

Fans & Blowers

Twin City

Turning Air Into Solutions.



BACKWARD CURVED HIGH PRESSURE FANS

MODEL BCS

Centrifugal Fans

Model BCS

Backward Curved - High Pressure

The BCS fan from Twin City Fan & Blower is a high efficiency backward curved industrial fan designed for handling relatively clean air in high pressure applications. Typical applications include combustion air, product cooling, moisture blow-off, forced draft on fluid bed boilers, and induced draft after baghouse process blowers.

Because the BCS features a wider wheel and housing, producing a high volume of air at a lower velocity, the need for an expansion easé is eliminated.

BCS fans are available with a variety of construction options and accessories, offering the versatility and flexibility required in today's industrial applications.

Sizes

16.5" to 89" wheel diameters

Performance

Airflow to 422,500 CFM at 2" w.g.

Static pressure to 40" w.g.

Airstream temperatures to 800°F

Arrangements

1, 3SI, 4, 7SI, 8, 9 and 9F

Drive Configurations

Available in both direct and belt drive configurations.

Construction

- Design 14 — for tip speeds up to 14,000 FPM
- Design 17 — for tip speeds up to 17,000 FPM
- Design 22 — for tip speeds up to 22,000 FPM
- Design 26 — for tip speeds up to 26,000 FPM

Housings

Heavy-gauge, reinforced, continuously welded housings provide strength and durability for extended service life — a necessity in all commercial and industrial installations.

Outlet flanges for duct-connection as well as rigidity are standard. Inlet collars for slip-joint connection and lifting lugs are also standard. 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.

Arrangement 9F

Arrangement 1
with unitary base
and belt guard

Fans & Blowers
Twin City

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BCS Wheel

The BCS wheel features heavy-gauge steel construction and a non-overloading wheel design, suitable for applications requiring large volumes of air at moderate to high pressures.

The high efficiency wheel features backward curved blades of single thickness, continuously welded to the rim and backplate.

A conical spun shroud (rim) makes BCS fans less susceptible to the performance losses associated with poor inlet conditions.

All BCS wheels are statically and dynamically balanced to grade G6.3 per ANSI S2.19 for smooth operation prior to assembly of the fan, followed by a final balance of the entire rotating assembly.

Shaft

Shafts are AISI-1018, 1040 or 1045 hot-rolled steel accurately turned, ground, polished, and ring gauged for accuracy. Shafts are generously sized for first critical speed of at least 1.43 times the maximum speed for the class.

Bearings

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

Rotation and Discharge

Both clockwise and counterclockwise rotations are available in various standard discharge positions. See drawings on pages 28-41.

Temperature Limits

Standard construction designed for temperatures up to 300°F. Optional construction available to handle up to 800°F. See page 7.

Outlet Flange

Punched outlet flange is provided as standard construction on all sizes.

Mechanical Run Test & Final Vibration Check

All fans are assembled for a mechanical run test as well as 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.

Special Materials

BCS fans can be constructed of special materials such as aluminum and stainless steel.



BCS Wheel



Arrangement 1

Optional Construction



Fan with
Split Housing

Split Housing

A flanged horizontal split housing is available on the fan's centerline. A pie-shaped split is also available for wheel removal without disturbing the ductwork.

High Temperature Construction

Airstream temperatures above 300°F require high temperature construction. See page 7 for construction requirements. Insulation pins and complete fan insulation are available.

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. Twin City Fan & Blower offers the following classifications of spark resistant construction per AMCA Standard 99-0401-86. It is the specifier's 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 air or gas being handled shall be made of nonferrous material — usually aluminum and limited to 250°F.

Type B: The fan shall have a nonferrous wheel or impeller and nonferrous ring about the opening through which the shaft passes — usually aluminum wheel and rub ring and limited to 250°F.

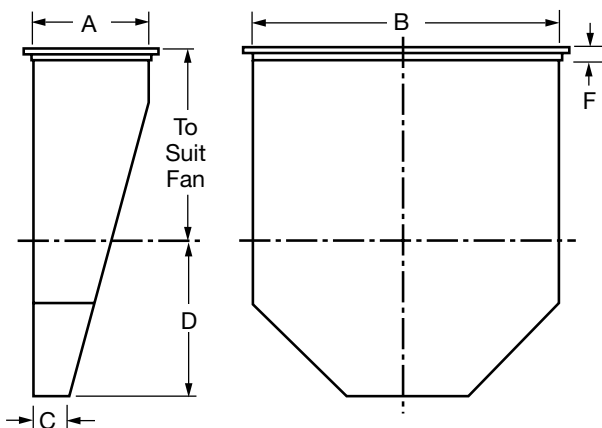
Type C: The fan shall be so constructed that a shift of the wheel or impeller or shaft will not permit two ferrous parts of the fan to rub or strike. This is accomplished with an aluminum inlet cone and rub ring. This construction is limited to 500°F. Construction to 800°F is available using a steel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

Notes:

1. Bearings shall be placed outside the airstream. Therefore, do not use Arrangement 3 or 7.
2. The user shall electrically ground all fan parts.

Refer to AMCA Standard 99-0401-86 for full details.

InletBoxes



Typical Detached Inlet Box Dimensions

FAN SIZE	A	B	C MAX.	D MAX.	INLET AREA (SQ. FT.)	F MAX.
165	9.00	27.25	2.08	11.07	1.70	1.25
182	10.00	30.00	2.13	12.13	2.08	1.50
200	11.00	33.00	2.13	13.13	2.52	1.50
222	12.25	36.75	3.19	14.18	3.13	2.00
245	13.50	40.50	3.19	15.68	3.80	2.00
270	14.75	44.50	3.19	16.69	4.56	2.50
300	16.50	49.50	4.19	18.19	5.67	2.50
330	18.25	54.50	4.25	19.75	6.91	2.50
365	20.00	60.25	4.25	21.75	8.37	2.50
402	22.25	63.50	5.25	23.75	10.28	2.50
445	24.50	73.50	6.25	25.75	12.51	2.50
490	27.00	81.00	6.25	28.25	15.19	2.50
542	30.00	89.50	6.25	31.25	18.65	2.50
600	33.00	99.00	6.25	34.25	22.69	2.50
660	36.50	109.00	6.25	37.25	27.63	2.50
730	40.00	120.50	6.25	40.75	33.47	2.50
807	44.50	134.00	6.25	44.75	41.41	2.50
890	49.00	147.00	6.25	49.25	50.02	2.50

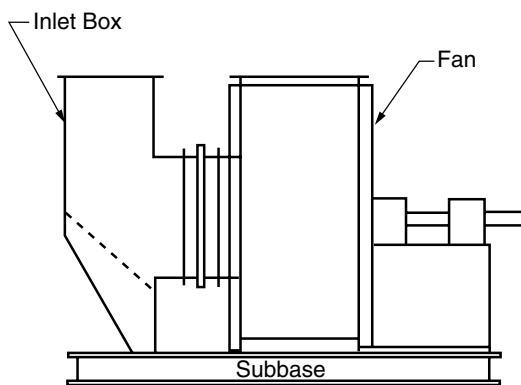
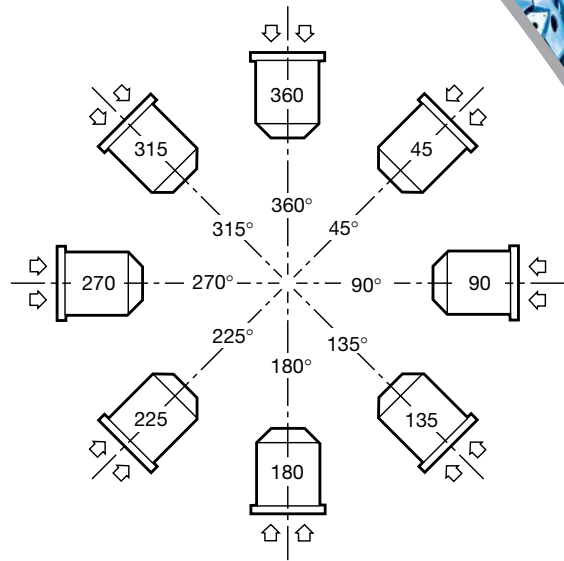
Dimensions are not to be used for construction.
Dimensions are in inches unless otherwise noted.

InletBoxPositions

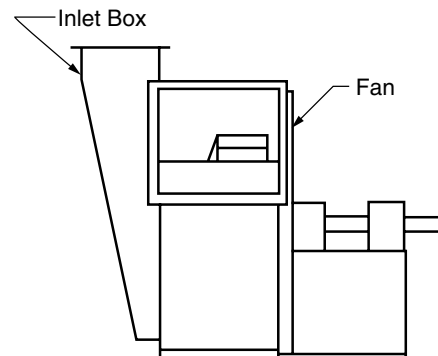
INLET BOX POSITION NO.	POSITION OF INLET BOXES
45	Angular Down Intake
90	Horizontal Right Intake
135	Angular Up Intake
180	Bottom Up Intake
225	Angular Up Intake
270	Horizontal Left Intake
315	Angular Down Intake
360	Top Down Intake

NOTES:

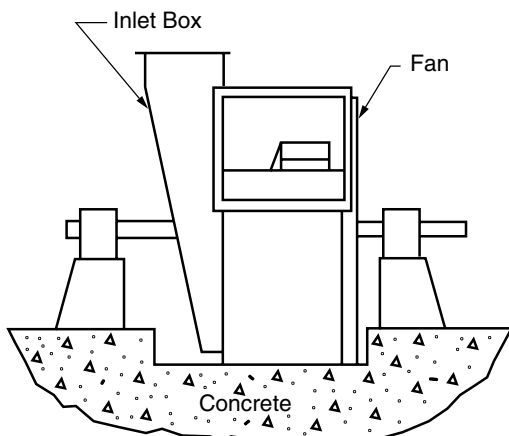
1. Reference line is the top vertical axis through center of fan shaft.
2. Position of inlet box and air entry to inlet box is determined from drive side of fan.
3. Position on inlet box is designated in degrees clockwise from top vertical axis as shown.
4. Positions 135° to 225° in some cases interfere seriously with floor structure.



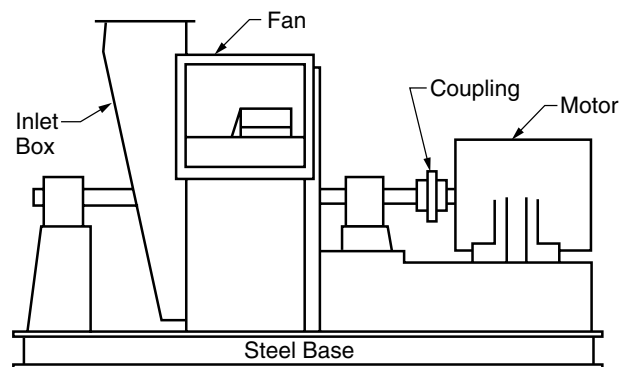
*Arr. 1 Fan With Detached Inlet Box
Can Be Supplied in Arr. 8*



*Arr. 1 Fan With Attached or Integral Inlet Box
Can Be Supplied in Arr. 8*

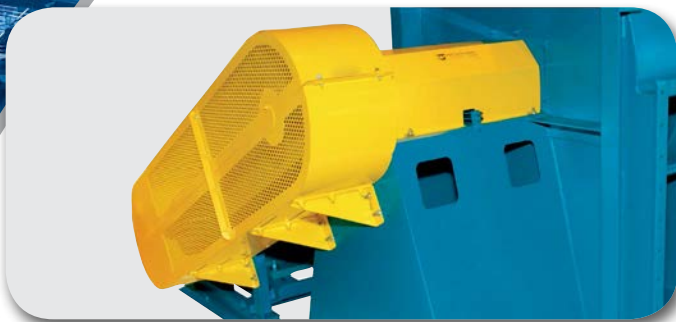


*Arr. 3SI Fan With Integral Inlet Box, Centrally Supported
Wheel, Independent Bearing Pedestal To Be Installed
on Concrete Pedestals*



*Arr. 7SI Fan Similar to Arr. 3SI Except Bearing Pedestal
& Motor Installed On Steel Common Base*

Product Accessories



Belt & Shaft Guard



Quick-Open
Access Door

Bolted
Access Door

Raised Bolted
Access Door



Nested Inlet Vanes



External Inlet Vanes



Safety Screen



Shaft Seal

Inlet Box

An inlet box is designed to minimize pressure drop and is recommended for applications where uniform flow is difficult to obtain due to limited space. Inlet boxes can be designed to be either detachable or integral to the fan.

Inlet Box Damper

The inlet box damper pre-spins the air in the direction of wheel rotation, resulting in a savings in horsepower at reduced loads.

Outlet Dampers

Double surface airfoil blades are available in either parallel or opposed blade design.

Fan Guards

Shaft, bearing, and belt guards are available in OSHA type designs.

Access Door

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

Variable Inlet Vanes

Variable inlet vanes are available to provide economical, stable, and efficient air volume control for manual or motorized operation. Nested inlet vanes are available for Design 17 and are suitable for temperatures to 300°F. External inlet vanes are available for Design 22 and 26 and are suitable for temperatures to 300°F. Construction to 600°F is available for both.

Shaft Seals

A variety of shaft seals are available to prevent contaminants in the airstream from passing through the shaft hole in the fan housing. The shaft seal is provided as standard on all fans with applications over 300°F and fans with split housings. Although shaft seals minimize air leakage, they are not a gas-tight design.

Drain

All fans are constructed with a weep hole in the bottom of the housing. A threaded pipe coupling is welded to the lowest point in the housing scroll to permit wash water or condensation to drain from the fan.

Flanged Inlet

A punched inlet flange is available for duct mounting.

Temperature and Vibration Detectors

Thermocouples or RTDs are available to install on the bearings. A variety of vibration switches are available.

Vibration Isolation Bases

Structural angle, structural channel, inertia bases, and unitary bases are available with or without spring isolators.

Screens

Safety screens are available for mounting in the fan inlet or outlet in nonducted applications.

AIRSTREAM TEMPERATURE (°F)	WHEEL MATERIAL STANDARD STEEL	
	DES. 17	DES. 14, 22, 26
70	1.00	1.00
200	0.99	0.97
250	0.98	0.96
300	0.98	0.95
350	0.97	0.94
400	0.96	0.93
450	0.94	0.92
500	0.93	0.92
550	0.92	0.91
600	0.90	0.90
650	0.89	0.89
700	0.88	0.87
750	0.87	0.86
800	0.84	0.84
Above 800	Consult Factory	



High Temperature Derating Factors

When elevated temperatures are encountered, maximum RPM allowable must be derated according to the above table. For stainless steel derates, contact the factory.

TEMPERATURE (°F)	TYPE OF BEARING	LUBRICATION	OTHER REQUIREMENTS	AVAILABLE ARRANGEMENTS
-22° to 300°	Ball or Roller	Grease	Standard Fan	1, 8, 9, 9F
301° to 500°	Ball or Roller	High Temp. Grease	Shaft Cooler, Shaft Seal Expansion & Non-Expansion Bearings	1, 8, 9, 9F
501° to 600°	Ball or Roller	High Temp. Grease	Same as 301° to 500° With Additional of High Temp Aluminum Paint	1, 8, 9, 9F
601° to 800°	Ball or Roller	High Temp. Grease	Same as 501° to 600° With Modification of Bearing Pedestal	1, 8, 9F

High Temperature Construction Requirements

The BCS product line is perfectly suited for high temperature airstream applications. The above chart refers to fans of carbon steel construction. When aluminum (spark resistant) or stainless steel construction is required, additional fan modifications may be required. Contact factory in these cases.

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). Thus, when specified performance is at a density different

than standard, it must be converted to the equivalent standard conditions before entering the performance tables. The equivalent standard conditions can be calculated by using the Temperature and Altitude Density Ratios shown 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	15000
	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 & WR²

FAN SIZE	DESIGN 14			DESIGN 17			DESIGN 22			DESIGN 26		
	MAX. RPM	WEIGHT (LB)	WR ² (LB-FT ²)	MAX. RPM	WEIGHT (LB)	WR ² (LB-FT ²)	MAX. RPM	WEIGHT (LB)	WR ² (LB-FT ²)	MAX. RPM	WEIGHT (LB)	WR ² (LB-FT ²)
165	3241	31	8	4399 *	42	12	—	—	—	—	—	—
182	2931	41	12	3977	70	21	—	—	—	—	—	—
200	2674	53	20	3629	86	32	—	—	—	—	—	—
222	2404	82	35	3262	116	52	3777	126	59	—	—	—
245	2183	97	53	2963	140	75	3560	153	85	—	—	—
270	—	—	—	2688	149	100	3112	162	112	3300	167	146
300	—	—	—	2419	161	129	2801	173	146	3300	194	170
330	—	—	—	2199	201	199	2546	207	214	3009	229	242
365	1467	224	291	1988	237	295	2302	294	391	2720	273	360
402	1329	265	427	1803	317	511	2088	349	595	2467	344	561
445	1202	412	781	1631	456	804	1888	492	898	2231	493	895
490	1092	481	1136	1481	613	1399	1780	686	1636	2027	702	1669
542	986	627	1792	1338	841	2387	1549	898	2642	1831	920	2673
600	892	746	2667	1082	949	3322	1401	983	3479	1655	1319	4859
660	810	1026	4053	984	1387	5704	1273	1309	5276	1504	1597	6829
730	735	1204	5980	890	1693	8759	1180	1548	7775	1360	2028	10773
807	663	1492	9358	804	2014	12992	1041	1992	12522	1230	2611	17107
890	602	1974	14185	730	2392	19054	944	2779	22036	1116	3835	30972

* Maximum operating speed is limited to 4000 RPM. RPM listed above 4000 is for derating due to elevated temperatures.

Shaft & Bearings Data

FAN SIZE	DESIGN BCS	ARRANGEMENT 1, 9 & 9F			ARRANGEMENT 8	
		MAX. MTR. HP	SHAFT DIA.	BRGS.	SHAFT DIA.	BRGS.
165	14	10	1.188	SDB	1.4375	HDB-C
	17	15	1.688	HDB	1.6875	HDB-C
182	14	10	1.438	HDB	1.4375	HDB-C
	17	25	1.688	RB-C	1.9375*	HDB-C*
200	14	15	1.438	HDB	1.6875	HDB-C
	17	30	1.938	RB-C	2.1875	HDB-C
222	14	15	1.688	HDB	1.6875	HDB-C
	17	40	1.938	RB-C	2.4375	HDB-C
	22	60	2.438	RB-C	2.9375*	HSDB*
245	14	20	1.938	HDB	1.6875	HDB-C
	17	50	2.188	RB-C	2.6875	RB
	22	75	2.438	RB-C	2.9375*	HSDB*
270	14	25	1.938	HDB	1.9375	HDB
	17	75	2.188	RB-C	2.4375	HDB-C
	22	100	2.438	RB-C	2.9375*	HSDB*
	26	125	2.938	SRB	2.9375*	RB*
300	14	30	2.188	HDB	1.9375	HDB
	17	100	2.438	RB-C	2.6875	RB
	22	125	2.688	RB-C	2.9375	RB
	26	150	2.938	SRB	3.4375*	HSDB*
330	14	40	2.188	HSB	2.1875	HDB
	17	100	2.438	RB-C	2.6875	RB
	22	150	2.938	RB-C	2.9375*	RB-C*
	26	150	2.938	SRB	3.4375*	RB*
365	14	50	2.438	HDB	2.1875	HDB
	17	125	2.688	RB-C	2.6875	RB
	22	150	2.938	RB-C	3.4375	RB
	26	250	3.438	SRB	3.4375*	RB*
402	14	60	2.438	RB	2.1875	HDB
	17	150	2.938	RB-C	2.9375	RB
	22	200	3.438	RB-C	3.4375	RB
	26	350	3.938	SRB	3.4375*	HSDB*

FAN SIZE	DESIGN BCS	ARRANGEMENT 1, 9 & 9F			ARRANGEMENT 8	
		MAX. MTR. HP	SHAFT DIA.	BRGS.	SHAFT DIA.	BRGS.
445	14	75	2.688	RB	2.4375	RB
	17	200	3.438	RB-C	3.4375	RB
	22	300	3.938	RB-C	3.9375	RB
	26	350	3.938	SRB	3.4375*	RB*
490	14	100	2.938	RB	2.4375	RB
	17	250	3.938	RB-C	3.4375	RB
	22	350	3.938	RB-C	3.9375*	RB*
	26	400	4.438	SRB	3.9375*	RB*
542	14	125	3.438	RB	2.6875	RB
	17	300	3.938	RB-C	3.9375	RB
	22	400	4.438	RB-C	3.9375	RB
	26	500	4.938	SRB	3.9375*	RB*
600	14	125	3.438	RB	2.6875	RB
	17	250	3.938	RB-C	3.4375	RB
	22	500	4.938	SRB	3.9375	RB
	26	500	4.938	SRB	4.4375*	RB*
660	14	150	3.938	RB	3.4375	RB
	17	300	3.938	RB-C	3.9375	RB
	22	500	4.938	SRB	4.4375*	RB*
	26	500	4.938	SRB	4.9375*	SRB*
730	14	200	3.938	RB	3.9375	RB
	17	350	4.438	RB-C	4.4375*	RB*
	22	500	4.938	SRB	4.9375*	RB*
	26	500	5.438	SRB	5.9375*	SRB*
807	14	250	4.438	SRB	3.9375	RB
	17	450	4.938	SRB	4.4375*	RB*
	22	500	4.938	SRB	5.4375*	SRB*
	26	500	5.438	SRB	5.9375*	SRB*
890	14	300	4.938	SRB	4.4375*	RB*
	17	500	4.938	SRB	4.9375*	RB*
	22	500	4.938	SRB	5.4375*	SRB*
	26	500	6.938	SRB	5.9375*	SRB*

* Denotes bearing selections that may not be suitable for all applications. Consult Twin City Fan for application suitability.

BEARING CODES:

SDB = Standard Duty Ball Bearing

HDB = Heavy Duty Ball Bearing

RB = Roller Bearing

RB-C = Concentric Roller Bearing

SRB = Roller Bearing with Split Pillow Block Housing

HSRB = High-Speed Roller Bearing with Split Pillow Block Housing

Bare Fan Weights (lb)

FAN SIZE	DESIGN 14					DESIGN 17				
	ARR. 1	ARR. 4	ARR. 8	ARR. 9	ARR. 9F	ARR. 1	ARR. 4	ARR. 8	ARR. 9	ARR. 9F
165	270	206	305	320	—	330	245	344	420	—
182	320	265	361	380	—	390	320	431	500	—
200	350	311	404	410	—	460	375	588	590	—
222	460	402	523	500	—	560	483	628	680	—
245	530	496	645	580	—	710	677	880	840	—
270	610	585	761	690	—	810	—	1022	970	865
300	810	703	914	830	—	1040	—	1277	1190	1080
330	990	—	1128	1050	—	1210	—	1547	1450	1309
365	1090	—	1413	1144	1197	1430	—	1858	1501	1573
402	1406	—	1825	1476	1546	1810	—	2353	1901	1991
445	1660	—	2152	1742	1824	2219	—	2885	2330	2441
490	1940	—	2514	2035	2131	2811	—	3655	2952	3093
542	2847	—	3675	2985	3123	3708	—	4821	3894	4079
600	3341	—	4312	3503	3665	4460	—	5798	4683	4906
660	4255	—	5517	4466	4676	5538	—	7199	5815	6091
730	5195	—	6735	5452	5709	7001	—	9101	7351	7701
807	5264	—	6835	5526	—	8739	—	11361	9176	9613
890	7262	—	9421	7622	—	10334	—	13434	10851	11367

FAN SIZE	DESIGN 22				DESIGN 26	
	ARR. 1	ARR. 8	ARR. 9	ARR. 9F	ARR. 1	ARR. 8
165	—	—	—	—	—	—
182	—	—	—	—	—	—
200	—	—	—	—	—	—
222	700	922	890	893	—	—
245	770	1113	940	943	—	—
270	970	1411	1190	1194	1282	1667
300	1170	1463	1370	1238	1523	1980
330	1590	1976	1890	1672	1943	2526
365	1889	2456	1983	2078	2340	3042
402	2386	3101	2505	2624	3035	3945
445	3122	4059	3278	3434	3720	4835
490	3730	4849	3917	4103	4569	5940
542	4752	6178	4990	5227	5635	7326
600	5676	7379	5960	6244	6765	8795
660	6864	8923	7207	7551	7930	10308
730	8099	10528	8504	8908	9603	12484
807	10134	13174	10641	11147	11878	15441
890	12366	16075	12984	13602	15110	19643



Max. RPM	Design 14 3241	Design 17 4399	Design 22 NA	Design 26 NA
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165 BCSOutlet Area: 1.57 ft²

Wheel Diameter.: 16.50"

Tip Speed (FPM): 4.32 x RPM

CFM	OV	0.5" 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
1000	637	<u>774</u>	<u>0.12</u>	1031	0.26														
1200	764	827	0.14	1051	0.28														
1400	892	885	0.17	<u>1091</u>	<u>0.32</u>	1276	0.50	1457	0.72										
1600	1019	947	0.21	1141	0.37	<u>1311</u>	<u>0.55</u>	1471	0.76	1630	1.02								
1800	1146	1017	0.25	1199	0.43	<u>1355</u>	<u>0.62</u>	<u>1503</u>	<u>0.83</u>	1646	1.07	1787	1.34						
2000	1274	1094	0.31	1258	0.50	1409	0.71	<u>1546</u>	<u>0.92</u>	<u>1678</u>	<u>1.16</u>	1806	1.41	1933	1.71	2060	2.05		
2200	1401	1173	0.38	1319	0.57	1466	0.79	1596	1.02	<u>1720</u>	<u>1.27</u>	<u>1840</u>	<u>1.53</u>	1956	1.80	2071	2.11	2187	2.47
2400	1529	1254	0.45	1386	0.65	1525	0.89	1652	1.14	<u>1768</u>	<u>1.39</u>	<u>1881</u>	<u>1.66</u>	<u>1991</u>	<u>1.94</u>	2098	2.24	2204	2.56
2600	1656	1336	0.54	1459	0.75	1585	0.99	1710	1.26	1823	1.53	<u>1929</u>	<u>1.80</u>	<u>2033</u>	<u>2.09</u>	<u>2135</u>	<u>2.40</u>	2234	2.71
2800	1783	1418	0.63	1535	0.86	1649	1.11	1769	1.39	1880	1.68	1983	1.97	<u>2081</u>	<u>2.26</u>	<u>2178</u>	<u>2.58</u>	<u>2272</u>	<u>2.90</u>
3000	1911	1502	0.74	1613	0.99	1718	1.24	1829	1.53	1939	1.84	2040	2.14	2134	2.45	<u>2226</u>	<u>2.77</u>	<u>2316</u>	<u>3.11</u>
3200	2038	1587	0.86	1694	1.13	1792	1.39	1893	1.68	1998	2.00	2098	2.33	2191	2.66	2279	2.99	<u>2365</u>	<u>3.33</u>
3400	2166	1672	1.00	1775	1.28	1868	1.55	1961	1.85	2059	2.18	2157	2.52	2249	2.87	2335	3.22	2418	3.57
3600	2293	1758	1.15	1857	1.45	1946	1.74	2033	2.04	2123	2.37	2216	2.72	2307	3.09	2393	3.46	2474	3.83
3800	2420	1844	1.31	1939	1.63	2026	1.94	2108	2.25	2191	2.58	2278	2.94	2366	3.32	2452	3.72	2532	4.10
4000	2548	1931	1.49	2022	1.83	2106	2.16	2185	2.48	2263	2.82	2344	3.18	2427	3.57	2511	3.98	2591	4.39

CFM	OV	5" SP		5.5" SP		6" SP		6.5" SP		7" SP		7.5" SP		8" SP		8.5" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2600	1656	2332	3.05	2429	3.42	2528	3.83	2625	4.26	2721	4.71								
2800	1783	2365	3.24	2456	3.59	2547	3.97	2637	4.37	2729	4.81	2819	5.28	2908	5.76				
3000	1911	<u>2405</u>	<u>3.45</u>	2492	3.80	2578	4.17	2662	4.56	2747	4.97	2831	5.41	2916	5.88	3001	6.38	3084	6.89
3200	2038	<u>2450</u>	<u>3.68</u>	<u>2533</u>	<u>4.04</u>	<u>2615</u>	<u>4.42</u>	2696	4.80	2776	5.20	2855	5.62	2934	6.06	3013	6.52	3093	7.03
3400	2166	2499	3.93	2579	4.30	<u>2658</u>	<u>4.69</u>	<u>2736</u>	<u>5.08</u>	<u>2812</u>	<u>5.48</u>	2888	5.89	2963	6.32	3037	6.76	3112	7.23
3600	2293	2553	4.20	2629	4.58	<u>2705</u>	<u>4.97</u>	<u>2780</u>	<u>5.38</u>	<u>2854</u>	<u>5.79</u>	<u>2926</u>	<u>6.20</u>	<u>2998</u>	<u>6.63</u>	3070	7.07	3140	7.52
3800	2420	2609	4.49	2683	4.88	2756	5.28	<u>2827</u>	<u>5.69</u>	<u>2899</u>	<u>6.11</u>	<u>2969</u>	<u>6.54</u>	<u>3039</u>	<u>6.98</u>	<u>3107</u>	<u>7.42</u>	<u>3175</u>	<u>7.87</u>
4000	2548	2667	4.80	2740	5.21	2810	5.61	2880	6.03	2948	6.46	<u>3015</u>	<u>6.89</u>	<u>3083</u>	<u>7.34</u>	<u>3149</u>	<u>7.79</u>	<u>3215</u>	<u>8.26</u>
4200	2675	2725	5.11	2798	5.54	2867	5.97	2935	6.40	3001	6.83	3066	7.27	<u>3130</u>	<u>7.72</u>	<u>3195</u>	<u>8.19</u>	<u>3258</u>	<u>8.66</u>
4400	2803	2784	5.43	2856	5.88	2925	6.33	2992	6.78	3056	7.23	3120	7.69	3182	8.14	<u>3244</u>	<u>8.61</u>	<u>3305</u>	<u>9.09</u>
4600	2930	2843	5.76	2915	6.24	2984	6.71	3050	7.18	3113	7.64	3175	8.11	3236	8.58	3296	9.06	3355	9.54
4800	3057	2904	6.12	2974	6.60	3042	7.09	3108	7.59	3172	8.08	3233	8.56	<u>3293</u>	<u>9.05</u>	3351	9.54	3409	10.04
5000	3185	2968	6.50	3035	6.99	3101	7.49	3166	8.00	<u>3230</u>	<u>8.52</u>	3291	9.03	3350	9.53	3408	10.04	3465	10.55
5200	3312	3034	6.90	3097	7.39	3162	7.91	3225	8.43	<u>3288</u>	<u>8.96</u>	3349	9.50	3409	10.03	3466	10.56	3522	11.09
5400	3439	3103	7.33	3163	7.83	<u>3224</u>	<u>8.35</u>	<u>3286</u>	<u>8.89</u>	3347	9.43	3408	9.98	3467	10.54	3524	11.09	3580	11.64
5600	3567	3174	7.80	3231	8.30	<u>3289</u>	<u>8.82</u>	<u>3348</u>	<u>9.36</u>	3408	9.92	3467	10.48	3525	11.05	3582	11.62	3638	12.20

CFM	OV	9.5" SP		10" SP		10.5" SP		11" SP		11.5" SP		12" SP		13" SP		14" SP		15" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3600	2293	3211	8.00	3281	8.49	3351	9.01	3421	9.55	3492	10.12	3562	10.70	3702	11.94				
3800	2420	<u>3243</u>	<u>8.34</u>	3310	8.82	3376	9.31	3442	9.82	3509	10.37	3575	10.92	3709	12.12	3842	13.40	3972	14.72
4000	2548	3280	8.72	3344	9.20	3408	9.69	3472	10.20	3535	10.71	3598	11.25	3724	12.38	3851	13.61	3977	14.91
4200	2675	<u>3321</u>	<u>9.14</u>	<u>3384</u>	<u>9.63</u>	3446	10.12	3507	10.62	3568	11.13	3628	11.65	3748	12.75	3868	13.91	3988	15.16
4400	2803	<u>3366</u>	<u>9.58</u>	<u>3427</u>	<u>10.08</u>	<u>3487</u>	<u>10.58</u>	<u>3546</u>	<u>11.08</u>	<u>3605</u>	<u>11.60</u>	3664	12.13	3779	13.20	3894	14.33		
4600	2930	3414	10.04	<u>3473</u>	<u>10.55</u>	<u>3531</u>	<u>11.06</u>	<u>3589</u>	<u>11.58</u>	<u>3646</u>	<u>12.10</u>	<u>3703</u>	<u>12.63</u>	<u>3815</u>	<u>13.71</u>	3926	14.83		
4800	3057	3466	10.54	3522	11.04	3579	11.57	<u>3635</u>	<u>12.09</u>	<u>3690</u>	<u>12.62</u>	<u>3746</u>	<u>13.17</u>	<u>3855</u>	<u>14.27</u>	<u>3962</u>	<u>15.39</u>		
5000	3185	3520	11.06	3575	11.58	3630	12.11	3684	12.64	<u>3737</u>	<u>13.17</u>	<u>3791</u>	<u>13.72</u>	<u>3898</u>	<u>14.85</u>				
5200	3312	3576	11.61	3630	12.14	3683	12.67	3736	13.22	3788	13.76	3840	14.32	<u>3943</u>	<u>15.45</u>				
5400	3439	3634	12.18	3687	12.73	3739	13.27	3790	13.82	3841	14.38	3891	14.94	<u>3991</u>	<u>16.08</u>				
5600	3567	3692	12.77	3744	13.33	3796	13.90	3846	14.46	3896	15.03	3945	15.59						
5800	3694	3750	13.36	3802	13.94	3854	14.54	3904	15.12	3953	15.70								
6000	3822	3808	13.96	3861	14.58	3912	15.19	<u>3961</u>	<u>15.79</u>										
6200	3949	3867	14.59	3919	15.22	3970	15.85												
6400	4076	3926	15.22	<u>3977</u>	<u>15.87</u>														
6600	4204	3987	15.89																

Underlined numbers indicate maximum static efficiency.

