.75	7.88	1.44	1.69
165	0.38 x 0.19	0.50 x 0.25	8.75	0.88	19.81	20.06	8.69	1.44	1.94
182	0.38 x 0.19	0.50 x 0.25	9.63	0.88	21.50	21.75	9.63	1.69	1.94
200	0.38 x 0.19	0.50 x 0.25	10.63	0.88	22.75	23.56	10.56	1.69	2.19
222	0.50 x 0.25	0.63 x 0.31	11.75	0.88	25.06	26.25	11.75	1.94	2.44
245	0.50 x 0.25	0.63 x 0.31	12.88	0.88	27.81	28.44	12.94	2.19	2.44
270	0.50 x 0.25	0.63 x 0.31	14.13	0.88	29.50	30.44	14.25	2.19	2.69

AC14967D

DIMENSIONS ARE NOT TO BE USED FOR CONSTRUCTION. CERTIFIED DRAWINGS AVAILABLE UPON REQUEST.

## Arrangement 3, DWDI Non-Rotatable, Class I & II

### Sizes 300-730



**NOTES:**

1. For optional flanged outlet and downblast discharge, see AC14896.
2. "CW" rotation is shown. "CCW" rotation is similar but opposite.
3. Inlet bearing bar support is removable.
4. Bearing bar supports may extend beyond base angles. See AC1000648 for dimensions if space limitations are required for mounting fan.



## Arrangement 3, DWDI Non-Rotatable, Class I & II

### Sizes 300-730

SIZE	A	B	BA	BH	CE	CF	CG		CJ	CK	CM	DC	DE	DG
							CL I	CL II						
300	31.81	42.69	2.50 x 2.50	0.56	57.75	49.06	59.13	59.13	57.00	56.00	51.81	24.50	28.50	34.25
330	35.13	46.69	2.50 x 2.50	0.56	63.56	54.13	63.13	63.13	62.25	61.56	56.75	27.00	31.00	37.25
365	38.69	51.81	2.50 x 2.50	0.56	69.63	60.00	68.88	68.88	68.75	67.88	62.00	29.50	33.50	41.00
402	42.63	57.19	3.00 x 3.00	0.81	77.06	66.19	74.13	74.75	76.06	74.62	68.50	33.00	37.00	45.50
445	47.13	63.13	3.00 x 3.00	0.81	84.06	73.13	80.00	80.37	83.75	82.31	74.88	35.50	40.00	50.00
490	51.94	69.44	3.00 x 3.00	0.81	92.88	80.69	88.00	90.57	91.94	91.07	82.50	39.00	44.00	54.75
542	57.38	76.94	3.00 x 4.00	0.81	103.25	89.25	94.75	95.69	101.44	100.94	91.56	43.50	49.00	60.25
600	63.50	85.00	3.00 x 4.00	0.81	113.75	98.88	107.07	108.63	111.81	111.31	101.19	48.00	54.00	66.25
660	69.69	93.69	3.50 x 5.00	0.81	124.75	108.75	115.81	117.44	123.19	122.19	110.94	52.50	59.00	73.25
730	77.25	103.38	3.50 x 5.00	0.81	136.75	120.38	128.00	128.00	136.13	135.13	122.00	57.00	64.50	80.75

SIZE	DY	G	GA	GB	GC	H	HE	HG	HJ	HN	HQ	J		K	KL
												CL I	CL II		
300	1.25	41.00	10	12	20.50	47.75	25.75	22.75	23.31	31.75	-	26.25	26.25	22.75	5.50
330	1.50	44.00	10	12	22.00	51.75	28.38	25.00	25.75	35.06	-	28.25	28.25	24.75	5.50
365	1.50	48.00	10	12	24.00	56.88	31.50	27.75	28.50	38.63	-	31.13	31.13	27.31	5.50
402	1.50	52.50	10	12	26.25	63.25	34.69	30.56	31.50	42.56	-	33.50	33.81	30.25	6.00
445	1.50	56.50	10	12	28.25	69.13	38.25	33.75	34.88	47.06	-	36.44	36.56	33.19	6.00
490	1.50	61.50	10	12	30.75	75.50	42.19	37.19	38.50	51.88	-	39.94	41.13	36.38	7.00
542	1.50	67.00	10	12	33.50	85.00	46.69	41.19	42.56	57.31	59.75	43.75	44.19	40.63	6.00
600	1.50	73.00	10	12	36.50	93.00	51.69	45.56	47.19	63.44	65.75	48.88	49.63	44.63	8.00
660	1.50	80.00	10	12	40.00	103.75	56.81	49.94	51.94	69.63	72.25	53.25	54.06	49.50	8.00
730	1.50	88.00	10	10	44.00	113.38	62.88	55.38	57.50	77.13	79.75	58.81	58.81	54.31	9.00

