



# COOK

# CIC

TUBULAR CENTRIFUGAL INLINE BLOWERS  
WITH BACKWARD INCLINED AIRFOIL WHEEL

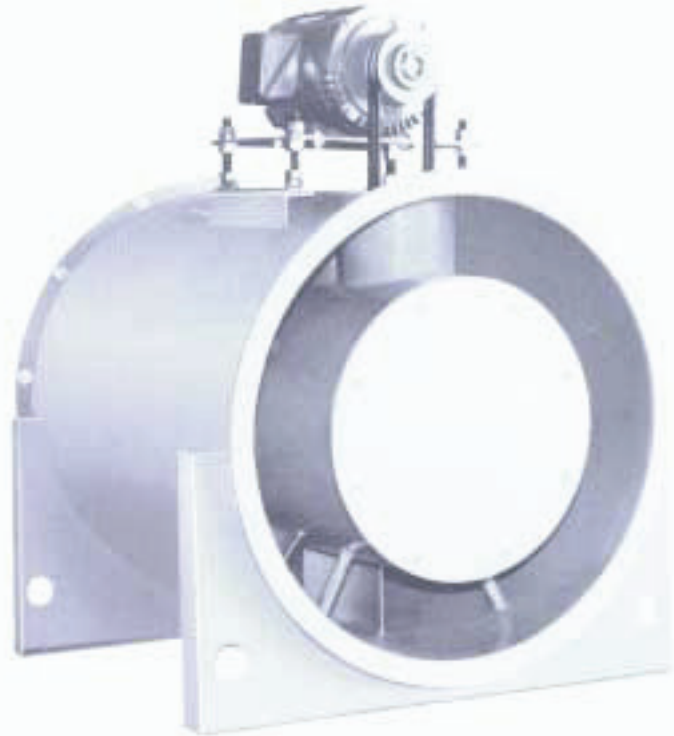


# CIC CENTRIFUGAL INLINE

## ARRANGEMENT 9 (STYLE FM)

### STANDARD CONSTRUCTION STEEL, ALUMINUM OPTIONAL

Arrangement No. 9, shown from air discharge end, is available with floor mounting base as shown. Motor position may be varied as required for best placement of the fan. Lubricating tubes standard. Type CIC tubular centrifugal fans incorporate steel airfoil blower wheels. Access doors optional and are for access to wheel only.



The CIC centrifugal inline blowers are standard with a steel airfoil wheel. Aluminum airfoil wheel is available as an option in sizes 12" to 49". Class I and II only.

## ARRANGEMENT 9 (STYLE CM)

### STANDARD CONSTRUCTION STEEL, ALUMINUM OPTIONAL

Arrangement No. 9 is available with side brackets pre-drilled, shown, for ceiling suspension. The motor position can also be varied on this style CIC unit. Lubricating tubes standard. Type CIC tubular centrifugal fans incorporate steel airfoil blower wheels. Access doors are optional and are for access to wheel only.



The type CIC centrifugal blowers are available as Underwriters' Laboratories listed models. When listed models are required, add "U" to model number.

# CIC CENTRIFUGAL INLINE

## ARRANGEMENT 1

### STANDARD CONSTRUCTION STEEL, ALUMINUM OPTIONAL

Arrangement No. 1 with motor mounted on the ruggedly constructed separate section of the base. The motor can be mounted on either side of the CIC assembly. Lubricating tubes standard. Type CIC tubular centrifugal fans incorporate steel airfoil blower wheels. Access doors optional and are for access to wheel only.

The CIC centrifugal inline blowers are standard with a steel airfoil wheel. Aluminum airfoil wheel is available as an option in sizes 12" to 49". Class I and II only.



## CIC TYPICAL SPECIFICATIONS

Centrifugal in-line blowers shall be of belt driven type. Blower housings shall be constructed of heavy gauge steel and all seams shall be continuously welded.

The CIC centrifugal in-line blower shall have a steel backwardly inclined airfoil blower wheel of the non-overloading type. Blades on all sizes shall be securely welded to both a deep spun inlet shroud and to the backplate. All wheels shall be carefully trued after assembly and dynamically balanced with balancing weights welded to the airfoil wheels. All wheels shall be keyed to the shafts in all classes.

The fan shafts shall be AISI C-1040 or C-1045 hot rolled and accurately turned and polished. Close tolerances shall be maintained where the shaft makes contact with the bearings.

All bearings on CIC centrifugal in-line blower in AMCA arrangements 1 and 9 shall be

grease lubricated precision anti-friction ball, self aligning flange type.

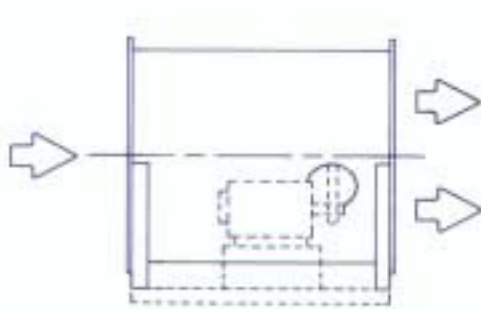
All motor drives shall be variable pitch thru 5 horsepower. Oil resistant non-static belts shall be provided.

In general all CIC centrifugal in-line blowers shall include housing, wheel, fan shaft, bearings as a factory assembled unit. All steel and sheet metal parts shall be cleaned, conditioned and painted with enamel primer finish prior to final assembly. A final coat of gray enamel shall be applied to all exterior surfaces after assembly.

The proper protective safety device to meet company standards, local codes, and the requirements of the Occupational Safety and Health Act must be determined by the user since safety requirements vary depending on the location of the equipment. The user should specify and obtain required protective safety devices from the fan manufacturer or others and should not allow the operation of the equipment without them.

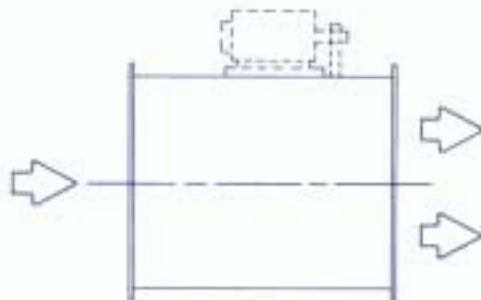
# ENGINEERING DATA

## DRIVE ARRANGEMENTS FOR TUBULAR CENTRIFUGAL FANS



### ARRANGEMENT 1

For belt drive. Impeller overhung on a shaft supported by bearings mounted within casing. Motor mounted independent of casing. Horizontal discharge.



Motor Shown in Position A



### ARRANGEMENT 9

For belt drive. Impeller overhung on a shaft supported by bearings mounted within casing. Designed for mounting of motor on outside of casing in one of the standard locations shown. For horizontal discharge.

Arrow  $\rightarrow$  designates the direction of airflow.

Rotation of fans is determined by viewing from the fan outlet end. Specify either up blast or down blast discharge for vertically-mounted fans.

The locations of motors, supports, access doors, etc., are determined by viewing the outlet of the fan and resting location E on the floor as shown for Arrangement 9.

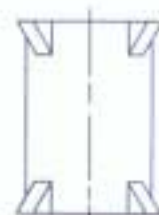
Arrangement 9 can be furnished with supports for floor, wall or ceiling mounting. The position of these supports determines which motor locations are available for motor placement. Generally motor locations D, E, and F are not available on floor, wall or inverted ceiling-mounted fans and motor locations B, C, G and H may not be available for ceiling-hung fans.

Another method of mounting vertical fans is shown in the view on the right. Specify fan to be furnished with ceiling-mounting brackets, floor-mounting brackets or both.

### VERTICAL MOUNTING



Ceiling-Mounting Brackets



Floor-Mounting Brackets

# ENGINEERING DATA

## CLASSIFICATION FOR SPARK RESISTANT CONSTRUCTION

TYPE	CONSTRUCTION
A	All parts of the AMD in contact with the air or gas being handled shall be made of non-ferrous material.
B	The AMD shall have an entirely non-ferrous wheel or impeller and non-ferrous ring about the opening through which the shaft passes.
C	The AMD shall be so constructed that a shift of the wheel or impeller or shaft will not permit two ferrous parts of the AMD to rub or strike.

NOTES: (1) Bearings shall not be placed in the air or gas stream. (2) The user shall electrically ground all AMD parts.

## WHEEL WEIGHTS AND WK<sup>2</sup> FOR CIC STEEL AND ALUMINUM WHEELS

UNIT SIZE	STEEL WHEEL					
	CLASS I		CLASS II		CLASS III	
	WHEEL WT.	WK <sup>2</sup>	WHEEL WT.	WK <sup>2</sup>	WHEEL WT.	WK <sup>2</sup>
120	26.9	2.2	29.9	2.7	---	---
135	31.4	3.4	35.3	4.2	---	---
150	35.6	5.0	40.8	6.2	---	---
165	40.5	7.1	46.6	8.9	---	---
180	47.6	10.6	54.8	13.2	54.8	13.2
195	53.7	14.3	62.3	17.9	62.3	17.9
210	61.0	19.6	71.1	24.4	70.1	24.4
225	68.1	25.5	79.7	31.8	76.7	31.8
245	80.6	35.4	94.3	44.2	90.1	44.3
270	94.3	51.5	111.3	64.6	110.0	64.6
300	117.6	77.5	138.5	97.3	137.1	97.4
330	139.7	116.0	165.3	144.9	163.8	144.9
365	203.9	215.7	238.9	265.8	235.2	265.9
402	242.7	315.9	285.4	399.7	281.5	389.8
445	301.3	467.8	351.5	576.4	346.7	578.6
490	362.1	700.2	423.6	862.5	418.5	862.6
540	496.0	1208.1	570.4	1447.6	563.9	1447.8
600	601.5	1821.2	694.2	2185.4	687.3	2185.7
660	735.0	2646.3	847.2	3179.9	839.0	3180.3
730	896.4	4018.4	1034.9	4816.9	1026.1	4817.3

UNIT SIZE	ALUMINUM WHEEL			
	CLASS I		CLASS II	
	WHEEL WT.	WK <sup>2</sup>	WHEEL WT.	WK <sup>2</sup>
120	10.6	0.9	11.1	1.1
135	12.2	1.3	12.9	1.7
150	14.6	2.1	15.6	2.7
165	16.6	3.1	17.8	3.7
180	18.6	4.2	20.0	5.3
195	20.9	5.7	22.6	7.2
210	23.7	7.8	25.7	9.8
225	28.4	11.2	30.6	13.8
245	34.1	16.1	36.9	19.8
270	39.9	23.4	43.4	28.8
300	49.3	35.0	53.6	42.9
330	57.7	50.3	63.0	62.4
365	76.2	78.9	84.5	101.4
402	89.9	115.2	100.1	148.4
445	112.3	169.7	124.1	219.3
490	132.3	246.9	146.9	320.2

For proper motor selection you must give consideration to starting torque requirements along with operating BHP. The above chart lists the WK<sup>2</sup> factor for different wheel sizes. In some cases it may be necessary to provide a larger horsepower motor, even though it may not be indicated by operating BHP, in order to bring the fan to speed.

The following formula can be applied to determine the required motor starting torque:

$$WK\% = WK^2 \left( \frac{FRPM}{MRPM} \right)^2 (1.1)$$

WHERE: WK% — the moment of inertia required at the motor shaft, LB-Ft<sup>2</sup>.  
 WK<sup>2</sup> — the moment of inertia of the fan, LB - Ft<sup>2</sup>.  
 FRPM — fan RPM  
 MRPM — motor RPM

Motor starting torque can vary greatly among motor manufacturers, the available WK% at the motor should be obtained from the motor manufacturer.

## MATERIAL GAUGES AND SHAFT DIAMETERS FOR CIC BLOWERS

UNIT SIZE	CIC ARRANGEMENT 1, 9				
	OUTER HOUSING		SHAFT DIAMETER		
	STEEL	ALUM.	CLASS I	CLASS II	CLASS III
120	14 GA.	.080	1-7/16	1-7/16	---
135	12 GA.	.250	↓	↓	---
150	↓	↓	↓	↓	---
165	↓	↓	↓	↓	---
180	↓	↓	↓	↓	1-11/16
195	↓	↓	↓	↓	↓
210	↓	↓	↓	1-11/16	1-15/16
225	↓	↓	↓	↓	↓
245	↓	↓	1-11/16	1-15/16	2-3/16
270	↓	↓	↓	↓	↓

UNIT SIZE	CIC ARRANGEMENT 1, 9				
	OUTER HOUSING		SHAFT DIAMETER		
	STEEL	ALUM.	CLASS I	CLASS II	CLASS III
300	12 GA.	.250	1-15/16	2-3/16	2-7/16
330	↓	↓	↓	↓	↓
365	↓	↓	2-3/16	2-7/16	2-15/16
402	↓	↓	↓	↓	↓
445	10 GA.	.3125	2-7/16	2-15/16	3-7/16
490	↓	↓	↓	↓	↓
540	↓	NA	2-15/16	3-7/16	3-15/16
600	↓	NA	↓	↓	↓
660	↓	NA	3-7/16	3-15/16	4-7/16
730	↓	NA	↓	↓	↓

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## BELT DRIVE — CAPACITIES

OUTLET AREA: 1.99  
WHEEL DIAMETER: 12

CLASS I

CLASS II

Selection above 3600 RPM requires 3450 RPM motor.

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
798	400	1043	.05	1144	.08	1231	.10	1308	.12	1379	.14	1448	.16	1517	.19	1582	.21	1718	.27
998	500	1252	.09	1340	.12	1420	.15	1493	.17	1559	.20	1621	.23	1679	.25	1734	.28	1845	.34
1197	600	1458	.14	1545	.17	1617	.21	1683	.24	1746	.27	1805	.31	1860	.34	1912	.37	2011	.43
1397	700	1687	.21	1755	.24	1820	.28	1881	.33	1939	.37	1994	.40	2047	.44	2098	.48	2192	.58
1596	800	1909	.30	1970	.34	2028	.38	2085	.43	2138	.47	2189	.52	2239	.57	2287	.61	2378	.70
1796	900	2132	.42	2188	.46	2241	.51	2292	.55	2342	.61	2390	.66	2436	.71	2481	.77	2567	.86
1995	1000	2357	.57	2406	.61	2457	.66	2504	.71	2550	.76	2595	.82	2638	.88	2680	.94	2761	1.06
2195	1100	2583	.74	2629	.79	2674	.84	2718	.90	2761	.95	2803	1.01	2843	1.07	2883	1.14	2960	1.27
2394	1200	2809	.95	2852	1.01	2894	1.06	2935	1.12	2975	1.18	3013	1.24	3052	1.30	3090	1.37	3163	1.51
2594	1300	3036	1.20	3078	1.26	3115	1.32	3153	1.38	3191	1.45	3227	1.51	3263	1.57	3299	1.64	3368	1.79
2793	1400	3264	1.49	3301	1.55	3338	1.62	3373	1.68	3409	1.75	3443	1.82	3477	1.89	3510	1.95	3576	2.11
2993	1500	3491	1.82	3527	1.89	3561	1.96	3595	2.03	3628	2.10	3661	2.17	3693	2.25	3724	2.32	3786	2.47
3192	1600	3720	2.20	3753	2.27	3785	2.35	3817	2.42	3848	2.50	3879	2.57	3910	2.65	3940	2.73	3999	2.88
3392	1700	3948	2.63	3979	2.71	4010	2.79	4040	2.86	4070	2.95	4099	3.03	4128	3.11	4157	3.19	4213	3.35
3591	1800	4177	3.11	4206	3.19	4235	3.27	4264	3.36	4292	3.44	4320	3.53	4348	3.62	4375	3.70	4429	3.87
3791	1900	4405	3.64	4433	3.73	4461	3.82	4488	3.91	4515	4.00	4542	4.09	4569	4.18	4595	4.27	4646	4.45
3990	2000	4634	4.24	4661	4.33	4687	4.43	4713	4.52	4739	4.61	4765	4.71	4790	4.80	4815	4.90	4864	5.09