Performance is for BCS with outlet duct and with or without inlet duct.

BHP is a fan shaft brake horsepower and does not include belt drive losses.

Max. RPM	Design 14 2931	Design 17 3977	Design 22 NA	Design 26 NA
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182 BCSOutlet Area: 1.92 ft²

Wheel Diameter.: 18.25"

Tip Speed (FPM): 4.78 x RPM

CFM	OV	0.5" 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
1200	625	696	0.14																
1450	755	744	0.17	948	0.34														
1700	885	798	0.21	<u>984</u>	<u>0.39</u>	1152	0.60												
1950	1016	855	0.26	1030	0.46	<u>1184</u>	<u>0.68</u>	1329	0.93	1474	1.24								
2200	1146	919	0.31	1083	0.53	<u>1225</u>	<u>0.76</u>	<u>1359</u>	<u>1.02</u>	1488	1.30	1616	1.64						
2450	1276	990	0.38	1138	0.61	1274	0.86	<u>1398</u>	<u>1.13</u>	<u>1518</u>	<u>1.42</u>	1633	1.73	1748	2.09	1863	2.51		
2700	1406	1063	0.46	1195	0.70	1328	0.98	1445	1.26	<u>1556</u>	<u>1.55</u>	<u>1664</u>	<u>1.87</u>	1769	2.21	1873	2.59	1978	3.02
2950	1536	1138	0.56	1257	0.80	<u>1382</u>	<u>1.10</u>	1497	1.40	1601	1.71	<u>1703</u>	<u>2.04</u>	<u>1802</u>	<u>2.38</u>	1899	2.75	1994	3.14
3200	1667	1213	0.66	1324	0.93	1438	1.23	1550	1.55	1652	1.88	<u>1748</u>	<u>2.22</u>	<u>1842</u>	<u>2.58</u>	<u>1933</u>	<u>2.95</u>	2022	3.34
3450	1797	1290	0.79	1395	1.07	1497	1.37	1605	1.72	1705	2.07	1798	2.43	<u>1886</u>	<u>2.79</u>	<u>1973</u>	<u>3.18</u>	<u>2058</u>	<u>3.57</u>
3700	1927	1367	0.92	1468	1.23	1561	1.53	1661	1.89	1759	2.27	1850	2.65	1936	3.03	<u>2018</u>	<u>3.42</u>	<u>2099</u>	<u>3.83</u>
3950	2057	1446	1.08	1542	1.40	1630	1.73	1720	2.08	1814	2.48	1904	2.88	1988	3.29	2068	3.70	<u>2145</u>	<u>4.11</u>
4200	2188	1525	1.25	1617	1.60	1700	1.94	1783	2.30	1871	2.70	1959	3.13	2042	3.56	2120	3.99	2195	4.42
4450	2318	1604	1.44	1692	1.81	1773	2.17	1850	2.54	1931	2.94	2014	3.38	2096	3.84	2174	4.30	2247	4.75
4700	2448	1684	1.65	1769	2.04	1846	2.42	1920	2.81	1994	3.21	2072	3.66	2151	4.13	2228	4.61	2301	5.10
4950	2578	1764	1.88	1846	2.30	1921	2.70	1992	3.10	2061	3.51	2133	3.96	2208	4.44	2282	4.94	2355	5.45

CFM	OV	5" SP		5.5" SP		6" SP		6.5" SP		7" SP		7.5" SP		8" SP		8.5" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3450	1797	2142	3.99	2224	4.42	2305	4.87	2386	5.36	2468	5.90	2550	6.47	2630	7.06				
3700	1927	<u>2179</u>	<u>4.25</u>	<u>2257</u>	<u>4.69</u>	2334	5.14	2411	5.61	2486	6.11	2562	6.64	2638	7.21	2714	7.82	2789	8.45
3950	2057	<u>2221</u>	<u>4.55</u>	<u>2296</u>	<u>4.99</u>	<u>2370</u>	<u>5.45</u>	2442	5.92	2514	6.41	2585	6.91	2656	7.45	2727	8.02	2798	8.62
4200	2188	<u>2267</u>	<u>4.86</u>	<u>2339</u>	<u>5.32</u>	<u>2410</u>	<u>5.79</u>	<u>2480</u>	<u>6.27</u>	<u>2549</u>	<u>6.77</u>	2616	7.26	2684	7.79	2751	8.34	2817	8.90
4450	2318	2317	5.20	2386	5.67	2454	6.15	<u>2521</u>	<u>6.65</u>	<u>2587</u>	<u>7.15</u>	<u>2653</u>	<u>7.67</u>	<u>2717</u>	<u>8.18</u>	2781	8.72	2845	9.28
4700	2448	2370	5.57	2436	6.05	2502	6.55	2566	7.05	<u>2630</u>	<u>7.56</u>	<u>2693</u>	<u>8.09</u>	<u>2755</u>	<u>8.62</u>	<u>2817</u>	<u>9.17</u>	<u>2878</u>	<u>9.73</u>
4950	2578	2423	5.95	2489	6.46	2553	6.97	2615	7.48	2676	8.00	<u>2736</u>	<u>8.53</u>	<u>2797</u>	<u>9.09</u>	<u>2857</u>	<u>9.65</u>	<u>2916</u>	<u>10.22</u>
5200	2708	2477	6.35	2543	6.88	2605	7.41	2666	7.94	2725	8.47	2784	9.02	<u>2842</u>	<u>9.58</u>	<u>2899</u>	<u>10.14</u>	<u>2956</u>	<u>10.72</u>
5450	2839	2532	6.76	2597	7.32	2659	7.87	2719	8.43	2777	8.98	2834	9.54	2890	10.11	2945	10.68	<u>3000</u>	<u>11.27</u>
5700	2969	2587	7.18	2651	7.76	2713	8.35	2773	8.93	2830	9.50	2886	10.08	2941	10.67	2995	11.26	3048	11.86
5950	3099	2644	7.63	2706	8.23	2767	8.83	2827	9.45	2884	10.05	2940	10.66	2993	11.25	3046	11.86	3098	12.47
6200	3229	2703	8.11	2763	8.72	2822	9.34	2881	9.97	<u>2938</u>	<u>10.60</u>	2993	11.23	3047	11.87	3099	12.50	3150	13.13
6450	3359	2765	8.62	2822	9.24	2879	9.87	2936	10.52	2992	11.17	3047	11.83	3101	12.50	3152	13.14	3203	13.80
6700	3490	2830	9.19	2883	9.80	2937	10.43	2992	11.09	3047	11.76	3101	12.44	3155	13.13	3206	13.81	3257	14.50
6950	3620	2896	9.78	2947	10.40	2998	11.03	3051	11.70	3103	12.37	3156	13.07	3209	13.78	3260	14.49	3310	15.20
7200	3750	<u>2965</u>	<u>10.43</u>	3013	11.04	3061	11.67	3111	12.34	3162	13.03	3213	13.74	3264	14.46	3314	15.18	3364	15.92

CFM	OV	9.5" SP		10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5700	2969	3100	12.45	3153	13.08	3257	14.35	3359	15.64	3460	16.98	3559	18.34	3657	19.76	3755	21.26	3852	22.82
5950	3099	3149	13.09	3200	13.72	3300	15.00	3399	16.32	<u>3497</u>	<u>17.67</u>	3594	19.06	3689	20.48	3783	21.94	3877	23.48
6200	3229	3200	13.76	3249	14.39	3346	15.69	3442	17.03	3538	18.42	<u>3631</u>	<u>19.81</u>	<u>3724</u>	<u>21.25</u>	3815	22.71	3906	24.23
6450	3359	3252	14.45	3300	15.10	3395	16.43	3488	17.78	3580	19.17	<u>3672</u>	<u>20.62</u>	<u>3762</u>	<u>22.07</u>	<u>3851</u>	<u>23.55</u>	3939	25.06
6700	3490	3305	15.17	3353	15.85	3446	17.21	3537	18.59	3626	19.99	3715	21.44	<u>3803</u>	<u>22.93</u>	<u>3890</u>	<u>24.44</u>	<u>3975</u>	<u>25.96</u>
6950	3620	3359	15.91	3406	16.60	3498	18.01	3587	19.42	3675	20.86	3760	22.30	<u>3846</u>	<u>23.81</u>	<u>3930</u>	<u>25.34</u>		
7200	3750	3413	16.66	3460	17.39	3552	18.85	3639	20.29	3725	21.76	3809	23.24	3891	24.74	<u>3974</u>	<u>26.30</u>		
7450	3880	3467	17.43	3514	18.18	3605	19.69	3692	21.19	3777	22.70	3859	24.21	3940	25.74				
7700	4010	3521	18.21	3568	18.99	3659	20.56	3746	22.12	3829	23.65	3910	25.20						
7950	4141	3577	19.03	3622	19.82	3713	21.44	3800	23.06	3883	24.66	3963	26.25						
8200	4271	3634	19.88	3678	20.69	3767	22.34	3853	24.00	3936	25.66								
8450	4401	3692	20.77	3735	21.59	3822	23.27	3907	24.97										
8700	4531	3753	21.72	3794	22.54	3878	24.24	<u>3961</u>	<u>25.96</u>										
8950	4661	3815	22.71	3855	23.54	3936	25.25												
9200	4792	3879	23.76	<u>3917</u>	<u>24.59</u>														
9450	4922	3945	24.88																

Underlined numbers indicate maximum static efficiency.
Performance is for BCS with outlet duct and with or without inlet duct.
BHP is a fan shaft brake horsepower and does not include belt drive losses.

Max. RPM	Design 14 2674	Design 17 3629	Design 22 NA	Design 26 NA
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200 BCSOutlet Area: 2.30 ft²

Wheel Diameter.: 20.00"

Tip Speed (FPM): 5.24 x RPM

CFM	OV	0.5" 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
1500	652	642	0.17	851	0.38														
1800	783	688	0.21	870	0.42	1042	0.69												
2100	913	738	0.26	905	0.48	1056	0.74	1203	1.07										
2400	1043	791	0.32	949	0.56	1087	0.83	1217	1.13	1346	1.50								
2700	1174	851	0.39	998	0.66	1126	0.94	1246	1.25	1362	1.59	1476	1.99						
3000	1304	916	0.48	1048	0.75	1172	1.06	1284	1.39	1391	1.73	1495	2.11	1598	2.54	1701	3.03		
3300	1435	983	0.58	1100	0.86	1221	1.20	1327	1.54	1428	1.90	1525	2.28	1620	2.69	1713	3.14	1807	3.65
3600	1565	1051	0.69	1158	0.99	1270	1.34	1375	1.72	1470	2.09	1562	2.49	1651	2.90	1738	3.34	1824	3.82
3900	1696	1120	0.82	1220	1.14	1322	1.50	1424	1.90	1517	2.31	1603	2.71	1688	3.14	1770	3.59	1851	4.06
4200	1826	1190	0.97	1285	1.32	1377	1.68	1474	2.10	1565	2.53	1649	2.96	1729	3.40	1808	3.87	1885	4.35
4500	1957	1261	1.14	1352	1.51	1436	1.88	1525	2.31	1615	2.77	1698	3.23	1775	3.69	1850	4.17	1923	4.66
4800	2087	1333	1.33	1420	1.73	1499	2.12	1580	2.55	1665	3.02	1747	3.52	1823	4.01	1895	4.50	1965	5.00
5100	2217	1405	1.54	1488	1.96	1564	2.38	1638	2.81	1717	3.29	1797	3.81	1873	4.34	1944	4.86	2011	5.38
5400	2348	1477	1.77	1557	2.22	1630	2.66	1700	3.11	1772	3.59	1847	4.12	1922	4.67	1993	5.23	2059	5.78
5700	2478	1550	2.03	1627	2.51	1697	2.97	1764	3.44	1831	3.92	1901	4.46	1972	5.02	2042	5.61	2108	6.19
6000	2609	1623	2.31	1697	2.82	1766	3.31	1829	3.79	1892	4.29	1957	4.82	2024	5.40	2092	6.01	2158	6.63

CFM	OV	5" SP		5.5" SP		6" SP		6.5" SP		7" SP		7.5" SP		8" SP		8.5" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4200	1826	1960	4.84	2035	5.36	2108	5.91	2181	6.49	2254	7.12	2328	7.80	2401	8.52				
4500	1957	1995	5.17	2066	5.70	2136	6.24	2205	6.81	2273	7.40	2341	8.03	2409	8.70	2478	9.43	2546	10.18
4800	2087	2034	5.53	2102	6.07	2169	6.62	2235	7.19	2300	7.77	2364	8.38	2428	9.02	2492	9.70	2556	10.41
5100	2217	2077	5.91	2142	6.46	2206	7.03	2270	7.62	2332	8.21	2393	8.81	2454	9.44	2515	10.09	2575	10.77
5400	2348	2123	6.33	2186	6.90	2247	7.47	2308	8.07	2368	8.68	2427	9.29	2486	9.93	2544	10.58	2601	11.24
5700	2478	2171	6.77	2232	7.36	2291	7.95	2349	8.55	2407	9.17	2464	9.81	2521	10.46	2577	11.12	2632	11.78
6000	2609	2220	7.23	2280	7.85	2338	8.46	2394	9.08	2450	9.71	2505	10.36	2559	11.01	2613	11.69	2667	12.38
6300	2739	2270	7.72	2329	8.36	2386	9.00	2442	9.65	2495	10.28	2548	10.94	2601	11.62	2653	12.30	2705	13.00
6600	2870	2319	8.20	2379	8.89	2435	9.55	2490	10.23	2543	10.90	2595	11.58	2645	12.25	2696	12.96	2745	13.65
6900	3000	2370	8.72	2428	9.42	2485	10.13	2539	10.83	2592	11.54	2642	12.23	2692	12.94	2741	13.65	2789	14.36
7200	3130	2422	9.26	2478	9.98	2534	10.71	2588	11.45	2641	12.19	2691	12.92	2740	13.65	2788	14.38	2835	15.11
7500	3261	2477	9.85	2530	10.57	2584	11.32	2638	12.09	2690	12.86	2740	13.62	2789	14.39	2836	15.14	2883	15.91
7800	3391	2534	10.48	2585	11.21	2636	11.97	2688	12.75	2739	13.54	2789	14.33	2838	15.13	2885	15.92	2931	16.72
8100	3522	2593	11.16	2641	11.89	2690	12.65	2740	13.45	2789	14.25	2839	15.08	2887	15.90	2935	16.74	2980	17.55
8400	3652	2654	11.88	2699	12.61	2746	13.39	2793	14.18	2841	15.00	2889	15.84	2937	16.70	2984	17.56	3029	18.40
8700	3783	2717	12.67	2760	13.40	2804	14.17	2849	14.97	2895	15.80	2941	16.64	2987	17.51	3033	18.39	3078	19.27

CFM	OV	9.5" SP		10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6600	2870	2795	14.38	2844	15.11	2942	16.62	3037	18.15	3131	19.73	3224	21.38	3317	23.12	3409	24.95	3502	26.92
6900	3000	2837	15.10	2884	15.83	2979	17.37	3072	18.94	3163	20.53	3253	22.18	3342	23.88	3431	25.68	3519	27.54
7200	3130	2882	15.87	2928	16.62	3018	18.15	3109	19.76	3198	21.39	3285	23.04	3372	24.76	3457	26.51	3542	28.34
7500	3261	2928	16.66	2973	17.44	3061	19.00	3148	20.61	3235	22.28	3320	23.97	3404	25.69	3487	27.45	3569	29.26
7800	3391	2976	17.51	3020	18.30	3106	19.89	3191	21.53	3274	23.20	3357	24.92	3439	26.68	3520	28.47	3600	30.29
8100	3522	3025	18.38	3068	19.19	3153	20.83	3235	22.49	3316	24.18	3397	25.93	3477	27.72	3556	29.54		
8400	3652	3074	19.27	3117	20.11	3201	21.81	3282	23.51	3361	25.23	3439	26.99	3516	28.78	3593	30.63		
8700	3783	3123	20.17	3166	21.05	3249	22.80	3329	24.55	3407	26.32	3483	28.10	3559	29.93				
9000	3913	3172	21.09	3215	22.00	3298	23.83	3378	25.65	3455	27.47	3529	29.27	3603	31.13				
9300	4043	3222	22.04	3264	22.97	3347	24.87	3427	26.76	3503	28.63	3577	30.50						
9600	4174	3273	23.03	3314	23.98	3396	25.92	3476	27.89	3551	29.81	3625	31.75						
9900	4304	3325	24.06	3365	25.02	3446	27.02	3524	29.02	3600	31.02								
10200	4435	3379	25.15	3418	26.13	3496	28.14	3574	30.21										
10500	4565	3434	26.28	3472	27.28	3547	29.30	3623	31.39										
10800	4696	3491	27.49	3527	28.48	3600	30.52												
11100	4826	3550	28.77	3585	29.77														

Underlined numbers indicate maximum static efficiency.

Performance is for BCS with outlet duct and with or without inlet duct.

BHP is a fan shaft brake horsepower and does not include belt drive losses.

Max. RPM	Design 14 2404	Design 17 3262	Design 22 3777	Design 26 NA
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222 BCSOutlet Area: 2.85 ft²

Wheel Diameter.: 22.25"

Tip Speed (FPM): 5.83 x RPM

CFM	OV	1" 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
1800	632	731	0.41																
2200	772	753	0.49																
2600	912	<u>783</u>	<u>0.57</u>	1036	1.19														
3000	1053	823	0.67	1057	1.33														
3400	1193	868	0.78	<u>1084</u>	<u>1.49</u>	1279	2.30												
3800	1333	917	0.91	<u>1118</u>	<u>1.66</u>	1302	2.51	1469	3.44										
4200	1474	970	1.06	1158	1.86	<u>1330</u>	<u>2.75</u>	1491	3.72	1640	4.77								
4600	1614	1025	1.23	1202	2.08	<u>1364</u>	<u>3.02</u>	1517	4.03	1661	5.12	1796	6.27						
5000	1754	1082	1.42	1249	2.32	1403	3.31	<u>1547</u>	<u>4.37</u>	1685	5.49	1816	6.68	1940	7.92				
5400	1895	1140	1.63	1300	2.59	1445	3.62	<u>1582</u>	<u>4.72</u>	<u>1714</u>	<u>5.90</u>	1840	7.12	1961	8.41	2076	9.75	2186	11.13
5800	2035	1200	1.86	1352	2.89	1490	3.96	1621	5.11	<u>1747</u>	<u>6.33</u>	<u>1868</u>	<u>7.60</u>	1984	8.92	2097	10.31	2204	11.73
6200	2175	1261	2.12	1406	3.21	1539	4.34	1664	5.53	<u>1783</u>	<u>6.78</u>	<u>1899</u>	<u>8.11</u>	<u>2012</u>	<u>9.48</u>	2120	10.88	2225	12.35
6600	2316	1324	2.42	1462	3.56	1589	4.74	1709	5.98	1824	7.29	<u>1934</u>	<u>8.64</u>	<u>2042</u>	<u>10.06</u>	<u>2147</u>	<u>11.51</u>	2250	13.04
7000	2456	1388	2.74	1518	3.93	1641	5.18	1756	6.46	1867	7.82	1973	9.22	<u>2077</u>	<u>10.69</u>	<u>2178</u>	<u>12.19</u>	<u>2277</u>	<u>13.74</u>
7400	2596	1453	3.11	1576	4.34	1695	5.65	1805	6.98	1912	8.38	2014	9.82	<u>2114</u>	<u>11.33</u>	<u>2211</u>	<u>12.88</u>	<u>2307</u>	<u>14.49</u>
7800	2737	1518	3.50	1635	4.78	1750	6.15	1857	7.55	1959	8.98	2058	10.47	2154	12.02	2248	13.62	2340	15.27

CFM	OV	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5800	2035	2308	13.21																
6200	2175	2327	13.88	2425	15.44	2520	17.04												
6600	2316	2348	14.57	2444	16.18	2537	17.82	2628	19.52										
7000	2456	2373	15.33	2466	16.96	2557	18.64	2646	20.38	2732	22.13	2817	23.94						
7400	2596	2400	16.12	2491	17.79	2580	19.51	2667	21.28	2751	23.07	2834	24.92	2915	26.80	2994	28.70		
7800	2737	2430	16.94	2519	18.67	2605	20.41	2690	22.22	2773	24.06	2854	25.94	2933	27.85	3011	29.81	3087	31.78
8200	2877	2463	17.81	<u>2549</u>	<u>19.58</u>	2633	21.38	2716	23.22	2797	25.09	2876	27.00	2954	28.96	3030	30.94	3105	32.97
8600	3018	2499	18.71	<u>2582</u>	<u>20.53</u>	<u>2664</u>	<u>22.39</u>	<u>2744</u>	<u>24.26</u>	2823	26.17	2901	28.13	2977	30.11	3052	32.14	3125	34.20
9000	3158	2538	19.68	2618	21.53	<u>2697</u>	<u>23.42</u>	<u>2775</u>	<u>25.35</u>	<u>2852</u>	<u>27.31</u>	<u>2928</u>	<u>29.31</u>	3002	31.32	3076	33.40	3148	35.49
9400	3298	2579	20.68	2656	22.56	2733	24.51	<u>2809</u>	<u>26.50</u>	<u>2883</u>	<u>28.49</u>	<u>2957</u>	<u>30.53</u>	<u>3030</u>	<u>32.60</u>	<u>3101</u>	<u>34.68</u>	3172	36.82
9800	3439	2621	21.72	2697	23.67	2771	25.64	2845	27.67	<u>2917</u>	<u>29.71</u>	<u>2989</u>	<u>31.81</u>	<u>3059</u>	<u>33.90</u>	<u>3129</u>	<u>36.04</u>	<u>3199</u>	<u>38.24</u>
10200	3579	2665	22.81	2739	24.81	2811	26.82	2883	28.90	<u>2953</u>	<u>30.98</u>	<u>3023</u>	<u>33.12</u>	<u>3092</u>	<u>35.29</u>	<u>3160</u>	<u>37.47</u>	<u>3227</u>	<u>39.67</u>
10600	3719	2711	23.97	2783	26.01	2853	28.06	2923	30.17	2991	32.29	<u>3059</u>	<u>34.47</u>	<u>3126</u>	<u>36.68</u>	<u>3192</u>	<u>38.91</u>	<u>3258</u>	<u>41.18</u>
11000	3860	2758	25.18	2828	27.25	2897	29.36	2965	31.52	3031	33.67	3097	35.88	<u>3163</u>	<u>38.16</u>	<u>3227</u>	<u>40.42</u>	<u>3291</u>	<u>42.73</u>
11400	4000	2806	26.43	2874	28.54	2942	30.72	3008	32.90	3073	35.12	3137	37.36	3201	39.66	<u>3264</u>	<u>41.99</u>	<u>3326</u>	<u>44.33</u>
11800	4140	2856	27.77	2922	29.91	2988	32.12	3052	34.33	3116	36.60	3179	38.91	3241	41.24	<u>3302</u>	<u>43.58</u>	<u>3363</u>	<u>45.98</u>

CFM	OV	19" SP		20" SP		21" SP		22" SP		23" SP		24" SP		25" SP		26" SP		27" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9000	3158	3218	37.60	<u>3288</u>	<u>39.78</u>	<u>3356</u>	<u>41.96</u>	<u>3424</u>	<u>44.21</u>	<u>3490</u>	<u>46.44</u>	<u>3556</u>	<u>48.74</u>	<u>3620</u>	<u>51.02</u>				
9400	3298	<u>3242</u>	<u>39.00</u>	<u>3310</u>	<u>41.19</u>	<u>3377</u>	<u>43.41</u>	<u>3443</u>	<u>45.67</u>	<u>3509</u>	<u>47.99</u>	<u>3573</u>	<u>50.29</u>	<u>3636</u>	<u>52.62</u>	<u>3699</u>	<u>55.00</u>	<u>3761</u>	<u>57.41</u>
9800	3439	<u>3267</u>	<u>40.44</u>	<u>3334</u>	<u>42.66</u>	<u>3400</u>	<u>44.92</u>	<u>3465</u>	<u>47.22</u>	<u>3529</u>	<u>49.54</u>	<u>3592</u>	<u>51.89</u>	<u>3655</u>	<u>54.30</u>	<u>3716</u>	<u>56.68</u>	<u>3777</u>	<u>59.12</u>
10200	3579	<u>3294</u>	<u>41.93</u>	<u>3359</u>	<u>44.17</u>	<u>3424</u>	<u>46.47</u>	<u>3488</u>	<u>48.80</u>	<u>3552</u>	<u>51.20</u>	<u>3614</u>	<u>53.58</u>	<u>3675</u>	<u>55.99</u>	<u>3736</u>	<u>58.45</u>		
10600	3719	<u>3323</u>	<u>43.47</u>	<u>3387</u>	<u>45.77</u>	<u>3451</u>	<u>48.12</u>	<u>3514</u>	<u>50.50</u>	<u>3576</u>	<u>52.89</u>	<u>3637</u>	<u>55.30</u>	<u>3697</u>	<u>57.74</u>	<u>3757</u>	<u>60.24</u>		
11000	3860	<u>3354</u>	<u>45.05</u>	<u>3417</u>	<u>47.42</u>	<u>3479</u>	<u>49.79</u>	<u>3541</u>	<u>52.22</u>	<u>3602</u>	<u>54.66</u>	<u>3662</u>	<u>57.11</u>	<u>3721</u>	<u>59.58</u>				
11400	4000	<u>3388</u>	<u>46.72</u>	<u>3449</u>	<u>49.12</u>	<u>3510</u>	<u>51.56</u>	<u>3570</u>	<u>54.01</u>	<u>3629</u>	<u>56.45</u>	<u>3688</u>	<u>58.95</u>	<u>3747</u>	<u>61.51</u>				
11800	4140	<u>3423</u>	<u>48.40</u>	<u>3483</u>	<u>50.86</u>	<u>3542</u>	<u>53.33</u>	<u>3601</u>	<u>55.84</u>	<u>3659</u>	<u>58.35</u>	<u>3717</u>	<u>60.91</u>	<u>3774</u>	<u>63.46</u>				
12200	4281	<u>3461</u>	<u>50.19</u>	<u>3519</u>	<u>52.67</u>	<u>3577</u>	<u>55.20</u>	<u>3634</u>	<u>57.73</u>	<u>3691</u>	<u>60.31</u>	<u>3747</u>	<u>62.87</u>						
12600	4421	<u>3500</u>	<u>52.01</u>	<u>3557</u>	<u>54.55</u>	<u>3613</u>	<u>57.09</u>	<u>3669</u>	<u>59.68</u>	<u>3724</u>	<u>62.27</u>								
13000	4561	<u>3540</u>	<u>53.88</u>	<u>3596</u>	<u>56.47</u>	<u>3651</u>	<u>59.06</u>	<u>3706</u>	<u>61.71</u>	<u>3760</u>	<u>64.35</u>								
13400	4702	<u>3582</u>	<u>55.85</u>	<u>3637</u>	<u>58.49</u>	<u>3691</u>	<u>61.13</u>	<u>3744</u>	<u>63.77</u>										
13800	4842	<u>3625</u>	<u>57.87</u>	<u>3679</u>	<u>60.56</u>	<u>3731</u>	<u>63.20</u>												
14200	4982	<u>3669</u>	<u>59.95</u>	<u>3722</u>	<u>62.69</u>	<u>3773</u>	<u>65.37</u>												
14600	5123	<u>3715</u>	<u>62.15</u>	<u>3766</u>	<u>64.88</u>														
15000	5263	<u>3761</u>	<u>64.38</u>																

Underlined numbers indicate maximum static efficiency.
Performance is for BCS with outlet duct and with or without inlet duct.
BHP is a fan shaft brake horsepower and does not include belt drive losses.

Max. RPM	Design 14 2183	Design 17 2963	Design 22 3560	Design 26 NA
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245 BCSOutlet Area: 3.45 ft²

Wheel Diameter.: 24.50"

Tip Speed (FPM): 6.41 x RPM

CFM	OV	2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP		10" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3500	1014	954	1.56																
4000	1159	978	1.75	1157	2.72														
4500	1304	1008	1.97	1177	2.98	1331	4.10												
5000	1449	1045	2.21	1203	3.28	1350	4.45	1486	5.70										
5500	1594	1085	2.48	1233	3.60	1373	4.82	1505	6.13	1628	7.51								
6000	1739	1129	2.78	1269	3.96	<u>1401</u>	<u>5.24</u>	1527	6.59	1647	8.03	1760	9.54						
6500	1884	1176	3.11	1308	4.34	1434	5.69	<u>1554</u>	<u>7.10</u>	1669	8.58	1779	10.14	1883	11.75	1984	13.43		
7000	2029	1225	3.48	1351	4.78	1470	6.16	<u>1584</u>	<u>7.63</u>	<u>1694</u>	<u>9.17</u>	1801	10.78	1903	12.45	2001	14.18	2095	15.96
7500	2174	1275	3.87	1396	5.24	1510	6.69	1618	8.20	<u>1724</u>	<u>9.81</u>	<u>1826</u>	<u>11.46</u>	1925	13.18	2020	14.95	2112	16.79
8000	2319	1327	4.31	1443	5.75	1552	7.25	1656	8.83	<u>1757</u>	<u>10.48</u>	<u>1855</u>	<u>12.20</u>	<u>1950</u>	<u>13.96</u>	2043	15.79	2133	17.68
8500	2464	1380	4.78	1492	6.30	1596	7.85	1696	9.49	1793	11.20	<u>1887</u>	<u>12.97</u>	<u>1978</u>	<u>14.79</u>	<u>2068</u>	<u>16.67</u>	2156	18.62
9000	2609	1434	5.28	1542	6.88	1642	8.50	1738	10.19	1832	11.97	1922	13.79	<u>2010</u>	<u>15.67</u>	<u>2097</u>	<u>17.63</u>	2181	19.60
9500	2754	1490	5.84	1594	7.52	1690	9.21	1783	10.96	1873	12.78	1960	14.66	<u>2045</u>	<u>16.60</u>	<u>2128</u>	<u>18.60</u>	<u>2210</u>	<u>20.65</u>
10000	2899	1546	6.44	1646	8.19	1740	9.97	1829	11.77	1915	13.63	2000	15.58	2082	17.58	<u>2162</u>	<u>19.62</u>	<u>2241</u>	<u>21.73</u>
10500	3043	1603	7.09	1699	8.90	1790	10.76	1877	12.64	1960	14.56	2042	16.56	2121	18.60	<u>2199</u>	<u>20.72</u>	<u>2275</u>	<u>22.87</u>
11000	3188	1662	7.80	1753	9.66	1842	11.61	1926	13.57	2007	15.56	2085	17.58	2162	19.69	2238	21.87	2311	24.06

CFM	OV	11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7500	2174	2202	18.70	2288	20.63														
8000	2319	2220	19.63	2304	21.61	2386	23.64												
8500	2464	2241	20.61	2323	22.64	2403	24.72	2482	26.88	2559	29.07								
9000	2609	2264	21.64	2345	23.74	2423	25.86	2500	28.06	2575	30.29	2648	32.56	2720	34.88				
9500	2754	2290	22.74	2368	24.85	2445	27.04	2520	29.27	2594	31.58	2665	33.88	2736	36.26	2805	38.67	2873	41.12
10000	2899	2318	23.87	2395	26.08	2470	28.32	2543	30.58	2615	32.91	2685	35.27	2754	37.69	2822	40.16	2888	42.63
10500	3043	2350	25.08	2424	27.34	<u>2496</u>	<u>29.61</u>	2568	31.95	2638	34.31	2707	36.73	2775	39.20	2841	41.69	2906	44.23
11000	3188	2384	26.33	<u>2455</u>	<u>28.63</u>	<u>2526</u>	<u>31.00</u>	<u>2595</u>	<u>33.37</u>	2664	35.81	2731	38.26	2797	40.75	2863	43.33	2927	45.92
11500	3333	2420	27.64	2489	29.99	<u>2557</u>	<u>32.39</u>	<u>2625</u>	<u>34.87</u>	<u>2691</u>	<u>37.32</u>	<u>2757</u>	<u>39.85</u>	2822	42.41	2886	45.02	2949	47.66
12000	3478	2458	29.01	2525	31.42	2592	33.91	<u>2657</u>	<u>36.40</u>	<u>2721</u>	<u>38.92</u>	<u>2785</u>	<u>41.50</u>	<u>2849</u>	<u>44.14</u>	<u>2911</u>	<u>46.77</u>	<u>2972</u>	<u>49.42</u>
12500	3623	2498	30.46	2563	32.91	2628	35.45	2691	37.99	<u>2754</u>	<u>40.60</u>	<u>2816</u>	<u>43.23</u>	<u>2877</u>	<u>45.88</u>	<u>2938</u>	<u>48.59</u>	<u>2998</u>	<u>51.31</u>
13000	3768	2539	31.96	2603	34.49	2666	37.07	2728	39.69	2789	42.34	<u>2849</u>	<u>45.02</u>	<u>2909</u>	<u>47.76</u>	<u>2968</u>	<u>50.51</u>	<u>3026</u>	<u>53.27</u>
13500	3913	2582	33.55	2644	36.12	2705	38.74	2766	41.44	2825	44.12	2884	46.87	<u>2942</u>	<u>49.65</u>	<u>2999</u>	<u>52.44</u>	<u>3056</u>	<u>55.29</u>
14000	4058	2626	35.20	2687	37.86	2746	40.51	2805	43.23	2863	45.99	2920	48.77	<u>2977</u>	<u>51.62</u>	<u>3033</u>	<u>54.49</u>	<u>3088</u>	<u>57.37</u>
14500	4203	2672	36.97	2730	39.61	2788	42.33	2846	45.13	2902	47.91	<u>2958</u>	<u>50.77</u>	<u>3014</u>	<u>53.69</u>	<u>3068</u>	<u>56.57</u>	<u>3122</u>	<u>59.52</u>
15000	4348	2718	38.78	2775	41.49	2832	44.28	2888	47.10	2943	49.95	<u>2998</u>	<u>52.87</u>	<u>3052</u>	<u>55.81</u>	<u>3105</u>	<u>58.76</u>	<u>3158</u>	<u>61.78</u>