SIZE	KS		M	N	P		Q	SD	
	CL I	CL II			CL I	CL II		CL I	CL II
300	0.63 x 0.31	0.63 x 0.31	15.88	1.13	32.88	32.88	15.81	2.44	2.44
330	0.63 x 0.31	0.63 x 0.31	17.38	1.13	34.88	34.88	17.50	2.44	2.44
365	0.63 x 0.31	0.63 x 0.31	18.88	1.13	37.75	37.75	19.25	2.69	2.69
402	0.63 x 0.31	0.63 x 0.31	20.88	1.38	40.63	40.94	21.25	2.44	2.69
445	0.63 x 0.31	0.75 x 0.38	22.88	1.38	43.56	43.81	23.50	2.44	2.94
490	0.63 x 0.31	0.88 x 0.44	25.38	1.38	48.06	49.44	25.88	2.69	3.44
542	0.75 x 0.38	0.88 x 0.44	27.63	1.88	51.00	51.50	28.63	2.94	3.44
600	0.88 x 0.44	1.00 x 0.50	30.63	1.88	58.19	59.00	31.69	3.44	3.94
660	0.88 x 0.44	1.00 x 0.50	33.13	2.38	62.56	63.38	34.75	3.44	3.94
730	1.00 x 0.50	1.00 x 0.50	37.13	2.38	69.19	69.19	38.50	3.94	3.94

AC14968F

DIMENSIONS ARE NOT TO BE USED FOR CONSTRUCTION. CERTIFIED DRAWINGS AVAILABLE UPON REQUEST.

## SWSI

Fans shall be Model CAE-SW Airfoil, as manufactured by Aerovent, Minneapolis, Minnesota.

**PERFORMANCE** — Performance ratings shall conform to AMCA Standard 205 (fan efficiency grade), 211 (air performance) and 311 (sound performance). Fans shall be tested in accordance with ANSI/AMCA Standard 210 (air performance) and 300 (sound performance) in an AMCA accredited laboratory. Fans shall be licensed to bear the AMCA certified ratings seal for both sound and air, and fan efficiency grade (FEG).

Fans shall have a sharply rising pressure characteristic extending through the operating range and continuing to rise beyond the peak efficiency to ensure quiet and stable operation. Fans shall have a non-overloading design with self-limiting horsepower characteristics and shall reach a peak in the normal selection area. All fans shall be capable of operating over the minimum pressure class limits as specified in AMCA Standard 99.

**HOUSING** — CAE fan housings shall be of heavy gauge, continuously welded construction. Housings with lock seams or partially welded construction are not acceptable. Discharge flanges are to be provided for rigidity and duct connection. Housings shall be suitably braced to prevent vibration or pulsation. Housings shall have tapered spun, aerodynamically designed inlet cones or shrouds providing stable flow and high rigidity. Class I and II sizes 270 and smaller, excluding Arrangement 3, shall be of the rotatable design, convertible to 8 standard discharge configurations.

**WHEEL** — Wheels shall be of the non-overloading type. Wheels shall have a precision spun, flat inlet cone to allow higher efficiencies over the performance range of the fan. Sizes 245 and smaller shall have airfoil-shaped, extruded aluminum blades. Sizes 270 and larger shall have die-formed airfoil steel blades with the option of extruded aluminum blades. All hollow blade wheels shall be continuously welded around all edges. All wheels shall be statically and dynamically balanced on precision electronic balancers to a Balance Quality Grade G6.3 per ANSI/AMCA 204 or better.

**SHAFT** — Shafts shall be AISI 1040 or 1045 hot rolled steel, accurately turned, ground, polished, and ring gauged for accuracy. Shafts shall be sized for the first critical speed of at least 1.43 times the maximum speed.

**BEARINGS** — Bearings shall be heavy duty, grease lubricated, spherical roller or adapter mounted anti-friction ball, self-aligning, pillow block type and selected for a minimum average bearing life (AFBMA L-50) in excess of 200,000 hours at the maximum fan RPM.

**DRIVE** — Motor sheaves shall be cast iron, variable pitch on applications 10 HP and smaller, and fixed pitch on 15 HP and larger. Drives and belts shall be located external to the fan casing and rated for 150% of the required motor HP.

**FINISH AND COATING** — The entire fan assembly, excluding the shaft, shall be thoroughly degreased and de-burred before application of a rust-preventative primer. After the fan is completely assembled, a finish coat of paint shall be applied to the entire assembly. The fan shaft shall be coated with a petroleum-based rust protectant.

**ACCESSORIES** — When specified, accessories such as belt guards, weather covers, access doors, companion flanges, variable inlet vanes, outlet dampers, inlet boxes, shaft coolers, shaft seals, inlet screens, etc., shall be provided by Aerovent to maintain one source responsibility.

When specified, fans shall be supplied with internal or nested type variable inlet vanes for wheel diameters 16 1/2" and larger. Cantilevered vane blades are to be used through Size 660 to minimize air performance insertion losses and noise. The operating mechanism shall be out of the inlet airstream.