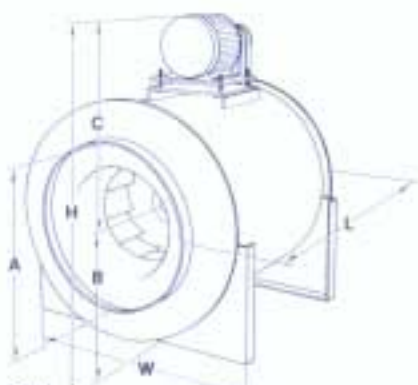
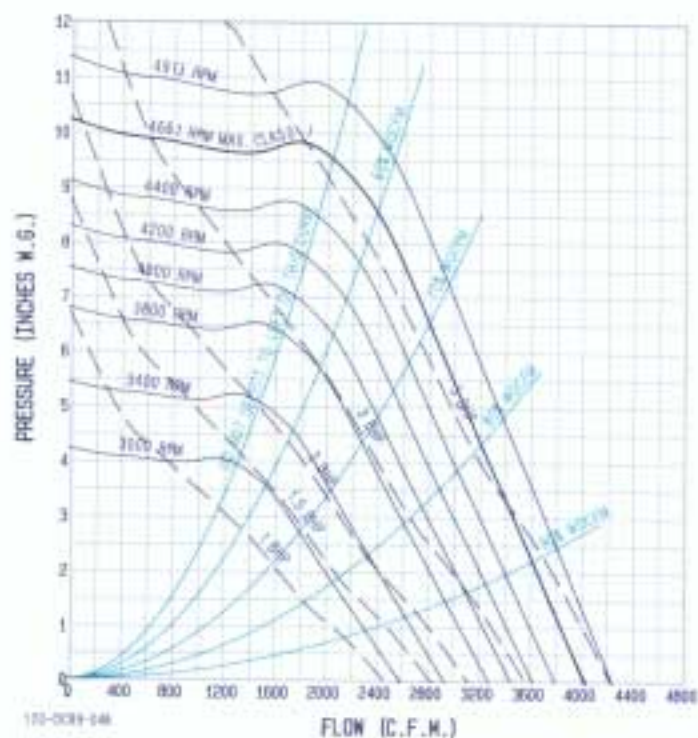
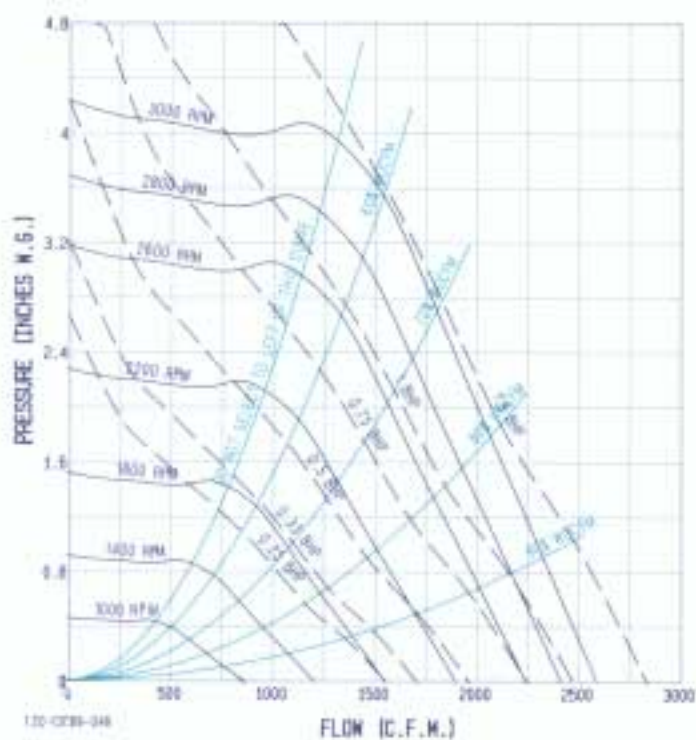
C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
998	500	1952	.40	2055	.47	2168	.54												
1197	600	2102	.50	2195	.57	2286	.64	2458	.80	2645	.97								
1397	700	2279	.63	2361	.70	2439	.78	2598	.95	2750	1.12	2900	1.31	3060	1.50				
1596	800	2462	.79	2541	.87	2616	.95	2758	1.13	2895	1.31	3033	1.51	3183	1.71	3324	1.92	3436	2.14
1796	900	2649	.96	2726	1.06	2799	1.16	2935	1.34	3062	1.54	3182	1.74	3306	1.95	3429	2.18	3544	2.40
1995	1000	2839	1.17	2914	1.28	2985	1.39	3118	1.60	3241	1.81	3357	2.02	3467	2.24	3575	2.47	3689	2.71
2195	1100	3034	1.40	3105	1.52	3174	1.64	3304	1.88	3424	2.12	3536	2.35	3644	2.58	3746	2.82	3845	3.06
2394	1200	3233	1.65	3300	1.80	3366	1.93	3491	2.19	3610	2.46	3720	2.71	3824	2.96	3924	3.22	4021	3.47
2594	1300	3435	1.94	3500	2.10	3562	2.25	3683	2.54	3797	2.83	3906	3.11	4009	3.39	4106	3.66	4200	3.93
2793	1400	3640	2.27	3702	2.43	3762	2.60	3877	2.93	3988	3.24	4093	3.54	4195	3.85	4291	4.15	4383	4.44
2993	1500	3847	2.64	3906	2.81	3964	2.99	4075	3.34	4181	3.69	4284	4.02	4382	4.34	4477	4.66	4569	5.01
3192	1600	4056	3.05	4113	3.23	4169	3.42	4276	3.80	4378	4.18	4477	4.54	4573	4.89	4665	5.24		
3392	1700	4268	3.52	4322	3.70	4375	3.90	4478	4.29	4576	4.70	4673	5.10						
3591	1800	4481	4.04	4533	4.22	4584	4.43	4683	4.84	4779	5.26								
3791	1900	4696	4.63	4746	4.82	4794	5.01												
3990	2000	4913	5.28																

C.F.M.	VEL	5-1/2 SP		6 SP		6-1/2 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1796	900	3655	2.64	3784	2.88	3908	3.13	4027	3.39								
1995	1000	3798	2.96	3903	3.21	4004	3.47	4110	3.73	4225	4.01	4336	4.28	4444	4.57		
2195	1100	3944	3.31	4047	3.58	4147	3.85	4244	4.13	4337	4.40	4428	4.68	4527	4.96	4632	5.29
2394	1200	4114	3.74	4203	4.00	4294	4.27	4389	4.56	4482	4.86	4571	5.16				
2594	1300	4291	4.21	4379	4.49	4464	4.77	4547	5.06								
2793	1400	4471	4.74	4557	5.03												

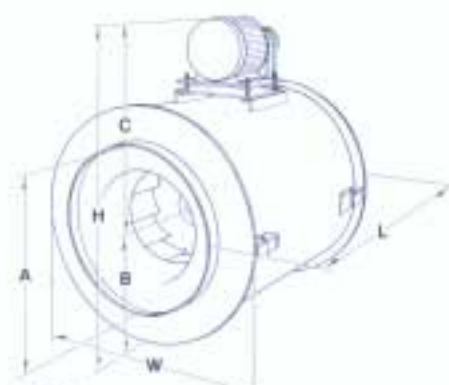
Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Underlined figures indicate maximum static efficiency.

# 120 CIC CENTRIFUGAL INLINE

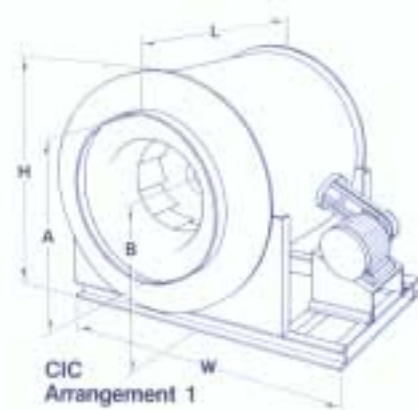
## BELT DRIVE — DIMENSION DATA



CIC Arrangement 9 (STYLE FM)



CIC Arrangement 9 (STYLE CM)



CIC Arrangement 1

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
120	16-1/8	12-1/2	20-7/8	33-3/8	25-3/4	25	19-1/8	184T	125

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
120	16-1/8	10-5/8	20-7/8	31-1/2	25-3/4	21-3/8	19-1/8	184T	125

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G. WT.
120	16-1/8	16-1/2	27-1/8	25-3/4	39-1/4	19-1/8	125

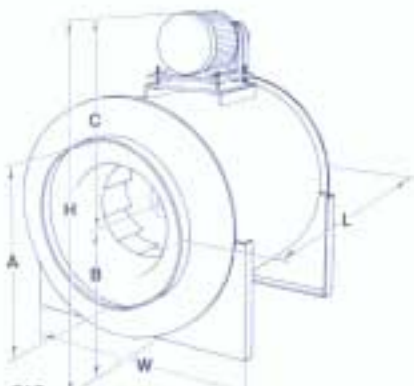
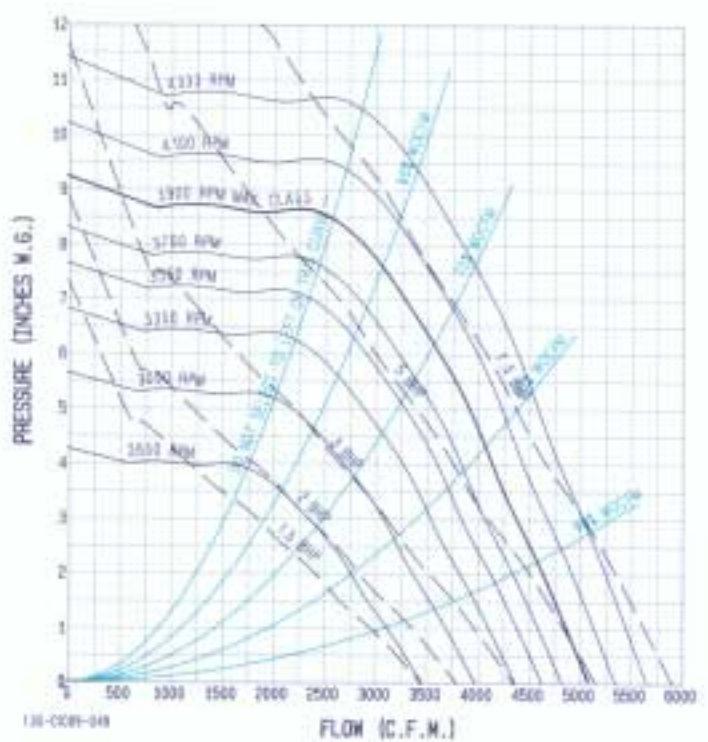
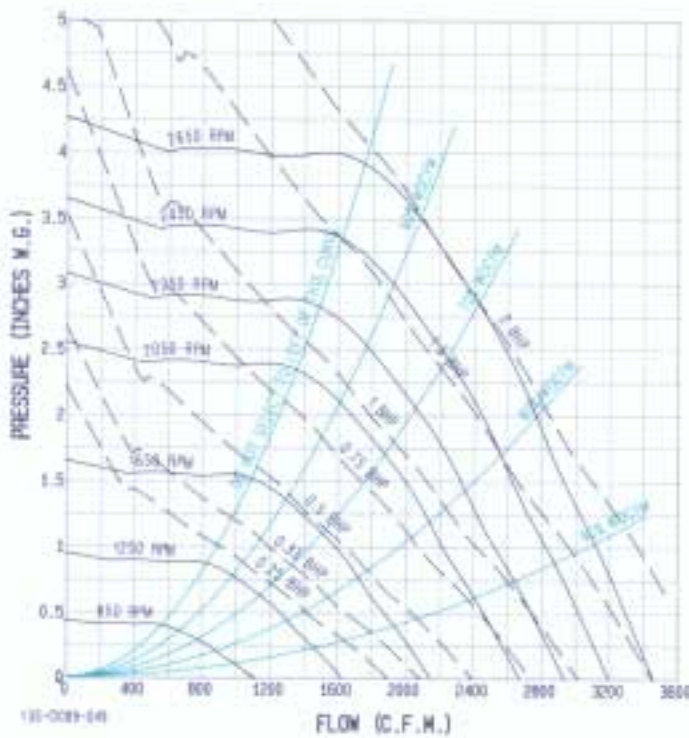
\*May vary with motor frame size.



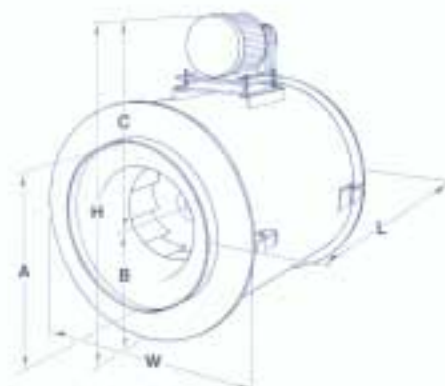


# 135 CIC CENTRIFUGAL INLINE

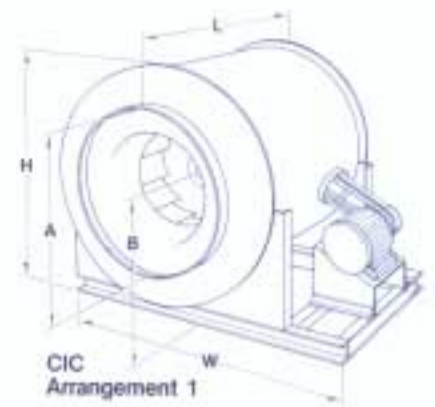
## BELT DRIVE — DIMENSION DATA



CIC Arrangement 9 (STYLE FM)



CIC Arrangement 9 (STYLE CM)



CIC Arrangement 1

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
135	17-5/8	13-3/8	22-7/8	36-1/4	29-1/2	25-3/4	21-1/2	184T	155

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
135	17-5/8	11-7/8	22-7/8	34-3/4	29-1/2	23-3/4	21-1/2	184T	155

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G. WT.
135	17-5/8	17-3/8	29-1/4	29-1/2	41	21-1/2	155

\*May vary with motor frame size.

# 150 CIC CENTRIFUGAL INLINE BELT DRIVE — CAPACITIES

OUTLET AREA: 3.10  
WHEEL DIAMETER: 15

CLASS I

CLASS II

Selection above 3100 RPM requires 3450 RPM motor.

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1244	400	791	.07	866	.11	934	.14	1003	.18	1065	.21	1126	.25	1185	.29	<u>1241</u>	<u>.33</u>	1300	.41
1555	500	952	.12	1016	.16	1075	.20	1132	.25	1188	.29	1240	.33	1291	.38	1340	.42	<u>1437</u>	.51
1865	600	1118	.20	1172	.24	1225	.29	1274	.34	1323	.39	1369	.44	1412	.49	1459	.54	1546	.64
2176	700	1287	.29	1334	.34	1380	.40	1425	.45	1468	.51	1510	.57	1551	.63	1590	.68	1667	.81
2487	800	1457	.42	1499	.48	1540	.54	1581	.60	1620	.66	1658	.72	1694	.79	1731	.86	1802	.99
2798	900	1629	.58	1667	.65	1704	.71	1739	.78	1776	.85	1811	.92	1845	.99	1878	1.06	1944	1.21
3109	1000	1802	.78	1836	.85	1870	.92	1903	1.00	1935	1.07	1968	1.15	2000	1.23	2031	1.31	2090	1.46
3420	1100	1975	1.02	2007	1.10	2038	1.18	2068	1.26	2097	1.34	2127	1.42	2157	1.51	2186	1.59	2243	1.77
3731	1200	2149	1.31	2178	1.40	2207	1.48	2235	1.57	2263	1.66	2289	1.74	2316	1.83	2344	1.92	2397	2.11
4042	1300	2323	1.60	2350	1.75	2377	1.84	2403	1.93	2429	2.02	2454	2.12	2479	2.21	2503	2.31	2554	2.51
4353	1400	2497	2.05	2523	2.15	2548	2.25	2573	2.35	2597	2.45	2621	2.55	2644	2.65	2667	2.75	2713	2.96
4664	1500	2672	2.51	2696	2.61	2720	2.72	2743	2.82	2766	2.93	2788	3.04	2810	3.14	2832	3.25	2875	3.47
4974	1600	2847	3.03	2870	3.14	2892	3.25	2914	3.36	2935	3.48	2957	3.59	2978	3.71	2998	3.82	3039	4.05
5285	1700	3022	3.62	3044	3.74	3065	3.86	3085	3.97	3106	4.09	3126	4.21	3146	4.33	3166	4.46	3204	4.70
5596	1800	3198	4.28	3218	4.40	3238	4.53	3257	4.65	3277	4.78	3296	4.91	3315	5.04	3334	5.17	3371	5.42
5907	1900	3373	5.02	3392	5.15	3411	5.28	3430	5.41	3448	5.55	3467	5.68	3485	5.82	3503	5.95	3538	6.22
6218	2000	3548	5.83	<u>3567</u>	<u>5.98</u>	<u>3585</u>	<u>6.11</u>	<u>3603</u>	<u>6.24</u>	<u>3620</u>	<u>6.39</u>	<u>3638</u>	<u>6.54</u>	<u>3655</u>	<u>6.67</u>	<u>3672</u>	<u>6.81</u>	<u>3706</u>	<u>7.10</u>