CFM	OV	20" SP		21" SP		22" SP		23" SP		24" SP		25" SP		26" SP		27" SP		28" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11000	3188	<u>2989</u>	<u>48.51</u>	<u>3051</u>	<u>51.18</u>	<u>3112</u>	<u>53.89</u>	<u>3172</u>	<u>56.62</u>	<u>3232</u>	<u>59.43</u>	<u>3290</u>	<u>62.21</u>	<u>3348</u>	<u>65.07</u>				
12000	3478	<u>3033</u>	<u>52.16</u>	<u>3093</u>	<u>54.92</u>	<u>3152</u>	<u>57.72</u>	<u>3210</u>	<u>60.56</u>	<u>3267</u>	<u>63.42</u>	<u>3323</u>	<u>66.29</u>	<u>3379</u>	<u>69.24</u>	<u>3434</u>	<u>72.20</u>	<u>3489</u>	<u>75.24</u>
12500	3623	<u>3058</u>	<u>54.11</u>	<u>3116</u>	<u>56.88</u>	<u>3174</u>	<u>59.72</u>	<u>3231</u>	<u>62.59</u>	<u>3288</u>	<u>65.55</u>	<u>3343</u>	<u>68.47</u>	<u>3398</u>	<u>71.46</u>	<u>3452</u>	<u>74.47</u>	<u>3505</u>	<u>77.48</u>
13000	3768	<u>3084</u>	<u>56.09</u>	<u>3142</u>	<u>58.98</u>	<u>3198</u>	<u>61.82</u>	<u>3254</u>	<u>64.74</u>	<u>3310</u>	<u>67.73</u>	<u>3364</u>	<u>70.68</u>	<u>3418</u>	<u>73.71</u>	<u>3471</u>	<u>76.75</u>	<u>3524</u>	<u>79.87</u>
13500	3913	<u>3113</u>	<u>58.19</u>	<u>3169</u>	<u>61.10</u>	<u>3224</u>	<u>64.01</u>	<u>3279</u>	<u>66.98</u>	<u>3333</u>	<u>69.96</u>	<u>3387</u>	<u>73.01</u>	<u>3440</u>	<u>76.07</u>	<u>3493</u>	<u>79.21</u>	<u>3544</u>	<u>82.29</u>
14000	4058	<u>3143</u>	<u>60.30</u>	<u>3198</u>	<u>63.29</u>	<u>3252</u>	<u>66.27</u>	<u>3306</u>	<u>69.31</u>	<u>3359</u>	<u>72.35</u>	<u>3412</u>	<u>75.46</u>	<u>3464</u>	<u>78.56</u>	<u>3515</u>	<u>81.66</u>		
14500	4203	<u>3176</u>	<u>62.53</u>	<u>3229</u>	<u>65.55</u>	<u>3282</u>	<u>68.61</u>	<u>3334</u>	<u>71.66</u>	<u>3386</u>	<u>74.77</u>	<u>3438</u>	<u>77.93</u>	<u>3489</u>	<u>81.09</u>	<u>3540</u>	<u>84.30</u>		
15000	4348	<u>3210</u>	<u>64.80</u>	<u>3262</u>	<u>67.88</u>	<u>3314</u>	<u>71.02</u>	<u>3365</u>	<u>74.15</u>	<u>3415</u>	<u>77.27</u>	<u>3466</u>	<u>80.50</u>	<u>3516</u>	<u>83.71</u>				
15500	4493	<u>3246</u>	<u>67.17</u>	<u>3297</u>	<u>70.32</u>	<u>3347</u>	<u>73.46</u>	<u>3397</u>	<u>76.66</u>	<u>3447</u>	<u>79.91</u>	<u>3496</u>	<u>83.15</u>	<u>3545</u>	<u>86.43</u>				
16000	4638	<u>3284</u>	<u>69.67</u>	<u>3333</u>	<u>72.81</u>	<u>3382</u>	<u>76.01</u>	<u>3431</u>	<u>79.27</u>	<u>3479</u>	<u>82.51</u>	<u>3527</u>	<u>85.81</u>						
16500	4783	<u>3322</u>	<u>72.16</u>	<u>3371</u>	<u>75.43</u>	<u>3419</u>	<u>78.68</u>	<u>3466</u>	<u>81.93</u>	<u>3514</u>	<u>85.30</u>								
17000	4928	<u>3362</u>	<u>74.80</u>	<u>3410</u>	<u>78.12</u>	<u>3457</u>	<u>81.43</u>	<u>3503</u>	<u>84.72</u>	<u>3550</u>	<u>88.15</u>								
17500	5072	<u>3403</u>	<u>77.52</u>	<u>3450</u>	<u>80.89</u>	<u>3496</u>	<u>84.25</u>	<u>3541</u>	<u>87.59</u>										
18000	5217	<u>3445</u>	<u>80.34</u>	<u>3491</u>	<u>83.75</u>	<u>3536</u>	<u>87.16</u>												
18500	5362	<u>3488</u>	<u>83.25</u>	<u>3533</u>	<u>86.71</u>														
19000	5507	<u>3532</u>	<u>86.27</u>																

Underlined numbers indicate maximum static efficiency.

Performance is for BCS with outlet duct and with or without inlet duct.

BHP is a fan shaft brake horsepower and does not include belt drive losses.

Max. RPM	Design 14 1981	Design 17 2687	Design 22 3112	Design 26 3678
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270 BCSOutlet Area: 4.19 ft²

Wheel Diameter.: 27.00"

Tip Speed (FPM): 7.07 x RPM

CFM	OV	2" SP		4" SP		6" SP		8" SP		10" SP		12" SP		14" SP		16" SP		18" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6000	1432	902	2.41	1185	4.94														
6500	1551	926	2.62	1197	5.26														
7000	1671	954	2.87	1212	5.60	1444	8.74												
7500	1790	983	3.14	1231	5.98	1453	9.19												
8000	1909	1014	3.43	1252	6.39	1465	9.67	1665	13.34										
8500	2029	1047	3.76	1274	6.79	1481	10.21	1673	13.93										
9000	2148	1081	4.11	1299	7.24	1499	10.76	1684	14.56	1860	18.68								
9500	2267	1116	4.48	1325	7.70	1519	11.35	1698	15.23	1869	19.45								
10000	2387	1153	4.90	1353	8.20	1540	11.94	1715	15.96	1880	20.24	2038	24.77						
10500	2506	1190	5.35	1382	8.73	1563	12.57	1733	16.70	1893	21.05	2047	25.69	2195	30.55				
11000	2625	1228	5.83	1413	9.31	1587	13.21	1753	17.48	1909	21.94	2058	26.63	2203	31.61				
11500	2745	1267	6.35	1444	9.91	1613	13.91	1774	18.27	1926	22.83	2072	27.64	2212	32.66	2349	37.94		
12000	2864	1307	6.91	1477	10.57	1640	14.63	1797	19.11	1946	23.82	2087	28.66	2224	33.78	2357	39.13	2486	44.66
12500	2983	1346	7.49	1511	11.26	1669	15.42	1821	19.97	1966	24.78	2104	29.74	2238	34.96	2367	40.35	2494	46.02
13000	3103	1387	8.13	1546	12.00	1699	16.25	1846	20.86	1988	25.80	2123	30.89	2253	36.15	2380	41.67	2503	47.37
13500	3222	1427	8.78	1581	12.76	1729	17.09	1872	21.79	2011	26.85	2143	32.05	2271	37.46	2394	43.00	2514	48.77

CFM	OV	20" SP		22" SP		24" SP		26" SP		27" SP		28" SP		29" SP		30" SP		31" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12500	2983	2617	51.85																
13000	3103	2624	53.31	2741	59.39														
13500	3222	2632	54.78	2747	60.94														
14000	3341	2642	56.30	2755	62.57	2865	68.97												
14500	3461	2655	57.95	2765	64.27	2873	70.76	2979	77.43	3031	80.82								
15000	3580	2669	59.62	2776	65.97	2882	72.56	2986	79.30	3037	82.72	3088	86.21	3138	89.70				
15500	3699	2684	61.32	2789	67.75	2893	74.44	2995	81.27	3045	84.71	3095	88.23	3145	91.83	3193	95.33	3242	99.01
16000	3819	2701	63.13	2804	69.64	2905	76.32	3005	83.25	3055	86.81	3104	90.36	3152	93.90	3200	97.51	3248	101.19
16500	3938	2719	64.97	2820	71.57	2920	78.40	3017	85.31	3065	88.83	3114	92.51	3161	96.07	3209	99.80	3256	103.50
17000	4057	2738	66.87	2837	73.54	2935	80.44	3031	87.48	3078	91.03	3125	94.66	3172	98.35	3218	102.01	3264	105.74
17500	4177	2758	68.80	2856	75.64	2952	82.61	3046	89.70	3092	93.27	3138	96.91	3184	100.63	3229	104.33	3275	108.19
18000	4296	2779	70.78	2875	77.71	2969	84.74	3062	91.98	3107	95.56	3153	99.32	3197	102.96	3242	106.76	3286	110.54
18500	4415	2800	72.74	2895	79.83	2988	87.02	3079	94.31	3124	98.01	3168	101.69	3212	105.43	3256	109.25	3300	113.13
19000	4535	2823	74.83	2916	82.00	3007	89.26	3097	96.70	3141	100.42	3185	104.21	3228	107.97	3271	111.79	3314	115.69
19500	4654	2846	76.90	2938	84.23	3028	91.65	3116	99.14	3159	102.89	3202	106.70	3245	110.57	3288	114.51	3330	118.41
20000	4773	2870	79.05	2960	86.44	3049	94.01	3136	101.66	3179	105.52	3221	109.35	3263	113.24	3305	117.19	3346	121.10

CFM	OV	32" SP		33" SP		34" SP		35" SP		36" SP		37" SP		38" SP		39" SP		40" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16000	3819	3295	104.86	3342	108.61														
16500	3938	3302	107.18	3348	110.93	3394	114.76	3439	118.56										
17000	4057	3310	109.53	3356	113.40	3401	117.23	3445	121.03	3490	125.01	3533	128.84						
17500	4177	3320	112.00	3364	115.78	3409	119.73	3453	123.64	3496	127.51	3540	131.55	3583	135.56	3625	139.53		
18000	4296	3330	114.39	3374	118.29	3418	122.26	3461	126.17	3504	130.15	3547	134.20	3589	138.20	3631	142.26	3673	146.40
18500	4415	3343	116.99	3386	120.92	3428	124.80	3471	128.84	3513	132.83	3555	136.88	3597	140.99	3639	145.17		
19000	4535	3356	119.55	3399	123.58	3441	127.58	3482	131.53	3524	135.65	3565	139.71	3606	143.82	3647	147.99		
19500	4654	3371	122.27	3413	126.31	3454	130.30	3495	134.36	3536	138.48	3576	142.55	3616	146.67	3657	150.97		
20000	4773	3387	125.07	3428	129.10	3469	133.20	3509	137.25	3549	141.37	3589	145.55	3628	149.67	3668	153.98		
20500	4893	3404	127.94	3444	131.97	3484	136.07	3524	140.22	3563	144.33	3602	148.49	3641	152.72				
21000	5012	3422	130.88	3462	135.03	3501	139.13	3540	143.28	3579	147.49	3617	151.64	3655	155.85				
21500	5131	3441	133.91	3480	138.06	3518	142.14	3557	146.41	3595	150.61	3633	154.87	3671	159.19				
22000	5251	3460	136.89	3498	141.04	3537	145.37	3574	149.51	3612	153.82	3650	158.20						
23000	5489	3501	143.12	3538	147.39	3576	151.83	3612	156.08	3649	160.50								
24000	5728	3544	149.46	3581	153.97	3617	158.41	3653	162.89										
25000	5967	3590	156.10	3626	160.71	3661	165.25												

Underlined numbers indicate maximum static efficiency.

Performance is for BCS with outlet duct and with or without inlet duct.

BHP is a fan shaft brake horsepower and does not include belt drive losses.

Max. RPM	Design 14 1783	Design 17 2420	Design 22 2801	Design 26 3310
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300 BCSOutlet Area: 5.17 ft²

Wheel Diameter.: 30.00"

Tip Speed (FPM): 7.85 x RPM

CFM	OV	2" SP		4" SP		6" SP		8" SP		10" SP		12" SP		14" SP		16" SP		18" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7500	1451	815	3.01	1068	6.15														
8000	1547	833	3.23	1077	6.48														
8500	1644	852	3.46	1088	6.83	1298	10.66												
9000	1741	873	3.72	1101	7.20	1304	11.11												
9500	1838	895	4.00	1115	7.58	1312	11.59												
10000	1934	919	4.32	1130	7.97	1321	12.06	1500	16.62										
10500	2031	943	4.65	1147	8.39	1333	12.60	1506	17.22										
11000	2128	967	4.98	1165	8.83	1346	13.16	1514	17.85	1673	22.90								
11500	2224	993	5.37	1183	9.27	1360	13.73	1523	18.48	1679	23.66								
12000	2321	1019	5.76	1203	9.76	1375	14.33	1535	19.21	1686	24.43	1831	29.99						
12500	2418	1046	6.19	1224	10.28	1391	14.93	1547	19.92	1694	25.20	1836	30.86						
13000	2515	1073	6.64	1245	10.81	1408	15.57	1561	20.69	1705	26.07	1843	31.79	1976	37.80				
13500	2611	1101	7.12	1268	11.40	1426	16.23	1575	21.45	1716	26.93	1851	32.73	1982	38.87				
14000	2708	1129	7.63	1291	12.01	1444	16.89	1591	22.27	1729	27.86	1860	33.69	1988	39.90	2112	46.38		
14500	2805	1158	8.17	1314	12.62	1464	17.62	1607	23.08	1742	28.78	1871	34.72	1996	41.00	2117	47.53	2235	54.36
15000	2901	1187	8.75	1339	13.31	1484	18.36	1624	23.92	1756	29.73	1883	35.80	2005	42.12	2124	48.77	2240	55.68

CFM	OV	20" SP		22" SP		24" SP		26" SP		27" SP		28" SP		29" SP		30" SP		31" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16000	3095	2361	65.67																
17000	3288	2374	68.68	2476	76.31	2576	84.19												
18000	3482	2391	71.83	2490	79.68	2587	87.72	2682	95.96	2729	100.18								
19000	3675	2412	75.18	2508	83.21	2601	91.35	2694	99.84	2739	104.06	2784	108.37	2829	112.79	2873	117.18		
20000	3868	2437	78.81	2529	86.89	2620	95.27	2709	103.82	2753	108.17	2797	112.61	2840	117.01	2883	121.49	2926	126.07
21000	4062	2464	82.54	2554	90.88	2642	99.38	2728	108.03	2771	112.50	2813	116.95	2855	121.48	2897	126.08	2938	130.63
22000	4255	2494	86.48	2581	94.98	2666	103.61	2750	112.47	2791	116.91	2832	121.44	2873	126.07	2914	130.79	2954	135.46
23000	4449	2525	90.43	2610	99.20	2694	108.20	2775	117.16	2815	121.70	2855	126.33	2895	131.04	2934	135.71	2973	140.46
24000	4642	2559	94.64	2642	103.68	2723	112.81	2802	122.00	2841	126.64	2880	131.36	2919	136.17	2957	140.92	2995	145.75
25000	4836	2594	98.94	2675	108.20	2754	117.57	2831	126.98	2870	131.87	2908	136.70	2945	141.46	2982	146.29	3019	151.20
26000	5029	2631	103.45	2710	112.93	2787	122.51	2862	132.14	2900	137.14	2937	142.07	2974	147.07	3010	152.00	3046	156.99
27000	5222	2670	108.23	2746	117.77	2821	127.54	2895	137.49	2932	142.59	2968	147.62	3004	152.72	3039	157.74	3074	162.81
28000	5416	2710	113.17	2784	122.88	2857	132.81	2929	142.94	2965	148.13	3000	153.24	3035	158.42	3070	163.68	3105	169.00
29000	5609	2752	118.43	2824	128.30	2895	138.38	2965	148.66	3000	153.92	3034	159.11	3068	164.36	3102	169.69	3136	175.09
30000	5803	2796	124.05	2865	133.91	2934	144.13	3002	154.54	3036	159.86	3070	165.27	3103	170.59	3136	175.98	3169	181.45
30500	5899	2818	126.90	2886	136.82	2954	147.10	3021	157.56	3055	163.00	3088	168.35	3121	173.78	3154	179.28	3186	184.69

CFM	OV	32" SP		33" SP		34" SP		35" SP		36" SP		37" SP		38" SP		39" SP		40" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20000	3868	2968	130.61	3010	135.25	3051	139.85												
21000	4062	2979	135.26	3020	139.98	3061	144.78	3101	149.53	3141	154.38	3180	159.16						
22000	4255	2994	140.21	3033	144.89	3073	149.78	3112	154.61	3151	159.52	3190	164.51	3228	169.43	3266	174.43	3304	179.53
23000	4449	3012	145.30	3050	150.08	3088	154.94	3126	159.87	3164	164.86	3202	169.93	3239	174.92	3277	180.14		
24000	4642	3033	150.66	3070	155.50	3107	160.43	3144	165.44	3181	170.53	3217	175.54	3254	180.77	3290	185.91		
25000	4836	3056	156.19	3092	161.10	3129	166.24	3165	171.31	3200	176.29	3236	181.52	3271	186.66	3306	191.88		
26000	5029	3082	162.06	3117	167.04	3153	172.25	3188	177.38	3222	182.41	3257	187.69	3291	192.86				
27000	5222	3109	167.96	3144	173.18	3179	178.46	3213	183.65	3247	188.91	3281	194.24						
28000	5416	3139	174.23	3173	179.53	3206	184.71	3240	190.14	3273	195.45	3306	200.84						
29000	5609	3170	180.56	3203	185.93	3236	191.36	3269	196.86	3301	202.23								
30000	5803	3202	186.98	3235	192.58	3267	198.07	3299	203.63										
30500	5899	3219	190.34	3251	195.88	3283	201.49												
31000	5996	3236	193.69	3268	199.35	3299	204.88												
31500	6093	3253	197.03	3285	202.80														
32000	6190	3271	200.55	3302	206.25														
32500	6286	3289	204.07																

Underlined numbers indicate maximum static efficiency.

Performance is for BCS with outlet duct and with or without inlet duct.

BHP is a fan shaft brake horsepower and does not include belt drive losses.

Max. RPM

Design 14
1621Design 17
2199Design 22
2546Design 26
3009**330 BCS**Outlet Area: 6.26 ft²

Wheel Diameter.: 33.00"

Tip Speed (FPM): 8.64 x RPM

CFM	OV	2" SP		4" SP		6" SP		8" SP		10" SP		12" SP		14" SP		16" SP		18" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	1278	715	3.20																
9000	1438	739	3.61	970	7.40														
10000	1597	766	4.05	984	8.05														
11000	1757	798	4.58	1003	8.79	1187	13.56												
12000	1917	832	5.17	1025	9.56	1200	14.52	1362	19.96										
13000	2077	868	5.82	1051	10.42	1217	15.56	1372	21.18										
14000	2236	906	6.56	1078	11.30	1238	16.71	1386	22.49	1527	28.75								
15000	2396	946	7.38	1109	12.32	1262	17.94	1404	23.92	1539	30.33	1668	37.12						
16000	2556	987	8.29	1141	13.39	1287	19.18	1425	25.46	1554	31.99	1678	38.93	1799	46.33				
17000	2716	1029	9.29	1175	14.57	1315	20.54	1447	27.00	1573	33.82	1692	40.89	1808	48.41	1920	56.22		
18000	2875	1072	10.39	1211	15.88	1344	21.96	1472	28.66	<u>1593</u>	<u>35.67</u>	1709	42.98	1821	50.66	1929	58.61	2035	66.96
19000	3035	1116	11.60	1249	17.31	1376	23.55	1499	30.43	<u>1616</u>	<u>37.66</u>	<u>1728</u>	<u>45.16</u>	1836	52.96	1941	61.13	2043	69.56
20000	3195	1160	12.89	1287	18.80	1409	25.24	1527	32.25	1641	39.75	<u>1750</u>	<u>47.52</u>	1855	55.54	1956	63.78	2055	72.41
21000	3355	1205	14.29	1327	20.45	1444	27.08	1557	34.21	1667	41.88	<u>1773</u>	<u>49.90</u>	1875	58.14	1973	66.55	2069	75.31
22000	3514	1251	15.83	1367	22.18	1480	29.04	1589	36.33	1695	44.15	1798	52.39	<u>1897</u>	<u>60.86</u>	<u>1993</u>	<u>69.55</u>	<u>2086</u>	<u>78.44</u>
23000	3674	1297	17.48	1409	24.10	1517	31.12	<u>1622</u>	<u>38.58</u>	1724	46.51	1824	54.95	1921	63.71	2014	72.58	2105	81.73

CFM	OV	20" SP		22" SP		24" SP		26" SP		27" SP		28" SP		29" SP		30" SP		31" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20000	3195	2152	81.35	<u>2246</u>	<u>90.47</u>														
21000	3355	2163	84.41	<u>2255</u>	<u>93.76</u>	2345	103.36												
22000	3514	2177	87.65	<u>2266</u>	<u>97.13</u>	2354	106.94	2440	116.96	2482	122.01	2524	127.18						
23000	3674	2193	91.02	<u>2280</u>	<u>100.70</u>	2365	110.61	2449	120.82	2490	125.94	2531	131.17	<u>2572</u>	<u>136.53</u>	<u>2612</u>	<u>141.85</u>		
24000	3834	<u>2212</u>	<u>94.69</u>	<u>2296</u>	<u>104.42</u>	2379	114.51	2460	124.78	2500	129.99	2540	135.30	2580	140.73	2619	146.09	2658	151.57
25000	3994	<u>2232</u>	<u>98.40</u>	2314	108.32	2395	118.57	2474	128.99	2513	134.30	<u>2552</u>	<u>139.71</u>	2590	145.05	2629	150.65	2667	156.19
26000	4153	<u>2253</u>	<u>102.17</u>	2334	112.43	2412	122.69	2489	133.23	2528	138.76	2565	144.06	2603	149.65	2640	155.17	2677	160.78
27000	4313	<u>2276</u>	<u>106.14</u>	2355	116.60	2432	127.18	2507	137.86	2544	143.28	2581	148.80	2618	154.43	2654	159.99	2690	165.67
28000	4473	2300	110.17	2377	120.83	2452	131.58	2526	142.56	2563	148.21	2599	153.79	2634	159.28	2670	165.06	2705	170.76
29000	4633	<u>2325</u>	<u>114.30</u>	2401	125.30	2474	136.22	<u>2547</u>	<u>147.52</u>	<u>2582</u>	<u>153.05</u>	2618	158.86	<u>2653</u>	<u>164.58</u>	<u>2687</u>	<u>170.21</u>	2722	176.13
30000	4792	2351	118.55	2425	129.70	2498	141.11	<u>2568</u>	<u>152.38</u>	<u>2603</u>	<u>158.15</u>	<u>2638</u>	<u>164.01</u>	<u>2672</u>	<u>169.78</u>	<u>2706</u>	<u>175.64</u>	<u>2740</u>	<u>181.60</u>
31000	4952	<u>2379</u>	<u>123.10</u>	2451	134.39	2522	145.93	<u>2591</u>	<u>157.51</u>	<u>2626</u>	<u>163.53</u>	<u>2660</u>	<u>169.45</u>	<u>2693</u>	<u>175.27</u>	<u>2727</u>	<u>181.37</u>	<u>2760</u>	<u>187.36</u>
32000	5112	2407	127.65	2478	139.22	2547	150.88	<u>2615</u>	<u>162.75</u>	<u>2649</u>	<u>168.83</u>	<u>2682</u>	<u>174.80</u>	<u>2715</u>	<u>180.86</u>	<u>2748</u>	<u>187.01</u>	<u>2780</u>	<u>193.03</u>
33000	5272	<u>2437</u>	<u>132.55</u>	2506	144.22	2573	155.97	2640	168.12	<u>2673</u>	<u>174.25</u>	<u>2706</u>	<u>180.46</u>	<u>2738</u>	<u>186.56</u>	<u>2770</u>	<u>192.74</u>	<u>2802</u>	<u>199.01</u>
34000	5431	<u>2468</u>	<u>137.66</u>	2534	149.24	2601	161.43	2666	173.65	2698	179.81	<u>2730</u>	<u>186.06</u>	<u>2762</u>	<u>192.39</u>	<u>2794</u>	<u>198.82</u>	<u>2825</u>	<u>205.12</u>
35000	5591	<u>2499</u>	<u>142.83</u>	<u>2564</u>	<u>154.65</u>	2629	166.90	2693	179.36	2725	185.75	2756	192.02	2787	198.38	2818	204.83	2849	211.36

CFM	OV	32" SP		33" SP		34" SP		35" SP		36" SP		37" SP		38" SP		39" SP		40" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
26000	4153	<u>2714</u>	<u>166.47</u>	2751	172.27	2787	177.97	2824	183.97	2859	189.68	2895	195.70	2930	201.62	2965	207.65		
27000	4313	<u>2726</u>	<u>171.44</u>	2762	177.30	2798	183.25	2833	189.09	2868	195.03	2903	201.06	2938	207.19	2972	213.21	<u>3006</u>	<u>219.34</u>
28000	4473	<u>2740</u>	<u>176.56</u>	2775	182.47	2810	188.49	2844	194.38	2879	200.57	2913	206.63	2947	212.78	2980	218.81		
29000	4633	<u>2756</u>	<u>181.96</u>	2790	187.88	2824	193.91	2858	200.04	2891	206.06	2924	212.17	2957	218.35	2990	224.61		
30000	4792	<u>2774</u>	<u>187.65</u>	2807	193.59	2840	199.63	2873	205.76	2906	211.99	2938	218.11	2970	224.31	<u>3002</u>	<u>230.61</u>		
31000	4952	<u>2792</u>	<u>193.23</u>	2825	199.40	2857	205.45	2890	211.80	2922	218.04	2953	224.13	2985	230.55				
32000	5112	<u>2813</u>	<u>199.34</u>	2845	205.54	2876	211.60	2908	217.96	2939	224.19	2970	230.51	<u>3001</u>	<u>236.91</u>				
33000	5272	<u>2834</u>	<u>205.36</u>	2865	211.57	2896	217.86	2927	224.24	2958	230.69	2989	237.24						
34000	5431	<u>2856</u>	<u>211.49</u>	2887	217.95	2918	224.48	2948	230.86	2978	237.32	<u>3008</u>	<u>243.86</u>						
35000	5591	<u>2879</u>	<u>217.75</u>	2910	224.45	2940	231.01	2970	237.63	2999	244.09								
35500	5671	<u>2891</u>	<u>220.97</u>	2921	227.55	2951	234.23	2981	240.97										
36000	5751	<u>2904</u>	<u>224.40</u>	2933	230.87	2963	237.66	2992	244.29										
36500	5831	<u>2916</u>	<u>227.59</u>	2945	234.18	2975	241.09	<u>3004</u>	<u>247.84</u>										
37000	5911	<u>2929</u>	<u>231.00</u>	2958	237.70	2987	244.49												
37500	5990	<u>2941</u>	<u>234.16</u>	2970	240.98	2999	247.88												
38000	6070	<u>2954</u>	<u>237.56</u>	2983	244.49														

Underlined numbers indicate maximum static efficiency.

Performance is for BCS with outlet duct and with or without inlet duct.

BHP is a fan shaft brake horsepower and does not include belt drive losses.

Max. RPM	Design 14 1467	Design 17 1987	Design 22 2302	Design 26 2720
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365 BCSOutlet Area: 7.66 ft²

Wheel Diameter.: 36.50"

Tip Speed (FPM): 9.56 x RPM

CFM	OV	2" SP		4" SP		6" SP		8" SP		10" SP		12" SP		14" SP		16" SP		18" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10000	1305	650	4.00																
11000	1436	668	4.41	877	9.05														
12000	1567	688	4.85	887	9.70														
13000	1697	710	5.34	900	10.41	1069	16.13												
14000	1828	734	5.89	915	11.15	1077	17.06												
15000	1958	760	6.51	933	11.98	1089	18.10	1234	24.83										
16000	2089	787	7.18	952	12.83	1102	19.16	1241	26.02	1374	33.52								
17000	2219	815	7.91	972	13.71	1117	20.28	1252	27.36	1380	35.00								
18000	2350	845	8.74	994	14.68	1134	21.48	1264	28.72	1388	36.54	1506	44.79						
19000	2480	875	9.61	1018	15.76	1153	22.76	1279	30.24	1398	38.14	1513	46.62	1623	55.47				
20000	2611	905	10.54	1042	16.87	1172	24.02	1295	31.79	1411	39.92	1521	48.44	1629	57.55				
21000	2742	937	11.59	1068	18.10	1193	25.40	1312	33.37	1425	41.75	1532	50.43	1636	59.63	1737	69.24		
22000	2872	969	12.71	1095	19.43	1215	26.86	1331	35.08	1440	43.61	1545	52.56	1646	61.91	1744	71.67	1840	81.89
23000	3003	1001	13.88	1122	20.80	1238	28.40	1350	36.76	1457	45.61	1559	54.74	1657	64.21	1753	74.22	1846	84.53
24000	3133	1034	15.17	1150	22.27	1262	30.05	1371	38.61	1475	47.66	1574	56.98	1670	66.68	1763	76.76	1854	87.31
25000	3264	1067	16.53	1179	23.85	1288	31.88	1392	40.46	1494	49.78	1591	59.38	1685	69.34	1775	79.49	1863	90.08

CFM	OV	20" SP		22" SP		24" SP		26" SP		27" SP		28" SP		29" SP		30" SP		31" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
23000	3003	1936	95.11																
24000	3133	1942	98.05	2028	109.16														
25000	3264	1950	101.18	2034	112.42	2117	124.15												
26000	3394	1959	104.32	2041	115.72	2122	127.54	2201	139.63										
27000	3525	1969	107.47	2050	119.21	2129	131.16	2206	143.30	2245	149.70	2282	155.86						
28000	3655	1981	110.88	2060	122.72	2137	134.81	2213	147.24	2250	153.45	2288	160.02	2324	166.32	2361	172.98		
29000	3786	1994	114.38	2071	126.31	2147	138.67	2221	151.21	2258	157.67	2294	164.05	2330	170.57	2366	177.22	2401	183.78
30000	3916	2009	118.16	2084	130.19	2158	142.61	2230	155.22	2266	161.73	2302	168.35	2337	174.88	2372	181.54	2407	188.32
31000	4047	2024	121.88	2098	134.19	2170	146.67	2241	159.50	2276	166.02	2311	172.69	2346	179.48	2380	186.15	2414	192.94
32000	4178	2040	125.72	2113	138.32	2184	151.06	2253	163.91	2288	170.66	2322	177.32	2355	183.89	2389	190.81	2422	197.61
33000	4308	2057	129.68	2128	142.37	2198	155.38	2266	168.47	2300	175.21	2333	181.86	2366	188.63	2399	195.54	2432	202.59
34000	4439	2075	133.77	2145	146.77	2213	159.84	2280	173.17	2313	179.91	2346	186.78	2379	193.78	2411	200.66	2443	207.67
35000	4569	2093	137.82	2162	151.10	2229	164.44	2295	178.03	2328	185.01	2360	191.87	2392	198.85	2423	205.70	2455	212.93
36000	4700	2112	142.04	2180	155.58	2246	169.20	2311	183.05	2343	190.03	2374	196.88	2406	204.09	2437	211.17	2468	218.36
37000	4830	2132	146.44	2198	160.03	2263	173.90	2327	188.00	2359	195.22	2390	202.31	2421	209.51	2451	216.55	2482	223.98
38000	4961	2152	150.84	2217	164.66	2281	178.77	2344	193.12	2375	200.34	2406	207.67	2436	214.85	2466	222.13	2496	229.51

CFM	OV	32" SP		33" SP		34" SP		35" SP		36" SP		37" SP		38" SP		39" SP		40" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
29000	3786	2436	190.49																
30000	3916	2442	195.24	2476	202.06	2510	209.02	2543	215.87										
31000	4047	2448	199.84	2482	206.88	2515	213.80	2548	220.84	2581	228.02	2613	235.07						
32000	4178	2456	204.77	2489	211.79	2522	218.94	2554	225.94	2586	233.07	2618	240.31	2650	247.69	2682	255.21		
33000	4308	2465	209.75	2497	216.78	2529	223.90	2561	231.14	2593	238.49	2624	245.69	2656	253.28	2687	260.72	2718	268.27
34000	4439	2475	214.81	2506	221.82	2538	229.20	2569	236.42	2600	243.74	2631	251.17	2662	258.70	2693	266.36		
35000	4569	2486	220.02	2517	227.23	2548	234.58	2579	242.05	2609	249.35	2640	257.03	2670	264.52	2700	272.12		
36000	4700	2498	225.40	2529	232.84	2559	240.12	2589	247.52	2619	255.04	2649	262.68	2679	270.44	2708	277.98		
37000	4830	2512	231.25	2542	238.63	2571	245.85	2601	253.46	2630	260.91	2660	268.77	2689	276.44	2717	283.93		
38000	4961	2526	237.02	2555	244.34	2584	251.78	2614	259.62	2642	266.98	2671	274.75	2700	282.64				
39000	5091	2541	242.98	2570	250.54	2598	257.92	2627	265.69	2655	273.27	2684	281.27	2712	289.06				
40000	5222	2556	248.87	2585	256.67	2613	264.27	2641	271.97	2669	279.78	2697	287.69						
41000	5352	2572	254.96	2601	263.00	2628	270.54	2656	278.48	2684	286.52	2711	294.34						
42000	5483	2589	261.28	2617	269.26	2644	277.04	2672	285.22	2699	293.18								
43000	5614	2607	267.82	2634	275.75	2661	283.77	2688	291.88	2715	300.08								
44000	5744	2624	274.01	2651	282.16	2678	290.42	2705	298.78										

Underlined numbers indicate maximum static efficiency.