**FACTORY RUN TEST** — All fans prior to shipment shall be completely assembled and test run as a unit at the specified operating speed or maximum RPM allowed for the particular construction type. Each wheel shall be statically and dynamically balanced in accordance with ANSI/AMCA 204 "Balance Quality and Vibration Levels for Fans" to Fan Application Category BV-3, Balance Quality Grade G6.3. Balance readings shall be taken by electronic type equipment in the axial, vertical, and horizontal directions on each of the bearings. Records shall be maintained and a written copy shall be available upon request.

**GUARANTEE** — The manufacturer shall guarantee the workmanship and materials for its CAE airfoil fans for at least one (1) year from startup or eighteen (18) months from shipment, whichever occurs first.

## DWDI

Fans shall be Model CAE-DW Airfoil, as manufactured by Aerovent, Minneapolis, Minnesota.

**PERFORMANCE** — Performance ratings shall conform to AMCA Standard 205 (fan efficiency grade), 211 (air performance) and 311 (sound performance). Fans shall be tested in accordance with ANSI/AMCA Standard 210 (air performance) and 300 (sound performance) in an AMCA accredited laboratory. Fans shall be licensed to bear the AMCA certified ratings seal for both sound and air, and fan efficiency grade (FEG). Sound certification shall apply to both inlet and outlet sound power levels.

Fans shall have a sharply rising pressure characteristic extending through the operating range and continuing to rise beyond the peak efficiency to ensure quiet and stable operation. Fans shall have a non-overloading design with self-limiting horsepower characteristics and shall reach a peak in the normal selection area. All fans shall be capable of operating over the minimum pressure class limits as specified in AMCA Standard 99.

**HOUSING** — CAE fan housings shall be of heavy gauge, continuously welded construction. Housings with lock seams or partially welded construction are not acceptable. Housings shall be suitably braced to prevent vibration or pulsation. Housings shall have spun, aerodynamically designed inlet cones or inlet venturies for smooth airflow into the wheels.

**WHEEL** — Wheels shall have a precision spun, flat inlet cone to allow higher efficiencies over the performance range of the fan. Sizes 245 and smaller shall have airfoil-shaped, extruded aluminum blades. Sizes 270 and larger shall have die-formed airfoil steel blades with the option of extruded aluminum blades. All hollow blade wheels shall be continuously welded around all edges. All wheels shall be statically and dynamically balanced on precision electronic balancers to a Balance Quality Grade G6.3 per ANSI/AMCA 204 or better.

**SHAFT** — Shafts shall be AISI 1040 or 1045 hot rolled steel, accurately turned, ground, polished, and ring gauged for accuracy. Shafts shall be sized for the first critical speed of at least 1.43 times the maximum speed.

**BEARINGS** — Bearings shall be heavy duty, grease lubricated, spherical roller or adapter mounted anti-friction ball, self-aligning, pillow block type and selected for a minimum average bearing life (AFBMA L-50) in excess of 200,000 hours at the maximum fan RPM.

**DRIVE** — Motor sheaves shall be cast iron, variable pitch on applications 10 HP and smaller, and fixed pitch on 15 HP and larger. Drives and belts shall be located external to the fan casing and rated for 150% of the required motor HP.

**FINISH AND COATING** — The entire fan assembly, excluding the shaft, shall be thoroughly degreased and deburred before application of a rust-preventative primer. After the fan is completely assembled, a finish coat of paint shall be applied to the entire assembly. The fan shaft shall be coated with a petroleum-based rust protectant.

**ACCESSORIES** — When specified, accessories such as belt guards, weather covers, access doors, companion flanges, variable inlet vanes, outlet dampers, inlet boxes, shaft coolers, shaft seals, inlet screens, etc., shall be provided by Aerovent to maintain one source responsibility.

When specified, fans shall be supplied with internal or nested type variable inlet vanes for wheel diameters 161/2" and larger. Cantilevered vane blades are to be used through Size 660 to minimize air performance insertion losses and noise. The operating mechanism shall be out of the inlet airstream. Double width fans shall have interconnecting linkage to ensure operation in unison.

**FACTORY RUN TEST** — All fans prior to shipment shall be completely assembled and test run as a unit at the specified operating speed or maximum RPM allowed for the particular construction type. Each wheel shall be statically and dynamically balanced in accordance with ANSI/AMCA 204 "Balance Quality and Vibration Levels for Fans" to Fan Application Category BV-3, Balance Quality Grade G6.3. Balance readings shall be taken by electronic type equipment in the axial, vertical, and horizontal directions on each of the bearings. Records shall be maintained and a written copy shall be available upon request.

**GUARANTEE** — The manufacturer shall guarantee the workmanship and materials for its CAE airfoil fans for at least one (1) year from startup or eighteen (18) months from shipment, whichever occurs first.

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