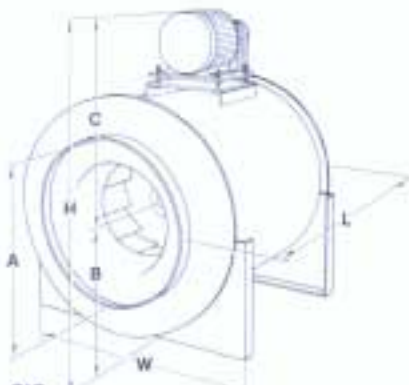
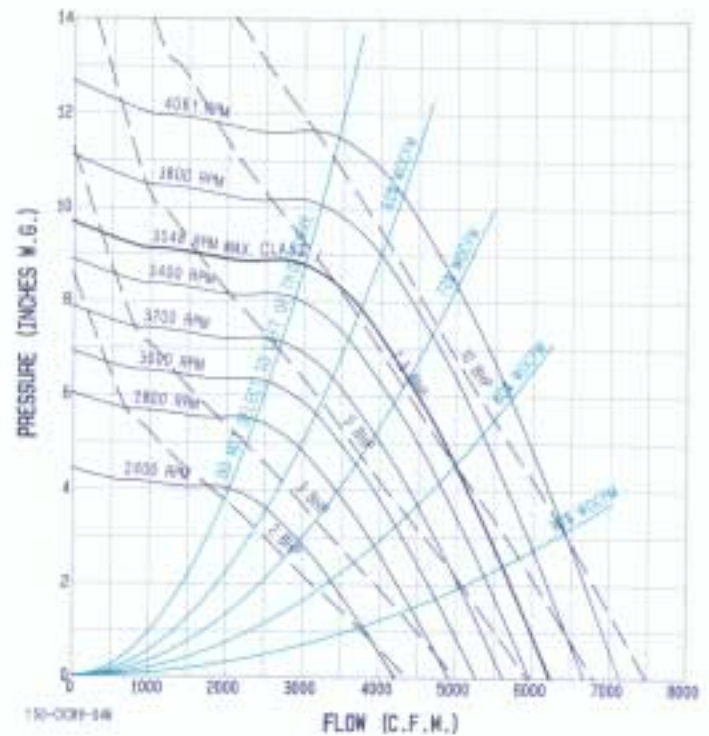
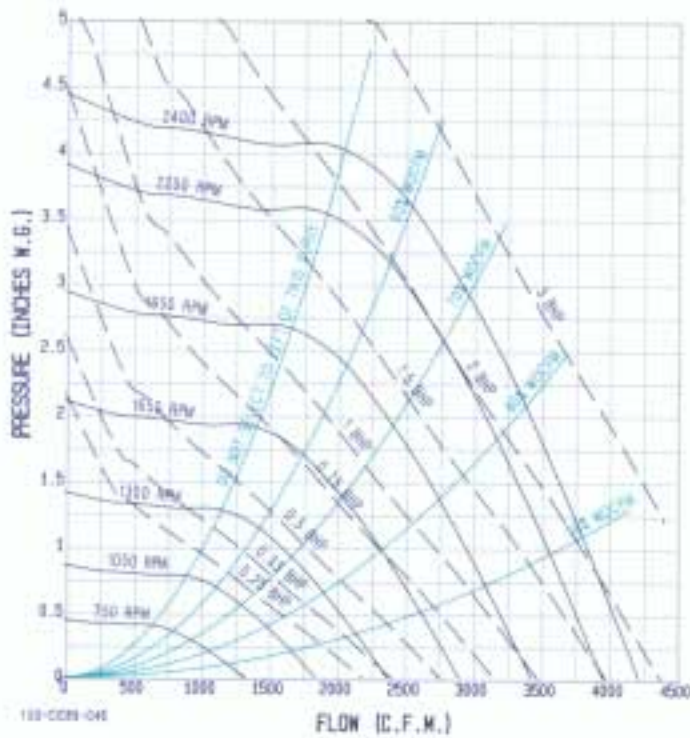
C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1555	500	<u>1529</u>	.61	<u>1623</u>	.71	1717	.82												
1865	600	1627	.75	1709	.86	<u>1787</u>	.98	<u>1941</u>	1.22	2096	1.48								
2176	700	1745	.93	1818	1.05	1886	1.17	2026	1.44	<u>2155</u>	<u>1.71</u>	2292	2.00	2424	2.30	2549	2.61		
2487	800	1868	1.13	1938	1.27	2005	1.40	2129	1.68	2251	1.98	<u>2369</u>	<u>2.28</u>	<u>2481</u>	<u>2.60</u>	<u>2602</u>	<u>2.93</u>	2720	3.28
2798	900	2007	1.36	2067	1.51	2126	1.67	2248	1.98	2380	2.29	2466	2.62	2576	2.96	2680	3.30	<u>2779</u>	<u>3.68</u>
3109	1000	2150	1.63	2207	1.80	2263	1.97	2370	2.32	2479	2.65	2582	3.00	2679	3.36	2776	3.72	2874	4.10
3420	1100	2297	1.94	2350	2.12	2404	2.31	2505	2.68	2601	3.06	2702	3.44	2797	3.82	2888	4.20	2975	4.60
3731	1200	2449	2.30	2499	2.49	2548	2.69	2645	3.09	2737	3.50	2824	3.92	2918	4.33	3007	4.74	3092	5.16
4042	1300	2603	2.71	2651	2.92	2697	3.12	2788	3.55	2877	3.99	2961	4.43	3042	4.88	3128	5.33	3211	5.77
4353	1400	2760	3.17	2806	3.40	2850	3.62	2935	4.07	3019	4.53	3101	5.00	3180	5.48	<u>3256</u>	<u>5.97</u>	<u>3333</u>	<u>6.44</u>
4664	1500	2918	3.70	2962	3.93	3004	4.16	3086	4.64	3164	5.13	3244	5.63	<u>3320</u>	<u>6.13</u>	<u>3394</u>	<u>6.64</u>	<u>3465</u>	<u>7.16</u>
4974	1600	3079	4.29	3120	4.53	3161	4.78	3240	5.28	3315	5.79	<u>3388</u>	<u>6.31</u>	<u>3462</u>	<u>6.84</u>	<u>3534</u>	<u>7.38</u>	<u>3604</u>	<u>7.93</u>
5285	1700	3242	4.95	3280	5.20	3319	5.46	3395	5.99	<u>3468</u>	<u>6.53</u>	<u>3538</u>	<u>7.07</u>	<u>3607</u>	<u>7.63</u>	<u>3677</u>	<u>8.19</u>	<u>3744</u>	<u>8.76</u>
5596	1800	3407	5.68	3443	5.95	3478	6.21	<u>3551</u>	<u>6.77</u>	<u>3622</u>	<u>7.33</u>	<u>3690</u>	<u>7.91</u>	<u>3756</u>	<u>8.49</u>	<u>3821</u>	<u>9.07</u>	<u>3887</u>	<u>9.67</u>
5907	1900	<u>3573</u>	<u>6.50</u>	<u>3607</u>	<u>6.77</u>	<u>3641</u>	<u>7.05</u>	3710	7.63	3778	8.22	3844	8.82	3908	9.42	<u>3970</u>	<u>10.03</u>		
6218	2000	3740	7.39	3772	7.57	3805	7.97	3869	8.56	3935	9.18	3999	9.80	4061	10.44				

C.F.M.	VEL	5-1/2 SP		6 SP		6-1/2 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2798	900	<u>2883</u>	<u>4.03</u>	2982	4.41	3094	4.80	3193	5.19	3289	5.60						
3109	1000	2967	4.48	<u>3067</u>	<u>4.88</u>	<u>3148</u>	<u>5.28</u>	3246	5.70	3342	6.13	3434	6.56	3523	7.00	3610	7.45
3420	1100	3064	5.00	3153	5.42	3238	5.84	<u>3321</u>	<u>6.27</u>	<u>3401</u>	<u>6.70</u>	<u>3487</u>	<u>7.15</u>	3576	7.62	3663	8.06
3731	1200	3174	5.58	3253	6.01	3335	6.46	3417	6.91	3496	7.36	3573	7.83	<u>3648</u>	<u>8.30</u>	<u>3721</u>	<u>8.77</u>
4042	1300	3292	6.22	3370	6.68	3445	7.14	3518	7.61	3593	8.08	3669	8.57	3743	9.06	3816	9.56
4353	1400	3412	6.92	3489	7.40	3563	7.89	3635	8.38	3705	8.88	3772	9.37	3841	9.89	3912	10.41
4664	1500	3535	7.68	3610	8.19	3683	8.70	3754	9.22	3823	9.74	<u>3890</u>	<u>10.27</u>				
4974	1600	3671	8.48	3736	9.03	3805	9.58	3875	10.13								
5285	1700	<u>3810</u>	<u>9.34</u>	<u>3874</u>	<u>9.92</u>	<u>3937</u>	<u>10.52</u>										
5596	1800	3951	10.27														

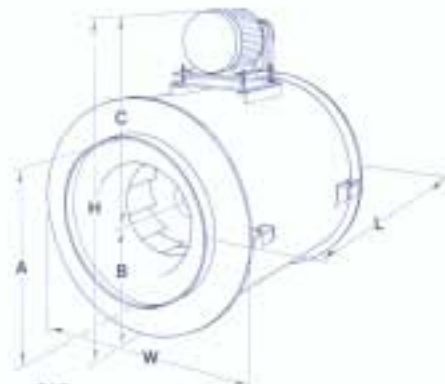
Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.  
Underlined figures indicate maximum static efficiency.

# 150 CIC CENTRIFUGAL INLINE

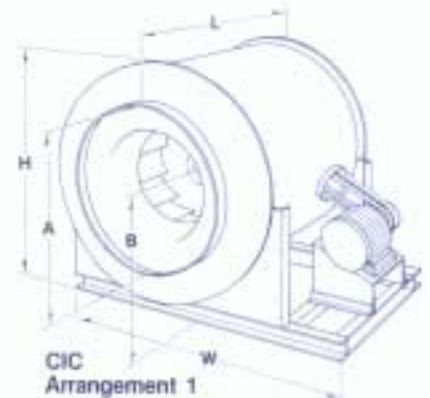
## BELT DRIVE — DIMENSION DATA



CIC Arrangement 9 (STYLE FM)



CIC Arrangement 9 (STYLE CM)



CIC Arrangement 1

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
150	19-1/8	14-1/2	24	38-1/2	31-1/4	29	23-7/8	184T	190

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
150	19-1/8	13-1/16	24	37	31-1/4	26-1/8	23-7/8	184T	190

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G. WT.
150	19-1/8	18-1/2	31-9/16	31-1/4	43-1/4	23-7/8	190

\*May vary with motor frame size.

# 165 CIC CENTRIFUGAL INLINE

## BELT DRIVE — CAPACITIES

OUTLET AREA: 3.75  
WHEEL DIAMETER: 16.5

CLASS I  
CLASS II

Selection above 2700 RPM requires 3450 RPM motor.

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1503	400	801	.10	868	.14	924	.18	977	.22	1029	.26	1078	.30	1123	.35	1173	.39	<u>1268</u>	.49
1879	500	969	.17	1026	.22	1078	.27	1125	.31	1168	.36	1210	.41	1253	.46	1294	.52	1370	.82
2255	600	1141	.27	1189	.33	1236	.38	1280	.44	1322	.50	1359	.56	1395	.61	1429	.67	1501	.80
2631	700	1315	.41	1358	.47	1399	.54	1439	.60	1477	.67	1514	.74	1548	.81	1580	.87	1641	1.01
3006	800	1491	.59	1529	.66	1565	.73	1601	.81	1637	.88	1671	.96	1704	1.04	1735	1.11	1793	1.27
3382	900	1668	.82	1702	.90	1735	.98	1768	1.06	1800	1.14	1831	1.23	1862	1.31	1892	1.40	1949	1.58
3758	1000	1845	1.10	1877	1.19	1907	1.28	1937	1.37	1966	1.46	1995	1.55	2023	1.64	2051	1.74	2105	1.93
4134	1100	2024	1.45	2053	1.54	2081	1.64	2108	1.74	2135	1.84	2161	1.94	2187	2.04	2213	2.14	2264	2.35
4510	1200	2202	1.86	2229	1.96	2255	2.07	2281	2.18	2306	2.28	2330	2.39	2354	2.50	2378	2.61	2426	2.83
4885	1300	2382	2.34	2406	2.45	2431	2.57	2454	2.68	2478	2.80	2501	2.92	2523	3.03	2545	3.15	2590	3.39
5261	1400	2561	2.90	2584	3.03	2607	3.15	2629	3.27	2651	3.40	2673	3.52	2694	3.65	2715	3.77	2756	4.03
5637	1500	2741	3.55	2762	3.68	2784	3.82	2805	3.96	2825	4.08	2846	4.21	2866	4.35	2885	4.48	2924	4.75
6013	1600	2921	4.29	2941	4.43	2961	4.57	2981	4.71	3000	4.85	3019	4.99	3039	5.14	3057	5.28	3094	5.57
6389	1700	3101	5.13	3120	5.28	3139	5.43	3157	5.57	3176	5.72	3194	5.87	3212	6.02	3230	6.18	3265	6.48
6764	1800	3281	6.07	3299	6.23	3317	6.38	3335	6.54	3352	6.70	3370	6.86	3387	7.02	3404	7.18	3437	7.49
7140	1900	3461	7.12	3478	7.28	3496	7.45	3512	7.62	3529	7.78	3545	7.95	3562	8.12	3578	8.28	<u>3610</u>	8.62
7516	2000	<u>3641</u>	8.28	<u>3658</u>	8.46	<u>3674</u>	8.63	<u>3690</u>	8.81	<u>3706</u>	8.98	<u>3722</u>	9.16	<u>3738</u>	9.34	<u>3753</u>	9.51	<u>3784</u>	9.87

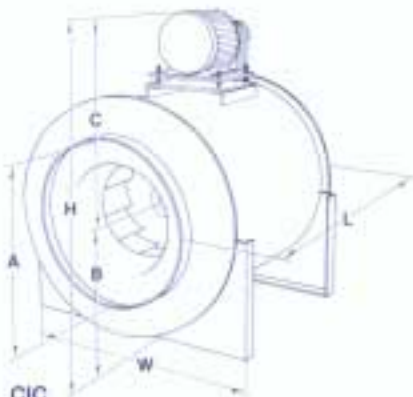
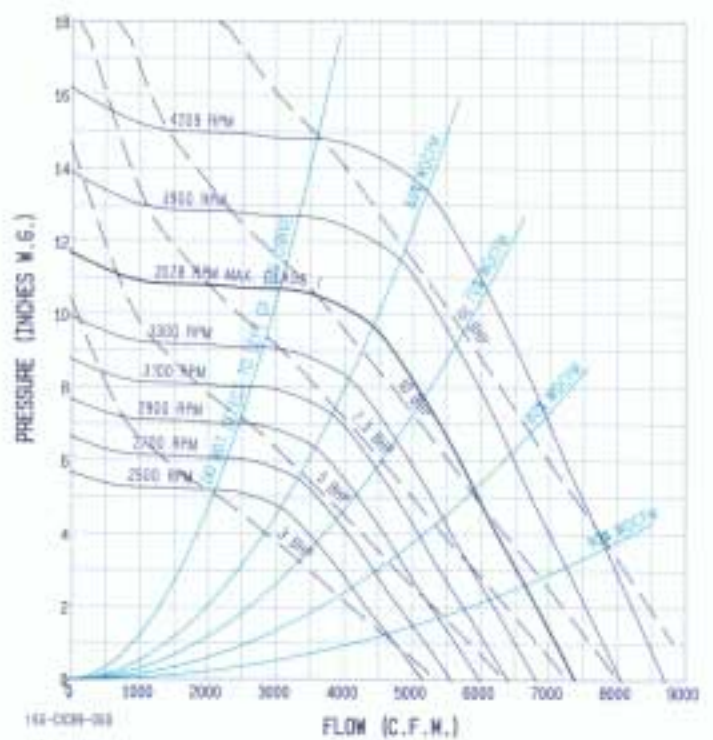
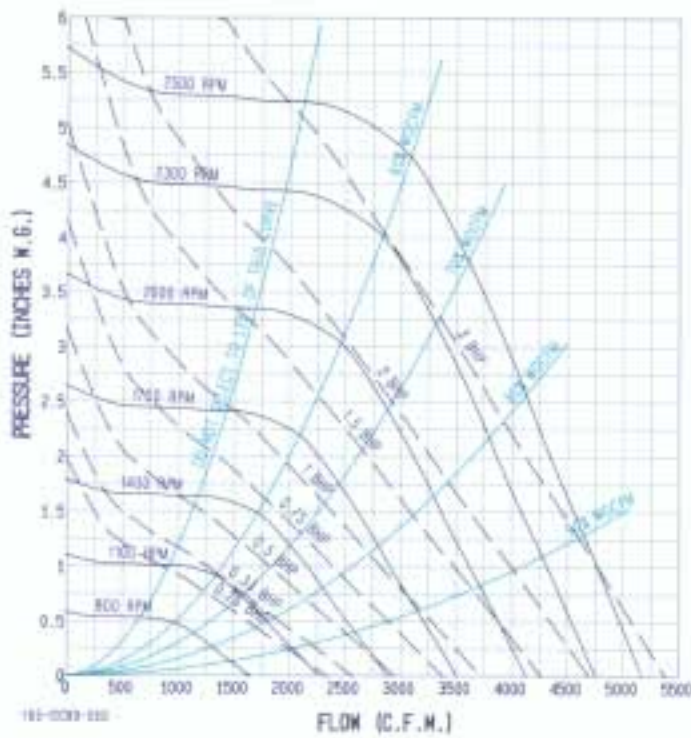
C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1503	400	1369	.59	1465	.69	1553	.80	1731	1.04										
1879	500	1446	.74	1525	.85	1599	.97	1760	1.23	1907	1.49								
2255	600	1568	.92	1632	1.05	1692	1.18	<u>1825</u>	<u>1.46</u>	<u>1962</u>	<u>1.75</u>	2087	2.06						
2631	700	1701	1.15	1762	1.29	1820	1.44	1928	1.74	2038	2.06	<u>2150</u>	<u>2.39</u>	<u>2257</u>	<u>2.73</u>	2375	3.08	2486	3.45
3006	800	1848	1.42	1900	1.58	1953	1.74	2058	2.07	2155	2.41	2246	2.76	2346	3.13	<u>2443</u>	<u>3.51</u>	<u>2536</u>	<u>3.89</u>
3382	900	2001	1.75	2050	1.92	2098	2.09	2191	2.45	2285	2.82	2374	3.20	2457	3.59	2537	3.99	2628	4.40
3758	1000	2156	2.13	2205	2.32	2250	2.51	2336	2.90	2420	3.30	2505	3.70	2587	4.12	2665	4.54	2740	4.98
4134	1100	2313	2.56	2360	2.77	2405	2.99	2488	3.41	2566	3.83	2640	4.27	2720	4.72	2796	5.17	2869	5.63
4510	1200	2472	3.06	2517	3.29	2560	3.52	2643	3.99	2718	4.45	2789	4.91	2858	5.38	2930	5.87	3001	6.36
4885	1300	2634	3.64	2676	3.88	2718	4.13	2798	4.64	2872	5.14	2941	5.63	3008	6.13	3072	6.64	<u>3136</u>	<u>7.16</u>
5261	1400	2797	4.29	2838	4.55	2878	4.82	2954	5.35	3028	5.90	3096	6.44	3160	6.97	<u>3222</u>	<u>7.51</u>	<u>3282</u>	<u>8.05</u>
5637	1500	2962	5.02	3001	5.30	3039	5.59	3113	6.16	3183	6.73	3251	7.32	<u>3315</u>	<u>7.90</u>	<u>3375</u>	<u>8.47</u>	<u>3433</u>	<u>9.04</u>
6013	1600	3130	5.86	3166	6.15	3202	6.45	3273	7.05	3341	7.66	<u>3407</u>	<u>8.29</u>	<u>3470</u>	<u>8.91</u>	<u>3530</u>	<u>9.53</u>	<u>3586</u>	<u>10.13</u>
6389	1700	3300	6.79	3334	7.10	3367	7.41	3435	8.04	<u>3501</u>	<u>8.69</u>	<u>3564</u>	<u>9.34</u>	<u>3625</u>	<u>10.00</u>	<u>3685</u>	<u>10.67</u>	<u>3741</u>	<u>11.32</u>
6764	1800	3470	7.82	3503	8.15	3535	8.48	<u>3599</u>	<u>9.14</u>	<u>3662</u>	<u>9.82</u>	<u>3723</u>	<u>10.50</u>	<u>3783</u>	<u>11.19</u>	<u>3840</u>	<u>11.89</u>	<u>3897</u>	<u>12.60</u>
7140	1900	<u>3642</u>	<u>8.96</u>	<u>3673</u>	<u>9.31</u>	<u>3703</u>	<u>9.65</u>	<u>3754</u>	<u>10.35</u>	<u>3825</u>	<u>11.06</u>	<u>3884</u>	<u>11.77</u>	<u>3941</u>	<u>12.49</u>	<u>3997</u>	<u>13.22</u>	<u>4052</u>	<u>13.96</u>
7516	2000	<u>3814</u>	<u>10.22</u>	<u>3844</u>	<u>10.58</u>	<u>3873</u>	<u>10.94</u>	<u>3931</u>	<u>11.67</u>	<u>3989</u>	<u>12.41</u>	<u>4046</u>	<u>13.16</u>	<u>4102</u>	<u>13.92</u>	<u>4156</u>	<u>14.67</u>	<u>4209</u>	<u>15.44</u>