Performance is for BCS with outlet duct and with or without inlet duct.

BHP is a fan shaft brake horsepower and does not include belt drive losses.

Max. RPM	Design 14 1329	Design 17 1802	Design 22 2088	Design 26 2467
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402 BCSOutlet Area: 9.31 ft²

Wheel Diameter.: 40.25"

Tip Speed (FPM): 10.54 x RPM

CFM	OV	2" SP		4" SP		6" SP		8" SP		10" SP		12" SP		14" SP		16" SP		18" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15000	1611	630	6.08	808	12.07														
16000	1719	647	6.59	818	12.79	971	19.83												
17000	1826	666	7.17	830	13.57	977	20.75												
18000	1933	685	7.78	843	14.38	985	21.74	1118	29.92										
19000	2041	705	8.44	856	15.17	995	22.83	1123	31.11										
20000	2148	725	9.12	871	16.06	1005	23.88	1130	32.40	1248	41.53								
21000	2256	747	9.91	887	17.00	1017	25.05	1138	33.70	1253	43.04								
22000	2363	768	10.69	903	17.95	1030	26.27	1148	35.14	1259	44.57	1366	54.64						
23000	2470	791	11.59	921	19.03	1044	27.53	1159	36.64	1267	46.22	1371	56.45						
24000	2578	814	12.54	939	20.14	1058	28.79	1170	38.11	1276	47.93	1377	58.28	1475	69.22				
25000	2685	837	13.53	958	21.34	1073	30.11	1183	39.74	1286	49.72	1385	60.28	1481	71.45	1573	82.96		
26000	2793	860	14.57	978	22.64	1089	31.53	1196	41.34	1297	51.58	1394	62.35	1487	73.58	1578	85.41		
27000	2900	884	15.70	998	23.97	1106	33.04	1210	43.02	1309	53.53	1403	64.37	1494	75.76	1583	87.77	1669	100.13
28000	3008	909	16.95	1018	25.33	1123	34.57	1225	44.79	1322	55.56	1414	66.62	1503	78.17	1590	90.35	1674	102.84
29000	3115	933	18.20	1039	26.81	1141	36.22	1240	46.56	1335	57.56	1426	68.98	1513	80.69	1597	92.82	1680	105.63
30000	3222	958	19.56	1061	28.40	1160	38.00	1256	48.45	1349	59.67	1438	71.30	1523	83.17	1606	95.57	1687	108.50

CFM	OV	20" SP		22" SP		24" SP		26" SP		27" SP		28" SP		29" SP		30" SP		31" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
28000	3008	1756	115.79																
29000	3115	1760	118.65	1839	132.30														
30000	3222	1766	121.82	1843	135.48														
31000	3330	1772	124.87	1848	138.79	1922	153.02												
32000	3437	1779	128.01	1853	141.98	1926	156.42	1997	171.12	2032	178.64								
33000	3545	1787	131.26	1860	145.50	1931	159.96	2002	175.10	2036	182.55	2070	190.19						
34000	3652	1796	134.67	1867	148.89	1938	163.86	2007	178.97	2041	186.65	2074	194.22	2108	202.25	2141	210.18		
35000	3759	1806	138.25	1876	152.68	1945	167.63	2012	182.71	2046	190.62	2079	198.42	2112	206.38	2144	214.22	2177	222.54
36000	3867	1816	141.78	1885	156.41	1953	171.54	2019	186.85	2052	194.74	2084	202.49	2117	210.68	2149	218.74	2181	226.97
37000	3974	1827	145.48	1895	160.34	1961	175.38	2027	191.13	2059	198.99	2091	207.00	2123	215.15	2154	223.14	2185	231.28
38000	4082	1839	149.37	1906	164.46	1971	179.69	2035	195.33	2067	203.41	2098	211.36	2129	219.46	2160	227.70	2191	236.09
39000	4189	1851	153.22	1917	168.52	1981	183.95	2044	199.74	2075	207.74	2106	215.91	2137	224.24	2167	232.43	2197	240.74
40000	4296	1864	157.26	1929	172.80	1992	188.43	2054	204.39	2084	212.31	2115	220.69	2145	228.93	2175	237.33	2204	245.57
41000	4404	1877	161.25	1941	177.03	2003	192.85	2064	208.98	2094	217.12	2124	225.42	2154	233.87	2183	242.16	2212	250.60
42000	4511	1890	165.20	1953	181.19	2015	197.50	2075	213.81	2105	222.18	2134	230.39	2163	238.74	2192	247.24	2221	255.90
43000	4619	1904	169.39	1966	185.59	2027	202.10	2086	218.57	2116	227.19	2145	235.63	2173	243.88	2202	252.60	2230	261.14

CFM	OV	32" SP		33" SP		34" SP		35" SP		36" SP		37" SP		38" SP		39" SP		40" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
35000	3759	2208	230.42																
36000	3867	2212	235.05	2243	243.29	2274	251.71												
37000	3974	2217	239.90	2247	248.02	2278	256.64	2308	265.10	2338	273.72								
38000	4082	2222	244.62	2252	252.97	2282	261.47	2312	270.13	2342	278.95	2371	287.57	2400	296.37				
39000	4189	2227	249.19	2257	257.77	2287	266.51	2317	275.39	2346	284.07	2375	292.90	2404	301.89	2432	310.65	2460	319.58
40000	4296	2234	254.27	2263	262.77	2293	271.75	2322	280.51	2351	289.42	2379	298.10	2408	307.30	2436	316.27	2464	325.39
41000	4404	2241	259.20	2270	267.95	2299	276.83	2328	285.85	2356	294.62	2384	303.53	2412	312.57	2440	321.75		
42000	4511	2250	264.72	2278	273.34	2306	282.10	2334	291.01	2362	300.04	2390	309.19	2418	318.47	2445	327.50		
43000	4619	2258	269.81	2286	278.64	2314	287.62	2342	296.76	2369	305.66	2397	315.08	2424	324.22	2451	333.48		
45000	4834	2278	281.24	2305	290.14	2332	299.18	2359	308.36	2385	317.30	2412	326.78	2438	335.99	2464	345.35		
47000	5048	2299	292.76	2326	302.12	2352	311.23	2378	320.47	2404	329.84	2429	338.93	2455	348.57				
49000	5263	2322	304.77	2348	314.22	2374	323.80	2399	333.09	2424	342.50	2449	352.04						
51000	5478	2347	317.32	2372	326.85	2397	336.50	2422	346.26	2446	355.72								
53000	5693	2373	330.03	2398	340.06	2422	349.77	2446	359.59										
55000	5908	2400	343.01	2424	353.06	2448	363.25												
57000	6122	2429	356.75	2453	367.27														

Underlined numbers indicate maximum static efficiency.
Performance is for BCS with outlet duct and with or without inlet duct.
BHP is a fan shaft brake horsepower and does not include belt drive losses.

Max. RPM	Design 14 1202	Design 17 1631	Design 22 1888	Design 26 2231
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445 BCSOutlet Area: 11.39 ft²

Wheel Diameter.: 44.50"

Tip Speed (FPM): 11.65 x RPM

CFM	OV	2" SP		4" SP		6" SP		8" SP		10" SP		12" SP		14" SP		16" SP		18" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
17000	1493	555	6.84	722	13.83														
18500	1624	572	7.52	732	14.87	874	23.23												
20000	1756	591	8.29	744	15.99	880	24.63												
21500	1888	612	9.18	757	17.13	888	26.09	1009	35.91										
23000	2019	634	10.15	772	18.36	898	27.63	1015	37.77										
24500	2151	657	11.21	789	19.72	910	29.31	1022	39.62	1129	50.85								
26000	2283	681	12.38	806	21.08	923	31.02	1032	41.70	1135	53.15								
27500	2414	705	13.61	825	22.61	938	32.89	1043	43.83	1142	55.44	1238	67.93						
29000	2546	730	14.97	845	24.26	954	34.82	1056	46.16	1152	58.04	1244	70.64	1333	83.91				
30500	2678	756	16.47	866	26.04	970	36.74	1069	48.42	1163	60.71	1252	73.50	1339	87.15	1423	101.36		
32000	2809	782	18.07	887	27.88	988	38.89	1084	50.89	1175	63.47	1262	76.60	1346	90.41	1428	104.90	1507	119.86
33500	2941	809	19.82	910	29.96	1007	41.19	1100	53.47	1189	66.49	1273	79.80	1355	93.89	1434	108.49	1511	123.64
35000	3073	836	21.68	933	32.12	1026	43.52	1116	56.03	1203	69.44	1286	83.30	1365	97.47	1442	112.33	1517	127.74
36500	3205	863	23.64	957	34.46	1047	46.17	1134	58.89	1218	72.50	1299	86.73	1376	101.18	1451	116.24	1525	132.15
38000	3336	890	25.71	981	36.87	1068	48.88	1152	61.78	1234	75.72	1313	90.28	1389	105.25	1462	120.54	1533	136.35
39500	3468	918	27.98	1006	39.51	1090	51.79	1172	65.03	1251	79.10	1328	93.98	1402	109.25	1474	125.00	1543	140.96

CFM	OV	20" SP		22" SP		24" SP		26" SP		27" SP		28" SP		29" SP		30" SP		31" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
36500	3205	1596	148.21	1666	164.93														
38000	3336	1603	152.89	1672	170.03	1738	187.17												
39500	3468	1611	157.62	1678	174.92	1744	192.75	1808	210.82	1839	219.85								
41000	3600	1621	162.79	1686	180.19	1750	198.12	1813	216.52	1844	225.87	1874	235.06	1905	244.86				
42500	3731	1631	167.85	1695	185.58	1757	203.58	1819	222.37	1849	231.69	1879	241.21	1909	250.93	1939	260.88	1968	270.64
44000	3863	1643	173.43	1705	191.20	1766	209.50	1826	228.32	1856	238.02	1885	247.51	1915	257.59	1944	267.46	1972	277.12
45500	3995	1655	178.92	1716	197.03	1776	215.65	1835	234.77	1864	244.46	1892	253.94	1921	263.99	1950	274.23	1978	284.23
47000	4126	1668	184.62	1728	203.11	1787	222.06	1844	241.07	1873	251.09	1901	260.91	1929	270.95	1957	281.15	1984	291.08
48500	4258	1682	190.57	1741	209.45	1798	228.36	1855	248.05	1883	257.99	1910	267.73	1938	278.08	1965	288.20	1992	298.53
50000	4390	1697	196.77	1754	215.68	1811	235.31	1866	254.90	1893	264.78	1920	274.83	1947	285.08	1974	295.52	2000	305.71
51500	4522	1712	202.91	1768	222.18	1824	242.16	1878	262.06	1905	272.28	1931	282.24	1958	292.83	1984	303.16	2010	313.67
53000	4653	1727	208.99	1783	228.97	1837	248.90	1891	269.52	1917	279.66	1943	289.97	1969	300.46	1995	311.13	2020	321.50
54500	4785	1743	215.40	1798	235.69	1852	256.36	1904	276.88	1930	287.38	1956	298.05	1981	308.43	2007	319.45	2032	330.16
56000	4917	1760	222.17	1814	242.77	1866	263.32	1918	284.56	1944	295.43	1969	306.01	1994	316.75	2019	327.65	2043	338.22
57500	5048	1777	228.94	1830	249.81	1882	271.06	1933	292.59	1958	303.39	1983	314.34	2007	324.95	2032	336.22	2056	347.14
59000	5180	1795	236.13	1847	257.27	1897	278.33	1948	300.55	1972	311.23	1997	322.54	2021	333.54	2045	344.67	2069	355.95

CFM	OV	32" SP		33" SP		34" SP		35" SP		36" SP		37" SP		38" SP		39" SP		40" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
47000	4126	2012	301.62	2039	311.90	2066	322.36	2093	332.99	2120	343.83	2146	354.37	2172	365.11	2198	376.04		
48500	4258	2019	309.01	2045	319.19	2072	330.00	2098	340.51	2125	351.68	2151	362.54	2176	373.07	2202	384.29	2228	395.72
50000	4390	2027	316.56	2053	327.12	2079	337.84	2105	348.72	2131	359.76	2156	370.45	2182	381.84	2207	392.86		
51500	4522	2036	324.37	2061	334.77	2087	345.86	2112	356.63	2137	367.53	2163	379.12	2188	390.33	2212	401.17		
53000	4653	2046	332.53	2071	343.26	2096	354.17	2121	365.27	2145	376.02	2170	387.47	2194	398.53	2219	410.28		
54500	4785	2056	340.56	2081	351.61	2106	362.85	2130	373.75	2154	384.81	2178	396.05	2202	407.48	2226	419.06		
56000	4917	2068	349.45	2092	360.34	2116	371.40	2140	382.62	2164	394.01	2188	405.58	2211	416.76				
57500	5048	2080	358.22	2104	369.46	2128	380.86	2151	391.89	2175	403.62	2198	414.97	2221	426.47				
59000	5180	2093	367.39	2116	378.45	2140	390.21	2163	401.58	2186	413.10	2209	424.77	2231	436.03				
60500	5312	2106	376.45	2129	387.86	2152	399.43	2175	411.14	2198	423.02	2220	434.46						
62000	5443	2120	385.91	2143	397.70	2165	409.07	2188	421.15	2210	432.80								
63500	5575	2134	395.26	2156	406.86	2179	419.17	2201	431.03	2223	443.04								
65000	5707	2149	405.09	2171	417.04	2193	429.14	2215	441.38										
66500	5838	2164	414.84	2186	427.15	2207	439.01	2229	451.61										
68000	5970	2179	424.54	2201	437.19														
69500	6102	2195	434.78	2216	447.18														

Underlined numbers indicate maximum static efficiency.

Performance is for BCS with outlet duct and with or without inlet duct.

BHP is a fan shaft brake horsepower and does not include belt drive losses.

Max. RPM	Design 14 1092	Design 17 1481	Design 22 1780	Design 26 2027
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490 BCSOutlet Area: 13.80 ft²

Wheel Diameter.: 49.00"

Tip Speed (FPM): 12.83 x RPM

CFM	OV	2" SP		4" SP		6" SP		8" SP		10" SP		12" SP		14" SP		16" SP		18" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20000	1449	499	8.03	654	16.42														
22000	1594	516	8.93	662	17.69														
24000	1739	535	9.96	674	19.19	798	29.59												
26000	1884	555	11.08	687	20.72	806	31.55	916	43.43										
28000	2029	577	12.38	702	22.36	816	33.61	922	45.92										
30000	2174	600	13.80	719	24.17	828	35.83	930	48.52	1026	62.08								
32000	2319	624	15.38	736	25.99	842	38.24	939	51.11	1032	65.11	1121	79.99						
34000	2464	648	17.05	756	28.15	857	40.71	951	54.09	1040	68.29	1126	83.51						
36000	2609	674	18.99	776	30.38	873	43.28	964	57.16	1051	71.91	1133	87.25	1213	103.55				
38000	2754	700	21.06	797	32.80	890	46.00	979	60.50	1062	75.43	1142	91.21	1219	107.75	1295	125.37		
40000	2899	726	23.26	819	35.42	908	48.88	994	63.77	<u>1075</u>	<u>79.27</u>	1153	95.52	1228	112.48	1300	129.96	1371	148.37
42000	3043	753	25.70	842	38.27	928	52.15	1010	67.19	<u>1089</u>	<u>83.23</u>	1165	99.97	1237	117.02	1308	135.16	1377	153.92
44000	3188	780	28.29	866	41.37	948	55.49	1028	71.01	1104	87.34	<u>1178</u>	<u>104.56</u>	<u>1248</u>	<u>121.99</u>	1317	140.41	1384	159.52
46000	3333	808	31.15	890	44.58	969	59.10	1046	74.86	1120	91.62	<u>1192</u>	<u>109.32</u>	<u>1261</u>	<u>127.43</u>	<u>1327</u>	<u>145.83</u>	1392	165.14
48000	3478	835	34.06	915	48.10	991	62.99	1065	78.98	1137	96.14	1207	114.25	<u>1274</u>	<u>132.76</u>	<u>1339</u>	<u>151.78</u>	<u>1402</u>	<u>171.30</u>
50000	3623	863	37.27	940	51.78	1013	67.00	1085	83.41	1155	100.93	1222	119.12	1288	138.28	1352	157.96	1413	177.68

CFM	OV	20" SP		22" SP		24" SP		26" SP		27" SP		28" SP		29" SP		30" SP		31" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
44000	3188	1449	179.06	<u>1513</u>	<u>199.39</u>														
46000	3333	1456	185.33	<u>1518</u>	<u>205.82</u>	1579	227.02												
48000	3478	1464	191.64	<u>1524</u>	<u>212.33</u>	<u>1584</u>	<u>234.03</u>	1642	255.92	1671	267.29								
50000	3623	1473	198.12	<u>1532</u>	<u>219.32</u>	<u>1590</u>	<u>241.16</u>	<u>1647</u>	<u>263.50</u>	<u>1675</u>	<u>274.81</u>	<u>1703</u>	<u>286.40</u>	<u>1730</u>	<u>297.75</u>	<u>1758</u>	<u>309.89</u>		
52000	3768	<u>1484</u>	<u>205.26</u>	<u>1542</u>	<u>226.92</u>	<u>1598</u>	<u>248.82</u>	1653	271.22	1681	283.01	1708	294.54	1735	306.31	1762	318.34	1788	330.09
54000	3913	<u>1496</u>	<u>212.67</u>	<u>1552</u>	<u>234.37</u>	<u>1607</u>	<u>256.66</u>	<u>1661</u>	<u>279.54</u>	<u>1688</u>	<u>291.35</u>	<u>1714</u>	<u>302.84</u>	<u>1741</u>	<u>315.09</u>	<u>1767</u>	<u>327.03</u>	<u>1793</u>	<u>339.20</u>
56000	4058	<u>1509</u>	<u>220.37</u>	<u>1564</u>	<u>242.57</u>	<u>1617</u>	<u>264.81</u>	<u>1670</u>	<u>288.05</u>	<u>1696</u>	<u>299.81</u>	<u>1722</u>	<u>311.82</u>	<u>1748</u>	<u>324.04</u>	<u>1773</u>	<u>335.91</u>	<u>1799</u>	<u>348.56</u>
58000	4203	<u>1522</u>	<u>227.93</u>	<u>1576</u>	<u>250.62</u>	<u>1628</u>	<u>273.28</u>	<u>1680</u>	<u>296.91</u>	<u>1706</u>	<u>309.09</u>	<u>1731</u>	<u>320.99</u>	<u>1756</u>	<u>333.12</u>	<u>1781</u>	<u>345.51</u>	<u>1806</u>	<u>358.10</u>
60000	4348	<u>1536</u>	<u>235.79</u>	<u>1589</u>	<u>258.99</u>	<u>1641</u>	<u>282.62</u>	<u>1691</u>	<u>306.12</u>	<u>1716</u>	<u>318.21</u>	<u>1741</u>	<u>330.54</u>	<u>1765</u>	<u>342.53</u>	<u>1790</u>	<u>355.34</u>	<u>1814</u>	<u>367.81</u>
62000	4493	<u>1551</u>	<u>244.00</u>	<u>1603</u>	<u>267.71</u>	<u>1653</u>	<u>291.28</u>	<u>1703</u>	<u>315.71</u>	<u>1727</u>	<u>327.70</u>	<u>1752</u>	<u>340.48</u>	<u>1776</u>	<u>352.92</u>	<u>1800</u>	<u>365.58</u>	<u>1823</u>	<u>377.86</u>
64000	4638	<u>1566</u>	<u>252.13</u>	<u>1617</u>	<u>276.29</u>	<u>1667</u>	<u>300.84</u>	<u>1716</u>	<u>325.70</u>	<u>1739</u>	<u>337.58</u>	<u>1763</u>	<u>350.25</u>	<u>1787</u>	<u>363.14</u>	<u>1810</u>	<u>375.64</u>	<u>1833</u>	<u>388.34</u>
66000	4783	<u>1582</u>	<u>260.68</u>	<u>1632</u>	<u>285.27</u>	<u>1681</u>	<u>310.26</u>	<u>1729</u>	<u>335.54</u>	<u>1752</u>	<u>347.89</u>	<u>1776</u>	<u>361.04</u>	<u>1799</u>	<u>373.79</u>	<u>1822</u>	<u>386.75</u>	<u>1845</u>	<u>399.92</u>
68000	4928	<u>1599</u>	<u>269.71</u>	<u>1648</u>	<u>294.71</u>	<u>1696</u>	<u>320.11</u>	<u>1743</u>	<u>345.80</u>	<u>1766</u>	<u>358.64</u>	<u>1789</u>	<u>371.67</u>	<u>1812</u>	<u>384.90</u>	<u>1834</u>	<u>397.69</u>	<u>1856</u>	<u>410.66</u>
70000	5072	<u>1616</u>	<u>278.76</u>	<u>1664</u>	<u>304.11</u>	<u>1711</u>	<u>329.87</u>	<u>1757</u>	<u>355.90</u>	<u>1780</u>	<u>369.23</u>	<u>1803</u>	<u>382.76</u>	<u>1825</u>	<u>395.84</u>	<u>1847</u>	<u>409.11</u>	<u>1869</u>	<u>422.55</u>
72000	5217	<u>1634</u>	<u>288.36</u>	<u>1681</u>	<u>314.05</u>	<u>1727</u>	<u>340.14</u>	<u>1772</u>	<u>366.50</u>	<u>1795</u>	<u>380.32</u>	<u>1817</u>	<u>393.70</u>	<u>1839</u>	<u>407.27</u>	<u>1861</u>	<u>421.03</u>	<u>1882</u>	<u>434.28</u>
74000	5362	<u>1653</u>	<u>298.57</u>	<u>1698</u>	<u>324.01</u>	<u>1743</u>	<u>350.38</u>	<u>1788</u>	<u>377.66</u>	<u>1810</u>	<u>391.31</u>	<u>1832</u>	<u>405.16</u>	<u>1853</u>	<u>418.54</u>	<u>1875</u>	<u>432.79</u>	<u>1896</u>	<u>446.53</u>

CFM	OV	32" SP		33" SP		34" SP		35" SP		36" SP		37" SP		38" SP		39" SP		40" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
58000	4203	1830	370.28	1855	383.27	1879	395.87	1903	408.66	1927	421.68	1951	434.91	1975	448.40	1998	461.42	2021	474.69
60000	4348	1838	380.50	1862	393.39	1886	406.48	1909	419.10	1933	432.59	1956	445.61	1980	459.52	2003	472.97	2025	485.92
62000	4493	1847	390.98	1870	403.70	1893	416.64	1917	430.44	1940	443.77	1962	456.58	1985	470.28	2008	484.17		
64000	4638	1857	401.91	1879	414.39	1902	427.76	1925	441.36	1947	454.49	1970	468.51	1992	482.01	2014	495.67		
66000	4783	1867	412.63	1890	426.22	1912	439.36	1934	452.69	1956	466.24	1978	480.01	2000	493.99	2021	507.43		
68000	4928	1879	424.50	1901	437.88	1923	451.45	1944	464.52	1966	478.50	1987	491.97	2009	506.38				
70000	5072	1891	436.20	1912	449.34	1934	463.36	1955	476.88	1976	490.57	1997	504.46	2018	518.55				
72000	5217	1904	448.41	1925	462.02	1946	475.80	1967	489.77	1988	503.93	2008	517.52						
74000	5362	1917	460.44	1938	474.53	1959	488.80	1979	502.49	2000	517.12	2020	531.15						
76000	5507	1931	473.02	1951	486.86	1972	501.61	1992	515.77	2012	530.10								
78000	5652	1945	485.43	1966	500.50	1986	515.00	2006	529.66	2025	543.68								
80000	5797	1960	498.48	1980	513.26	2000	528.23	2020	543.37										
82000	5942	1976	512.21	1995	526.68	2015	542.12												
84000	6087	1992	525.91	2011	540.82														
86000	6232	2008	539.57	2027	554.93														
88000	6377	2025	554.05																

Underlined numbers indicate maximum static efficiency.
Performance is for BCS with outlet duct and with or without inlet duct.
BHP is a fan shaft brake horsepower and does not include belt drive losses.

Max. RPM	Design 14 986	Design 17 1338	Design 22 1549	Design 26 1831
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542 BCSOutlet Area: 16.92 ft²

Wheel Diameter.: 54.25"

Tip Speed (FPM): 14.20 x RPM

CFM	OV	2" SP		4" SP		6" SP		8" SP		10" SP		12" SP		14" SP		16" SP		18" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
25000	1478	453	10.01	592	20.44														
27500	1625	469	11.16	600	22.06	717	34.54												
30000	1773	487	12.49	611	23.91	722	36.79												
32500	1921	506	13.95	624	25.92	730	39.28	829	54.09										
35000	2069	527	15.65	638	27.99	740	41.95	834	57.03										
37500	2216	548	17.45	654	30.29	752	44.87	842	60.34	928	77.14								
40000	2364	570	19.43	671	32.76	764	47.68	852	63.91	934	80.97	1014	99.46						
42500	2512	593	21.66	689	35.43	779	50.98	863	67.60	943	85.29	1019	103.90	1093	123.68				
45000	2660	617	24.15	708	38.34	794	54.24	875	71.40	952	89.47	1026	108.62	1098	128.95	1167	149.98		
47500	2807	641	26.80	727	41.34	810	57.71	889	75.58	964	94.35	1035	113.73	1104	134.26	1171	155.67	1236	177.95
50000	2955	666	29.76	748	44.79	827	61.43	903	79.69	976	99.11	1045	119.02	1112	139.95	1177	161.84	1240	184.39
52500	3103	690	32.76	769	48.37	846	65.68	919	84.30	989	104.05	1057	124.84	1122	146.21	1184	168.03	1246	191.40
55000	3251	715	36.10	791	52.28	865	70.05	935	88.92	1004	109.53	1069	130.54	1132	152.31	1193	174.82	1253	198.47
57500	3398	741	39.80	814	56.56	884	74.53	952	93.88	1019	114.97	1083	136.83	1144	159.06	1204	182.32	1261	205.68
60000	3546	766	43.56	837	61.04	905	79.65	970	99.21	1034	120.39	1097	143.03	1157	166.09	1215	189.67	1271	213.68
62500	3694	792	47.72	860	65.73	926	84.93	989	104.98	1051	126.54	1111	149.16	1170	172.97	1227	197.31	1282	222.01

CFM	OV	20" SP		22" SP		24" SP		26" SP		27" SP		28" SP		29" SP		30" SP		31" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
55000	3251	1311	222.61	1368	247.58	1424	273.48												
57500	3398	1318	230.54	1373	255.65	1428	282.07	1481	308.72										
60000	3546	1326	238.60	1380	264.42	1433	290.89	1485	318.00	1511	332.06	1536	345.79						
62500	3694	1336	247.55	1388	273.34	1440	300.49	1490	327.53	1515	341.48	1540	355.74	1565	370.33	1589	384.54	1613	399.07
65000	3842	1346	256.31	1397	282.62	1447	309.62	1497	337.93	1521	351.82	1546	366.68	1570	381.14	1594	395.89	1617	410.18
67500	3989	1357	265.45	1407	292.30	1456	319.77	1505	348.54	1528	362.36	1552	377.15	1576	392.23	1599	406.82	1622	421.67
70000	4137	1369	274.99	1418	302.41	1466	330.36	1513	358.84	1537	373.91	1560	388.58	1583	403.54	1605	417.99	1628	433.46
72500	4285	1382	284.96	1430	312.96	1477	341.44	1523	370.35	1546	385.25	1568	399.69	1591	415.18	1613	430.20	1635	445.52
75000	4433	1395	294.76	1443	324.01	1489	353.02	1534	382.38	1556	397.10	1578	412.09	1600	427.37	1622	442.93	1643	457.95
77500	4580	1409	305.07	1456	334.88	1501	364.40	1545	394.21	1567	409.51	1588	424.28	1610	440.12	1631	455.41	1652	470.97
80000	4728	1424	315.95	1469	345.58	1514	376.33	1557	406.60	1578	421.70	1600	437.86	1621	453.47	1642	469.34	1662	484.59
82500	4876	1439	326.81	1483	356.88	1527	388.07	1570	419.57	1591	435.29	1611	450.42	1632	466.60	1653	483.06	1673	498.89
85000	5024	1455	338.35	1498	368.83	1541	400.44	1583	432.35	1603	447.86	1624	464.42	1644	480.37	1664	496.54	1684	512.95
87500	5171	1471	349.93	1514	381.51	1555	412.72	1597	445.80	1617	461.90	1637	478.25	1657	494.80	1677	511.60	1696	527.70
90000	5319	1488	362.29	1529	393.45	1570	425.75	1611	459.15	1631	475.84	1650	491.88	1670	509.04	1689	525.53	1709	543.16
92500	5467	1505	374.78	1546	406.98	1586	439.58	1625	472.42	1645	489.67	1664	506.27	1684	524.04	1703	541.12	1722	558.43

CFM	OV	32" SP		33" SP		34" SP		35" SP		36" SP		37" SP		38" SP		39" SP		40" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
67500	3989	1645	436.80	1668	452.22	1691	467.95	1713	483.16	1735	498.66								
70000	4137	1651	449.21	1673	464.39	1695	479.84	1717	495.55	1739	511.56	1761	527.86	1782	543.55	1803	559.52		
72500	4285	1657	461.09	1679	476.88	1701	492.94	1722	508.36	1744	524.94	1765	540.88	1786	557.08	1807	573.53	1828	590.29
75000	4433	1665	474.09	1686	489.67	1707	505.49	1728	521.54	1749	537.81	1770	554.33	1791	571.08	1811	587.15		
77500	4580	1673	486.79	1694	502.89	1715	519.28	1736	535.95	1756	551.96	1776	568.16	1797	585.54	1817	602.19		
80000	4728	1683	500.99	1703	516.74	1724	533.67	1744	549.95	1764	566.50	1784	583.32	1804	600.40	1823	616.66		
82500	4876	1693	514.95	1713	531.26	1733	547.83	1753	564.64	1772	580.75	1792	598.08	1811	614.68	1831	632.57		
85000	5024	1704	529.59	1724	546.48	1743	562.66	1763	580.05	1782	596.70	1801	613.58	1820	630.71				
87500	5171	1716	544.94	1735	561.47	1754	578.21	1773	595.19	1792	612.40	1811	629.85	1830	647.53				
90000	5319	1728	560.07	1747	577.20	1766	594.55	1784	611.09	1803	628.89	1821	645.85						
92500	5467	1741	575.95	1759	592.69	1778	610.66	1796	627.79	1814	645.12								
95000	5615	1754	591.63	1772	608.98	1790	626.51	1808	644.24	1826	662.18								
97500	5762	1767	607.14	1785	625.06	1803	643.19	1821	661.54										
100000	5910	1781	623.56	1799	642.04	1817	660.77												
102500	6058	1796	640.94	1814	660.02	1831	678.25												
105000	6206	1811	658.31	1828	676.86														

Underlined numbers indicate maximum static efficiency.

Performance is for BCS with outlet duct and with or without inlet duct.

BHP is a fan shaft brake horsepower and does not include belt drive losses.