C.F.M.	VEL	5-1/2 SP		6 SP		6-1/2 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3382	900	<u>2715</u>	<u>4.82</u>	<u>2789</u>	<u>5.25</u>	<u>2881</u>	<u>5.69</u>	2974	6.15	3064	6.61	3151	7.07	3236	7.55	3318	8.02
3758	1000	2811	5.42	2892	5.88	2972	6.35	<u>3049</u>	<u>6.82</u>	<u>3124</u>	<u>7.30</u>	<u>3197</u>	<u>7.79</u>	3281	8.29	3363	8.80
4134	1100	2938	6.10	3007	6.58	3072	7.06	3142	7.56	3216	8.07	3288	8.58	<u>3358</u>	<u>9.11</u>	<u>3426</u>	<u>9.63</u>
4510	1200	3069	6.85	3136	7.36	3200	7.87	3263	8.39	3324	8.92	3383	9.45	3451	10.00	3518	10.56
4885	1300	3203	7.68	3268	8.22	3331	8.76	3392	9.31	3452	9.87	3510	10.43	3567	10.99	3622	11.58
5261	1400	3341	8.61	3402	9.17	3464	9.74	3524	10.32	3583	10.90	3640	11.49	3696	12.09	3750	12.68
5637	1500	3480	9.63	3545	10.21	3599	10.81	3658	11.41	3716	12.03	3772	12.65	3827	13.27	3880	13.89
6013	1600	3642	10.74	3695	11.36	3748	11.99	3799	12.61	3851	13.26	3906	13.90	3960	14.56		
6389	1700	3795	11.96	3848	12.61	3899	13.27	3949	13.93	3998	14.59	4046	15.26				
6764	1800	3951	13.30	4002	13.98	4052	14.66	4100	15.34								
7140	1900	4106	14.71	4158	15.46												

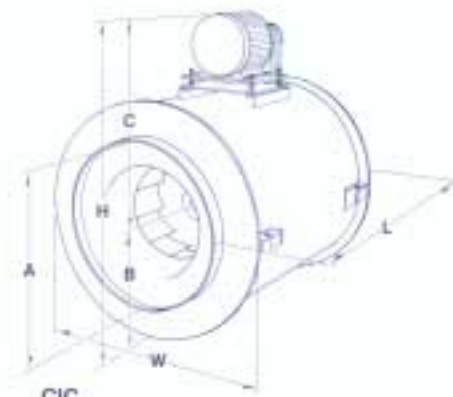
Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of apertures in the airstream. Underlined figures indicate maximum static efficiency.

# 165 CIC CENTRIFUGAL INLINE

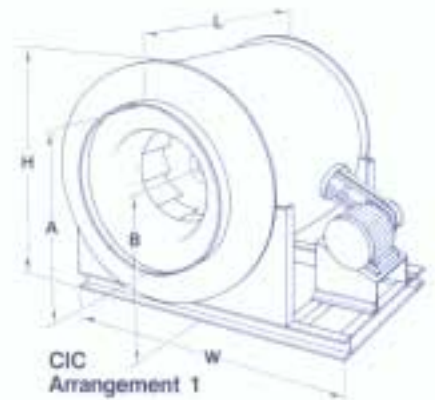
## BELT DRIVE — DIMENSION DATA



CIC Arrangement 9 (STYLE FM)



CIC Arrangement 9 (STYLE CM)



CIC Arrangement 1

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
165	21-3/16	15-11/16	25-3/8	42-1/16	33-15/16	31-3/8	26-1/4	184T	235

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
165	21-3/16	14-1/4	25-3/8	40-9/16	33-15/16	28-1/2	26-1/4	184T	235

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G. WT.
165	21-3/16	19-11/16	33-15/16	33-15/16	45-5/8	26-1/4	235

\*May vary with motor frame size.

# 180 CIC CENTRIFUGAL INLINE

## BELT DRIVE — CAPACITIES

OUTLET AREA: 4.42  
WHEEL DIAMETER: 18

CLASS I

CLASS II

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2210	500	557	.16	743	.22	796	.28	849	.33	901	.40	949	.46	993	.52	1039	.59	1125	.73
2652	600	603	.26	851	.32	898	.39	943	.45	988	.53	1029	.59	1072	.67	1113	.74	1190	.90
3094	700	920	.38	964	.46	1005	.53	1044	.61	1082	.69	1121	.77	1158	.85	1195	.93	1266	1.10
3536	800	1039	.54	1076	.63	1115	.71	1152	.80	1185	.89	1218	.97	1254	1.07	1286	1.16	1352	1.35
3978	900	1159	.74	1195	.84	1229	.94	1261	1.03	1293	1.13	1324	1.23	1354	1.33	1384	1.43	1443	1.63
4420	1000	1280	1.00	1313	1.10	1344	1.21	1374	1.31	1403	1.42	1432	1.53	1459	1.64	1486	1.75	1539	1.97
4862	1100	1401	1.30	1432	1.42	1461	1.54	1489	1.65	1516	1.77	1542	1.89	1568	2.01	1593	2.13	1643	2.37
5304	1200	1523	1.67	1551	1.80	1579	1.92	1605	2.05	1630	2.18	1654	2.30	1679	2.43	1703	2.56	1749	2.82
5746	1300	1645	2.10	1672	2.24	1697	2.37	1721	2.51	1745	2.64	1768	2.78	1792	2.93	1814	3.06	1858	3.35
6188	1400	1766	2.59	1792	2.74	1816	2.89	1839	3.04	1862	3.19	1884	3.34	1905	3.48	1927	3.64	1989	3.94
6630	1500	1891	3.17	1914	3.33	1936	3.49	1958	3.65	1980	3.81	2000	3.96	2021	4.12	2042	4.29	2082	4.61
7072	1600	2014	3.82	2035	3.99	2057	4.16	2077	4.33	2098	4.50	2118	4.67	2137	4.84	2156	5.01	2194	5.36
7514	1700	2137	4.56	2158	4.74	2179	4.92	2198	5.10	2218	5.28	2236	5.47	2254	5.64	2273	5.83	2309	6.19
7956	1800	2260	5.38	2280	5.58	2299	5.77	2317	5.96	2336	6.15	2354	6.34	2372	6.54	2389	6.72	2424	7.11
8398	1900	2384	6.31	2402	6.52	2420	6.72	2438	6.92	2456	7.12	2473	7.32	2491	7.53	2507	7.72	2541	8.14
8840	2000	2507	7.34	2525	7.55	2542	7.76	2559	7.96	2576	8.18	2593	8.40	2610	8.62	2626	8.83	2657	9.25

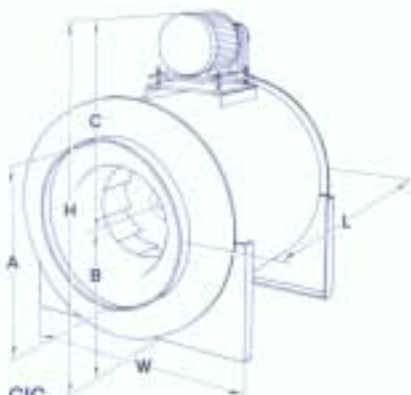
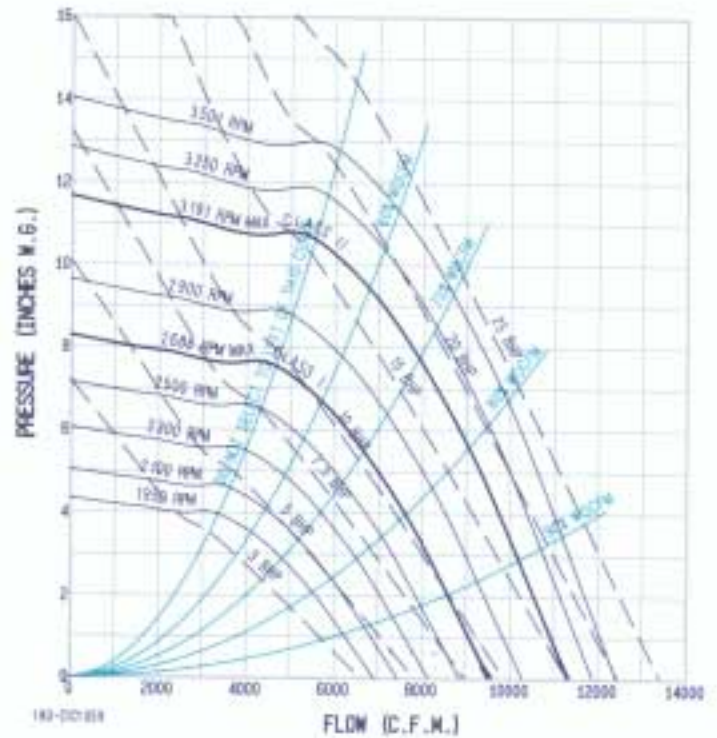
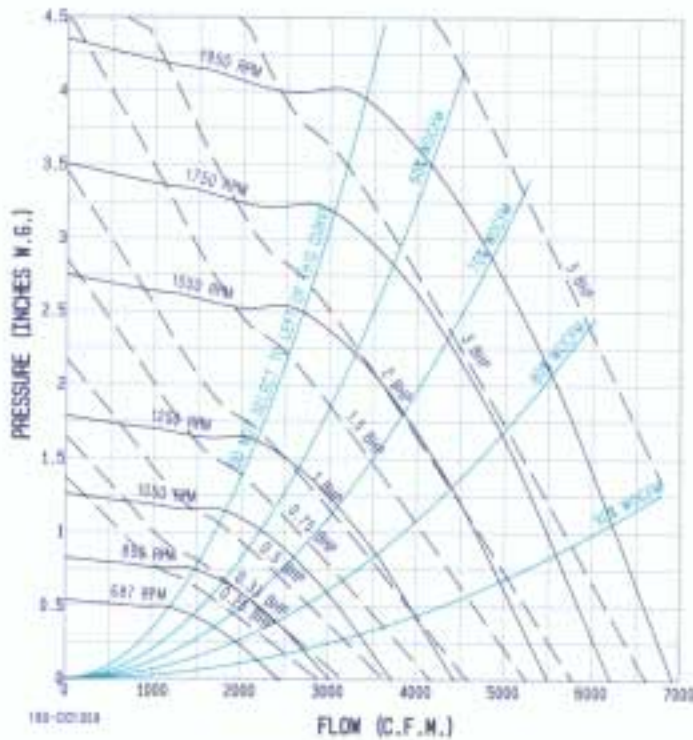
C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2210	500	1208	.88																
2652	600	1266	1.06	1336	1.22	1409	1.41												
3094	700	1335	1.28	1401	1.46	1468	1.66	1587	2.04	1709	2.47								
3536	800	1417	1.55	1476	1.74	1536	1.95	1652	2.38	1750	2.81	1865	3.27						
3978	900	1503	1.85	1558	2.06	1616	2.29	1724	2.75	1821	3.20	1924	3.72	2014	4.19	2113	4.75	2207	5.31
4420	1000	1583	2.20	1647	2.44	1701	2.68	1802	3.18	1896	3.67	1990	4.19	2081	4.74	2167	5.28	2255	5.88
4862	1100	1691	2.61	1742	2.87	1788	3.11	1883	3.64	1975	4.18	2065	4.75	2147	5.30	2236	5.92	2312	6.48
5304	1200	1794	3.09	1839	3.35	1885	3.63	1972	4.18	2062	4.78	2146	5.37	2225	5.96	2305	6.58	2379	7.17
5746	1300	1901	3.63	1942	3.91	1985	4.21	2068	4.81	2149	5.41	2227	6.02	2304	6.65	2382	7.32	2453	7.95
6188	1400	2010	4.24	2050	4.55	2089	4.87	2165	5.49	2241	6.13	2318	6.79	2390	7.44	2466	8.16	2536	8.84
6630	1500	2119	4.93	2158	5.26	2194	5.58	2265	6.24	2338	6.93	2410	7.62	2482	8.34	2552	9.06	2620	9.79
7072	1600	2230	5.69	2268	6.05	2301	6.37	2371	7.09	2437	7.79	2504	8.52	2570	9.24	2639	10.03	2701	10.75
7514	1700	2343	6.54	2377	6.91	2413	7.29	2478	8.03	2542	8.78	2605	9.53	2666	10.28	2729	11.07	2796	11.92
7956	1800	2458	7.50	2491	7.88	2523	8.27	2585	9.03	2647	9.83	2708	10.63	2769	11.45	2827	12.26	2888	13.11
8398	1900	2572	8.52	2603	8.93	2636	9.36	2696	10.17	2755	10.99	2813	11.84	2869	12.67	2928	13.56	2983	14.40
8840	2000	2688	9.68	2718	10.10	2749	10.54	2806	11.38	2863	12.24	2919	13.13	2973	14.00	3026	14.87	3081	15.80

C.F.M.	VEL	5-1/2 SP		6 SP		6-3/4 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3978	900																
4420	1000	2342	6.47	2420	7.04												
4862	1100	2394	7.11	2467	7.69	2576	8.62	2626	9.05	2696	9.69						
5304	1200	2457	7.84	2533	8.51	2626	9.39	2676	9.84	2741	10.48	2819	11.27	2882	11.94		
5746	1300	2529	8.66	2595	9.30	2694	10.30	2739	10.76	2801	11.42	2866	12.14	2934	12.91	3005	13.75
6188	1400	2603	9.53	2674	10.27	2763	11.25	2806	11.74	2873	12.52	2935	13.27	2992	13.97	3051	14.71
6630	1500	2686	10.52	2749	11.24	2842	12.36	2877	12.78	2941	13.60	3001	14.38	3064	15.21	3121	15.99
7072	1600	2771	11.60	2833	12.36	2918	13.46	2951	13.91	3014	14.76	3073	15.57	3133	16.44	3188	17.25
7514	1700	2854	12.68	2914	13.49	2997	14.64	3037	15.21	3092	16.01	3148	16.87	3207	17.77	3260	18.61
7956	1800	2945	13.93	3005	14.81	3087	16.03	3119	16.53	3173	17.37	3228	18.27	3286	19.22	3336	20.10
8398	1900	3040	15.29	3093	16.13	3174	17.44	3208	17.97	3258	18.86	3313	19.80	3369	20.79	3420	21.71
8840	2000	3132	16.67	3191	17.68	3265	18.97	3297	19.54	3349	20.48	3396	21.35	3451	22.38	3501	23.34

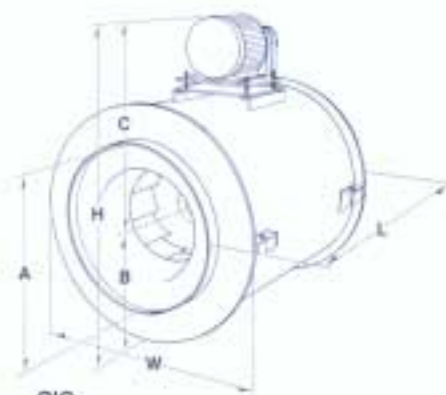
Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Underlined figures indicate maximum static efficiency.

# 180 CIC CENTRIFUGAL INLINE

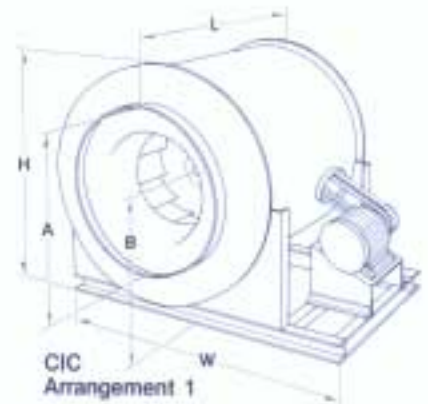
## BELT DRIVE — DIMENSION DATA



CIC Arrangement 9 (STYLE FM)



CIC Arrangement 9 (STYLE CM)



CIC Arrangement 1

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
180	22-11/16	17-1/16	30	47-1/16	35-3/8	34-1/8	28-1/2	215T	280

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
180	22-11/16	15-13/16	30	45-13/16	35-3/8	31-5/8	28-1/2	215T	280

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G. WT.
180	22-11/16	21-1/16	36-7/8	35-3/8	50-9/16	28-1/2	280

\*May vary with motor frame size.