Max. RPM	Design 14 891	Design 17 1082	Design 22 1401	Design 26 1655
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600 BCSOutlet Area: 20.70 ft²

Wheel Diameter.: 60.00"

Tip Speed (FPM): 15.71 x RPM

CFM	OV	2" SP		4" SP		6" SP		8" SP		10" SP		12" SP		14" SP		16" SP		18" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
30000	1449	407	11.99	534	24.61														
33000	1594	421	13.36	541	26.58														
36000	1739	437	14.94	550	28.71	652	44.44												
39000	1884	453	16.59	561	31.06	658	47.26	748	65.11										
42000	2029	471	18.53	574	33.66	666	50.31	753	68.87										
45000	2174	490	20.69	587	36.21	676	53.68	759	72.61	838	93.13								
48000	2319	510	23.11	602	39.14	688	57.43	767	76.69	843	97.71	915	119.77						
51000	2464	530	25.67	617	42.12	700	61.07	777	81.22	850	102.65	920	125.42						
54000	2609	550	28.40	634	45.60	713	64.92	788	85.95	858	107.72	925	130.72	991	155.47				
57000	2754	572	31.63	651	49.20	727	69.01	799	90.54	868	113.39	933	136.94	996	161.82	1057	187.70		
60000	2899	593	34.89	669	53.14	742	73.43	812	95.70	878	118.90	942	143.41	1003	168.74	1062	195.07	1120	222.72
63000	3043	615	38.54	688	57.47	758	78.23	825	100.81	890	125.08	951	149.71	1011	175.89	1068	202.57	1124	230.49
66000	3188	637	42.41	707	61.96	774	83.14	839	106.27	902	131.13	962	156.78	1020	183.36	1076	210.82	1130	239.05
69000	3333	660	46.73	727	66.89	792	88.83	854	112.15	915	137.53	973	163.69	1030	191.19	1084	218.86	1137	247.78
72000	3478	682	51.09	747	72.04	810	94.69	870	118.52	929	144.37	986	171.46	1041	199.40	1094	227.91	1145	256.89
75000	3623	705	55.93	768	77.73	828	100.71	886	125.02	943	151.21	999	179.17	1052	207.43	1104	236.77	1154	266.47

CFM	OV	20" SP		22" SP		24" SP		26" SP		27" SP		28" SP		29" SP		30" SP		31" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
63000	3043	<u>1179</u>	<u>259.61</u>																
66000	3188	<u>1183</u>	<u>268.29</u>	<u>1235</u>	<u>298.58</u>														
69000	3333	<u>1189</u>	<u>277.88</u>	<u>1240</u>	<u>308.88</u>	<u>1289</u>	<u>340.04</u>												
72000	3478	<u>1196</u>	<u>287.68</u>	<u>1245</u>	<u>318.73</u>	<u>1293</u>	<u>350.48</u>	<u>1341</u>	<u>383.83</u>	<u>1364</u>	<u>400.29</u>								
75000	3623	<u>1203</u>	<u>297.14</u>	<u>1251</u>	<u>328.79</u>	<u>1299</u>	<u>362.07</u>	<u>1345</u>	<u>395.12</u>	<u>1368</u>	<u>412.21</u>	<u>1391</u>	<u>429.71</u>	<u>1413</u>	<u>446.68</u>	<u>1435</u>	<u>464.06</u>		
78000	3768	<u>1212</u>	<u>307.85</u>	<u>1259</u>	<u>340.05</u>	<u>1305</u>	<u>373.11</u>	<u>1350</u>	<u>406.78</u>	<u>1373</u>	<u>424.59</u>	<u>1395</u>	<u>441.84</u>	<u>1417</u>	<u>459.45</u>	<u>1439</u>	<u>477.44</u>	<u>1460</u>	<u>494.82</u>
81000	3913	<u>1222</u>	<u>319.12</u>	<u>1268</u>	<u>351.90</u>	<u>1313</u>	<u>385.43</u>	<u>1357</u>	<u>419.69</u>	<u>1378</u>	<u>436.41</u>	<u>1400</u>	<u>454.39</u>	<u>1422</u>	<u>472.72</u>	<u>1443</u>	<u>490.39</u>	<u>1464</u>	<u>508.41</u>
84000	4058	<u>1232</u>	<u>330.17</u>	<u>1277</u>	<u>363.52</u>	<u>1321</u>	<u>397.51</u>	<u>1364</u>	<u>432.13</u>	<u>1385</u>	<u>449.53</u>	<u>1406</u>	<u>467.30</u>	<u>1427</u>	<u>485.39</u>	<u>1448</u>	<u>503.80</u>	<u>1469</u>	<u>522.52</u>
87000	4203	<u>1243</u>	<u>341.80</u>	<u>1287</u>	<u>375.76</u>	<u>1330</u>	<u>410.24</u>	<u>1372</u>	<u>445.23</u>	<u>1393</u>	<u>463.28</u>	<u>1414</u>	<u>481.71</u>	<u>1434</u>	<u>499.48</u>	<u>1454</u>	<u>517.61</u>	<u>1475</u>	<u>537.12</u>
90000	4348	<u>1255</u>	<u>354.07</u>	<u>1298</u>	<u>388.65</u>	<u>1340</u>	<u>423.65</u>	<u>1381</u>	<u>459.06</u>	<u>1402</u>	<u>477.79</u>	<u>1422</u>	<u>495.86</u>	<u>1442</u>	<u>514.28</u>	<u>1462</u>	<u>533.05</u>	<u>1481</u>	<u>551.08</u>
93000	4493	<u>1267</u>	<u>366.17</u>	<u>1309</u>	<u>401.32</u>	<u>1350</u>	<u>436.83</u>	<u>1391</u>	<u>473.64</u>	<u>1411</u>	<u>492.05</u>	<u>1431</u>	<u>510.79</u>	<u>1450</u>	<u>528.80</u>	<u>1470</u>	<u>548.23</u>	<u>1489</u>	<u>566.88</u>
96000	4638	<u>1279</u>	<u>378.14</u>	<u>1321</u>	<u>414.71</u>	<u>1361</u>	<u>450.74</u>	<u>1401</u>	<u>487.98</u>	<u>1421</u>	<u>507.09</u>	<u>1440</u>	<u>525.45</u>	<u>1459</u>	<u>544.12</u>	<u>1479</u>	<u>564.24</u>	<u>1497</u>	<u>582.40</u>
99000	4783	<u>1293</u>	<u>391.80</u>	<u>1333</u>	<u>427.94</u>	<u>1373</u>	<u>465.42</u>	<u>1412</u>	<u>503.12</u>	<u>1431</u>	<u>521.88</u>	<u>1450</u>	<u>540.94</u>	<u>1469</u>	<u>560.31</u>	<u>1488</u>	<u>579.99</u>	<u>1507</u>	<u>600.00</u>
102000	4928	<u>1306</u>	<u>404.54</u>	<u>1346</u>	<u>442.03</u>	<u>1385</u>	<u>479.91</u>	<u>1423</u>	<u>518.02</u>	<u>1442</u>	<u>537.52</u>	<u>1461</u>	<u>557.30</u>	<u>1480</u>	<u>577.41</u>	<u>1498</u>	<u>596.63</u>	<u>1516</u>	<u>616.14</u>
105000	5072	<u>1320</u>	<u>418.22</u>	<u>1359</u>	<u>456.07</u>	<u>1398</u>	<u>495.33</u>	<u>1435</u>	<u>533.80</u>	<u>1454</u>	<u>554.04</u>	<u>1472</u>	<u>573.42</u>	<u>1490</u>	<u>593.07</u>	<u>1509</u>	<u>614.22</u>	<u>1526</u>	<u>633.21</u>
108000	5217	<u>1335</u>	<u>432.91</u>	<u>1373</u>	<u>471.09</u>	<u>1411</u>	<u>510.69</u>	<u>1448</u>	<u>550.54</u>	<u>1466</u>	<u>570.37</u>	<u>1484</u>	<u>590.47</u>	<u>1502</u>	<u>610.88</u>	<u>1520</u>	<u>631.57</u>	<u>1537</u>	<u>651.25</u>

CFM	OV	32" SP		33" SP		34" SP		35" SP		36" SP		37" SP		38" SP		39" SP		40" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
87000	4203	<u>1495</u>	<u>555.85</u>	<u>1515</u>	<u>574.88</u>	<u>1535</u>	<u>594.22</u>	<u>1555</u>	<u>613.90</u>	<u>1574</u>	<u>632.71</u>	<u>1594</u>	<u>653.07</u>	<u>1613</u>	<u>672.55</u>	<u>1632</u>	<u>692.37</u>	<u>1651</u>	<u>712.56</u>
90000	4348	<u>1501</u>	<u>570.57</u>	<u>1521</u>	<u>590.36</u>	<u>1540</u>	<u>609.28</u>	<u>1559</u>	<u>628.50</u>	<u>1579</u>	<u>649.20</u>	<u>1598</u>	<u>669.01</u>	<u>1617</u>	<u>689.14</u>	<u>1635</u>	<u>708.30</u>	<u>1654</u>	<u>729.07</u>
93000	4493	<u>1508</u>	<u>585.87</u>	<u>1527</u>	<u>605.20</u>	<u>1546</u>	<u>624.86</u>	<u>1565</u>	<u>644.83</u>	<u>1584</u>	<u>665.08</u>	<u>1603</u>	<u>685.61</u>	<u>1621</u>	<u>705.14</u>	<u>1640</u>	<u>726.29</u>		
96000	4638	<u>1516</u>	<u>602.04</u>	<u>1535</u>	<u>622.01</u>	<u>1554</u>	<u>642.33</u>	<u>1572</u>	<u>661.76</u>	<u>1590</u>	<u>681.50</u>	<u>1609</u>	<u>702.82</u>	<u>1627</u>	<u>723.11</u>	<u>1645</u>	<u>743.66</u>		
99000	4783	<u>1525</u>	<u>619.12</u>	<u>1543</u>	<u>638.54</u>	<u>1562</u>	<u>659.53</u>	<u>1580</u>	<u>679.59</u>	<u>1598</u>	<u>699.97</u>	<u>1615</u>	<u>719.32</u>	<u>1633</u>	<u>740.35</u>	<u>1651</u>	<u>761.66</u>		
102000	4928	<u>1534</u>	<u>635.93</u>	<u>1552</u>	<u>656.02</u>	<u>1570</u>	<u>676.40</u>	<u>1588</u>	<u>697.12</u>	<u>1606</u>	<u>718.14</u>	<u>1623</u>	<u>738.15</u>	<u>1640</u>	<u>758.42</u>				
105000	5072	<u>1544</u>	<u>653.71</u>	<u>1562</u>	<u>674.49</u>	<u>1579</u>	<u>694.27</u>	<u>1597</u>	<u>715.68</u>	<u>1614</u>	<u>736.02</u>	<u>1631</u>	<u>756.65</u>	<u>1648</u>	<u>777.57</u>				
108000	5217	<u>1555</u>	<u>672.50</u>	<u>1572</u>	<u>692.71</u>	<u>1589</u>	<u>713.18</u>	<u>1606</u>	<u>733.92</u>	<u>1623</u>	<u>754.94</u>	<u>1640</u>	<u>776.25</u>						
111000	5362	<u>1566</u>	<u>691.03</u>	<u>1583</u>	<u>711.96</u>	<u>1600</u>	<u>733.17</u>	<u>1616</u>	<u>753.25</u>	<u>1633</u>	<u>774.96</u>	<u>1650</u>	<u>796.98</u>						
114000	5507	<u>1577</u>	<u>709.30</u>	<u>1594</u>	<u>730.97</u>	<u>1611</u>	<u>752.92</u>	<u>1627</u>	<u>773.69</u>	<u>1644</u>	<u>796.15</u>								
117000	5652	<u>1589</u>	<u>728.70</u>	<u>1605</u>	<u>749.70</u>	<u>1622</u>	<u>772.39</u>	<u>1638</u>	<u>793.88</u>	<u>1654</u>	<u>815.61</u>								
120000	5797	<u>1601</u>	<u>747.92</u>	<u>1617</u>	<u>769.62</u>	<u>1634</u>	<u>793.03</u>	<u>1650</u>	<u>815.27</u>										
123000	5942	<u>1614</u>	<u>768.42</u>	<u>1630</u>	<u>790.82</u>	<u>1646</u>	<u>813.50</u>												
126000	6087	<u>1627</u>	<u>788.86</u>	<u>1642</u>	<u>810.45</u>														
129000	6232	<u>1640</u>	<u>809.25</u>	<u>1655</u>	<u>831.49</u>														
132000	6377	<u>1654</u>	<u>831.12</u>																

Underlined numbers indicate maximum static efficiency.

Performance is for BCS with outlet duct and with or without inlet duct.

BHP is a fan shaft brake horsepower and does not include belt drive losses.

Max. RPM	Design 14 810	Design 17 984	Design 22 1273	Design 26 1504
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660 BCSOutlet Area: 25.04 ft²

Wheel Diameter.: 66.00"

Tip Speed (FPM): 17.28 x RPM

CFM	OV	2" SP		4" SP		6" SP		8" SP		10" SP		12" SP		14" SP		16" SP		18" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
30000	1198	352	12.01																
33000	1318	360	13.17																
36000	1438	369	14.38	485	29.59														
39000	1558	380	15.81	490	31.53														
42000	1677	391	17.24	496	33.55	591	52.38												
45000	1797	403	18.85	504	35.89	595	55.20												
48000	1917	416	20.66	513	38.37	600	58.08	681	79.82										
51000	2037	429	22.54	522	40.78	606	61.11	685	83.64										
54000	2157	443	24.66	532	43.39	614	64.64	689	87.20	761	111.87								
57000	2276	458	27.04	543	46.25	622	68.08	695	91.30	765	116.62								
60000	2396	473	29.53	554	49.13	631	71.76	702	95.68	769	121.10	834	148.46						
63000	2516	488	32.16	566	52.34	640	75.36	710	100.36	775	126.25	838	154.11	898	182.95				
66000	2636	504	35.13	579	55.91	650	79.27	718	104.94	781	131.27	842	159.44	901	189.08				
70000	2796	525	39.27	597	61.03	665	85.10	730	111.46	<u>791</u>	<u>138.76</u>	850	167.64	907	198.06	962	229.55		
74000	2955	547	43.94	615	66.35	680	91.01	743	118.31	<u>802</u>	<u>146.56</u>	<u>859</u>	<u>176.18</u>	914	207.11	967	239.19	1019	272.71
78000	3115	569	48.92	634	72.20	696	97.46	756	125.09	814	154.70	869	185.07	923	217.20	974	249.66	1024	283.62

CFM	OV	20" SP		22" SP		24" SP		26" SP		27" SP		28" SP		29" SP		30" SP		31" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
74000	2955	<u>1070</u>	<u>307.83</u>																
78000	3115	<u>1074</u>	<u>319.68</u>	1121	355.30														
82000	3275	<u>1079</u>	<u>331.84</u>	<u>1125</u>	<u>368.28</u>	1171	406.84												
86000	3435	<u>1085</u>	<u>344.19</u>	<u>1130</u>	<u>381.63</u>	<u>1175</u>	<u>420.96</u>	1218	460.14	<u>1239</u>	<u>479.94</u>								
90000	3594	<u>1092</u>	<u>356.89</u>	<u>1136</u>	<u>395.23</u>	<u>1180</u>	<u>435.49</u>	<u>1222</u>	<u>475.35</u>	<u>1243</u>	<u>495.97</u>	1264	517.10	1284	537.50				
94000	3754	<u>1101</u>	<u>371.19</u>	<u>1144</u>	<u>410.28</u>	<u>1186</u>	<u>450.33</u>	<u>1227</u>	<u>491.00</u>	<u>1247</u>	<u>511.34</u>	<u>1268</u>	<u>533.36</u>	<u>1288</u>	<u>554.60</u>	1308	576.29	1327	597.14
98000	3914	<u>1111</u>	<u>386.21</u>	<u>1152</u>	<u>424.98</u>	<u>1193</u>	<u>465.62</u>	<u>1233</u>	<u>507.02</u>	<u>1253</u>	<u>528.38</u>	<u>1273</u>	<u>550.14</u>	<u>1292</u>	<u>570.99</u>	1312	593.59	1331	615.26
102000	4073	<u>1121</u>	<u>400.92</u>	<u>1162</u>	<u>441.55</u>	<u>1202</u>	<u>482.87</u>	<u>1241</u>	<u>524.81</u>	<u>1260</u>	<u>545.84</u>	<u>1279</u>	<u>567.32</u>	<u>1298</u>	<u>589.17</u>	1317	611.42	1336	634.04
106000	4233	<u>1132</u>	<u>416.37</u>	<u>1172</u>	<u>457.80</u>	<u>1211</u>	<u>499.78</u>	<u>1249</u>	<u>542.23</u>	<u>1268</u>	<u>564.11</u>	<u>1287</u>	<u>586.46</u>	<u>1305</u>	<u>607.87</u>	1324	631.13	1342	653.37
110000	4393	<u>1144</u>	<u>432.65</u>	<u>1183</u>	<u>474.91</u>	<u>1221</u>	<u>517.56</u>	<u>1258</u>	<u>560.57</u>	<u>1277</u>	<u>583.36</u>	<u>1295</u>	<u>605.22</u>	<u>1313</u>	<u>627.47</u>	1331	650.16	1349	673.29
114000	4553	<u>1156</u>	<u>448.67</u>	<u>1194</u>	<u>491.68</u>	<u>1232</u>	<u>536.29</u>	<u>1268</u>	<u>579.86</u>	<u>1286</u>	<u>602.22</u>	<u>1304</u>	<u>624.96</u>	<u>1322</u>	<u>648.14</u>	1339	670.22	1357	694.21
118000	4712	<u>1169</u>	<u>465.72</u>	<u>1206</u>	<u>509.38</u>	<u>1243</u>	<u>554.68</u>	<u>1279</u>	<u>600.19</u>	<u>1296</u>	<u>622.09</u>	<u>1314</u>	<u>645.79</u>	<u>1331</u>	<u>668.40</u>	<u>1348</u>	<u>691.38</u>	<u>1365</u>	<u>714.71</u>
122000	4872	<u>1183</u>	<u>483.90</u>	<u>1219</u>	<u>528.18</u>	<u>1255</u>	<u>574.09</u>	<u>1290</u>	<u>620.19</u>	<u>1307</u>	<u>643.04</u>	<u>1324</u>	<u>666.23</u>	<u>1341</u>	<u>689.78</u>	<u>1358</u>	<u>713.67</u>	<u>1375</u>	<u>737.97</u>
126000	5032	<u>1196</u>	<u>500.86</u>	<u>1232</u>	<u>546.88</u>	<u>1267</u>	<u>593.28</u>	<u>1302</u>	<u>641.29</u>	<u>1319</u>	<u>665.14</u>	<u>1335</u>	<u>687.78</u>	<u>1352</u>	<u>712.31</u>	<u>1369</u>	<u>737.20</u>	<u>1385</u>	<u>760.82</u>
130000	5192	<u>1211</u>	<u>520.38</u>	<u>1246</u>	<u>566.88</u>	<u>1280</u>	<u>613.72</u>	<u>1314</u>	<u>662.14</u>	<u>1330</u>	<u>685.39</u>	<u>1347</u>	<u>710.57</u>	<u>1363</u>	<u>734.49</u>	<u>1380</u>	<u>760.38</u>	<u>1396</u>	<u>784.98</u>
134000	5351	<u>1226</u>	<u>540.06</u>	<u>1260</u>	<u>586.93</u>	<u>1293</u>	<u>634.08</u>	<u>1327</u>	<u>684.33</u>	<u>1343</u>	<u>708.51</u>	<u>1359</u>	<u>733.05</u>	<u>1375</u>	<u>757.94</u>	<u>1391</u>	<u>783.17</u>	<u>1407</u>	<u>808.72</u>

CFM	OV	32" SP		33" SP		34" SP		35" SP		36" SP		37" SP		38" SP		39" SP		40" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
98000	3914	<u>1350</u>	<u>637.37</u>	<u>1369</u>	<u>659.92</u>	<u>1388</u>	<u>682.95</u>	<u>1406</u>	<u>704.94</u>										
102000	4073	<u>1355</u>	<u>657.08</u>	<u>1373</u>	<u>679.06</u>	<u>1392</u>	<u>702.94</u>	<u>1410</u>	<u>725.74</u>	<u>1428</u>	<u>748.97</u>	<u>1446</u>	<u>772.62</u>						
106000	4233	<u>1360</u>	<u>675.95</u>	<u>1378</u>	<u>698.86</u>	<u>1396</u>	<u>722.16</u>	<u>1414</u>	<u>745.86</u>	<u>1432</u>	<u>769.94</u>	<u>1449</u>	<u>792.80</u>	1467	817.71	1484	841.38	1501	865.46
110000	4393	<u>1367</u>	<u>696.85</u>	<u>1384</u>	<u>719.27</u>	<u>1402</u>	<u>743.59</u>	<u>1419</u>	<u>766.66</u>	<u>1437</u>	<u>791.71</u>	<u>1454</u>	<u>815.49</u>	<u>1471</u>	<u>839.63</u>	<u>1488</u>	<u>864.15</u>		
114000	4553	<u>1374</u>	<u>717.09</u>	<u>1391</u>	<u>740.36</u>	<u>1408</u>	<u>764.04</u>	<u>1425</u>	<u>788.11</u>	<u>1442</u>	<u>812.54</u>	<u>1459</u>	<u>837.28</u>	<u>1476</u>	<u>862.39</u>	<u>1493</u>	<u>887.84</u>		
118000	4712	<u>1382</u>	<u>738.45</u>	<u>1399</u>	<u>762.60</u>	<u>1416</u>	<u>787.12</u>	<u>1433</u>	<u>812.07</u>	<u>1449</u>	<u>835.74</u>	<u>1465</u>	<u>859.77</u>	<u>1482</u>	<u>885.91</u>	<u>1498</u>	<u>910.59</u>		
122000	4872	<u>1391</u>	<u>761.00</u>	<u>1408</u>	<u>786.04</u>	<u>1424</u>	<u>809.78</u>	<u>1441</u>	<u>835.62</u>	<u>1457</u>	<u>860.12</u>	<u>1473</u>	<u>885.00</u>	<u>1489</u>	<u>910.23</u>				
126000	5032	<u>1401</u>	<u>784.77</u>	<u>1417</u>	<u>809.07</u>	<u>1433</u>	<u>833.71</u>	<u>1449</u>	<u>858.71</u>	<u>1465</u>	<u>884.06</u>	<u>1481</u>	<u>909.81</u>	<u>1496</u>	<u>934.05</u>				
130000	5192	<u>1412</u>	<u>809.88</u>	<u>1427</u>	<u>833.39</u>	<u>1443</u>	<u>858.96</u>	<u>1459</u>	<u>884.91</u>	<u>1474</u>	<u>909.36</u>	<u>1490</u>	<u>936.01</u>						
134000	5351	<u>1422</u>	<u>832.88</u>	<u>1438</u>	<u>859.08</u>	<u>1453</u>	<u>883.81</u>	<u>1469</u>	<u>910.70</u>	<u>1484</u>	<u>936.07</u>	<u>1499</u>	<u>961.77</u>						
138000	5511	<u>1434</u>	<u>858.98</u>	<u>1449</u>	<u>884.39</u>	<u>1464</u>	<u>910.09</u>	<u>1479</u>	<u>936.09</u>	<u>1494</u>	<u>962.41</u>								
142000	5671	<u>1446</u>	<u>884.77</u>	<u>1461</u>	<u>911.15</u>	<u>1476</u>	<u>937.86</u>	<u>1490</u>	<u>962.95</u>										
146000	5831	<u>1458</u>	<u>910.33</u>	<u>1473</u>	<u>937.65</u>	<u>1487</u>	<u>963.35</u>	<u>1502</u>	<u>991.34</u>										
150000	5990	<u>1471</u>	<u>937.61</u>	<u>1485</u>	<u>963.91</u>	<u>1500</u>	<u>992.50</u>												
154000	6150	<u>1484</u>	<u>964.79</u>	<u>1498</u>	<u>991.99</u>														
158000	6310	<u>1497</u>	<u>991.90</u>																

Underlined numbers indicate maximum static efficiency.

Performance is for BCS with outlet duct and with or without inlet duct.

BHP is a fan shaft brake horsepower and does not include belt drive losses.

Max. RPM

Design 14
735Design 17
890Design 22
1180Design 26
1360**730 BCS**Outlet Area: 30.63 ft²

Wheel Diameter.: 73.00"

Tip Speed (FPM): 19.11 x RPM

CFM	OV	2" SP		4" SP		6" SP		8" SP		10" SP		12" SP		14" SP		16" SP		18" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
40000	1306	325	16.01																
45000	1469	336	18.01	439	36.67														
50000	1632	349	20.30	446	40.02	533	62.74												
55000	1796	364	23.00	456	43.99	538	67.52												
60000	1959	380	26.03	466	47.78	544	72.22	617	99.32										
65000	2122	397	29.43	478	52.04	553	77.82	622	105.51	688	135.72								
70000	2285	415	33.28	492	56.96	563	83.64	629	112.19	692	143.14								
75000	2449	434	37.63	506	61.95	574	89.70	638	119.66	698	151.16	755	184.23						
80000	2612	453	42.30	521	67.47	586	96.08	647	126.85	705	159.36	761	194.13	814	229.78				
85000	2775	472	47.31	537	73.57	599	102.94	658	134.97	714	168.60	768	204.16	819	240.63	869	279.08		
90000	2938	492	52.99	554	80.34	613	110.38	670	143.52	724	178.26	776	214.62	826	252.51	874	291.60	921	332.36
95000	3102	513	59.41	572	87.83	628	118.53	683	152.66	735	188.40	785	225.58	833	263.92	880	304.29	926	346.50
100000	3265	533	65.92	590	95.65	644	127.50	696	161.82	747	199.11	795	237.08	842	276.86	888	318.51	932	360.91
105000	3428	554	73.24	608	103.83	660	136.75	710	171.79	759	209.72	807	250.09	852	290.47	896	332.36	939	375.80
110000	3591	575	81.07	627	112.95	677	146.91	725	182.69	772	221.14	818	261.99	863	304.79	905	346.91	947	391.48
115000	3754	597	89.85	646	122.55	694	157.41	741	194.63	786	233.52	831	275.70	874	318.84	916	363.45	956	407.98

CFM	OV	20" SP		22" SP		24" SP		26" SP		27" SP		28" SP		29" SP		30" SP		31" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
95000	3102	970	389.01	1014	434.30														
100000	3265	975	404.73	1017	449.69	1058	495.90												
105000	3428	981	420.80	1022	466.95	1062	514.01	1101	562.04										
110000	3591	988	437.40	1027	483.24	1066	531.27	1105	581.53	1124	606.79	1142	630.98	1161	657.44				
115000	3754	996	454.90	1034	501.49	1072	550.51	1109	600.14	1128	626.54	1146	651.80	1164	677.63	1182	704.02	1200	730.98
120000	3918	1004	471.95	1042	520.77	1079	570.44	1115	620.89	1133	646.90	1151	673.42	1169	700.43	1186	726.14	1204	754.22
125000	4081	1014	491.39	1051	541.11	1087	591.49	1122	642.44	1139	667.88	1157	695.66	1174	722.17	1191	749.08	1208	776.49
130000	4244	1024	510.46	1060	561.03	1095	612.07	1130	665.24	1147	691.78	1164	718.85	1180	744.61	1197	772.77	1214	801.48
135000	4407	1035	530.62	1070	582.09	1105	635.57	1138	687.56	1155	715.23	1171	741.53	1188	770.25	1204	797.54	1220	825.37
140000	4571	1047	552.08	1081	604.39	1115	658.65	1148	713.05	1164	740.03	1180	767.48	1196	795.39	1212	823.82	1227	850.66
145000	4734	1059	573.37	1092	626.37	1125	681.30	1157	736.22	1173	764.36	1189	792.96	1205	822.07	1220	849.57	1236	879.63
150000	4897	1071	594.57	1104	649.83	1136	705.34	1168	762.76	1183	790.18	1199	820.01	1214	848.24	1229	876.88	1244	905.94
152500	4979	1077	605.16	1110	661.51	1142	718.20	1173	774.90	1189	804.92	1204	833.34	1219	862.17	1234	891.42	1249	921.08
155000	5060	1084	617.43	1116	673.18	1148	731.01	1179	788.93	1194	817.55	1209	846.58	1224	875.98	1239	905.84	1254	936.11
157500	5142	1091	629.75	1122	684.81	1154	743.80	1184	800.87	1199	830.03	1214	859.65	1229	889.70	1244	920.14	1259	951.03
160000	5224	1098	642.13	1129	698.31	1160	756.54	1190	814.77	1205	844.53	1220	874.78	1235	905.45	1249	934.35	1264	965.85

CFM	OV	32" SP		33" SP		34" SP		35" SP		36" SP		37" SP		38" SP		39" SP		40" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
130000	4244	1230	828.64	1246	856.21	1263	886.31	1279	914.77	1295	943.74	1311	973.21	1326	1000.89	1342	1031.33	1358	1062.32
135000	4407	1236	853.72	1252	882.56	1268	911.87	1284	941.58	1299	969.50	1315	1000.10	1330	1028.87	1346	1060.43		
140000	4571	1243	880.06	1259	910.01	1274	938.32	1289	967.05	1305	998.52	1320	1028.11	1335	1058.10	1350	1088.46		
145000	4734	1251	908.04	1266	936.92	1281	966.23	1296	996.05	1311	1026.33	1326	1057.15	1340	1085.99	1355	1117.63		
150000	4897	1259	935.47	1274	965.42	1289	995.89	1304	1026.80	1318	1055.81	1333	1087.68	1347	1117.58				
152500	4979	1264	951.22	1279	981.79	1293	1010.49	1308	1041.97	1322	1071.52	1336	1101.49	1351	1134.41				
155000	5060	1268	964.58	1283	995.72	1297	1024.97	1312	1057.03	1326	1087.13	1340	1117.66	1354	1148.57				
157500	5142	1273	980.09	1288	1011.85	1302	1041.69	1316	1071.93	1330	1102.55	1344	1133.63	1358	1165.15				
160000	5224	1278	995.48	1292	1025.48	1307	1058.30	1321	1089.11	1335	1120.37	1348	1149.50						
162500	5305	1283	1010.74	1297	1041.34	1311	1072.34	1325	1103.71	1339	1135.54	1353	1167.75						
165000	5387	1288	1025.90	1302	1057.08	1316	1088.69	1330	1120.66	1344	1153.10	1357	1183.31						
167500	5468	1294	1043.31	1307	1072.72	1321	1104.90	1335	1137.53	1348	1167.95								
170000	5550	1299	1058.22	1313	1090.67	1326	1121.02	1340	1154.23	1353	1185.24								
172500	5632	1304	1073.02	1318	1106.06	1332	1139.52	1345	1170.79	1358	1202.44								
175000	5713	1310	1090.19	1323	1121.32	1337	1155.39	1350	1187.26										
177500	5795	1316	1107.31	1329	1139.03	1342	1171.12	1355	1203.57										

Underlined numbers indicate maximum static efficiency.

Performance is for BCS with outlet duct and with or without inlet duct.

BHP is a fan shaft brake horsepower and does not include belt drive losses.

Max. RPM	Design 14 663	Design 17 804	Design 22 1041	Design 26 1230
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807 BCSOutlet Area: 37.49 ft²

Wheel Diameter.: 80.75"

Tip Speed (FPM): 21.14 x RPM

CFM	OV	2" SP		4" SP		6" SP		8" SP		10" SP		12" SP		14" SP		16" SP		18" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
50000	1334	295	19.91	394	41.94														
55000	1467	304	22.09	397	44.89														
60000	1600	313	24.24	402	48.21														
65000	1734	324	26.89	409	52.08	484	80.15												
70000	1867	335	29.63	416	55.81	488	84.82	556	117.52										
75000	2001	348	33.04	424	59.78	494	90.22	559	123.59										
80000	2134	360	36.32	433	64.10	500	95.42	563	129.89	622	166.59								
85000	2267	373	40.06	443	68.84	508	101.60	568	136.45	625	174.05								
90000	2401	387	44.33	453	73.64	516	107.61	574	143.49	629	181.83	682	222.79						
95000	2534	401	48.86	464	79.03	525	114.13	581	151.06	634	189.99	685	231.51	735	276.04				
100000	2667	415	53.66	476	85.11	534	120.59	589	159.21	640	198.79	690	241.67	738	286.50	784	332.78		
105000	2801	430	59.14	488	91.37	544	127.73	597	167.18	647	208.29	695	251.41	741	296.35	787	344.91		
110000	2934	445	64.95	501	98.41	554	134.94	606	175.86	655	218.55	701	261.93	746	307.94	790	356.46	833	407.03
115000	3067	460	71.09	513	105.08	565	143.01	615	184.47	663	228.61	708	273.32	752	320.43	794	368.65	836	420.22
120000	3201	475	77.58	527	113.23	576	151.26	625	193.98	671	238.46	715	284.46	758	332.64	800	383.09	840	434.23
125000	3334	490	84.43	540	121.02	588	160.50	635	203.57	680	249.25	723	296.53	765	345.87	806	397.25	845	449.09

CFM	OV	20" SP		22" SP		24" SP		26" SP		27" SP		28" SP		29" SP		30" SP		31" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
115000	3067	876	472.01																
120000	3201	880	488.46	918	542.46														
125000	3334	883	502.55	921	558.84	958	616.41												
130000	3468	888	519.26	925	576.36	961	634.35	996	693.26	1014	724.91								
135000	3601	893	535.45	929	593.07	964	651.56	999	712.72	1016	743.29	1033	774.61	1050	806.69				
140000	3734	899	553.09	934	611.00	968	669.93	1002	731.41	1019	763.16	1036	795.59	1052	826.40	1068	857.86	1085	892.50
145000	3868	906	572.28	940	630.54	973	689.58	1006	751.44	1023	784.46	1039	815.77	1055	847.72	1071	880.28	1087	913.54
150000	4001	912	589.22	946	649.73	979	710.99	1011	772.84	1027	804.81	1043	837.44	1059	870.63	1075	904.44	1090	936.31
155000	4134	920	609.72	953	670.63	985	732.03	1017	796.13	1032	826.82	1048	860.60	1063	892.62	1078	925.16	1094	960.82
160000	4268	927	627.90	960	691.19	991	752.69	1022	816.64	1038	850.83	1053	883.25	1068	916.29	1083	950.02	1098	984.38
165000	4401	936	649.84	967	711.40	998	775.23	1029	841.57	1044	874.45	1059	907.99	1074	942.15	1088	974.28	1103	1009.74
170000	4535	944	669.51	975	733.46	1006	799.81	1036	866.16	1050	897.66	1065	932.31	1079	964.93	1094	1000.84	1108	1034.64
175000	4668	953	691.13	983	755.23	1013	821.65	1043	890.37	1057	923.03	1072	958.89	1086	992.67	1100	1027.01	1114	1061.89
180000	4801	962	712.66	992	779.08	1021	845.54	1050	914.20	1064	948.03	1079	985.13	1093	1020.05	1106	1052.72	1120	1088.73
185000	4935	971	734.15	1001	802.86	1030	871.71	1058	940.26	1072	975.34	1086	1010.91	1100	1047.07	1113	1080.85	1127	1118.06
190000	5068	981	757.94	1010	826.52	1038	895.13	1066	966.02	1080	1002.30	1094	1039.14	1107	1073.67	1121	1111.57	1134	1147.04

CFM	OV	32" SP		33" SP		34" SP		35" SP		36" SP		37" SP		38" SP		39" SP		40" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
150000	4001	1105	968.75	1121	1004.48	1136	1038.21	1151	1072.56	1166	1107.62								
155000	4134	1109	994.48	1124	1028.69	1139	1063.53	1154	1098.97	1168	1132.15	1183	1168.92	1197	1203.33	1211	1238.33		
160000	4268	1113	1019.29	1127	1052.00	1142	1088.00	1157	1124.62	1171	1158.89	1185	1193.72	1200	1232.16	1214	1268.21	1228	1304.89
165000	4401	1117	1043.09	1132	1079.88	1146	1114.33	1160	1149.27	1174	1184.71	1188	1220.64	1202	1257.17	1216	1294.23	1230	1331.93
170000	4535	1122	1069.03	1136	1103.99	1150	1139.61	1164	1175.84	1178	1212.52	1192	1249.72	1206	1287.50	1219	1322.53		
175000	4668	1128	1097.40	1142	1133.47	1156	1170.22	1169	1204.47	1183	1242.40	1196	1277.76	1210	1316.81	1223	1353.08		
180000	4801	1134	1125.33	1148	1162.60	1161	1197.34	1174	1232.62	1188	1271.65	1201	1308.02	1214	1345.02	1227	1382.56		
185000	4935	1140	1152.84	1154	1191.22	1167	1227.07	1180	1263.45	1193	1300.37	1206	1337.79	1219	1375.84				
190000	5068	1147	1182.94	1160	1219.39	1173	1256.36	1186	1293.81	1199	1331.86	1212	1370.41	1225	1409.59				
195000	5201	1154	1212.67	1167	1250.31	1180	1288.42	1193	1327.07	1205	1362.92	1218	1402.62						
200000	5335	1162	1245.15	1174	1280.73	1187	1320.11	1200	1359.96	1212	1396.92	1224	1434.31						
205000	5468	1169	1274.00	1182	1314.07	1194	1351.28	1207	1392.36	1219	1430.48								
210000	5601	1177	1305.75	1190	1347.09	1202	1385.53	1214	1424.33	1226	1463.64								
215000	5735	1186	1340.51	1198	1379.69	1210	1419.34	1222	1459.45										
220000	5868	1194	1371.72	1206	1412.04	1218	1452.86	1230	1494.11										
225000	6002	1203	1406.20	1215	1447.70	1226	1486.03												

Underlined numbers indicate maximum static efficiency.

Performance is for BCS with outlet duct and with or without inlet duct.

BHP is a fan shaft brake horsepower and does not include belt drive losses.

Max. RPM

Design 14
602Design 17
730Design 22
944Design 26
1116**890 BCS**Outlet Area: 45.54 ft²

Wheel Diameter.: 89.00"

Tip Speed (FPM): 23.30 x RPM

CFM	OV	2" SP		4" SP		6" SP		8" SP		10" SP		12" SP		14" SP		16" SP		18" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
70000	1537	280	28.18	363	56.89														
75000	1647	288	30.73	367	60.25	438	94.21												
80000	1757	296	33.33	372	63.97	440	98.53												
85000	1866	304	36.02	377	67.55	443	103.19												
90000	1976	313	39.15	384	72.11	447	108.26	506	148.22										
95000	2086	323	42.79	390	76.03	452	113.91	509	154.64										
100000	2196	332	46.16	397	80.49	457	119.41	513	161.61	565	205.98								
105000	2306	342	50.09	405	85.59	463	125.54	517	168.33	568	214.09	617	262.93						
110000	2415	352	54.20	412	90.10	469	131.54	521	174.84	571	221.77	619	271.74						
115000	2525	363	58.98	421	96.03	475	137.43	527	183.19	575	230.24	622	281.47	666	333.42				
120000	2635	374	64.02	429	101.41	482	144.12	532	190.34	580	239.72	625	290.73	668	343.56				
125000	2745	384	68.77	438	107.63	490	151.73	538	198.38	584	247.76	629	300.95	671	354.81	713	413.03		
130000	2855	396	74.85	447	114.01	497	158.46	545	207.40	590	258.15	633	310.93	674	365.53	715	424.49	754	484.23
135000	2964	407	80.65	457	121.34	505	166.22	551	215.21	595	267.03	638	322.17	678	377.40	718	437.20	756	497.35
140000	3074	418	86.72	466	128.07	513	174.09	558	224.13	601	277.06	643	333.20	682	389.03	721	449.32	759	511.97
145000	3184	429	93.07	476	135.81	522	183.15	566	234.28	608	288.34	648	343.98	687	402.14	725	462.86	762	526.07

CFM	OV	20" SP		22" SP		24" SP		26" SP		27" SP		28" SP		29" SP		30" SP		31" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
140000	3074	795	574.43																
145000	3184	798	590.93	833	657.43														
150000	3294	800	604.65	835	673.39	869	743.65												
155000	3404	803	619.97	837	688.77	870	758.62	903	832.27										
160000	3513	807	636.99	840	705.96	873	778.28	905	851.43	920	886.52	936	925.43						
165000	3623	811	653.74	844	725.02	875	794.62	907	870.07	922	906.20	938	946.15	953	984.06	968	1022.84		
170000	3733	816	672.62	847	741.02	879	815.71	909	888.02	925	928.25	940	966.38	955	1005.31	969	1041.89	984	1082.55
175000	3843	820	688.76	852	761.95	882	833.37	912	908.15	927	946.64	942	985.89	957	1025.96	971	1063.59	986	1105.33
180000	3953	826	709.69	856	779.94	886	853.48	916	930.54	930	967.32	945	1007.83	959	1045.90	974	1088.00	988	1127.55
185000	4062	831	727.78	861	800.34	891	876.22	920	952.54	934	990.36	948	1029.02	962	1068.36	976	1108.33	990	1149.04
190000	4172	836	745.57	866	820.48	895	895.70	924	974.16	938	1013.09	952	1052.79	966	1093.34	980	1134.73	993	1173.21
195000	4282	842	765.76	872	843.17	900	917.85	928	995.46	942	1035.43	956	1076.22	970	1117.86	983	1156.83	997	1200.15
200000	4392	848	785.70	877	862.72	905	939.68	933	1019.63	947	1060.78	960	1099.32	974	1142.07	987	1182.10	1000	1222.82
205000	4502	855	808.28	883	884.91	911	964.38	938	1043.50	951	1082.43	965	1125.52	978	1165.86	991	1206.95	1004	1248.80
210000	4611	861	827.86	889	906.85	916	985.62	943	1067.07	957	1110.59	970	1151.42	983	1192.91	996	1235.18	1008	1274.34
215000	4721	868	850.25	895	928.59	922	1009.76	949	1093.71	962	1135.03	975	1176.99	988	1219.70	1000	1259.31	1013	1303.38

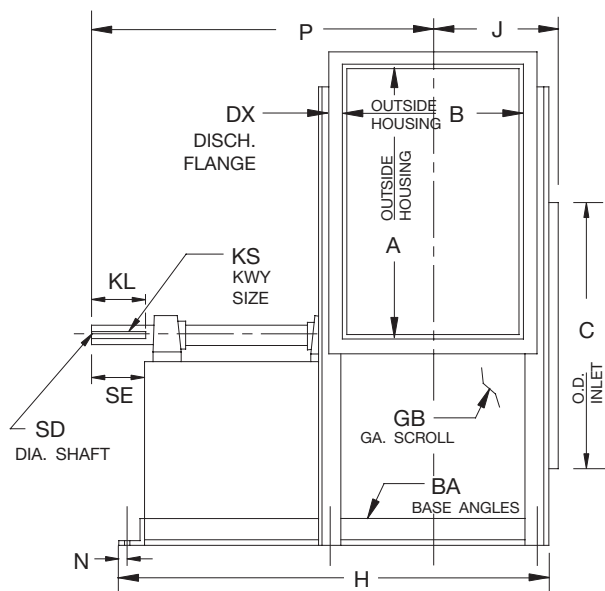
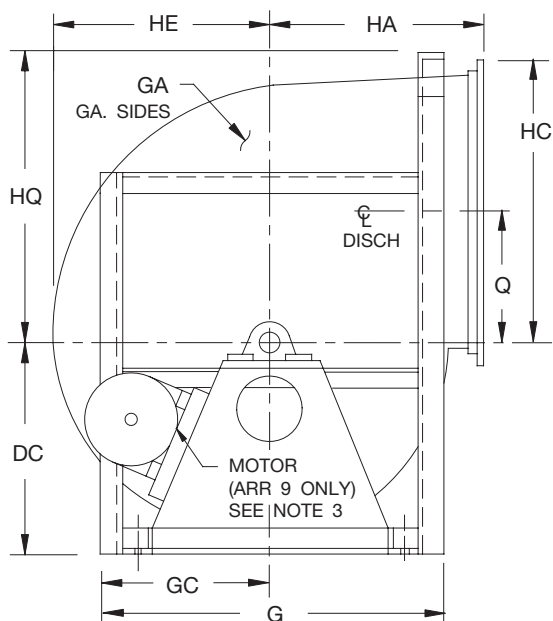
CFM	OV	32" SP		33" SP		34" SP		35" SP		36" SP		37" SP		38" SP		39" SP		40" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
175000	3843	1000	1144.57	1014	1184.64														
180000	3953	1002	1167.82	1016	1208.92	1030	1250.81	1044	1293.57										
185000	4062	1004	1190.44	1018	1232.61	1032	1275.58	1045	1315.62	1059	1360.24	1072	1401.83						
190000	4172	1007	1215.88	1021	1259.30	1034	1299.74	1047	1340.84	1061	1386.51	1074	1429.12	1087	1472.50	1100	1516.61		
195000	4282	1010	1240.53	1023	1281.50	1037	1326.92	1050	1369.18	1063	1412.17	1076	1455.81	1089	1500.24	1101	1541.19	1114	1587.06
200000	4392	1013	1264.35	1026	1306.61	1039	1349.42	1052	1392.86	1065	1437.01	1078	1481.80	1091	1527.31	1103	1569.29	1116	1616.24
205000	4502	1017	1291.35	1030	1334.68	1043	1378.87	1055	1419.66	1068	1465.05	1081	1511.12	1093	1553.62	1106	1601.04		
210000	4611	1021	1317.98	1034	1362.46	1046	1403.67	1059	1449.64	1071	1492.25	1084	1539.65	1096	1583.33	1108	1627.64		
215000	4721	1026	1348.21	1038	1389.80	1050	1432.06	1063	1479.15	1075	1522.83	1087	1567.15	1099	1612.19	1111	1657.71		
220000	4831	1030	1374.13	1042	1416.79	1055	1464.27	1067	1508.27	1079	1553.03	1091	1598.42	1103	1644.60	1114	1686.90		
230000	5051	1040	1432.91	1052	1477.84	1064	1523.49	1076	1569.74	1087	1612.24	1099	1659.82	1110	1703.52				
240000	5270	1051	1494.47	1062	1537.50	1074	1585.46	1085	1629.60	1097	1678.87	1108	1724.19						
250000	5490	1062	1554.69	1074	1604.57	1085	1650.56	1096	1697.09	1107	1744.08								
260000	5709	1074	1618.09	1085	1665.89	1096	1714.19	1107	1763.14										
270000	5929	1087	1685.21	1098	1735.40	1109	1786.14												
280000	6148	1100	1752.03	1111	1804.44														

Underlined numbers indicate maximum static efficiency.

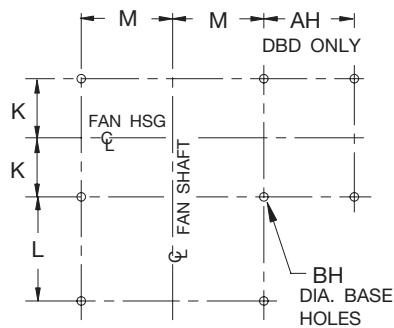
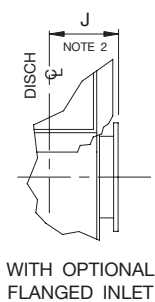
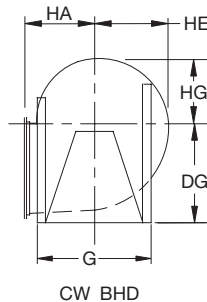
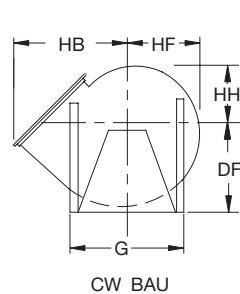
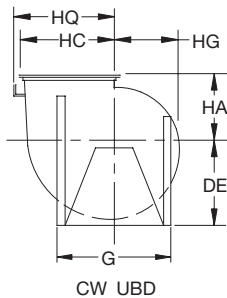
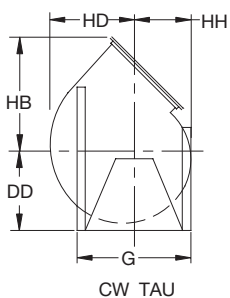
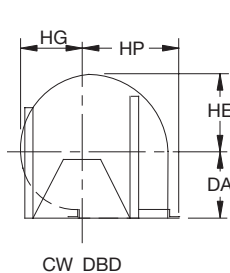
Performance is for BCS with outlet duct and with or without inlet duct.

BHP is a fan shaft brake horsepower and does not include belt drive losses.

Arrangements 1 & 9, Class 14



CW THD



FOUNDATION PLAN
(FOR DBD SEE NOTE 1)
MOTOR LOCATION 'L' (LEFT) SHOWN

SIZE	A	AH	B	BA	BH	C	DA		DC		DD		DE		DF		DG	
							ARR 1	ARR 9	ARR 1	ARR 9	ARR 1	ARR 9	ARR 1	ARR 9	ARR 1	ARR 9	ARR 1	ARR 9
							SEE NOTE 4											
165	17.44	9.75	13.19	1.50 x 2.00	0.44	17.75	13.13	20.00	13.50	20.00	14.50	20.00	15.25	20.00	16.25	20.00	19.50	20.00
182	19.38	10.81	14.56	1.50 x 2.00	0.44	19.50	14.50	23.00	14.75	23.00	15.75	23.00	16.75	23.00	17.75	23.00	22.00	23.00
200	21.19	11.63	15.94	1.50 x 2.00	0.56	21.38	15.81	23.00	16.25	23.00	17.25	23.00	18.25	23.00	19.25	23.00	24.00	23.00
222	23.56	12.88	17.69	2.00 x 2.00	0.56	23.75	17.69	23.00	18.00	23.00	19.25	23.00	20.50	23.00	22.00	23.00	26.50	25.50
245	25.94	14.13	19.44	2.00 x 2.00	0.56	26.06	19.50	23.00	20.00	23.00	21.25	23.00	22.50	23.00	24.00	23.00	28.75	28.00
270	28.63	15.56	21.38	2.00 x 2.00	0.56	28.50	21.44	26.00	22.00	26.00	23.50	26.00	24.75	26.00	26.25	26.00	31.50	30.50
300	31.81	17.25	23.81	2.50 x 2.50	0.56	31.63	26.75	26.75	26.75	26.75	26.75	26.75	28.50	28.50	30.00	30.00	35.50	35.50
330	35.13	19.06	26.06	2.50 x 2.50	0.56	34.75	30.00	30.00	30.00	30.00	30.00	30.00	31.00	31.00	32.75	32.75	39.00	39.00
365	38.69	21.13	28.88	2.50 x 2.50	0.56	38.50	29.00	29.00	29.50	29.50	31.50	31.50	33.50	33.50	35.50	35.50	41.00	41.00
402	42.63	23.31	31.81	3.00 x 3.00	0.81	42.44	32.00	32.00	33.00	33.00	35.25	35.25	37.00	37.00	39.50	39.50	45.50	45.50
445	47.13	25.81	35.19	3.00 x 3.00	0.81	46.88	35.38	35.38	35.50	35.50	38.50	38.50	40.00	40.00	43.25	43.25	50.00	50.00
490	51.94	28.13	38.63	3.00 x 3.00	0.81	51.63	39.00	39.00	39.00	39.00	42.25	42.25	44.00	44.00	47.50	47.50	54.75	54.75
542	57.38	31.81	42.88	3.00 x 4.00	0.81	57.13	43.06	43.06	43.50	43.50	46.50	46.50	49.00	49.00	52.25	52.25	60.25	60.25
600	63.50	34.94	47.31	3.00 x 4.00	0.81	63.13	47.69	47.69	48.00	48.00	51.25	51.25	54.00	54.00	57.50	57.50	66.25	66.25
660	69.69	39.13	52.19	3.50 x 5.00	0.81	69.38	52.44	52.44	52.50	52.50	55.75	55.75	59.00	59.00	63.00	63.00	73.25	73.25
730	77.25	42.63	57.56	3.50 x 5.00	0.81	76.75	58.00	58.00	57.00	57.00	61.75	61.75	64.50	64.50	69.50	69.50	80.75	80.75
807	85.44	47.06	63.63	3.50 x 5.00	0.81	84.88	64.19	64.19	63.00	63.00	67.50	67.50	72.00	72.00	76.50	76.50	89.00	89.00
890	94.13	50.25	70.13	3.50 x 5.00	0.81	93.38	70.00	70.00	69.25	69.25	73.75	73.75	78.25	78.25	85.00	85.00	97.75	97.75

SIZE	DX	FR ARR 9	G	GA	GB	GC	H		HA	HB	HC	HD	HE	HF	HG	HH	HP	HQ	J
							ARR 1	ARR 9											
165	1.00 x 1.00	215T	24.25	14	14	12.13	29.25	36.63	13.13	22.25	18.38	18.38	14.13	13.31	12.50	11.69	19.38	-	8.88
182	1.25 x 1.25	254T	26.00	12	14	13.00	31.63	42.38	14.50	24.81	20.56	20.56	15.69	14.75	13.81	12.88	21.31	-	9.63
200	1.25 x 1.25	254T	28.00	12	14	14.00	34.00	43.75	15.81	27.00	22.38	22.38	17.31	16.25	15.19	14.13	23.13	-	10.25
222	1.25 x 1.25	256T	31.25	12	14	15.63	38.25	45.25	17.69	30.00	24.75	24.75	19.06	17.94	16.81	15.69	25.50	-	12.00
245	1.25 x 1.25	256T	33.50	12	14	16.75	41.50	47.00	19.50	33.00	27.13	27.13	21.00	19.75	18.50	17.25	27.88	-	12.88
270	1.50 x 1.50	284T	36.00	12	14	18.00	45.38	51.75	21.44	36.44	30.06	30.06	23.19	21.81	20.44	19.06	30.56	-	13.81
300	1.50 x 1.50	286T	41.00	10	12	20.50	55.75	55.75	23.81	40.31	33.25	33.25	25.75	24.25	22.75	21.25	34.25	-	15.50
330	1.50 x 1.50	324T	44.00	10	12	22.00	60.63	60.63	26.25	44.44	36.56	36.56	28.38	26.69	25.00	23.31	37.56	-	16.63
365	1.50 x 1.50	324T	48.00	10	12	24.00	63.38	63.38	29.00	48.88	40.13	40.13	31.50	29.63	27.75	25.88	41.13	-	18.00
402	1.50 x 1.50	326T	52.50	10	12	26.25	67.88	67.88	32.00	53.81	44.06	44.06	34.69	32.63	30.56	28.50	45.56	-	20.00
445	1.50 x 1.50	364T	56.50	10	12	28.25	72.88	72.88	35.38	59.38	48.56	48.56	38.25	36.00	33.75	31.50	50.06	-	21.69
490	2.00 x 2.00	364T	61.50	10	12	30.75	76.63	76.63	39.00	65.69	53.88	53.88	42.19	39.69	37.19	34.69	54.88	-	23.38
542	2.00 x 2.00	404T	67.00	10	12	33.50	87.50	87.50	43.06	72.38	59.31	59.31	46.69	43.94	41.19	38.44	61.31	59.75	26.50
600	2.00 x 2.00	404T	73.00	10	12	36.50	91.75	91.75	47.69	80.00	65.44	65.44	51.69	48.63	45.56	42.50	67.44	65.75	28.75
660	2.50 x 2.50	405T	80.00	10	12	40.00	101.25	101.25	52.44	88.06	72.13	72.13	56.81	53.38	49.94	46.50	74.63	72.25	32.19
730	2.50 x 2.50	405T	88.00	10	10	44.00	109.63	109.63	58.00	97.31	79.63	79.63	62.88	59.13	55.38	51.63	82.13	79.75	34.94
807	2.50 x 2.50	405T	95.50	10	10	47.75	118.63	118.63	64.19	107.50	87.81	87.81	69.50	65.38	61.25	57.13	90.31	87.75	37.81
890	2.50 x 2.50	405T	106.50	7	10	53.25	128.13	128.13	70.00	117.75	96.50	96.50	76.63	72.06	67.50	62.94	99.00	96.50	41.06

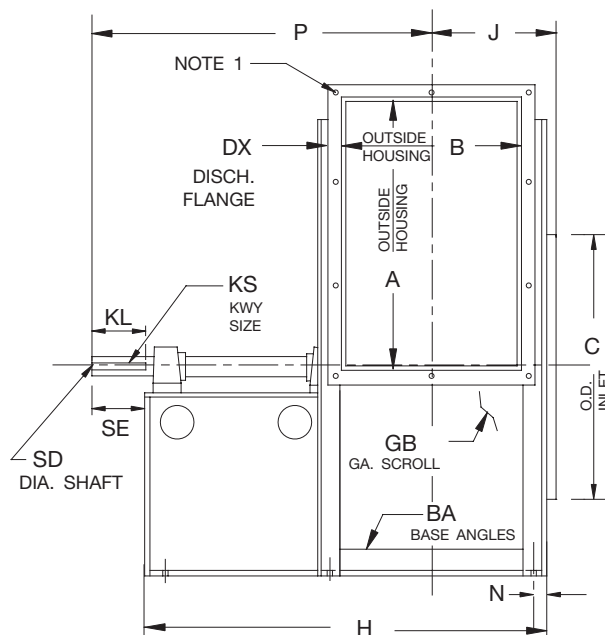
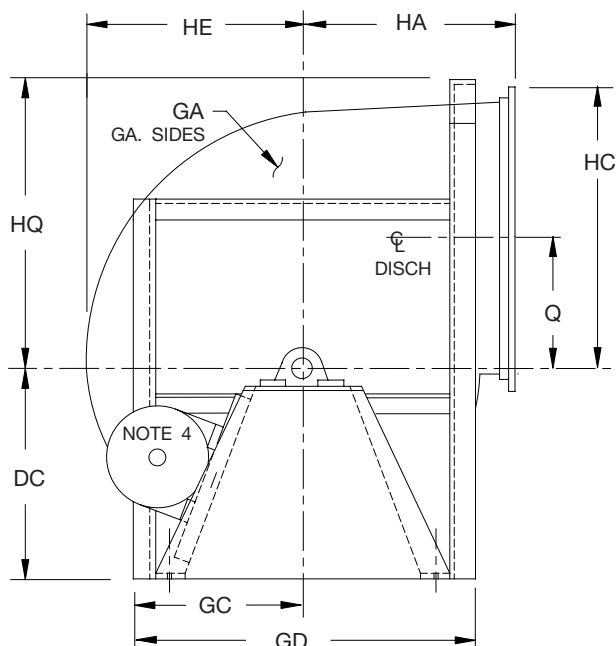
SIZE	K	KL	KS	L		M	N	P		Q	SD	SE
				ARR 1	ARR 9			ARR 1	ARR 9			
165	7.50	3.00	0.25 x 0.13	12.50	19.88	8.75	0.88	22.38	29.75	8.69	1.19	3.75
182	8.19	3.50	0.38 x 0.19	13.50	24.25	9.63	0.88	24.56	35.31	9.63	1.44	4.25
200	8.88	3.50	0.38 x 0.19	14.50	24.25	10.63	0.88	26.25	36.00	10.56	1.44	4.25
222	10.00	4.00	0.38 x 0.19	16.50	23.50	11.75	0.88	30.13	37.13	11.75	1.69	4.75
245	10.88	4.50	0.50 x 0.25	18.00	23.50	12.88	0.88	33.00	38.50	12.94	1.94	5.25
270	11.81	4.50	0.50 x 0.25	20.00	26.38	14.13	0.88	35.94	42.31	14.25	1.94	5.25
300	13.31	5.00	0.50 x 0.25	26.88	26.88	15.88	1.13	44.56	44.56	15.81	2.19	5.75
330	14.44	5.00	0.50 x 0.25	29.50	29.50	17.38	1.13	48.31	48.31	17.50	2.19	5.75
365	15.81	5.00	0.63 x 0.31	29.50	29.50	18.88	1.13	49.69	49.69	19.25	2.44	5.75
402	17.56	5.00	0.63 x 0.31	30.00	30.00	20.88	1.38	51.69	51.69	21.25	2.44	5.75
445	19.25	5.50	0.63 x 0.31	31.63	31.63	22.88	1.38	55.50	55.50	23.50	2.69	6.25
490	20.94	5.50	0.75 x 0.38	32.00	32.00	25.38	1.38	57.56	57.56	25.88	2.94	6.25
542	23.56	6.00	0.88 x 0.44	36.63	36.63	27.63	1.88	64.81	64.81	28.63	3.44	6.75
600	25.81	6.00	0.88 x 0.44	36.38	36.38	30.63	1.88	66.81	66.81	31.69	3.44	6.75
660	28.75	7.00	1.00 x 0.50	39.00	39.00	33.13	2.38	72.88	72.88	34.75	3.94	7.75
730	31.44	7.50	1.00 x 0.50	42.00	42.00	37.13	2.38	79.06	79.06	38.50	3.94	8.25
807	34.44	8.00	1.00 x 0.50	45.00	45.00	40.88	2.38	85.81	85.81	42.63	4.44	9.00
890	37.69	8.00	1.25 x 0.63	48.00	48.00	46.38	2.38	92.06	92.06	46.94	4.94	9.00

AC17014D

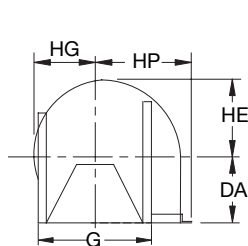
NOTES:

1. Punched outlet flanges are included on all discharges per AC14987, or for 'DBD' AC14868.
2. Optional punched inlet per AS363.
3. 'CW' rotation is shown. 'CCW' rotation is similar but opposite.
4. For fans with inlet box at 90° or 270° use 'BAU' discharge dimension 'DF' for centerline height.
5. 'FR' equals maximum motor frame.

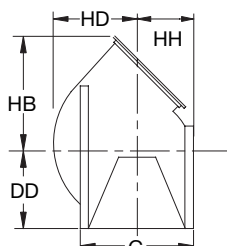
Arrangements 1 & 9, Class 17



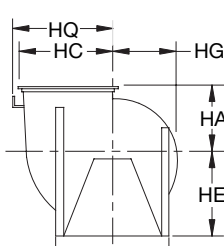
CW THD



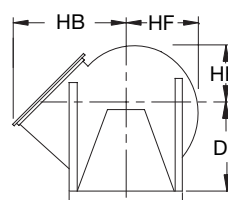
CW DBD



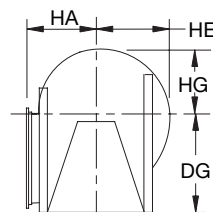
CW TAU



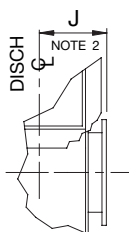
CW UBD



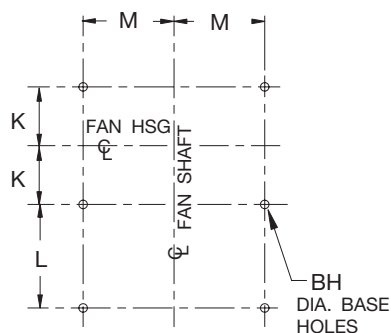
CW BAU



CW BHD



WITH OPTIONAL
FLANGED INLET



FOUNDATION PLAN
(FOR DBD SEE NOTE 1)

SIZE	A	B	BA	BH	C	DA		DC		DD		DE		DF		DG	
						ARR 1	ARR 9	ARR 1	ARR 9	ARR 1	ARR 9	ARR 1	ARR 9				
						SEE NOTE 4 FOR ARRANGEMENT 1								ARR 1	ARR 9	ARR 1	ARR 9
165	17.56	13.31	1.50 x 2.00	0.44	17.75	13.13	23.75	13.50	23.75	14.50	23.75	15.25	23.75	16.25	23.75	19.50	23.75
182	19.50	14.63	2.00 x 2.00	0.56	19.50	14.50	26.25	14.75	26.25	15.75	26.25	16.75	26.25	17.75	26.25	22.00	26.25
200	21.31	16.00	2.00 x 2.00	0.56	21.38	15.81	29.50	16.25	29.50	17.25	29.50	18.25	29.50	19.25	29.50	24.00	29.50
222	23.69	17.75	2.50 x 2.50	0.56	23.75	17.69	30.00	18.00	30.00	19.25	30.00	20.50	30.00	22.00	30.00	26.50	30.00
245	26.19	19.63	2.50 x 2.50	0.56	26.06	19.50	30.25	20.00	30.25	21.25	30.25	22.50	30.25	24.00	30.25	28.75	30.25
270	28.88	21.56	2.50 x 2.50	0.56	28.50	21.44	33.00	22.00	33.00	23.50	33.00	24.75	33.00	26.25	33.00	31.50	33.00
300	32.00	23.94	3.00 x 3.00	0.81	31.63	23.81	33.50	24.50	33.50	26.00	33.50	27.50	33.50	29.50	33.50	34.75	34.75
330	35.31	26.19	3.00 x 3.00	0.81	34.75	26.25	37.75	27.00	37.75	28.50	37.75	30.00	37.75	32.25	37.75	37.75	37.75
365	38.88	29.00	3.00 x 3.00	0.81	38.50	29.00	37.75	29.50	37.75	31.50	37.75	33.50	37.75	35.50	37.75	41.50	41.50
402	42.81	31.94	3.00 x 4.00	0.81	42.44	32.00	40.25	33.00	40.25	35.25	40.25	37.00	40.25	39.50	40.25	45.50	45.50
445	47.31	35.31	3.00 x 4.00	0.81	46.88	35.38	41.00	35.50	41.00	38.50	41.00	40.00	41.00	43.25	43.25	50.00	50.00
490	52.13	38.75	3.00 x 4.00	0.81	51.63	39.00	41.00	39.00	41.00	42.25	42.25	44.00	44.00	47.50	47.50	54.75	54.75
542	57.56	43.00	3.50 x 5.00	0.81	57.13	43.06	43.06	43.50	43.50	46.50	46.50	49.00	49.00	52.25	52.25	60.75	60.75
600	63.69	47.44	3.50 x 5.00	0.81	63.13	47.69	47.69	48.00	48.00	51.25	51.25	54.00	54.00	57.50	57.50	66.75	66.75
660	69.88	52.31	4.00 x 6.00	0.81	69.38	52.44	52.44	52.50	52.50	55.75	55.75	59.00	59.00	63.00	63.00	73.75	73.75
730	77.38	57.69	4.00 x 6.00	0.81	76.75	58.00	58.00	57.00	57.00	61.75	61.75	64.50	64.50	69.50	69.50	81.25	81.25
807	85.56	63.75	4.00 x 6.00	0.81	84.88	64.19	64.19	63.00	63.00	67.50	67.50	72.00	72.00	76.50	76.50	89.50	89.50
890	94.25	70.13	4.00 x 6.00	0.81	93.38	70.00	70.00	69.25	69.25	73.75	73.75	78.25	78.25	85.00	85.00	98.25	98.25