# 195 CIC CENTRIFUGAL INLINE

## BELT DRIVE – CAPACITIES

OUTLET AREA: 5.2  
WHEEL DIAMETER: 19.5

CLASS I
CLASS II
CLASS III

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2600	500	653	.18	718	.24	759	.31	819	.38	866	.45	911	.53	956	.60	999	.68	1085	.85
3120	600	775	.28	821	.35	867	.43	910	.51	951	.59	990	.67	1031	.76	1069	.85	1145	1.03
3640	700	890	.41	930	.50	969	.59	1007	.67	1045	.77	1082	.86	1116	.96	1150	1.05	1216	1.26
4160	800	1005	.58	1041	.68	1076	.78	1110	.88	1144	.98	1177	1.09	1209	1.19	1240	1.30	1302	1.53
4680	900	1124	.79	1155	.91	1186	1.02	1217	1.13	1247	1.25	1277	1.36	1306	1.48	1337	1.60	1393	1.84
5200	1000	1242	1.05	1270	1.18	1298	1.31	1326	1.43	1354	1.56	1381	1.69	1407	1.81	1436	1.95	1487	2.20
5720	1100	1361	1.37	1387	1.51	1412	1.65	1438	1.80	1463	1.94	1488	2.07	1512	2.21	1537	2.35	1587	2.64
6420	1200	1480	1.75	1504	1.91	1527	2.06	1550	2.21	1574	2.37	1597	2.52	1619	2.67	1643	2.83	1688	3.13
6760	1300	1600	2.20	1622	2.37	1643	2.53	1665	2.70	1687	2.87	1708	3.03	1729	3.20	1750	3.36	1792	3.69
7280	1400	1720	2.72	1740	2.90	1760	3.08	1780	3.26	1800	3.43	1820	3.62	1840	3.79	1860	3.97	1900	4.33
7800	1500	1840	3.31	1859	3.51	1877	3.70	1896	3.89	1915	4.08	1933	4.27	1952	4.47	1971	4.66	2007	5.03
8320	1600	1960	3.99	1978	4.20	1995	4.40	2013	4.61	2031	4.82	2047	5.01	2065	5.23	2083	5.43	2118	5.84
8840	1700	2081	4.76	2097	4.98	2114	5.20	2130	5.42	2146	5.63	2163	5.85	2180	6.07	2196	6.29	2228	6.71
9360	1800	2201	5.62	2217	5.86	2232	6.09	2248	6.32	2263	6.55	2279	6.79	2294	7.00	2311	7.25	2341	7.70
9880	1900	2322	6.58	2336	6.83	2351	7.07	2366	7.32	2381	7.56	<u>2395</u>	<u>7.80</u>	<u>2410</u>	<u>8.05</u>	<u>2425</u>	<u>8.30</u>	<u>2454</u>	<u>8.78</u>
10400	2000	<u>2442</u>	<u>7.65</u>	<u>2456</u>	<u>7.91</u>	<u>2470</u>	<u>8.17</u>	<u>2484</u>	<u>8.42</u>	<u>2499</u>	<u>8.68</u>	<u>2513</u>	<u>8.95</u>	<u>2528</u>	<u>9.19</u>	<u>2541</u>	<u>9.46</u>	<u>2566</u>	<u>9.97</u>

C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2600	500	1161	1.01	1239	1.19	1313	1.38	1457	1.80	1606	2.26	1741	2.72	1858	3.19	1969	3.70	2067	4.19
3120	600	1218	1.22	1284	1.41	1353	1.62	1483	2.05	1608	2.52	1732	3.03	1852	3.56	1970	4.11	2082	4.67
3640	700	1283	1.47	1349	1.69	1409	1.90	<u>1526</u>	<u>2.35</u>	1642	2.85	1751	3.36	1861	3.92	1961	4.47	2063	5.06
4160	800	1360	1.75	1419	1.99	1476	2.23	1567	2.73	<u>1694</u>	<u>3.25</u>	<u>1794</u>	<u>3.78</u>	1892	4.34	1988	4.93	2078	5.52
4680	900	1448	2.09	1500	2.34	1552	2.60	1654	3.14	1755	3.71	1848	4.28	<u>1940</u>	<u>4.85</u>	2027	5.45	2116	6.09
5200	1000	1539	2.46	1587	2.75	1635	3.03	1731	3.62	1820	4.19	1914	4.82	2000	5.44	2083	6.07	2185	6.73
5720	1100	1634	2.82	1679	3.21	1725	3.51	1815	4.14	1898	4.76	1983	5.42	2066	6.10	2145	6.76	2224	7.46
6420	1200	1731	3.43	1777	3.75	1818	4.06	1901	4.72	1983	5.41	2063	6.12	2139	6.81	2214	7.53	2290	8.27
6760	1300	1836	4.03	1874	4.34	1916	4.68	1995	5.39	2088	6.08	2142	6.81	2216	7.58	2290	8.37	<u>2358</u>	<u>9.11</u>
7280	1400	1939	4.68	1977	5.04	2015	5.39	2089	6.11	2183	6.88	2232	7.64	2300	8.43	<u>2368</u>	<u>9.24</u>	<u>2434</u>	<u>10.05</u>
7800	1500	2043	5.41	2080	5.80	2117	6.18	2188	6.95	2258	7.74	2322	8.53	<u>2390</u>	<u>9.39</u>	<u>2452</u>	<u>10.20</u>	<u>2517</u>	<u>11.08</u>
8320	1600	2153	6.25	2187	6.65	2220	7.05	2288	7.87	2354	8.69	<u>2418</u>	<u>9.54</u>	<u>2482</u>	<u>10.41</u>	<u>2453</u>	<u>11.30</u>	<u>2602</u>	<u>12.16</u>
8840	1700	2262	7.16	2293	7.58	2327	8.03	2390	8.88	<u>2452</u>	<u>9.72</u>	2517	10.64	2575	11.52	2638	12.48	2695	13.44
9360	1800	2372	8.16	<u>2404</u>	<u>8.63</u>	<u>2434</u>	<u>9.08</u>	<u>2494</u>	<u>9.98</u>	<u>2556</u>	<u>10.93</u>	2612	11.80	2671	12.73	2726	13.68	2785	14.70
9880	1900	<u>2484</u>	<u>9.27</u>	<u>2513</u>	<u>9.74</u>	<u>2542</u>	<u>10.22</u>	<u>2600</u>	<u>11.19</u>	<u>2658</u>	<u>12.17</u>	2715	13.14	2769	14.08	2825	15.08	2878	16.08
10400	2000	<u>2596</u>	<u>10.47</u>	<u>2624</u>	<u>10.96</u>	<u>2652</u>	<u>11.49</u>	<u>2706</u>	<u>12.49</u>	<u>2763</u>	<u>13.54</u>	2816	14.52	2870	15.55	2921	16.54	2974	17.59

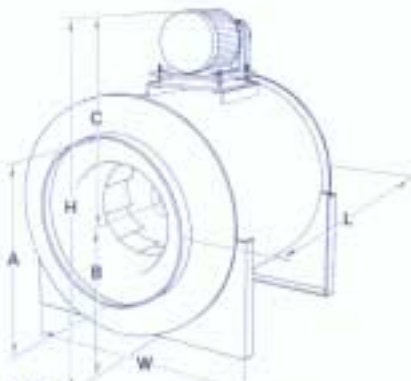
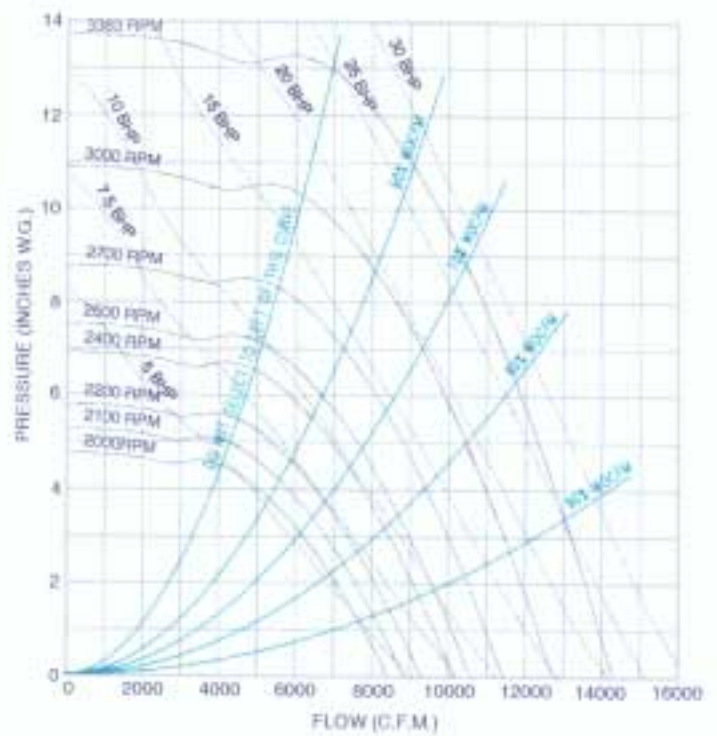
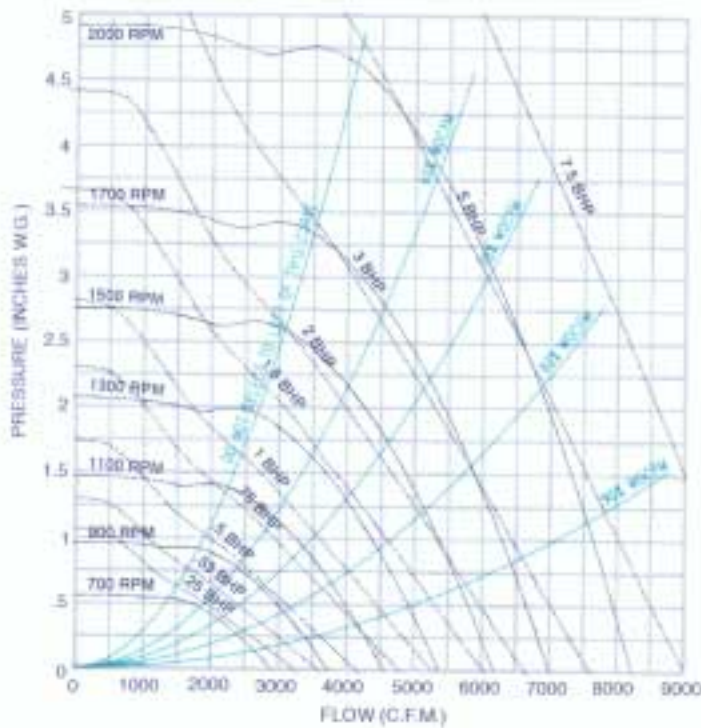
C.F.M.	VEL	5-1/2 SP		6 SP		6-1/2 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4680	900	2205	6.77	2286	7.42												
5200	1000	2248	7.43	2322	8.08	2400	8.80	2476	9.54	2557	10.35						
5720	1100	2301	8.18	<u>2371</u>	<u>8.85</u>	<u>2444</u>	<u>9.59</u>	<u>2522</u>	<u>10.41</u>	<u>2588</u>	<u>11.13</u>	2668	11.92	2732	12.79	2799	13.62
6420	1200	<u>2364</u>	<u>9.03</u>	<u>2430</u>	<u>9.73</u>	<u>2500</u>	<u>10.50</u>	<u>2573</u>	<u>11.34</u>	<u>2636</u>	<u>12.06</u>	<u>2701</u>	<u>12.86</u>	<u>2769</u>	<u>13.74</u>	<u>2841</u>	<u>14.69</u>
6760	1300	<u>2430</u>	<u>9.92</u>	<u>2499</u>	<u>10.73</u>	<u>2566</u>	<u>11.54</u>	<u>2629</u>	<u>12.33</u>	<u>2696</u>	<u>13.19</u>	2758	14.01	2823	14.90	2882	15.75
7280	1400	<u>2500</u>	<u>10.92</u>	<u>2565</u>	<u>11.70</u>	<u>2629</u>	<u>12.55</u>	<u>2696</u>	<u>13.47</u>	<u>2760</u>	<u>14.37</u>	2820	15.22	2882	16.14	2938	17.01
7800	1500	<u>2579</u>	<u>11.96</u>	<u>2639</u>	<u>12.61</u>	<u>2702</u>	<u>13.71</u>	<u>2767</u>	<u>14.69</u>	<u>2822</u>	<u>15.62</u>	2879	16.41	2938	17.36	3000	18.37
8320	1600	<u>2664</u>	<u>13.12</u>	<u>2722</u>	<u>14.05</u>	<u>2784</u>	<u>15.04</u>	<u>2835</u>	<u>15.87</u>	<u>2895</u>	<u>16.86</u>	2957	17.62	3008	18.79	3060	19.72
8840	1700	<u>2750</u>	<u>14.37</u>	<u>2803</u>	<u>15.26</u>	<u>2863</u>	<u>16.32</u>	<u>2913</u>	<u>17.22</u>	<u>2971</u>	<u>18.28</u>	<u>3025</u>	<u>19.29</u>	<u>3081</u>	<u>20.30</u>	<u>3132</u>	<u>21.30</u>
9360	1800	<u>2840</u>	<u>15.70</u>	<u>2892</u>	<u>16.66</u>	<u>2945</u>	<u>17.68</u>	<u>3001</u>	<u>18.77</u>	<u>3052</u>	<u>19.79</u>	<u>3105</u>	<u>20.86</u>	<u>3160</u>	<u>21.98</u>	<u>3209</u>	<u>23.01</u>
9880	1900	<u>2933</u>	<u>17.16</u>	<u>2984</u>	<u>18.19</u>	<u>3037</u>	<u>19.28</u>	<u>3088</u>	<u>20.31</u>	<u>3136</u>	<u>21.39</u>	<u>3188</u>	<u>22.54</u>	<u>3235</u>	<u>23.59</u>	<u>3284</u>	<u>24.69</u>
10400	2000	<u>3028</u>	<u>18.74</u>	<u>3074</u>	<u>19.72</u>	<u>3128</u>	<u>20.89</u>	<u>3175</u>	<u>21.98</u>	<u>3225</u>	<u>23.12</u>	<u>3270</u>	<u>24.18</u>				

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.  
Underlined figures indicate maximum static efficiency.

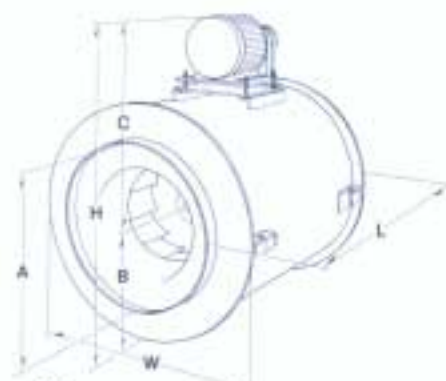


# 195 CIC CENTRIFUGAL INLINE

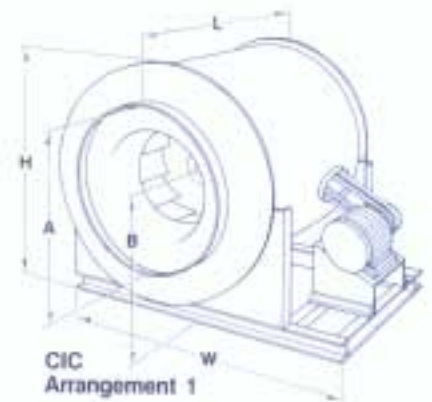
## BELT DRIVE — DIMENSION DATA



CIC Arrangement 9 (STYLE FM)



CIC Arrangement 9 (STYLE CM)



CIC Arrangement 1

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
195	24-3/16	18-1/4	32-1/2	50-3/4	38-1/8	36-1/2	30-7/8	215T	373

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
195	24-3/16	17	32-1/2	49-1/2	38-1/8	34	30-7/8	215T	373

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G. WT.
195	24-3/16	22-1/4	39-1/4	38-1/8	52-15/16	30-7/8	373

\*May vary with motor frame size.