SIZE	DX	FR ARR 9	G	GA	GB	GC	GD	H		HA	HB	HC	HD	HE	HF	HG	HH	HP	HQ
								ARR 1	ARR 9										
165	1.25 x 1.25	256T	24.25	10	10	12.13	23.13	27.88	41.13	13.13	22.50	18.69	15.13	14.19	13.38	12.56	11.75	19.44	-
182	1.25 x 1.25	286T	27.00	10	10	13.50	27.00	30.13	44.63	14.50	24.81	20.63	16.75	15.75	14.81	13.88	12.94	21.38	-
200	1.25 x 1.25	326T	29.00	10	10	14.50	29.00	32.50	47.50	15.81	27.06	22.44	18.38	17.38	16.31	15.25	14.19	23.19	-
222	1.25 x 1.25	326T	32.25	10	10	16.13	32.25	37.25	50.25	17.69	30.06	24.81	20.50	19.13	18.00	16.88	15.75	26.06	-
245	1.50 x 1.50	326T	34.50	7	7	17.25	34.50	40.63	52.13	19.50	33.25	27.50	22.50	21.13	19.88	18.63	17.38	28.50	-
270	1.50 x 1.50	365T	37.00	7	7	18.50	37.00	44.63	55.25	21.44	36.50	30.19	24.81	23.31	21.94	20.56	19.19	31.19	-
300	1.50 x 1.50	365T	42.00	7	7	21.00	42.00	49.50	58.63	23.81	40.38	33.31	27.50	25.81	24.31	22.81	21.31	34.81	-
330	1.50 x 1.50	405T	45.00	7	7	22.50	45.00	53.75	67.63	26.25	44.44	36.63	30.19	28.44	26.75	25.06	23.38	38.13	-
365	1.50 x 1.50	405T	49.00	7	7	24.50	49.00	58.00	70.38	29.00	48.94	40.19	33.63	31.56	29.69	27.81	25.94	41.69	-
402	2.00 x 2.00	405T	52.50	7	7	26.25	52.50	64.00	81.13	32.00	54.19	44.63	37.06	34.75	32.69	30.63	28.56	46.63	-
445	2.00 x 2.00	405T	56.50	7	7	28.25	56.50	70.38	84.50	35.38	59.75	49.13	41.00	38.31	36.06	33.81	31.56	51.13	-
490	2.00 x 2.00	405T	61.50	7	7	30.75	61.50	75.75	87.88	39.00	65.69	53.94	44.94	42.25	39.75	37.25	34.75	55.94	-
542	2.50 x 2.50	405T	67.00	7	7	33.50	67.00	82.00	93.75	43.06	72.81	59.88	49.88	46.75	44.00	41.25	38.50	62.38	59.75
600	2.50 x 2.50	405T	74.00	7	7	37.00	74.00	89.50	98.25	47.69	80.38	66.00	55.06	51.75	48.69	45.63	42.56	68.50	66.25
660	2.50 x 2.50	405T	80.00	7	7	40.00	80.00	98.38	105.13	52.44	88.13	72.19	60.50	56.88	53.44	50.00	46.56	75.69	72.38
730	2.50 x 2.50	405T	88.00	7	7	44.00	88.00	106.75	110.50	58.00	97.38	79.69	67.00	62.94	59.19	55.44	51.69	83.19	79.75
807	2.50 x 2.50	405T	96.50	7	7	48.25	96.50	115.75	116.50	64.19	107.50	87.88	74.13	69.56	65.44	61.31	57.19	91.38	88.38
890	2.50 x 2.50	405T	107.50	7	7	53.75	107.50	125.13	122.88	70.00	117.75	96.56	81.63	76.69	72.13	67.56	63.00	100.06	97.00

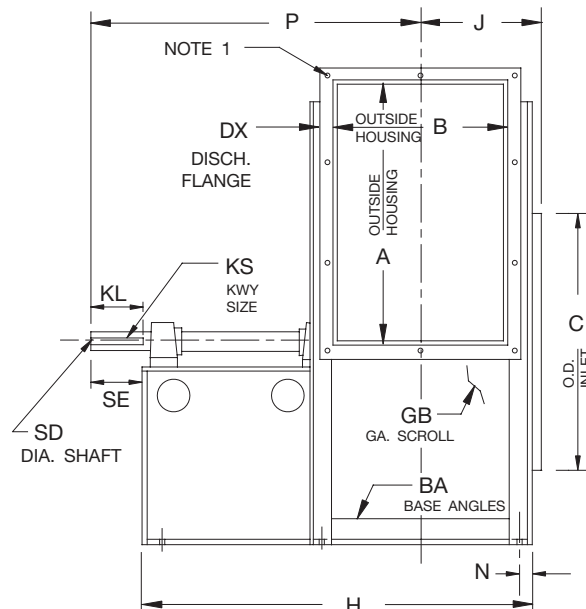
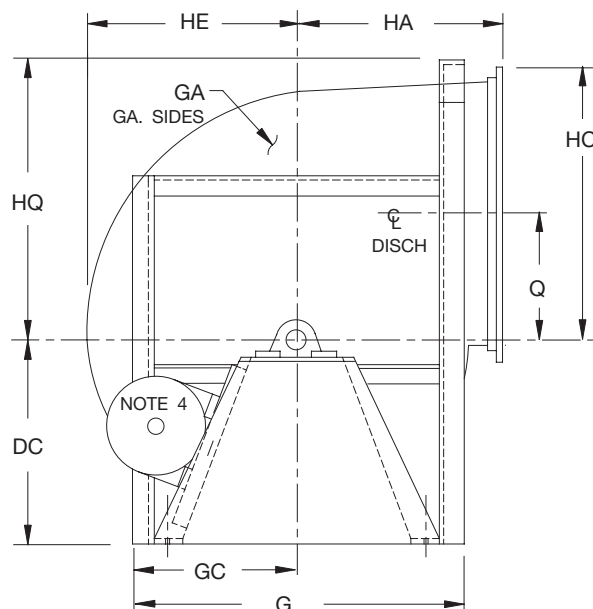
SIZE	J	K	KL		KS	L		M	N	P		Q	SD	SE	
			ARR 1	ARR 9		ARR 1	ARR 9			ARR 1	ARR 9			ARR 1	ARR 9
165	9.69	7.81	3.50	4.25	0.38 x 0.19	9.50	22.75	8.75	0.88	23.19	37.19	8.69	1.69	4.00	4.75
182	10.31	8.44	4.50	5.00	0.38 x 0.19	10.50	25.00	9.63	0.88	25.81	40.81	9.63	1.69	5.00	5.50
200	11.00	9.13	4.50	6.00	0.50 x 0.25	11.50	26.50	10.63	0.88	27.50	44.25	10.56	1.94	5.00	6.75
222	12.38	10.25	5.00	6.00	0.50 x 0.25	13.75	26.75	11.50	1.13	31.38	45.63	11.75	1.94	5.50	6.75
245	13.31	11.19	6.00	6.00	0.50 x 0.25	15.25	26.75	12.63	1.13	34.81	46.56	12.94	2.19	6.50	6.75
270	14.31	12.19	6.00	6.50	0.50 x 0.25	17.25	27.88	13.88	1.13	37.81	48.94	14.25	2.19	6.50	7.00
300	16.00	13.63	7.00	6.50	0.63 x 0.31	19.00	28.13	15.63	1.38	42.25	50.63	15.81	2.44	7.75	7.00
330	17.13	14.75	7.00	7.50	0.63 x 0.31	21.00	34.88	17.13	1.38	45.38	59.50	17.50	2.44	7.75	8.00
365	18.50	16.13	7.00	7.50	0.63 x 0.31	22.50	34.88	18.63	1.38	48.25	60.88	19.25	2.69	7.75	8.00
402	21.00	18.13	8.00	7.50	0.75 x 0.38	24.00	41.13	20.38	1.88	52.75	69.13	21.25	2.94	8.75	8.00
445	22.69	19.81	8.00	7.50	0.88 x 0.44	27.00	41.13	22.38	1.88	57.69	70.81	23.50	3.44	9.00	8.00
490	24.38	21.50	9.00	7.50	1.00 x 0.50	29.00	41.13	24.88	1.88	62.38	72.50	25.88	3.94	10.00	8.00
542	27.50	24.13	9.00	7.50	1.00 x 0.50	29.50	41.25	27.13	2.38	65.50	75.25	28.63	3.94	10.00	8.00
600	29.75	26.38	9.50	7.50	1.00 x 0.50	32.50	41.25	30.13	2.38	71.25	77.50	31.69	3.94	10.50	8.00
660	33.19	29.31	10.00	7.50	1.00 x 0.50	35.00	41.75	32.63	2.88	77.19	80.94	34.75	3.94	11.00	8.00
730	35.88	32.00	10.50	7.50	1.00 x 0.50	38.00	41.75	36.63	2.88	83.38	83.63	38.50	4.44	11.50	8.00
807	38.88	35.00	10.50	7.50	1.25 x 0.63	41.00	41.75	40.38	2.88	89.38	86.63	42.63	4.94	11.50	8.00
890	42.06	38.19	11.00	7.50	1.25 x 0.63	44.00	41.75	45.88	2.88	96.06	89.81	46.94	4.94	12.00	8.00

BC14952E - ARR. 1
BC14955D - ARR. 9

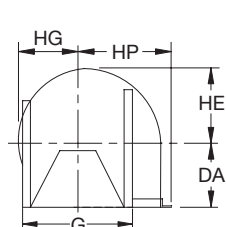
NOTES:

1. Punched outlet flanges are included on all discharges per AC14987, or for 'DBD' AC14868.
2. Optional punched inlet per AS363.
3. 'CW' rotation is shown. 'CCW' rotation is similar but opposite.
4. For fans with inlet box at 90° or 270° use 'BAU' discharge dimension 'DF' for centerline height.
5. 'FR' equals maximum motor frame.

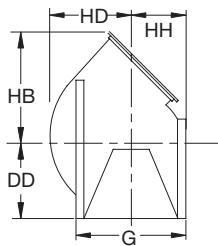
Arrangements 1 (Sizes 222-890) & 9 (Sizes 222-542), Class 22



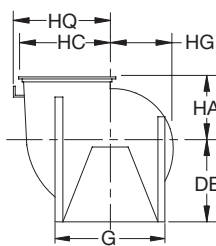
CW THD



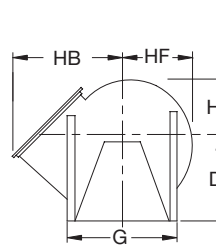
CW DBD



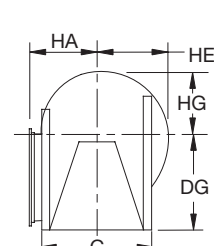
CW TAU



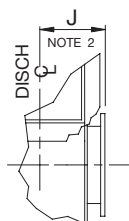
CW UBD



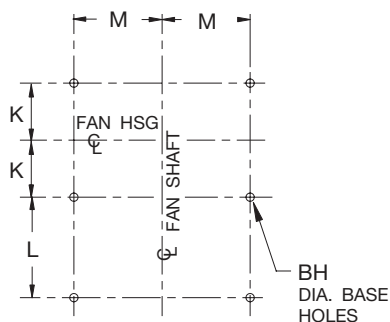
CW BAU



CW BHD



WITH OPTIONAL
FLANGED INLET



FOUNDATION PLAN
(FOR DBD SEE NOTE 1)

SIZE	A	B	BA	BH	C	DA		DC		DD		DE		DF		DG	
						ARR 1	ARR 9	ARR 1	ARR 9	ARR 1	ARR 9	ARR 1	ARR 9				
						SEE NOTE 4								ARR 1	ARR 9	ARR 1	ARR 9
222	23.81	17.88	3.00 x 3.00	0.56	23.75	17.69	33.75	18.00	33.75	19.25	33.75	20.50	33.75	22.00	33.75	26.50	33.75
245	26.19	19.63	3.00 x 3.00	0.56	26.06	19.50	34.00	20.00	34.00	21.25	34.00	22.50	34.00	24.00	34.00	28.75	34.00
270	28.88	21.56	3.00 x 3.00	0.56	28.50	21.44	34.00	22.00	34.00	23.50	34.00	24.75	34.00	26.25	34.00	31.50	34.00
300	32.00	23.94	3.00 x 4.00	0.81	31.63	23.81	34.75	24.50	34.75	26.00	34.75	27.50	34.75	29.50	34.75	34.75	34.75
330	35.44	26.31	3.00 x 4.00	0.81	34.75	26.25	37.75	27.00	37.75	28.50	37.75	30.00	37.75	32.25	37.75	37.75	37.75
365	39.00	29.13	3.00 x 4.00	0.81	38.50	29.00	41.00	29.50	41.00	31.50	41.00	33.50	41.00	35.50	41.00	41.50	41.50
402	42.94	32.06	3.50 x 5.00	0.81	42.44	32.00	41.50	33.00	41.50	35.25	41.50	37.00	41.50	39.50	41.50	46.00	46.00
445	47.44	35.44	4.00 x 6.00	0.81	46.88	35.38	42.50	35.50	42.50	38.50	42.50	40.00	42.50	43.25	43.25	50.50	50.50
490	52.25	38.88	4.00 x 6.00	0.81	51.63	39.00	42.50	39.00	42.50	42.25	42.50	44.00	44.00	47.50	47.50	55.75	55.25
542	57.69	43.13	4.00 x 6.00	0.81	57.13	43.06	43.50	43.50	43.50	46.50	46.50	49.00	49.00	52.25	52.25	61.25	61.25
600	63.81	47.56	4.00 x 6.00	0.81	63.13	47.69	–	48.00	–	51.25	–	54.00	–	57.50	–	67.25	–
660	70.00	52.44	4.00 x 6.00	0.81	69.38	52.44	–	52.50	–	55.75	–	59.00	–	63.00	–	73.75	–
730	77.50	57.81	4.00 x 6.00	0.81	76.75	58.00	–	57.00	–	61.75	–	64.50	–	69.50	–	81.25	–
807	85.69	63.88	4.00 x 6.00	0.81	84.88	64.19	–	63.00	–	67.50	–	72.00	–	76.50	–	89.50	–
890	94.38	70.25	4.00 x 6.00	0.81	93.38	70.00	–	69.25	–	73.75	–	78.25	–	85.00	–	98.25	–

SIZE	DX	FR ARR 9	G	GA	GB	GC	H		HA	HB	HC	HD	HE	HF	HG	HH	HP	HQ
							ARR 1	ARR 9										
222	2.00 x 2.00	365T	32.25	7	7	16.13	38.38	52.50	17.69	30.63	25.63	20.56	19.19	18.06	16.94	15.81	26.63	–
245	2.00 x 2.00	365T	34.50	7	7	17.25	41.63	54.00	19.50	33.56	28.00	22.50	21.13	19.88	18.63	17.38	29.00	–
270	2.00 x 2.00	365T	38.00	7	7	19.00	45.63	56.00	21.44	36.88	30.69	24.81	23.31	21.94	20.56	19.19	31.69	–
300	2.00 x 2.00	365T	42.00	7	7	21.00	51.50	60.38	23.81	40.75	33.81	27.50	25.81	24.31	22.81	21.31	35.81	–
330	2.00 x 2.00	405T	45.00	0.25	0.25	22.50	55.88	69.38	26.25	44.88	37.19	30.25	28.50	26.81	25.13	23.44	39.19	–
365	2.00 x 2.00	405T	49.00	0.25	0.25	24.50	60.13	78.25	29.00	49.31	40.75	33.69	31.63	29.75	27.88	26.00	42.75	–
402	2.00 x 2.00	405T	52.50	0.25	0.25	26.25	66.13	83.25	32.00	54.25	44.69	37.13	34.81	32.75	30.69	28.63	47.69	–
445	2.00 x 2.00	405T	57.50	0.25	0.25	28.75	74.50	88.25	35.38	59.81	49.19	41.06	38.38	36.13	33.88	31.63	53.19	–
490	2.00 x 2.00	405T	62.50	0.25	0.25	31.25	79.88	91.63	39.00	65.75	54.00	45.00	42.31	39.81	37.31	34.81	58.00	–
542	2.50 x 2.50	405T	68.00	0.25	0.25	34.00	84.13	95.88	43.06	72.81	59.94	49.94	46.81	44.06	41.31	38.56	63.44	60.38
600	2.50 x 2.50	–	74.00	0.25	0.25	37.00	91.63	–	47.69	80.44	66.06	55.13	51.81	48.75	45.69	42.63	69.56	66.38
660	2.50 x 2.50	–	81.00	0.25	0.25	40.50	98.50	–	52.44	88.19	72.25	60.56	56.94	53.50	50.06	46.63	75.75	73.00
730	2.50 x 2.50	–	89.00	0.25	0.25	44.50	106.88	–	58.00	97.38	79.75	67.06	63.00	59.25	55.50	51.75	83.25	80.38
807	2.50 x 2.50	–	96.50	0.25	0.25	48.25	115.88	–	64.19	107.56	87.94	74.19	69.63	65.50	61.38	57.25	91.44	88.50
890	2.50 x 2.50	–	107.50	0.25	0.25	53.75	125.25	–	70.00	117.81	96.63	81.69	76.75	72.19	67.63	63.06	100.13	97.13

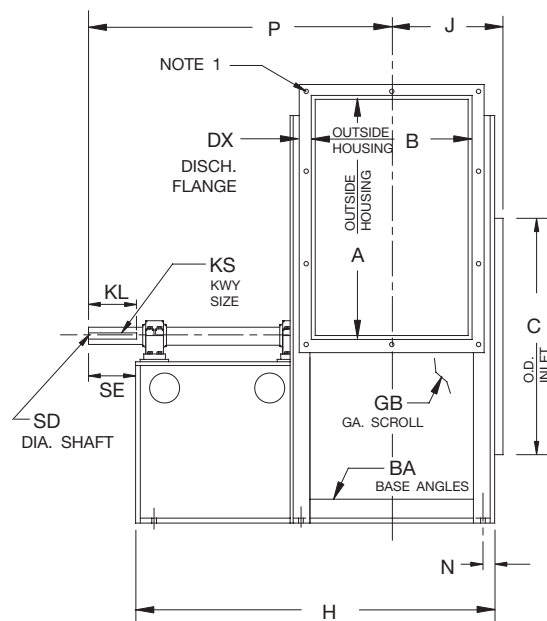
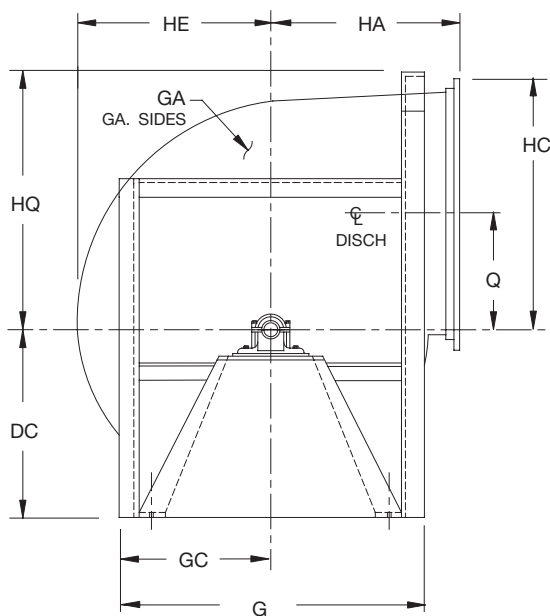
SIZE	J	K	KL		KS	L		M	N	P		Q	SD	SE	
			ARR 1	ARR 9		ARR 1	ARR 9			ARR 1	ARR 9			ARR 1	ARR 9
222	12.94	10.56	6.00	7.00	0.63 x 0.31	14.00	28.13	11.25	1.38	32.94	48.31	11.75	2.44	6.50	7.75
245	13.81	11.44	6.50	7.00	0.63 x 0.31	15.50	27.88	12.38	1.38	36.06	49.19	12.94	2.44	7.25	8.00
270	14.81	12.44	7.50	6.50	0.63 x 0.31	17.50	27.88	13.63	1.38	40.06	49.19	14.25	2.44	8.25	7.00
300	17.00	14.13	8.00	6.50	0.63 x 0.31	19.50	28.38	15.13	1.88	44.25	51.38	15.81	2.69	8.75	7.00
330	18.19	15.31	9.00	7.50	0.75 x 0.38	21.50	35.00	16.63	1.88	48.44	60.19	17.50	2.94	9.75	8.00
365	19.56	16.69	9.00	7.50	0.75 x 0.38	23.00	41.13	18.63	1.88	51.56	67.69	19.25	2.94	10.00	8.00
402	22.06	18.69	10.00	7.50	0.88 x 0.44	24.50	41.63	19.88	2.38	56.06	70.19	21.25	3.44	11.00	8.00
445	24.75	20.88	10.00	7.50	1.00 x 0.50	28.00	41.75	21.38	2.88	61.75	72.50	23.50	3.94	11.00	8.00
490	26.44	22.56	11.00	7.50	1.00 x 0.50	30.00	41.75	23.88	2.88	66.44	74.19	25.88	3.94	12.00	8.00
542	28.56	24.69	11.00	7.50	1.00 x 0.50	30.00	41.75	26.63	2.88	68.56	76.31	28.63	4.44	12.00	8.00
600	30.81	26.94	12.00	–	1.25 x 0.63	33.00	–	29.63	2.88	74.81	–	31.69	4.94	13.00	–
660	33.25	29.38	12.00	–	1.25 x 0.63	35.00	–	32.63	2.88	79.25	–	34.75	4.94	13.00	–
730	35.94	32.06	13.50	–	1.25 x 0.63	38.00	–	36.63	2.88	86.44	–	38.50	4.94	14.50	–
807	38.94	35.06	13.50	–	1.25 x 0.63	41.00	–	40.38	2.88	92.44	–	42.63	4.94	14.50	–
890	42.13	38.25	14.00	–	1.25 x 0.63	44.00	–	45.88	2.88	99.13	–	46.94	4.94	15.00	–

BC14953D – ARR. 1
BC14956D – ARR. 9

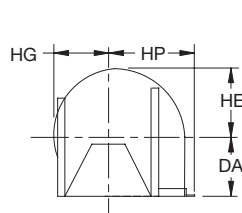
NOTES:

1. Punched outlet flanges are included on all discharges per AC14988, or for 'DBD' AC14869.
2. Optional punched inlet per AS363.
3. 'CW' rotation is shown. 'CCW' rotation is similar but opposite.
4. For fans with inlet box at 90° or 270° use 'BAU' discharge dimension 'DF' for centerline height.
5. 'FR' equals maximum motor frame.

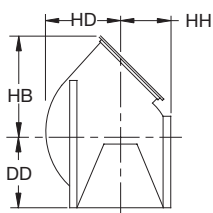
Arrangement 1, Class 26



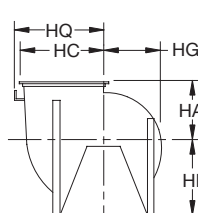
CW THD



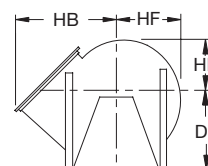
CW DBD



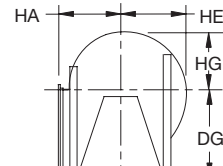
CW TAU



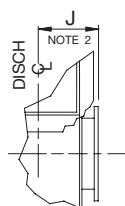
CW UBD



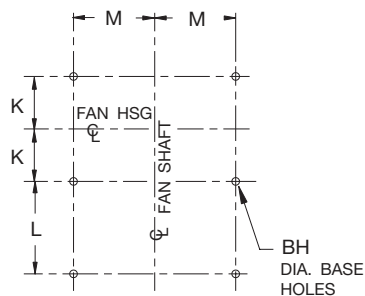
CW BAU



CW BHD



WITH OPTIONAL
FLANGED INLET



FOUNDATION PLAN
(FOR DBD SEE NOTE 1)

SIZE	A	B	BA	BH	C	DA	DC	DD	DE	DF	DG	DX	G	GA
						SEE NOTE 4								
270	28.88	21.56	3.00 x 3.00	0.56	28.50	21.44	22.00	23.50	24.75	26.25	31.50	2.00 x 2.00	38.00	7
300	32.00	23.94	3.00 x 4.00	0.81	31.63	23.81	24.50	26.00	27.50	29.50	34.75	2.00 x 2.00	42.00	7
330	35.44	26.31	3.00 x 4.00	0.81	34.75	26.25	27.00	28.50	30.00	32.25	37.75	2.00 x 2.00	45.00	0.25
365	39.00	29.13	3.00 x 4.00	0.81	38.50	29.00	29.50	31.50	33.50	35.50	41.50	2.00 x 2.00	49.00	0.25
402	42.94	32.06	3.50 x 5.00	0.81	42.44	32.00	33.00	35.25	37.00	39.50	46.00	2.00 x 2.00	53.50	0.25
445	47.44	35.44	4.00 x 6.00	0.81	46.88	35.38	35.50	38.50	40.00	43.25	50.50	2.00 x 2.00	58.50	0.25
490	52.25	38.88	4.00 x 6.00	0.81	51.63	39.00	39.00	42.25	44.00	47.50	55.75	2.00 x 2.00	63.50	0.25
542	57.69	43.13	4.00 x 6.00	0.81	57.13	43.06	43.50	46.50	49.00	52.25	61.25	2.50 x 2.50	69.00	0.25
600	63.81	47.56	4.00 x 6.00	0.81	63.13	47.69	48.00	51.25	54.00	57.50	67.25	2.50 x 2.50	75.00	0.25
660	70.00	52.44	4.00 x 6.00	0.81	69.38	52.44	52.50	55.75	59.00	63.00	73.75	2.50 x 2.50	81.00	0.25
730	77.50	57.81	4.00 x 6.00	0.81	76.75	58.00	57.00	61.75	64.50	69.50	81.25	2.50 x 2.50	89.00	0.25
807	85.69	63.88	4.00 x 6.00	0.81	84.88	64.19	63.00	67.50	72.00	76.50	89.50	2.50 x 2.50	96.50	0.25
890	94.38	70.25	4.00 x 6.00	0.81	93.38	70.00	69.25	73.75	78.25	85.00	98.25	2.50 x 2.50	107.50	0.25

SIZE	GB	GC	H	HA	HB	HC	HD	HE	HF	HG	HH	HP	HQ	J	K	KL
270	7	19.00	45.63	21.44	36.88	30.69	24.81	23.31	21.94	20.56	19.19	31.69	—	14.81	12.44	7.50
300	7	21.00	51.50	23.81	40.75	33.81	27.50	25.81	24.31	22.81	21.31	35.81	—	17.00	14.13	8.00
330	0.25	22.50	55.88	26.25	44.88	37.19	30.25	28.50	26.81	25.13	23.44	39.19	—	18.19	15.31	9.00
365	0.25	24.50	60.13	29.00	49.31	40.75	33.69	31.63	29.75	27.88	26.00	42.75	—	19.56	16.69	9.00
402	0.25	26.75	66.13	32.00	54.25	44.69	37.13	34.81	32.75	30.69	28.63	47.69	—	22.06	18.69	10.00
445	0.25	29.25	74.50	35.38	59.81	49.19	41.06	38.38	36.13	33.88	31.63	53.19	—	24.75	20.88	10.00
490	0.25	31.75	79.88	39.00	65.75	54.00	45.00	42.31	39.81	37.31	34.81	58.00	—	26.44	22.56	11.00
542	0.25	34.50	84.13	43.06	72.81	59.94	49.94	46.81	44.06	41.31	38.56	63.44	60.38	28.56	24.69	11.00
600	0.25	37.50	91.63	47.69	80.44	66.06	55.13	51.81	48.75	45.69	42.63	69.56	66.38	30.81	26.94	12.00
660	0.25	40.50	98.50	52.44	88.19	72.25	60.56	56.94	53.50	50.06	46.63	75.75	73.00	33.25	29.38	12.00
730	0.25	44.50	106.88	58.00	97.38	79.75	67.06	63.00	59.25	55.50	51.75	83.25	80.38	35.94	32.06	13.50
807	0.25	48.25	115.88	64.19	107.56	87.94	74.19	69.63	65.50	61.38	57.25	91.44	88.50	38.94	35.06	13.50
890	0.25	53.75	125.25	70.00	117.81	96.63	81.69	76.75	72.19	67.63	63.06	100.13	97.13	42.13	38.25	14.00

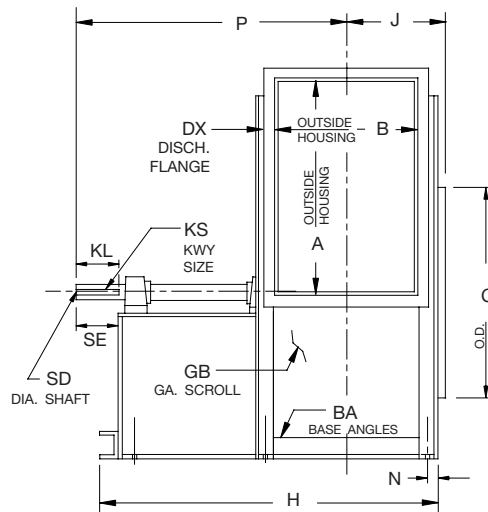
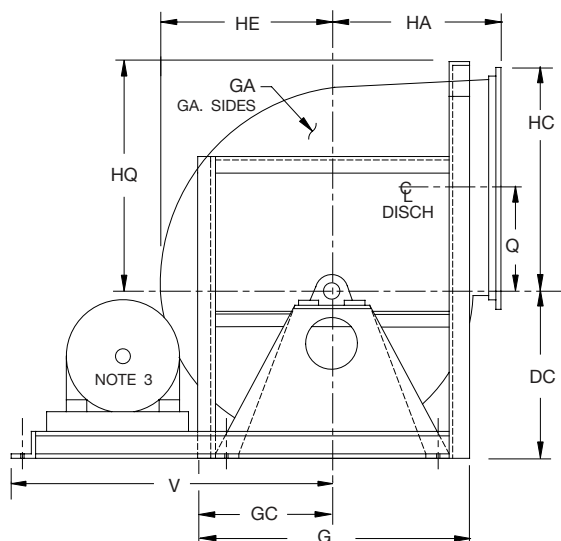
SIZE	KS	L	M	N	P	Q	SD	SE
270	0.75 x 0.38	17.50	13.63	1.38	40.06	14.25	2.94	8.25
300	0.75 x 0.38	19.50	15.13	1.88	44.25	15.81	2.94	8.75
330	0.75 x 0.38	21.50	16.63	1.88	48.44	17.50	2.94	9.75
365	0.88 x 0.44	23.00	18.63	1.88	51.56	19.25	3.44	10.00
402	1.00 x 0.50	24.50	19.88	2.38	56.06	21.25	3.94	11.00
445	1.00 x 0.50	28.00	21.38	2.88	61.75	23.50	3.94	11.00
490	1.00 x 0.50	30.00	23.88	2.88	66.44	25.88	4.44	12.00
542	1.25 x 0.63	30.00	26.63	2.88	68.56	28.63	4.94	12.00
600	1.25 x 0.63	33.00	29.63	2.88	74.81	31.69	4.94	13.00
660	1.25 x 0.63	35.00	32.63	2.88	79.25	34.75	4.94	13.00
730	1.25 x 0.63	38.00	36.63	2.88	86.44	38.50	5.44	14.50
807	1.25 x 0.63	41.00	40.38	2.88	92.44	42.63	5.44	14.50
890	1.75 x 0.88	44.00	45.88	2.88	99.13	46.94	6.94	15.00

BC14954C

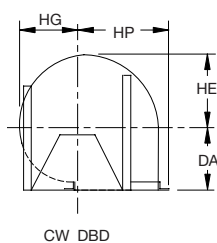
NOTES:

1. Punched outlet flanges are included on all discharges per AC14988, or for 'DBD' AC14869.
2. Optional punched inlet per AS363.
3. 'CW' rotation is shown. 'CCW' rotation is similar but opposite.
4. For fans with inlet box at 90° or 270° use 'BAU' discharge dimension 'DF' for centerline height.

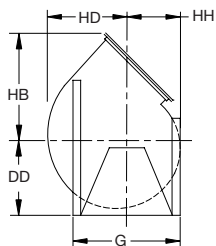
Arrangements 9F, Class 14



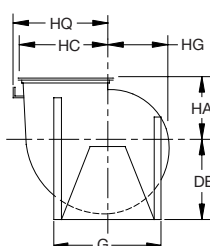
CLOCKWISE ROTATION, TOP HORIZONTAL DISCHARGE 'CW THD'
MOTOR LOCATION 'L' (LEFT) SHOWN. SEE NOTE 3.



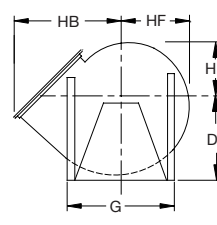
CW DBD



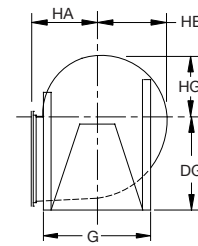
CW TAU



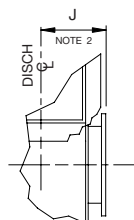
CW UBD



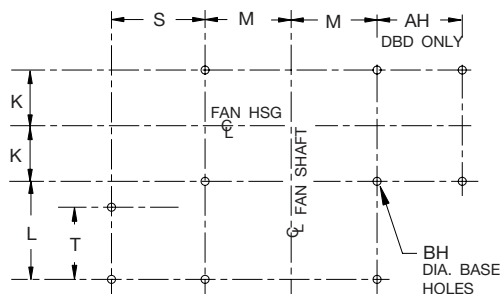
CW BAU



CW BHD



WITH OPTIONAL
FLANGED INLET



FOUNDATION PLAN
(FOR DBD SEE NOTE 1)
MOTOR LOCATION 'L' (LEFT) SHOWN

SIZE	A	AH	B	BA	BH	C	DA	DC	DD	DE	DF	DG	DX	FR	G	GA
165	17.44	9.75	13.19	1.50 x 2.00	0.44	17.75	13.13	13.50	14.50	15.25	16.25	19.50	1.00 x 1.00	215T	24.25	14
182	19.38	10.81	14.56	1.50 x 2.00	0.44	19.50	14.50	14.75	15.75	16.75	17.75	21.50	1.25 x 1.25	256T	26.00	12
200	21.19	11.63	15.94	1.50 x 2.00	0.56	21.38	15.81	16.25	17.25	18.25	19.25	23.50	1.25 x 1.25	256T	28.00	12
222	23.56	12.88	17.69	2.00 x 2.00	0.56	23.75	17.69	18.00	19.25	20.50	22.00	26.00	1.25 x 1.25	256T	31.25	12
245	25.94	14.13	19.44	2.00 x 2.00	0.56	26.06	19.50	20.00	21.25	22.50	24.00	28.25	1.25 x 1.25	286T	33.50	12
270	28.63	15.56	21.38	2.00 x 2.00	0.56	28.50	21.44	22.00	23.50	24.75	26.25	31.00	1.50 x 1.50	286T	36.00	12
300	31.81	17.25	23.81	2.50 x 2.50	0.56	31.63	23.81	24.50	26.00	27.50	29.50	34.25	1.50 x 1.50	286T	41.00	10
330	35.13	19.06	26.06	2.50 x 2.50	0.56	34.75	26.25	27.00	28.50	30.00	32.25	37.25	1.50 x 1.50	326T	44.00	10
365	38.69	21.13	28.88	2.50 x 2.50	0.56	38.50	29.00	29.50	31.50	33.50	35.50	41.00	1.50 x 1.50	326T	48.00	10
402	42.63	23.31	31.81	3.00 x 3.00	0.81	42.44	32.00	33.00	35.25	37.00	39.50	45.50	1.50 x 1.50	365T	52.50	10
445	47.13	25.81	35.19	3.00 x 3.00	0.81	46.88	35.38	35.50	38.50	40.00	43.25	50.00	1.50 x 1.50	365T	56.50	10
490	51.94	28.13	38.63	3.00 x 3.00	0.81	51.63	39.00	39.00	42.25	44.00	47.50	54.75	2.00 x 2.00	405T	61.50	10
542	57.38	31.81	42.88	3.00 x 4.00	0.81	57.13	43.06	43.50	46.50	49.00	52.25	60.25	2.00 x 2.00	405T	67.00	10
600	63.50	34.94	47.31	3.00 x 4.00	0.81	63.13	47.69	48.00	51.25	54.00	57.50	66.25	2.00 x 2.00	445T	73.00	10
660	69.69	39.13	52.19	3.50 x 5.00	0.81	69.38	52.44	52.50	55.75	59.00	63.00	73.25	2.50 x 2.50	445T	80.00	10
730	77.25	42.63	57.56	3.50 x 5.00	0.81	76.75	58.00	57.00	61.75	64.50	69.50	80.75	2.50 x 2.50	445T	88.00	10

SIZE	GB	GC	H	HA	HB	HC	HD	HE	HF	HG	HH	HP	HQ	J	K	KL	KS
165	14	12.13	37.00	13.13	22.25	18.38	15.06	14.13	13.31	12.50	11.69	19.38	-	8.88	7.50	3.00	0.25 x 0.13
182	14	13.00	43.88	14.50	24.81	20.56	16.69	15.69	14.75	13.81	12.88	21.31	-	9.63	8.19	3.50	0.38 x 0.19
200	14	14.00	45.25	15.81	27.00	22.38	18.38	17.31	16.25	15.19	14.13	23.13	-	10.25	8.88	3.50	0.38 x 0.19
222	14	15.63	47.00	17.69	30.00	24.75	20.44	19.06	17.94	16.81	15.69	25.50	-	12.00	10.00	4.00	0.38 x 0.19
245	14	16.75	51.25	19.50	33.00	27.13	22.38	21.00	19.75	18.50	17.25	27.88	-	12.88	10.88	4.50	0.50 x 0.25
270	14	18.00	53.13	21.44	36.44	30.06	24.69	23.19	21.81	20.44	19.06	30.56	-	13.81	11.81	4.50	0.50 x 0.25
300	14	20.50	56.63	23.81	40.31	33.25	27.44	25.75	24.25	22.75	21.25	34.25	-	15.50	13.31	5.00	0.50 x 0.25
330	12	22.00	60.31	26.25	44.44	36.56	30.13	28.38	26.69	25.00	23.31	37.56	-	16.63	14.44	5.00	0.50 x 0.25
365	12	24.00	63.06	29.00	48.88	40.13	33.50	31.50	29.63	27.75	25.88	41.13	-	18.00	15.81	5.00	0.63 x 0.31
402	12	26.25	68.81	32.00	53.81	44.06	37.00	34.69	32.63	30.56	28.50	45.56	-	20.00	17.56	5.00	0.63 x 0.31
445	12	28.25	72.19	35.38	59.38	48.56	40.88	38.25	36.00	33.75	31.50	50.06	-	21.69	19.25	5.50	0.63 x 0.31
490	12	30.75	81.19	39.00	65.69	53.88	44.88	42.19	39.69	37.19	34.69	54.88	-	23.38	20.94	5.50	0.75 x 0.38
542	12	33.50	87.44	43.06	72.38	59.31	49.75	46.69	43.94	41.19	38.44	61.31	59.75	26.50	23.56	6.00	0.88 x 0.44
600	12	36.50	98.44	47.69	80.00	65.44	55.00	51.69	48.63	45.56	42.50	67.44	65.75	28.75	25.81	6.00	0.88 x 0.44
660	12	40.00	105.31	52.44	88.06	72.13	60.38	56.81	53.38	49.94	46.50	74.63	72.25	32.19	28.75	7.00	1.00 x 0.50
730	10	44.00	110.69	58.00	97.31	79.63	66.94	62.88	59.13	55.38	51.63	82.13	79.75	34.94	31.44	7.50	1.00 x 0.50

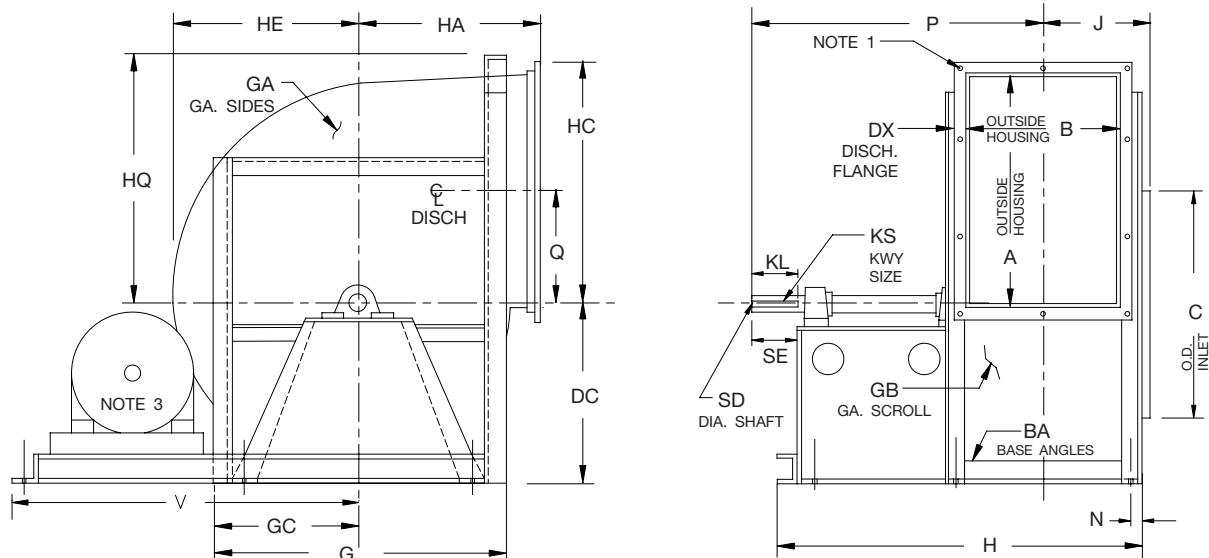
SIZE	L	M	N	P	Q	S	SD	SE	T	V
165	16.75	8.75	0.88	30.13	8.69	23.88	1.19	3.75	15.00	33.50
182	21.75	9.63	0.88	36.31	9.63	27.75	1.44	4.25	19.75	38.50
200	21.75	10.63	0.88	37.00	10.56	27.75	1.44	4.25	19.75	39.50
222	21.75	11.75	0.88	38.38	11.75	27.75	1.69	4.75	19.75	40.63
245	24.25	12.88	0.88	42.25	12.94	30.25	1.94	5.25	22.25	44.25
270	24.25	14.13	0.88	43.19	14.25	30.25	1.94	5.25	22.25	45.50
300	24.50	15.88	1.13	45.44	15.81	30.50	2.19	5.75	22.25	47.50
330	27.00	17.38	1.13	49.06	17.50	34.38	2.19	5.75	24.50	53.13
365	27.00	18.88	1.13	50.44	19.25	34.38	2.44	5.75	24.50	54.63
402	29.00	20.88	1.38	54.19	21.25	38.88	2.44	5.75	26.25	61.13
445	29.00	22.88	1.38	56.38	23.50	38.88	2.69	6.25	26.25	63.13
490	34.50	25.38	1.38	63.56	25.88	44.50	2.94	6.25	31.75	71.25
542	35.00	27.63	1.88	67.19	28.63	45.00	3.44	6.75	31.75	74.00
600	41.50	30.63	1.88	75.94	31.69	48.50	3.44	6.75	38.25	80.50
660	42.00	33.13	2.38	80.38	34.75	48.50	3.94	7.75	38.25	83.00
730	42.00	37.13	2.38	83.56	38.50	48.50	3.94	8.25	38.25	87.00

AC17015C

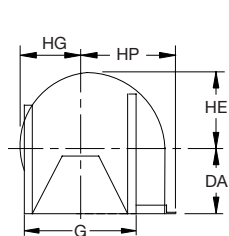
NOTES:

1. Punched outlet flanges are included on all discharges per AC14986, or for 'DBD' AC17016.
2. Optional punched inlet per AS363.
3. 'FR' equals maximum motor frame.

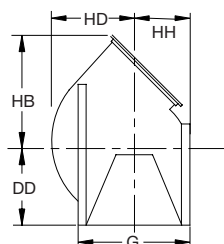
Arrangement 9F, Class 17



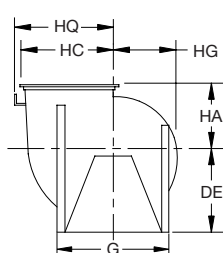
CLOCKWISE ROTATION, TOP HORIZONTAL DISCHARGE 'CW THD'
MOTOR LOCATION 'L' (LEFT) SHOWN. SEE NOTE 3.



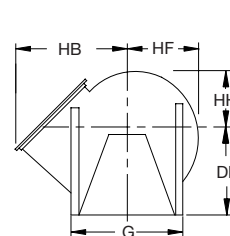
CW DBD



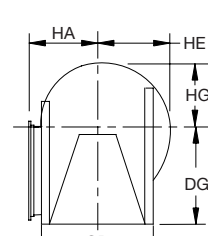
CW TAU



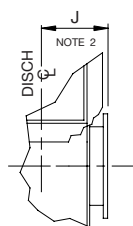
CW UBD



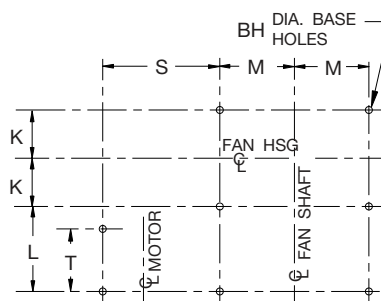
CW BAU



CW BHD



WITH OPTIONAL
FLANGED INLET



FOUNDATION PLAN
(FOR DBD SEE NOTE 1)
MOTOR LOCATION 'L' (LEFT) SHOWN

SIZE	A	B	BA	BH	C	DA	DC	DD	DE	DF	DG	DX	FR	G
165	17.56	13.31	1.50 x 2.00	0.44	17.75	13.13	13.50	14.50	15.25	16.25	19.50	1.25 x 1.25	256T	24.25
182	19.50	14.63	2.00 x 2.00	0.56	19.50	14.50	14.75	15.75	16.75	17.75	22.00	1.25 x 1.25	286T	27.00
200	21.31	16.00	2.00 x 2.00	0.56	21.38	15.81	16.25	17.25	18.25	19.25	24.00	1.25 x 1.25	326T	29.00
222	23.69	17.75	2.50 x 2.50	0.56	23.75	17.69	18.00	19.25	20.50	22.00	26.50	1.25 x 1.25	326T	32.25
245	26.19	19.63	2.50 x 2.50	0.56	26.06	19.50	20.00	21.25	22.50	24.00	28.75	1.50 x 1.50	326T	34.50
270	28.88	21.56	2.50 x 2.50	0.56	28.50	21.44	22.00	23.50	24.75	26.25	31.50	1.50 x 1.50	365T	37.00
300	32.00	23.94	3.00 x 3.00	0.81	31.63	23.81	24.50	26.00	27.50	29.50	34.75	1.50 x 1.50	365T	42.00
330	35.31	26.19	3.00 x 3.00	0.81	34.75	26.25	27.00	28.50	30.00	32.25	37.75	1.50 x 1.50	365T	45.00
365	38.88	29.00	3.00 x 3.00	0.81	38.50	29.00	29.50	31.50	33.50	35.50	41.50	1.50 x 1.50	405T	49.00
402	42.81	31.94	3.00 x 4.00	0.81	42.44	32.00	33.00	35.25	37.00	39.50	45.50	2.00 x 2.00	445T	52.50
445	47.31	35.31	3.00 x 4.00	0.81	46.88	35.38	35.50	38.50	40.00	43.25	50.00	2.00 x 2.00	445T	56.50
490	52.13	38.75	3.00 x 4.00	0.81	51.63	39.00	39.00	42.25	44.00	47.50	54.75	2.00 x 2.00	445T	61.50
542	57.56	43.00	3.50 x 5.00	0.81	57.13	43.06	43.50	46.50	49.00	52.25	60.75	2.50 x 2.50	445T	67.00
600	63.69	47.44	3.50 x 5.00	0.81	63.13	47.69	48.00	51.25	54.00	57.50	66.75	2.50 x 2.50	445T	74.00
660	69.88	52.31	4.00 x 6.00	0.81	69.38	52.44	52.50	55.75	59.00	63.00	73.75	2.50 x 2.50	445T	80.00
730	77.38	57.69	4.00 x 6.00	0.81	76.75	58.00	57.00	61.75	64.50	69.50	81.25	2.50 x 2.50	445T	88.00
807	85.56	63.75	4.00 x 6.00	0.81	84.88	64.19	63.00	67.50	72.00	76.50	89.50	2.50 x 2.50	445T	96.50
890	94.25	70.13	4.00 x 6.00	0.81	93.38	70.00	69.25	73.75	78.25	85.00	98.25	2.50 x 2.50	445T	107.50

SIZE	GA	GB	GC	GD	H	HA	HB	HC	HD	HE	HF	HG	HH	HP	HQ
165	10	10	12.13	23.13	43.63	13.13	22.50	18.69	15.13	14.19	13.38	12.56	11.75	19.44	-
182	10	10	13.50	27.00	47.13	14.50	24.81	20.63	16.75	15.75	14.81	13.88	12.94	21.38	-
200	10	10	14.50	29.00	48.94	15.81	27.06	22.44	18.38	17.38	16.31	15.25	14.19	23.19	-
222	10	10	16.13	32.25	51.69	17.69	30.06	24.81	20.50	19.13	18.00	16.88	15.75	26.06	-
245	7	7	17.25	34.50	53.56	19.50	33.25	27.50	22.50	21.13	19.88	18.63	17.38	28.50	-
270	7	7	18.50	37.00	56.69	21.44	36.50	30.19	24.81	23.31	21.94	20.56	19.19	31.19	-
300	7	7	21.00	42.00	60.06	23.81	40.38	33.31	27.50	25.81	24.31	22.81	21.31	34.81	-
330	7	7	22.50	45.00	62.31	26.25	44.44	36.63	30.19	28.44	26.75	25.06	23.38	38.13	-
365	7	7	24.50	49.00	71.94	29.00	48.94	40.19	33.63	31.56	29.69	27.81	25.94	41.69	-
402	7	7	26.25	52.50	82.69	32.00	54.19	44.63	37.06	34.75	32.69	30.63	28.56	46.63	-
445	7	7	28.25	56.50	86.06	35.38	59.75	49.13	41.00	38.31	36.06	33.81	31.56	51.13	-
490	7	7	30.75	61.50	89.44	39.00	65.69	53.94	44.94	42.25	39.75	37.25	34.75	55.94	-
542	7	7	33.50	67.00	95.31	43.06	72.81	59.88	49.88	46.75	44.00	41.25	38.50	62.38	59.75
600	7	7	37.00	74.00	99.81	47.69	80.38	66.00	55.06	51.75	48.69	45.63	42.56	68.50	66.25
660	7	7	40.00	80.00	106.69	52.44	88.13	72.19	60.50	56.88	53.44	50.00	46.56	75.69	72.38
730	7	7	44.00	88.00	112.06	58.00	97.38	79.69	67.00	62.94	59.19	55.44	51.69	83.19	79.75
807	7	7	48.25	96.50	118.06	64.19	107.50	87.88	74.13	69.56	65.44	61.31	57.19	91.38	88.38
890	7	7	53.75	107.50	124.44	70.00	117.75	96.56	81.63	76.69	72.13	67.56	63.00	100.06	97.00

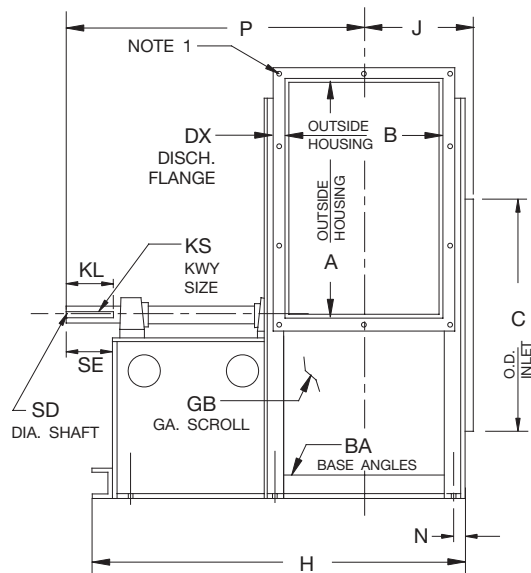
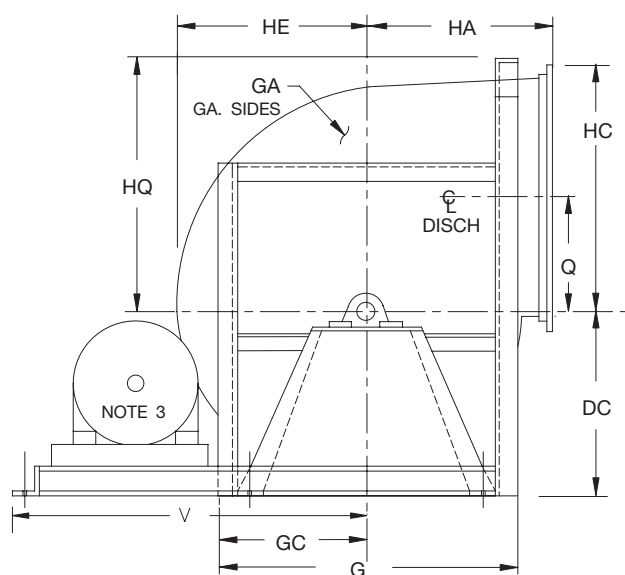
SIZE	J	K	KL	KS	L	M	N	P	Q	S	SD	SE	T	V
165	9.69	7.81	4.25	0.38 x 0.19	22.75	8.75	0.88	37.19	8.69	28.88	1.69	4.75	20.75	38.75
182	10.31	8.44	5.00	0.38 x 0.19	25.00	9.63	0.88	40.81	9.63	30.25	1.69	5.50	23.00	41.00
200	11.00	9.13	6.00	0.50 x 0.25	26.50	10.63	0.88	44.25	10.56	34.75	1.94	6.75	24.25	46.75
222	12.38	10.25	6.00	0.50 x 0.25	26.75	11.50	1.13	45.63	11.75	35.00	1.94	6.75	24.25	47.88
245	13.31	11.19	6.00	0.50 x 0.25	26.75	12.63	1.13	46.56	12.94	35.00	2.19	6.75	24.25	49.00
270	14.31	12.19	7.00	0.50 x 0.25	27.88	13.88	1.13	49.69	14.25	39.13	2.19	7.75	25.38	54.38
300	16.00	13.63	6.75	0.63 x 0.31	28.13	15.63	1.38	51.38	15.81	39.38	2.44	7.75	25.38	56.38
330	17.13	14.75	6.75	0.63 x 0.31	28.13	17.13	1.38	52.50	17.50	39.38	2.44	7.75	25.38	57.88
365	18.50	16.13	8.00	0.63 x 0.31	34.88	18.63	1.38	61.88	19.25	44.50	2.69	9.00	32.13	64.50
402	21.00	18.13	8.75	0.75 x 0.38	41.13	20.38	1.88	71.13	21.25	48.50	2.94	10.00	37.88	70.25
445	22.69	19.81	8.75	0.88 x 0.44	41.13	22.38	1.88	72.81	23.50	48.50	3.44	10.00	37.88	72.25
490	24.38	21.50	8.75	1.00 x 0.50	41.13	24.88	1.88	74.50	25.88	48.50	3.94	10.00	37.88	74.75
542	27.50	24.13	9.00	1.00 x 0.50	41.25	27.13	2.38	77.75	28.63	48.5	3.94	10.50	37.50	77.00
600	29.75	26.38	9.00	1.00 x 0.50	41.25	30.13	2.38	80.00	31.69	48.5	3.94	10.50	37.50	80.00
660	33.19	29.31	9.00	1.00 x 0.50	41.75	32.63	2.88	83.44	34.75	48.5	3.94	10.50	37.50	82.50
730	35.88	32.00	9.00	1.00 x 0.50	41.75	36.63	2.88	86.13	38.5	48.5	4.44	10.50	37.50	86.50
807	38.88	35.00	9.00	1.25 x 0.63	41.75	40.38	2.88	89.13	42.63	48.5	4.94	10.50	37.50	90.25
890	42.06	38.19	9.00	1.25 x 0.63	41.75	45.88	2.88	92.31	46.94	48.5	4.94	10.50	37.50	95.75

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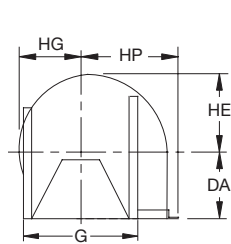
NOTES:

1. Punched outlet flanges are included on all discharges per AC14987, or for 'DBD' AC14924.
2. Optional punched inlet per AS363.
3. 'FR' equals maximum motor frame.

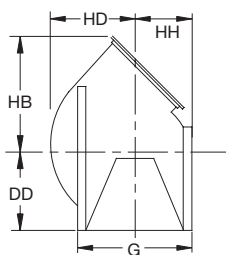
Arrangement 9F, Class 22



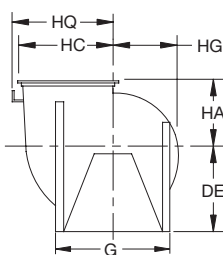
CLOCKWISE ROTATION, TOP HORIZONTAL DISCHARGE 'CW THD'
MOTOR LOCATION 'L' (LEFT) SHOWN. SEE NOTE 3.



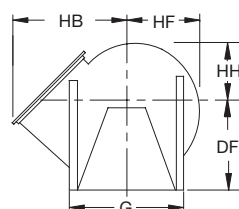
CW DBD



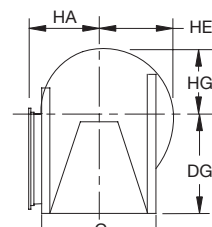
CW TAU



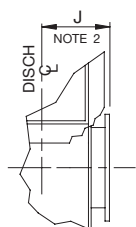
CW UBD



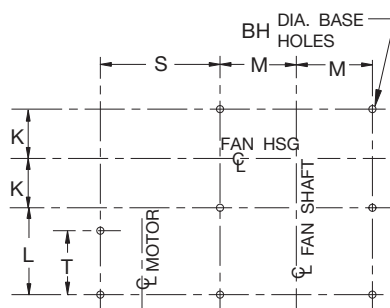
CW BAU



CW BHD



WITH OPTIONAL
FLANGED INLET



FOUNDATION PLAN
(FOR DBD SEE NOTE 1)
MOTOR LOCATION 'L' (LEFT) SHOWN

SIZE	A	B	BA	BH	C	DA	DC	DD	DE	DF	DG	DX	FR	G
222	23.81	17.88	3.00 x 3.00	0.56	23.75	17.69	18.00	19.25	20.50	22.00	26.50	2.00 x 2.00	365T	32.25
245	26.19	19.63	3.00 x 3.00	0.56	26.06	19.50	20.00	21.25	22.50	24.00	28.75	2.00 x 2.00	365T	34.50
270	28.88	21.56	3.00 x 3.00	0.56	28.50	21.44	22.00	23.50	24.75	26.25	31.50	2.00 x 2.00	365T	38.00
300	32.00	23.94	3.00 x 4.00	0.81	31.63	23.81	24.50	26.00	27.50	29.50	34.75	2.00 x 2.00	365T	42.00
330	35.44	26.31	3.00 x 4.00	0.81	34.75	26.25	27.00	28.50	30.00	32.25	37.75	2.00 x 2.00	405T	45.00
365	39.00	29.13	3.00 x 4.00	0.81	38.50	29.00	29.50	31.50	33.50	35.50	41.50	2.00 x 2.00	445T	49.00
402	42.94	32.06	3.50 x 5.00	0.81	42.44	32.00	33.00	35.25	37.00	39.50	46.00	2.00 x 2.00	445T	52.50
445	47.44	35.44	4.00 x 6.00	0.81	46.88	35.38	35.50	38.50	40.00	43.25	50.50	2.00 x 2.00	445T	57.50
490	52.25	38.88	4.00 x 6.00	0.81	51.63	39.00	39.00	42.25	44.00	47.50	55.25	2.00 x 2.00	445T	62.50
542	57.69	43.13	4.00 x 6.00	0.81	57.13	43.06	43.50	46.50	49.00	52.25	61.25	2.50 x 2.50	445T	68.00

SIZE	GA	GB	GC	H	HA	HB	HC	HD	HE	HF	HG	HH	HP	HQ
222	7	7	16.13	53.94	17.69	30.63	25.63	20.56	19.19	18.06	16.94	15.81	26.63	-
245	7	7	17.25	55.44	19.50	33.56	28.00	22.50	21.13	19.88	18.63	17.38	29.00	-
270	7	7	19.00	57.44	21.44	36.88	30.69	24.81	23.31	21.94	20.56	19.19	31.69	-
300	7	7	21.00	61.81	23.81	40.75	33.81	27.50	25.81	24.31	22.81	21.31	35.81	-
330	0.25	0.25	22.50	70.94	26.25	44.88	37.19	30.25	28.50	26.81	25.13	23.44	39.19	-
365	0.25	0.25	24.50	79.81	29.00	49.31	40.75	33.69	31.63	29.75	27.88	26.00	42.75	-
402	0.25	0.25	26.25	84.81	32.00	54.25	44.69	37.13	34.81	32.75	30.69	28.63	47.69	-
445	0.25	0.25	28.75	89.81	35.38	59.81	49.19	41.06	38.38	36.13	33.88	31.63	53.19	-
490	0.25	0.25	31.25	93.19	39.00	65.75	54.00	45.00	42.31	39.81	37.31	34.81	58.00	-
542	0.25	0.25	34.00	97.44	43.06	72.81	59.94	49.94	46.81	44.06	41.31	38.56	63.44	60.38

SIZE	J	K	KL	KS	L	M	N	P	Q	S	SD	SE	T	V
222	12.94	10.56	7.00	0.63 x 0.31	28.13	11.25	1.38	48.31	11.75	39.38	2.44	7.75	25.38	52.00
245	13.81	11.44	7.00	0.63 x 0.31	27.88	12.38	1.38	49.19	12.94	39.38	2.44	8.00	25.13	53.13
270	14.81	12.44	7.00	0.63 x 0.31	27.88	13.63	1.38	50.19	14.25	39.38	2.44	8.00	25.13	54.38
300	17.00	14.13	7.00	0.63 x 0.31	28.38	15.13	1.88	52.38	15.81	39.88	2.69	8.00	25.13	56.38
330	18.19	15.31	8.25	0.75 x 0.38	35.00	16.63	1.88	61.69	17.50	45.00	2.94	9.50	31.75	63.00
365	19.56	16.69	8.75	0.75 x 0.38	41.13	18.63	1.88	69.69	19.25	48.50	2.94	10.00	37.88	68.50
402	22.06	18.69	8.75	0.88 x 0.44	41.63	19.88	2.38	72.19	21.25	48.50	3.44	10.00	37.88	69.75
445	24.75	20.88	9.00	1.00 x 0.50	41.75	21.38	2.88	75.00	23.50	48.50	3.94	10.50	37.50	71.25
490	26.44	22.56	9.00	1.00 x 0.50	41.75	23.88	2.88	76.69	25.88	48.50	3.94	10.50	37.50	73.75
542	28.56	24.69	9.00	1.00 x 0.50	41.75	26.63	2.88	78.81	28.63	48.5	4.44	10.50	37.50	76.50

BC14958D

NOTES:

1. Punched outlet flanges are included on all discharges per AC14988, or for 'DBD' AC14925.
2. Optional punched inlet per AS363.
3. 'FR' equals maximum motor frame.

Fans shall be Model BCS, Backward Curved High Pressure Blowers, as manufactured by Twin City Fan & Blower, Minneapolis, Minnesota.

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 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.

CONSTRUCTION — Fan housings and bearing pedestals shall be of heavy-gauge, continuously welded construction. Housings with partially welded construction are not acceptable. Housings shall be suitably braced to prevent vibration or pulsation. Discharge flanges shall be provided for rigidity and duct connection. Discharge flanges are punched as standard. All units are furnished with lifting lugs.

WHEEL — BCS backward curved wheels shall be single thickness, designed for maximum efficiency and quiet operation, and shall be continuously welded to the rim and back plate. Partial welding is not acceptable on backward curved blades. All wheels shall be statically and dynamically balanced.

SHAFT — Shafts shall be AISI 1018, 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, anti-friction ball or roller, 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 20 HP and smaller, and fixed pitch on 25 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. Aluminum components shall be unpainted.

ACCESSORIES — When specified, accessories such as access doors, drains, inlet and outlet flanges, belt guards, shaft and bearing guards, outlet screens, outlet dampers, inlet vanes, spark resistant construction, split housings, high temperature construction, shaft seals, inlet boxes, and shaft coolers shall be provided by Twin City Fan & Blower to maintain one-source responsibility.

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 204-96 "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 at least one (1) year from startup or eighteen (18) months from shipment, whichever occurs first.





BCSF — Backward Curved High Pressure Composite Fans

- 16.5" to 60" wheel diameters
- Airflow to 151,000 CFM
- Static pressure to 34" w.g.
- Airstream temperature to 200° F
- Arrangements 1, 8, 9, 9F and 10
- Belt and direct drive configurations

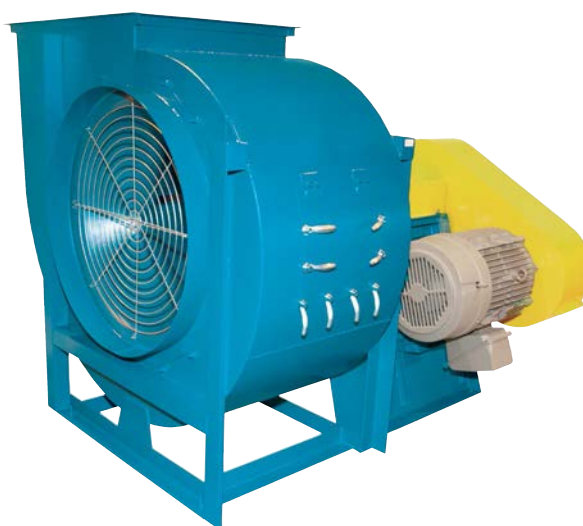
See Catalog 410 for more information.



BC-SW — Backward Inclined Fans

- 12.25" to 98.25" wheel diameters
- Airflow to 277,500 CFM
- Static pressure to 20" w.g.
- Airstream temperatures to 800°F
- Arrangements 1, 3, 3F, SI, 4, 7SI, 8, 9, 9F and 10
- Belt and direct drive configurations

See Catalog 300 for more information.



BAE-SW — Airfoil Fans

- 12.25" to 98.25" wheel diameters
- Airflow to 277,500 CFM
- Static pressure to 20" w.g.
- Airstream temperatures to 800°F
- Arrangements 1, 3, 3F, 3SI, 4, 7SI, 8, 9, 9F and 10
- Belt and direct drive configurations

See Catalog 370 for more information.

INDUSTRIAL & COMMERCIAL FANS

Centrifugal Fans | Utility Sets | Plenum & Plug Fans | Inline Centrifugal Fans

Mixed Flow Fans | Tubeaxial & Vaneaxial Fans | Propeller Wall Fans | Propeller Roof Ventilators

Centrifugal Roof & Wall Exhausters | Ceiling Ventilators | Gravity Ventilators | Duct Blowers

Radial Bladed Fans | Radial Tip Fans | High Efficiency Industrial Fans | Pressure Blowers

Laboratory Exhaust Fans | Filtered Supply Fans | Mancoolers | Fiberglass Fans | Custom Fans



A Twin City Fan Company

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