# 210 CIC CENTRIFUGAL INLINE

## BELT DRIVE — CAPACITIES

OUTLET AREA: 6.04  
WHEEL DIAMETER: 21

CLASS I  
CLASS II  
CLASS III

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3020	500	565	.19	616	.26	665	.33	713	.41	760	.49	802	.58	845	.66	<u>895</u>	.74	<u>968</u>	.93
3624	600	659	.29	703	.37	745	.46	786	.54	825	.64	866	.73	904	.83	940	.93	1011	1.13
4228	700	755	.43	792	.52	830	.62	866	.71	901	.82	935	.92	969	1.03	1004	1.14	1070	1.38
4832	800	853	.61	885	.72	918	.82	951	.93	982	1.04	1014	1.16	1044	1.28	1073	1.40	1134	1.65
5436	900	952	.85	981	.96	1008	1.07	1039	1.19	1068	1.32	1096	1.44	1124	1.57	1152	1.70	1204	1.97
6040	1000	1051	1.13	1078	1.26	1103	1.38	1129	1.51	1156	1.65	1182	1.78	1208	1.92	1232	2.05	1283	2.35
6644	1100	1151	1.48	1176	1.62	1199	1.75	1222	1.89	1245	2.03	1270	2.18	1294	2.33	1318	2.48	1363	2.79
7248	1200	1251	1.89	1274	2.04	1296	2.19	1317	2.34	1338	2.50	1360	2.65	1383	2.81	1405	2.97	1447	3.30
7852	1300	1352	2.37	1373	2.53	1393	2.69	1413	2.86	1433	3.03	1451	3.19	1472	3.36	1493	3.53	1534	3.89
8456	1400	1453	2.94	1472	3.11	1491	3.28	1510	3.46	1528	3.63	1546	3.81	1564	4.00	1583	4.18	1622	4.55
9060	1500	1554	3.59	1572	3.77	1590	3.95	1608	4.15	1625	4.33	1642	4.52	1659	4.72	1675	4.91	1711	5.30
9664	1600	1655	4.33	1672	4.52	1689	4.72	1706	4.92	1722	5.12	1738	5.32	1754	5.52	1770	5.73	1801	6.14
10268	1700	1756	5.16	1772	5.36	1789	5.58	1804	5.79	1820	6.00	1835	6.21	1850	6.43	1865	6.64	1894	7.08
10872	1800	1857	6.09	1873	6.32	1888	6.54	1903	6.76	1918	6.99	1933	7.22	1947	7.44	1961	7.66	1989	8.12
11476	1900	1959	7.14	1974	7.38	1988	7.61	2003	7.85	2017	8.09	2031	8.32	2044	8.55	2058	8.80	2085	9.28
12080	2000	2060	8.30	2074	8.54	2088	8.79	2102	9.04	2116	9.30	2129	9.54	<u>2142</u>	<u>9.79</u>	<u>2155</u>	<u>10.04</u>	<u>2181</u>	<u>10.55</u>

C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3020	500	1047	1.13	1122	1.34														
3624	600	<u>1079</u>	<u>1.33</u>	<u>1147</u>	<u>1.56</u>	1215	1.80	1341	2.30										
4228	700	1130	1.61	1191	1.84	<u>1249</u>	<u>2.08</u>	1366	2.60	1479	3.18	1586	3.76						
4832	800	1193	1.91	1248	2.18	1300	2.44	<u>1405</u>	<u>2.98</u>	<u>1508</u>	<u>3.55</u>	1609	4.19	1706	4.85				
5436	900	1258	2.26	1311	2.54	1362	2.84	1457	3.44	1551	4.04	<u>1639</u>	<u>4.65</u>	1732	5.34	1823	6.07	1909	6.82
6040	1000	1330	2.65	1377	2.96	1426	3.28	1519	3.94	1604	4.61	1690	5.27	<u>1771</u>	<u>5.94</u>	<u>1849</u>	<u>6.63</u>	1935	7.43
6644	1100	1409	3.12	1452	3.44	1493	3.78	1583	4.46	1666	5.19	1744	5.93	1823	6.67	1899	7.41	<u>1971</u>	<u>8.15</u>
7248	1200	1489	3.64	1531	3.99	1571	4.35	1649	5.09	1731	5.86	1808	6.64	1880	7.44	1950	8.24	2022	9.04
7852	1300	1573	4.24	1612	4.61	1650	4.99	1724	5.78	1796	6.57	1872	7.41	1943	8.25	2011	9.12	2078	10.00
8456	1400	1668	4.93	1696	5.31	1731	5.71	1802	6.53	1869	7.38	1938	8.26	2008	9.15	2075	<u>10.06</u>	2139	10.98
9060	1500	1747	5.70	1782	6.11	1815	6.52	1882	7.37	1948	8.27	2010	9.18	<u>2073</u>	<u>10.11</u>	2139	11.07	2202	12.03
9664	1600	1836	6.57	1869	6.99	1902	7.43	1964	8.31	2027	9.24	<u>2088</u>	<u>10.21</u>	<u>2146</u>	<u>11.18</u>	2205	12.17	2267	13.16
10268	1700	1928	7.53	1958	7.98	1989	8.44	2049	9.35	2108	10.32	2167	11.32	2224	12.34	2278	13.37	2333	14.42
10872	1800	2016	8.59	2047	9.06	2077	9.54	<u>2136</u>	<u>10.52</u>	2191	11.50	2248	12.54	2303	13.60	2356	14.68	2408	15.76
11476	1900	2111	9.77	<u>2137</u>	<u>10.25</u>	<u>2167</u>	<u>10.77</u>	2223	11.78	2277	12.81	2329	13.85	2383	14.97	2435	16.09	2486	17.24
12080	2000	<u>2206</u>	<u>11.06</u>	<u>2230</u>	<u>11.57</u>	<u>2257</u>	<u>12.10</u>	2311	13.15	2364	14.24	2415	15.34	2464	16.44	2515	17.61	2565	18.81

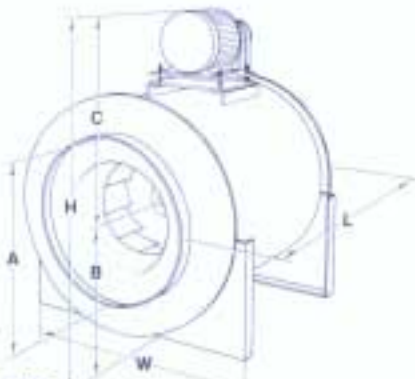
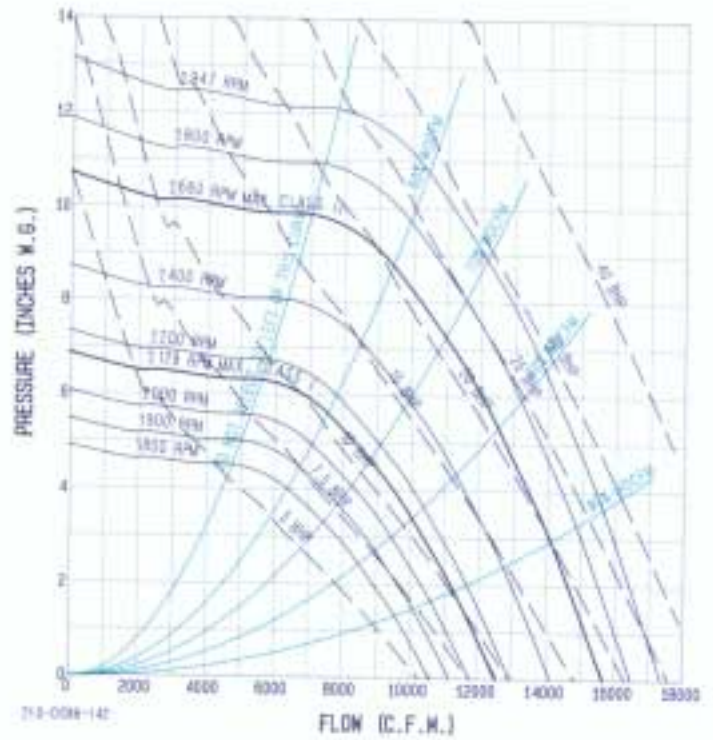
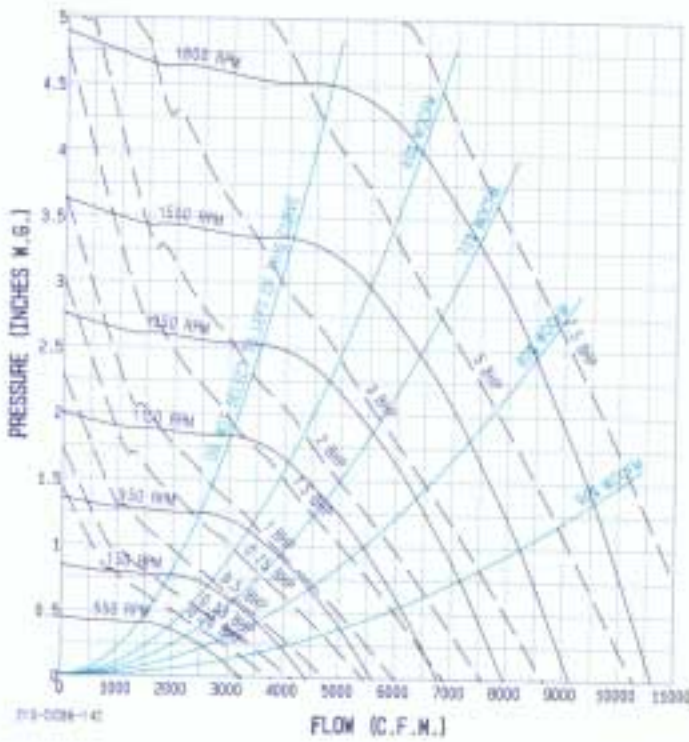
C.F.M.	VEL	5-1/2 SP		6 SP		6-1/2 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5436	900	1990	7.57	2076	8.30												
6040	1000	2016	8.23	2094	9.05	2169	9.89	2244	10.74	2321	11.55						
6644	1100	2043	8.93	2121	9.80	2195	10.68	2267	11.58	2337	12.50	2404	13.42	2472	14.34	2543	15.24
7248	1200	<u>2091</u>	<u>9.89</u>	<u>2157</u>	<u>10.86</u>	2222	11.50	2294	12.45	2363	13.41	2430	14.36	2496	15.37	2568	16.36
7852	1300	2142	10.85	2208	11.73	<u>2271</u>	<u>12.60</u>	<u>2331</u>	<u>13.47</u>	2390	14.37	2457	15.39	2522	16.43	2586	17.47
8456	1400	2200	11.92	2259	12.85	2322	13.79	2382	14.71	<u>2441</u>	<u>15.66</u>	<u>2497</u>	<u>16.60</u>	2552	17.55	2611	18.59
9060	1500	2263	13.03	2321	14.02	2378	15.04	2434	16.04	2492	17.03	2548	18.02	<u>2603</u>	<u>19.03</u>	<u>2657</u>	<u>20.06</u>
9664	1600	2327	14.22	2385	15.27	2441	16.33	2495	17.40	2547	18.47	2600	19.53	2655	20.60	2708	21.67
10268	1700	2392	15.50	2449	16.59	2504	17.69	2556	18.82	2610	19.95	2660	21.07	2709	22.22	2760	23.38
10872	1800	2459	16.89	2515	18.03	2569	19.17	2622	20.33	2673	21.50	2723	22.68	2772	23.89	2820	25.11
11476	1900	2535	18.40	2582	19.56	2635	20.75	2687	21.96	2738	23.18	2787	24.40	2836	25.86	2883	26.92
12080	2000	2613	20.01	2659	21.21	<u>2705</u>	<u>22.45</u>	2753	23.89	2803	24.95	2852	26.23	2900	27.53	2947	28.84

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.

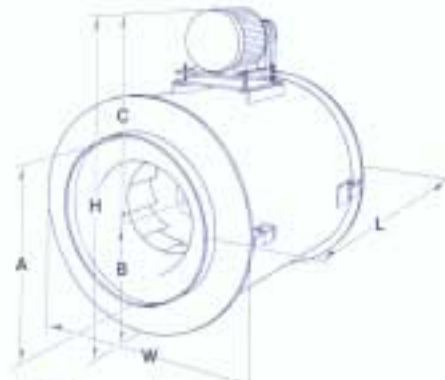
Underlined figures indicate maximum static efficiency.

# 210 CIC CENTRIFUGAL INLINE

## BELT DRIVE — DIMENSION DATA



CIC Arrangement 9 (STYLE FM)



CIC Arrangement 9 (STYLE CM)



CIC Arrangement 1

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
210	25-15/16	19-3/4	34-1/4	54	40-15/16	39-1/2	33-5/16	256T	465

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
210	25-15/16	18-1/4	34-1/4	52-1/2	40-15/16	36-7/16	33-5/16	256T	465

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G. WT.
210	25-15/16	22-3/4	42	40-15/16	58-9/16	33-5/16	465

\*May vary with motor frame size.

# 225 CIC CENTRIFUGAL INLINE

## BELT DRIVE — CAPACITIES

OUTLET AREA: 6.94  
WHEEL DIAMETER: 22.5

CLASS I
CLASS II
CLASS III

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3470	500	527	.22	576	.30	621	.38	666	.47	709	.57	749	.66	789	.76	<u>827</u>	<u>.85</u>	902	1.07
4164	600	615	.34	656	.43	696	.52	734	.63	770	.73	808	.84	844	.95	878	1.07	944	1.30
4858	700	706	.50	740	.60	775	.71	809	.82	842	.94	873	1.06	905	1.19	936	1.32	999	1.58
5552	800	797	.71	827	.83	858	.95	888	1.07	917	1.19	947	1.33	975	1.47	1002	1.61	1059	1.90
6246	900	889	.97	916	1.10	942	1.24	970	1.37	998	1.52	1024	1.66	1050	1.80	1076	1.96	1124	2.27
6940	1000	982	1.30	1007	1.45	1030	1.59	1054	1.74	1080	1.89	1104	2.05	1128	2.21	1151	2.37	1198	2.71
7634	1100	1075	1.70	1098	1.86	1120	2.02	1141	2.18	1163	2.34	1186	2.51	1209	2.68	1231	2.86	1273	3.21
8328	1200	1169	2.17	1190	2.34	1210	2.52	1230	2.69	1249	2.87	1270	3.05	1291	3.23	1312	3.42	1352	3.80
9022	1300	1263	2.73	1283	2.92	1302	3.11	1320	3.29	1338	3.48	1356	3.68	1375	3.87	1395	4.07	1433	4.47
9716	1400	1357	3.38	1375	3.58	1393	3.78	1411	3.98	1428	4.19	1444	4.39	1461	4.60	1479	4.81	1515	5.24
10410	1500	1451	4.12	1469	4.34	1485	4.55	1502	4.77	1518	4.99	1534	5.21	1549	5.42	1564	5.64	1598	6.10
11104	1600	1546	4.96	1562	5.20	1578	5.43	1593	5.65	1609	5.89	1624	6.12	1639	6.36	1653	6.59	1682	7.06
11798	1700	1640	5.93	1656	6.18	1671	6.42	1686	6.67	1700	6.91	1714	7.15	1728	7.39	1742	7.64	1769	8.14
12492	1800	1735	7.02	1750	7.28	1764	7.53	1778	7.78	1792	8.04	1805	8.30	1819	8.56	1832	8.82	1858	9.35
13186	1900	1830	8.22	1844	8.49	1857	8.76	1871	9.03	1884	9.30	1897	9.58	1910	9.85	1922	10.12	1947	10.67
13880	2000	1925	9.56	1938	9.84	1951	10.13	1964	10.41	1976	10.69	1989	10.99	2001	11.27	2013	11.55	2037	12.14

C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3470	500	976	1.30	1047	1.54														
4164	600	<u>1007</u>	<u>1.53</u>	<u>1071</u>	<u>1.79</u>	1134	2.06	1252	2.85										
4858	700	1055	1.85	1112	2.11	<u>1166</u>	<u>2.39</u>	1276	3.00	1381	3.65	1481	4.33						
5552	800	1114	2.20	1165	2.50	1214	2.81	<u>1312</u>	<u>3.42</u>	<u>1405</u>	<u>4.07</u>	1502	4.81	1592	5.57				
6246	900	1174	2.59	1224	2.92	1272	3.27	1360	3.96	1448	4.64	<u>1530</u>	<u>5.34</u>	1617	6.14	1701	6.97	1782	7.83
6940	1000	1242	3.05	1286	3.41	1332	3.77	1418	4.52	1497	5.29	1578	6.06	<u>1654</u>	<u>6.83</u>	<u>1726</u>	<u>7.62</u>	1806	8.53
7634	1100	1316	3.58	1356	3.96	1394	4.34	1478	5.15	1556	5.98	1629	6.83	1702	7.67	1773	8.51	<u>1840</u>	<u>9.36</u>
8328	1200	1391	4.19	1430	4.59	1467	5.00	1540	5.86	1616	6.73	1688	7.63	1755	8.55	1821	9.48	1888	10.39
9022	1300	1469	4.88	1505	5.30	1541	5.74	1610	6.64	1677	7.56	1748	8.52	1814	9.48	1878	10.48	<u>1938</u>	<u>11.48</u>
9716	1400	1550	5.67	1583	6.11	1617	6.57	1683	7.51	1746	8.49	1809	9.48	1875	10.52	<u>1937</u>	<u>11.56</u>	<u>1997</u>	<u>12.62</u>
10410	1500	1632	6.56	1664	7.03	1695	7.49	1758	8.48	1819	9.51	1877	10.56	<u>1936</u>	<u>11.63</u>	<u>1998</u>	<u>12.73</u>	<u>2056</u>	<u>13.83</u>
11104	1600	1715	7.56	1746	8.05	1776	8.55	1834	9.56	1893	10.63	<u>1950</u>	<u>11.74</u>	<u>2004</u>	<u>12.85</u>	<u>2069</u>	<u>13.99</u>	<u>2117</u>	<u>15.16</u>
11798	1700	1798	8.65	1829	9.19	1858	9.71	1914	10.77	<u>1969</u>	<u>11.87</u>	2024	13.02	2077	14.19	2127	15.37	2179	16.59
12492	1800	1883	9.88	1912	10.43	1940	10.97	<u>1995</u>	<u>12.10</u>	2047	13.24	2099	14.41	2151	15.65	2200	16.87	2248	18.13
13186	1900	1972	11.24	<u>1996</u>	<u>11.79</u>	<u>2024</u>	<u>12.39</u>	2076	13.54	2127	14.74	2175	15.93	2226	17.22	2274	18.50	2321	19.81
13880	2000	<u>2060</u>	<u>12.72</u>	<u>2083</u>	<u>13.31</u>	<u>2108</u>	<u>13.92</u>	2159	15.14	2208	16.38	2255	17.63	2301	18.90	2349	20.26	2395	21.62

C.F.M.	VEL	5-1/2 SP		6 SP		6-1/2 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6246	900	1858	8.71	<u>1938</u>	<u>9.55</u>												
6940	1000	1882	9.46	<u>1965</u>	<u>10.41</u>	2025	11.37	2094	12.34	2167	13.28						
7634	1100	1907	10.26	1980	11.26	2049	12.27	2116	13.30	2181	14.35	2244	15.42	2307	16.47	2374	17.52
8328	1200	<u>1952</u>	<u>11.31</u>	<u>2013</u>	<u>12.24</u>	2074	13.21	2141	14.30	2206	15.41	2268	16.52	2329	17.66	2388	18.81
9022	1300	2000	12.48	2061	13.47	<u>2120</u>	<u>14.48</u>	<u>2176</u>	<u>15.48</u>	2231	16.50	2290	17.67	2354	18.87	2413	20.07
9716	1400	2054	13.69	2109	14.77	2168	15.85	2224	16.91	<u>2279</u>	<u>18.00</u>	<u>2332</u>	<u>19.09</u>	2383	20.18	2437	21.36
10410	1500	2113	14.97	2167	16.11	2220	17.26	2273	18.44	2327	19.58	2379	20.71	<u>2430</u>	<u>21.87</u>	<u>2480</u>	<u>23.04</u>
11104	1600	2173	16.35	2227	17.55	2279	18.76	2329	19.98	2378	21.22	2428	22.47	2478	23.66	2528	24.90
11798	1700	2234	17.83	2287	19.08	2338	20.33	2388	21.62	2437	22.93	2484	24.23	2530	25.56	2576	26.84
12492	1800	2296	19.42	2348	20.71	2399	22.04	2448	23.37	2496	24.72	2543	26.09	2588	27.45	2633	28.96
13186	1900	2367	21.14	2411	22.48	2460	23.84	2509	25.24	2557	26.66	2603	28.07	2648	29.50	2692	30.94
13880	2000	2440	23.00	2483	24.38	<u>2528</u>	<u>25.81</u>	2571	27.24	2618	28.70	2663	30.15	2708	31.65	2751	33.12

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Underlined figures indicate maximum static efficiency.

# 245 CIC CENTRIFUGAL INLINE

## BELT DRIVE — CAPACITIES

OUTLET AREA: 8.19  
WHEEL DIAMETER: 24.5

CLASS I
CLASS II
CLASS III

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4095	500	498	.25	545	.35	589	.46	633	.57	673	.69	712	.80	748	.92	<u>783</u>	<u>1.04</u>	<u>855</u>	<u>1.30</u>
4914	600	579	.39	620	.50	656	.62	695	.75	732	.88	768	1.02	801	1.16	833	1.30	896	1.58
5733	700	663	.57	698	.70	732	.83	765	.96	797	1.12	828	1.27	860	1.43	891	1.59	948	1.92
6552	800	748	.80	779	.95	810	1.10	839	1.26	868	1.42	897	1.59	924	1.76	951	1.93	1006	2.29
7371	900	833	1.10	862	1.26	889	1.43	917	1.61	943	1.78	968	1.96	994	2.15	1018	2.33	1066	2.72
8190	1000	920	1.46	946	1.65	970	1.83	995	2.02	1020	2.21	1043	2.41	1066	2.61	1089	2.81	1134	3.23
9009	1100	1007	1.91	1030	2.10	1053	2.30	1075	2.51	1096	2.72	1121	2.94	1142	3.15	1163	3.37	1205	3.82
9828	1200	1094	2.44	1116	2.65	1137	2.87	1156	3.09	1176	3.31	1199	3.54	1220	3.78	1239	4.01	1277	4.48
10647	1300	1181	3.05	1202	3.29	1222	3.52	1241	3.76	1260	4.00	1279	4.25	1298	4.49	1317	4.74	1354	5.26
11466	1400	1269	3.77	1288	4.02	1307	4.28	1325	4.53	1343	4.79	1360	5.05	1378	5.31	1396	5.58	1431	6.13
12285	1500	1357	4.60	1375	4.87	1393	5.14	1410	5.42	1427	5.69	1443	5.96	1459	6.24	1476	6.53	1509	7.10
13104	1600	1445	5.55	1462	5.83	1479	6.12	1495	6.41	1511	6.70	1526	6.99	1542	7.29	1557	7.59	1588	8.19
13923	1700	1533	6.61	1549	6.91	1565	7.22	1581	7.53	1596	7.84	1610	8.14	1625	8.46	1639	8.76	1668	9.40
14742	1800	1622	7.82	1637	8.13	1652	8.46	1666	8.77	1681	9.11	1695	9.43	1709	9.76	1723	10.09	1750	10.76
15561	1900	1710	9.15	1725	9.50	1739	9.83	1753	10.17	1768	10.50	1780	10.85	1793	11.19	1807	11.56	1832	12.24
16380	2000	1799	10.54	1812	10.98	1826	11.35	1839	11.70	1852	12.06	1865	12.42	1878	12.78	<u>1891</u>	<u>13.16</u>	<u>1916</u>	<u>13.89</u>

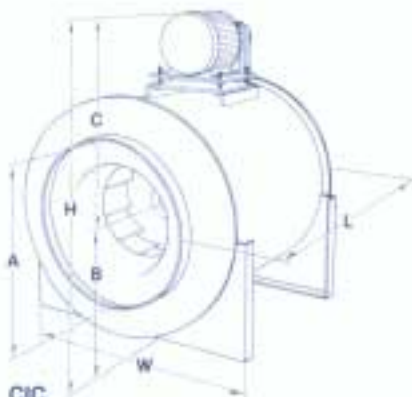
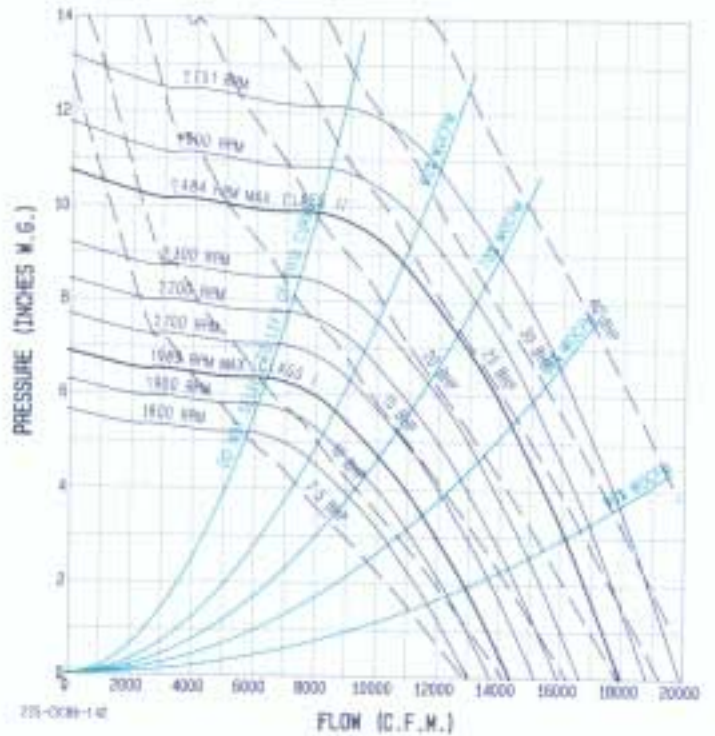
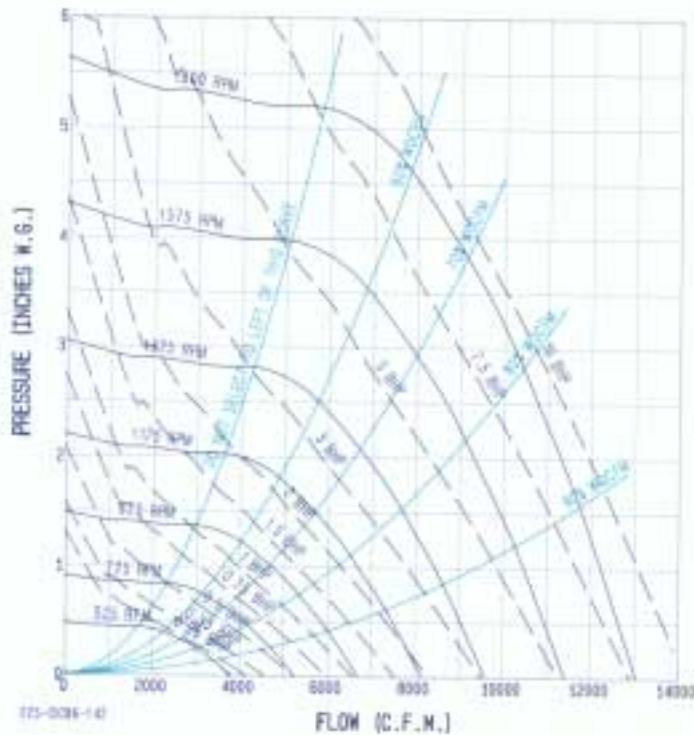
C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4095	500	922	1.58	986	1.86														
4914	600	<u>854</u>	<u>1.87</u>	1015	2.19	1071	2.51	1179	3.19										
5733	700	1003	2.24	<u>1054</u>	<u>2.56</u>	<u>1104</u>	<u>2.91</u>	1207	3.64	1301	4.41	1393	5.21						
6552	800	1057	2.65	1106	3.04	1153	3.40	<u>1242</u>	<u>4.16</u>	1333	4.98	1419	5.85	1500	6.74				
7371	900	1116	3.12	1163	3.54	1207	3.96	1292	4.79	<u>1372</u>	<u>5.63</u>	<u>1451</u>	<u>6.53</u>	1532	7.49	1607	8.47	1676	9.46
8190	1000	1177	3.66	1222	4.10	1266	4.56	1346	5.48	1423	6.42	1496	7.34	<u>1565</u>	<u>8.30</u>	1639	9.34	1710	10.40
9009	1100	1246	4.28	1284	4.74	1325	5.22	1404	6.22	1477	7.25	1547	8.27	1615	9.29	<u>1679</u>	<u>10.32</u>	<u>1742</u>	<u>11.39</u>
9828	1200	1316	4.98	1354	5.48	1390	5.99	1464	7.05	1535	8.13	1602	9.24	1666	10.37	1730	11.48	1791	12.61
10647	1300	1388	5.77	1424	6.30	1459	6.84	1525	7.96	1595	9.11	1661	10.30	1723	11.50	1782	12.73	<u>1841</u>	<u>13.91</u>
11466	1400	1464	6.67	1496	7.23	1530	7.81	1594	8.98	1655	10.17	1720	11.43	1781	12.69	<u>1840</u>	<u>14.00</u>	<u>1895</u>	<u>15.30</u>
12285	1500	1541	7.68	1572	8.27	1602	8.87	1664	10.11	1723	11.38	1780	12.66	<u>1841</u>	<u>14.01</u>	1898	15.36	1953	16.74
13104	1600	1619	8.81	1649	9.43	1678	10.07	1736	11.37	1793	12.69	<u>1847</u>	<u>14.04</u>	1901	15.42	1956	16.85	2012	18.30
13923	1700	1698	10.06	1727	10.72	1755	11.38	1809	12.74	<u>1863</u>	<u>14.11</u>	1916	15.53	1967	16.97	2018	18.44	2072	19.97
14742	1800	1778	11.44	1805	12.12	1833	12.84	<u>1885</u>	<u>14.25</u>	1936	15.68	1987	17.17	2036	18.66	2084	20.19	2132	21.75
15561	1900	1858	12.96	<u>1885</u>	<u>13.69</u>	1911	<u>14.41</u>	1961	15.88	2010	17.41	2058	18.93	2107	20.51	2153	22.08	2199	23.72
16380	2000	<u>1940</u>	<u>14.63</u>	<u>1965</u>	<u>15.38</u>	1990	16.14	2038	17.69	2086	19.26	2131	20.85	2178	22.49	2224	24.15	2268	25.82

C.F.M.	VEL	5-1/2 SP		6 SP		6-1/2 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7371	900	1750	10.48	1821	11.52												
8190	1000	1776	11.49	1843	12.59	1906	13.72	1972	14.87	2035	16.02						
9009	1100	1810	12.55	1875	13.73	1937	14.92	1997	16.13	2055	17.36	2113	18.60	2172	19.85	2230	21.13
9828	1200	<u>1848</u>	<u>13.73</u>	<u>1907</u>	<u>14.92</u>	1969	16.18	2029	17.46	2087	18.76	2142	20.05	2197	21.40	2249	22.72
10647	1300	1899	15.13	1954	16.34	<u>2007</u>	<u>17.57</u>	<u>2061</u>	<u>18.85</u>	2119	20.23	2174	21.59	2228	22.98	2281	24.40
11466	1400	1950	16.62	2005	17.91	2058	19.22	2108	20.51	<u>2158</u>	<u>21.86</u>	<u>2207</u>	<u>23.21</u>	2261	24.68	2313	26.14
12285	1500	2006	18.15	2057	19.58	2109	20.97	2159	22.33	2208	23.73	2256	25.15	<u>2302</u>	<u>26.56</u>	<u>2347</u>	<u>28.00</u>
13104	1600	2064	19.76	2114	21.24	2163	22.76	2211	24.29	2259	25.73	2306	27.20	2352	28.69	<u>2397</u>	<u>30.20</u>
13923	1700	2123	21.49	2173	23.06	2221	24.63	2268	26.23	2313	27.83	2358	29.43	2403	30.96	2446	32.55
14742	1800	2183	23.36	2232	24.97	2280	26.63	<u>2326</u>	<u>28.28</u>	2370	29.93	2414	31.63	2457	33.36	2499	35.02
15561	1900	2244	25.36	2292	27.03	2339	28.74	2385	30.47	2429	32.20	2472	33.95	2514	35.72	2555	37.51
16380	2000	2311	27.52	2353	29.23	<u>2399</u>	<u>30.99</u>	2444	32.78	2488	34.59	2531	36.43	2572	38.23	2613	40.10

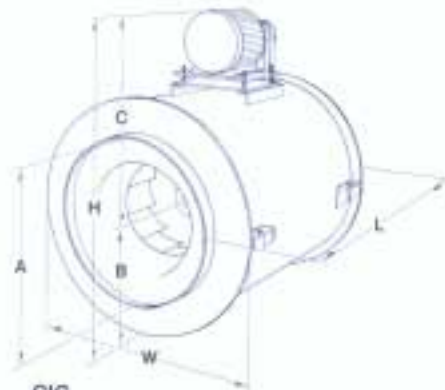
Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.  
Underlined figures indicate maximum static efficiency.

# 225 CIC CENTRIFUGAL INLINE

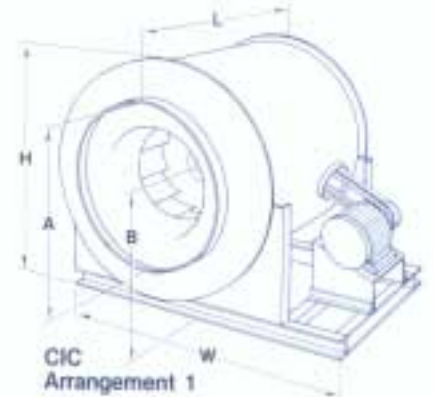
## BELT DRIVE — DIMENSION DATA



CIC Arrangement 9 (STYLE FM)



CIC Arrangement 9 (STYLE CM)



CIC Arrangement 1

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
225	27-7/16	30-7/8	37	57-7/8	43-11/16	41-3/4	35-11/16	256T	560

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
225	27-7/16	19-7/16	37	56-7/16	43-11/16	38-13/16	35-11/16	256T	560

\*May vary with motor frame size.

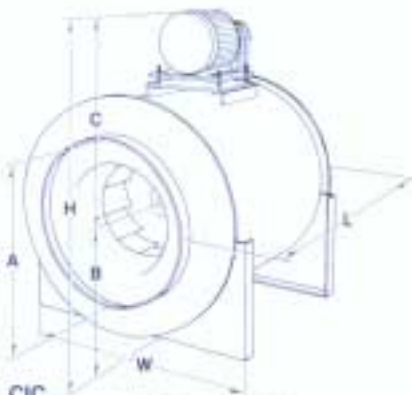
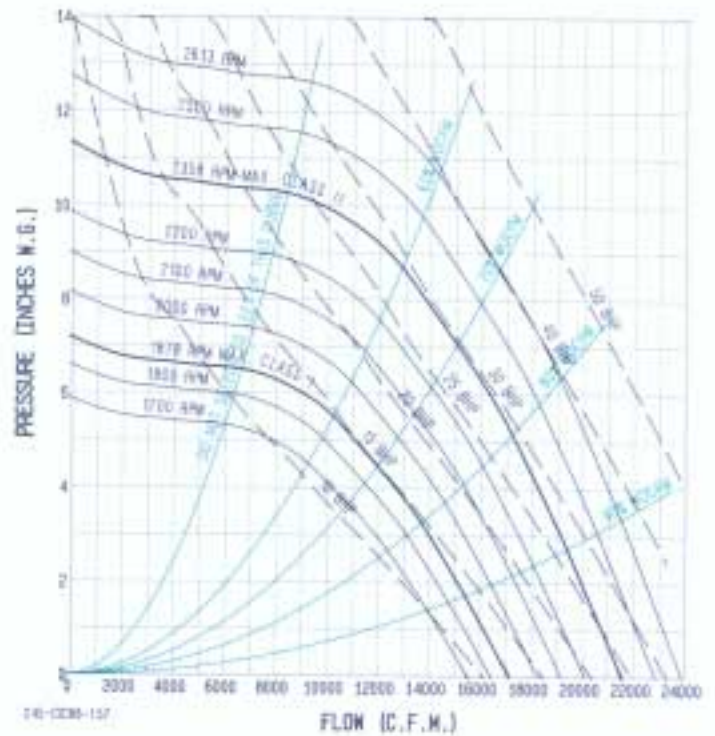
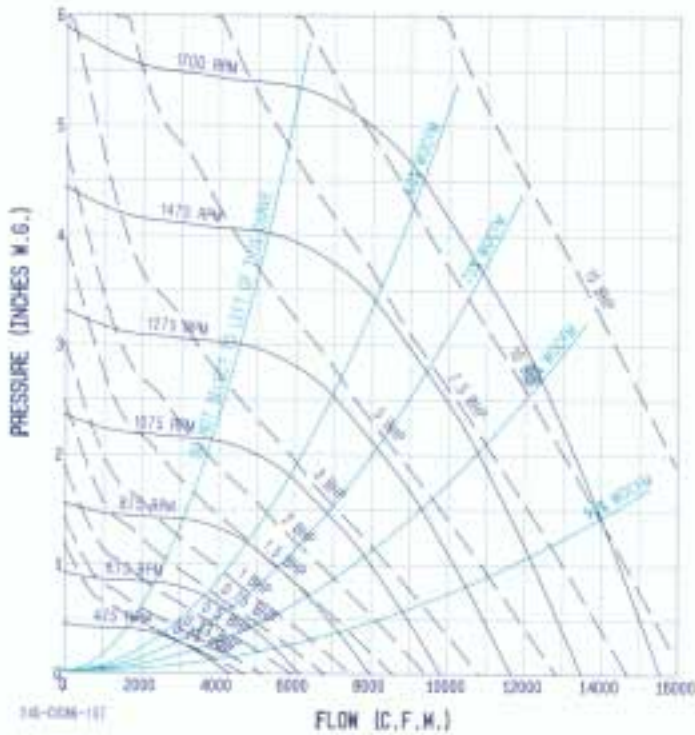
### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G. WT.
225	27-7/16	24-7/8	44-5/16	43-11/16	60-13/16	35-11/16	560

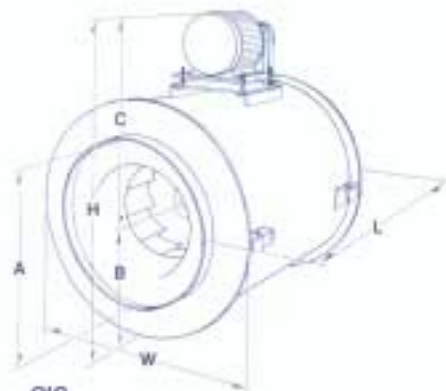
\*May vary with motor frame size.

# 245 CIC CENTRIFUGAL INLINE

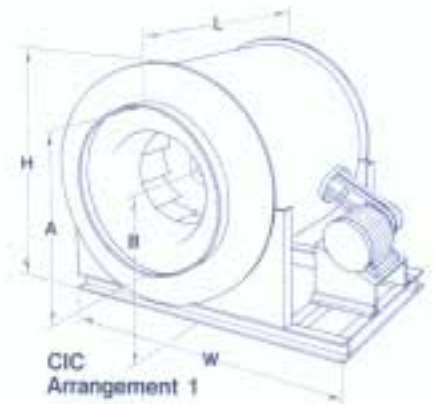
## BELT DRIVE — DIMENSION DATA



CIC Arrangement 9 (STYLE FM)



CIC Arrangement 9 (STYLE CM)



CIC Arrangement 1

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
245	29-7/16	22-1/2	37-3/4	60-1/4	47-3/8	45	38-13/16	256T	700

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
245	29-7/16	21	37-3/4	58-3/4	47-3/8	42	38-13/16	256T	700

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G. WT.
245	29-7/16	25-1/2	47-1/2	47-3/8	64-1/16	38-13/16	700

\*May vary with motor frame size.

# 270 CIC CENTRIFUGAL INLINE

## BELT DRIVE — CAPACITIES

OUTLET AREA: 9.74  
WHEEL DIAMETER: 27

CLASS I
CLASS II
CLASS III

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4870	500	444	.29	488	.41	528	.54	569	.67	606	.81	641	.96	674	1.09	707	1.24	773	1.55
5844	600	516	.45	554	.58	589	.73	623	.88	658	1.04	690	1.20	721	1.37	750	1.53	807	1.87
6818	700	590	.65	623	.81	655	.96	685	1.14	714	1.32	743	1.50	773	1.69	801	1.88	853	2.27
7792	800	666	.92	694	1.10	723	1.28	750	1.47	777	1.66	803	1.86	828	2.06	854	2.27	904	2.70
8766	900	742	1.26	768	1.46	793	1.66	818	1.86	842	2.07	866	2.29	890	2.52	912	2.73	957	3.20
9740	1000	818	1.68	842	1.89	865	2.12	888	2.34	911	2.57	932	2.80	953	3.04	975	3.29	1016	3.78
10714	1100	895	2.18	917	2.42	938	2.66	959	2.90	980	3.15	1001	3.41	1020	3.66	1040	3.93	1079	4.47
11688	1200	973	2.79	993	3.04	1013	3.30	1032	3.57	1051	3.84	1070	4.11	1089	4.39	1107	4.66	1142	5.23
12662	1300	1051	3.50	1070	3.78	1088	4.05	1106	4.34	1123	4.62	1141	4.92	1159	5.22	1176	5.51	1210	6.13
13636	1400	1129	4.32	1146	4.61	1163	4.91	1180	5.22	1197	5.53	1212	5.83	1229	6.15	1246	6.47	1278	7.12
14610	1500	1207	5.27	1223	5.56	1239	5.90	1255	6.22	1271	6.56	1286	6.88	1301	7.22	1317	7.56	1347	8.24
15584	1600	1285	6.34	1301	6.69	1316	7.02	1331	7.37	1346	7.72	1360	8.06	1374	8.41	1388	8.77	1417	9.49
16558	1700	1363	7.56	1378	7.92	1393	8.29	1407	8.65	1421	9.02	1434	9.37	1448	9.76	1461	10.12	1488	10.88
17532	1800	1442	8.93	1458	9.31	1469	9.68	1483	10.07	1496	10.46	1509	10.84	1522	11.24	1535	11.64	1560	12.44
18506	1900	1520	10.45	1533	10.84	1547	11.27	1560	11.67	1572	12.06	1585	12.49	1597	12.89	1609	13.30	1633	14.14
19480	2000	1599	12.15	1611	12.56	1624	12.99	1636	13.41	1648	13.83	1660	14.26	1672	14.70	1684	15.14	1707	16.02

C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4870	500	834	1.88	893	2.22														
5844	600	852	2.22	917	2.60	969	2.99	1068	3.80										
6818	700	903	2.65	950	3.04	997	3.45	1091	4.34	1177	5.27	1262	6.22						
7792	800	951	3.14	995	3.58	1039	4.03	1120	4.93	1205	5.94	1283	6.97	1357	8.04				
8766	900	1003	3.68	1046	4.18	1086	4.68	1184	5.67	1237	6.69	1312	7.78	1384	8.91	1453	10.10	1518	11.30
9740	1000	1056	4.30	1096	4.83	1137	5.37	1211	6.48	1282	7.60	1348	8.70	1413	9.86	1481	11.11	1546	12.40
10714	1100	1116	5.01	1152	5.58	1190	6.15	1262	7.34	1329	8.58	1393	9.78	1455	11.00	1514	12.25	1574	13.55
11688	1200	1178	5.82	1213	6.43	1245	7.02	1315	8.30	1380	9.60	1441	10.94	1500	12.26	1558	13.58	1613	14.92
12662	1300	1242	6.74	1275	7.37	1307	8.02	1368	9.34	1432	10.72	1492	12.13	1549	13.59	1604	15.05	1658	16.45
13636	1400	1309	7.78	1339	8.45	1370	9.14	1428	10.53	1486	11.97	1545	13.46	1601	14.99	1654	16.54	1705	18.12
14610	1500	1377	8.94	1405	9.64	1433	10.35	1490	11.83	1544	13.35	1598	14.89	1653	16.48	1706	18.14	1756	19.79
15584	1600	1446	10.24	1473	10.97	1500	11.74	1553	13.27	1605	14.85	1655	16.47	1707	18.15	1758	19.83	1808	21.58
15584	1700	1516	11.67	1542	12.45	1568	13.25	1617	14.85	1668	16.51	1717	18.22	1763	19.93	1812	21.71	1861	23.53
17532	1800	1586	13.25	1612	14.08	1636	14.89	1684	16.59	1732	18.33	1779	20.09	1824	21.88	1868	23.72	1914	25.58
18506	1900	1657	14.98	1682	15.86	1706	16.73	1752	18.48	1797	20.30	1842	22.13	1886	23.99	1929	25.90	1970	27.81
19480	2000	1729	16.89	1753	17.81	1776	18.71	1821	20.56	1864	22.43	1908	24.34	1949	26.27	1991	28.25	2032	30.28

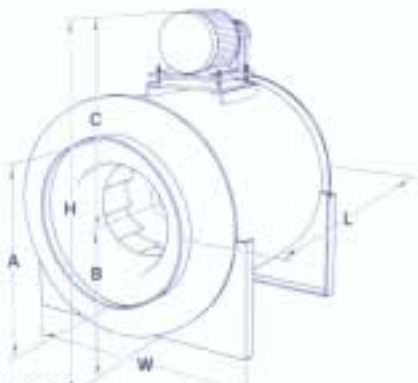
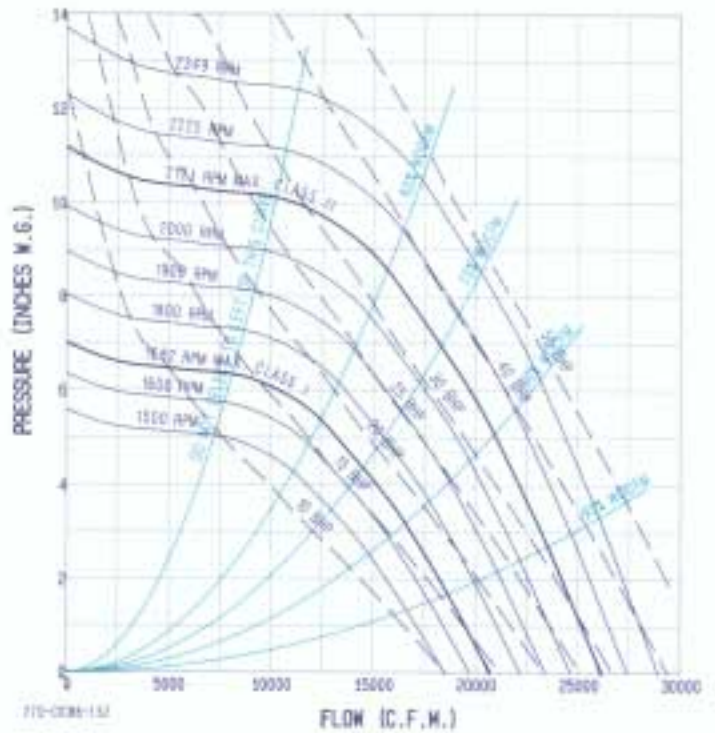
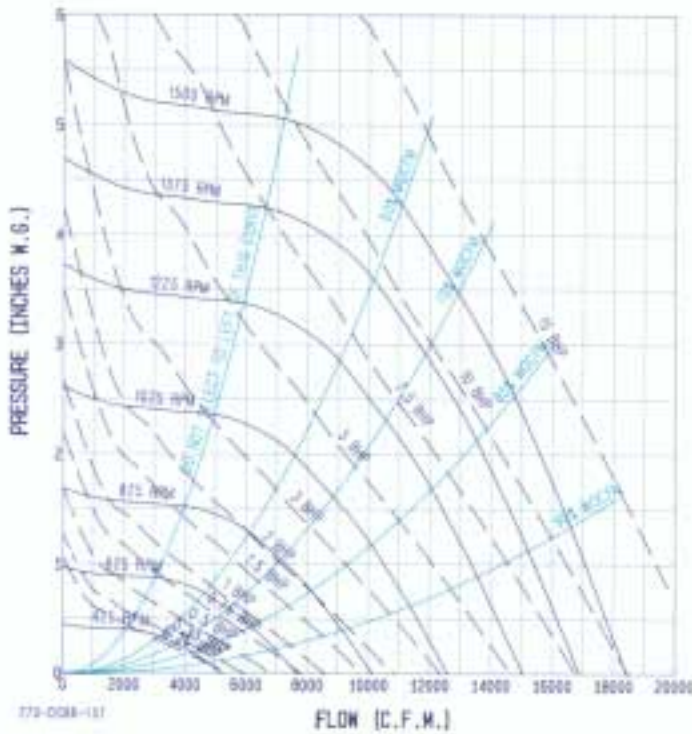
C.F.M.	VEL	5-1/2 SP		6 SP		6-1/2 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8766	900	1585	12.51	1650	13.76												
9740	1000	1608	13.71	1667	15.04	1726	16.36	1786	17.74	1843	19.10						
10714	1100	1636	14.95	1695	16.36	1751	17.78	1806	19.25	1858	20.70	1914	22.20	1968	23.71	2020	25.21
11688	1200	1666	16.20	1723	17.75	1780	19.28	1834	20.80	1886	22.34	1937	23.92	1986	25.50	2035	27.12
12662	1300	1711	17.92	1781	19.37	1809	20.83	1862	22.42	1915	24.08	1965	25.71	2014	27.37	2062	29.08
13636	1400	1756	19.65	1806	21.19	1854	22.75	1900	24.31	1945	25.91	1994	27.61	2043	29.37	2090	31.11
14610	1500	1804	21.46	1851	23.13	1899	24.78	1945	26.43	1989	28.08	2033	29.80	2075	31.49	2119	33.26
16558	1600	1855	23.32	1901	25.11	1946	26.95	1990	28.67	2035	30.45	2078	32.22	2119	33.96	2160	35.77
16558	1700	1908	25.37	1953	27.21	1997	29.10	2039	30.99	2080	32.90	2123	34.77	2164	36.60	2205	38.51
17532	1800	1960	27.48	2005	29.43	2049	31.42	2091	33.40	2131	35.37	2171	37.41	2210	39.42	2250	41.37
18506	1900	2014	29.80	2058	31.81	2101	33.86	2143	35.94	2183	38.00	2222	40.09	2261	42.25	2298	44.37
19480	2000	2071	32.29	2112	34.37	2154	36.47	2195	38.61	2235	40.77	2274	42.96	2312	45.15	2348	47.37

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.  
Underlined figures indicate maximum static efficiency.

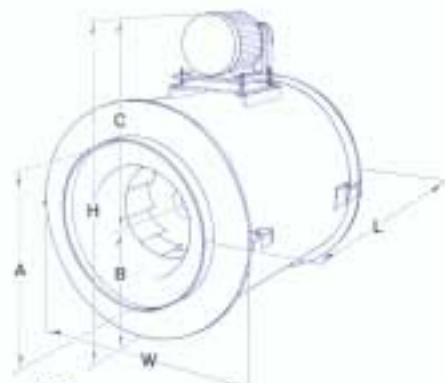


# 270 CIC CENTRIFUGAL INLINE

## BELT DRIVE — DIMENSION DATA



CIC Arrangement 9 (STYLE FM)



CIC Arrangement 9 (STYLE CM)



CIC Arrangement 1

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
270	31-15/16	24-1/2	40-3/4	65-1/4	50-1/8	49	42-5/16	286T	805

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G. WT.
270	31-15/16	22-3/4	40-3/4	63-1/2	50-1/8	45-1/2	42-5/16	286T	805

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G. WT.
270	31-15/16	28-1/2	51-1/4	50-1/8	70	42-5/16	805

\*May vary with motor frame size.

# 300 CIC CENTRIFUGAL INLINE

## BELT DRIVE — CAPACITIES

OUTLET AREA: 11.79  
WHEEL DIAMETER: 30

CLASS I

CLASS II

CLASS III

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5895	500	394	.35	433	.49	471	.85	508	.81	541	.98	573	1.14	<u>603</u>	<u>1.31</u>	<u>634</u>	<u>1.50</u>	693	1.88
7074	600	457	.53	491	.69	524	.87	554	1.05	586	1.24	616	1.45	643	1.65	671	1.85	<u>722</u>	<u>2.26</u>
8253	700	522	.77	552	.96	581	1.16	609	1.36	635	1.57	662	1.79	689	2.02	714	2.25	762	2.73
9432	800	589	1.08	615	1.30	641	1.52	666	1.75	690	1.98	714	2.22	736	2.46	761	2.72	806	3.24
10611	900	658	1.48	679	1.71	703	1.96	726	2.21	748	2.47	769	2.73	791	3.00	811	3.27	853	3.84
11790	1000	723	1.96	745	2.23	766	2.50	787	2.77	808	3.05	827	3.33	847	3.63	866	3.91	904	4.53
12969	1100	791	2.55	811	2.84	830	3.13	849	3.42	869	3.73	887	4.04	905	4.35	923	4.67	959	5.33
14148	1200	859	3.25	878	3.57	896	3.88	913	4.20	931	4.53	949	4.87	966	5.20	982	5.53	1015	6.24
15327	1300	928	4.08	945	4.41	962	4.76	978	5.10	994	5.45	1011	5.81	1027	6.17	1043	6.53	1073	7.26
16506	1400	997	5.05	1013	5.40	1029	5.77	1044	6.13	1059	6.51	1074	6.89	1089	7.26	1104	7.65	1133	8.43
17685	1500	1065	6.13	1081	6.53	1096	6.92	1110	7.31	1124	7.70	1138	8.10	1152	8.51	1166	8.91	1194	9.75
18864	1600	1134	7.39	1149	7.81	1163	8.22	1177	8.65	1190	9.06	1203	9.48	1216	9.91	1229	10.34	1256	11.22
20043	1700	1203	8.80	1217	9.25	1230	9.68	1243	10.12	1256	10.57	1269	11.03	1281	11.47	1293	11.92	1318	12.85
21222	1800	1273	10.41	1286	10.88	1298	11.33	1311	11.81	1323	12.27	1335	12.75	1347	13.23	1358	13.69	1381	14.65
22401	1900	1342	12.18	1354	12.66	1366	13.15	1378	13.65	1390	14.15	1401	14.63	1412	15.13	1424	15.66	1445	16.84
23580	2000	1411	14.15	1423	14.67	1434	15.17	1446	15.70	1457	16.22	1468	16.74	1479	17.27	1489	17.77	<u>1510</u>	<u>18.94</u>

C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5875	500	748	2.28	803	2.70														
7074	600	<u>773</u>	<u>2.69</u>	822	3.15	869	3.63	916	4.11										
8253	700	807	3.19	<u>850</u>	<u>3.67</u>	<u>894</u>	<u>4.18</u>	939	4.72	1057	6.40	1134	7.56						
9432	800	849	3.79	890	4.33	929	4.88	<u>1004</u>	<u>5.97</u>	1080	7.19	1151	8.46	1219	9.76				
10611	900	894	4.42	933	5.03	969	5.63	1041	6.84	<u>1106</u>	<u>8.06</u>	1176	9.42	1241	10.80	1303	12.24	1364	13.72
11790	1000	941	5.15	979	5.80	1015	6.47	1081	7.82	1146	9.15	<u>1206</u>	<u>10.51</u>	<u>1267</u>	<u>11.95</u>	1328	13.47	1386	15.02
12969	1100	992	5.98	1026	6.67	1061	7.38	1126	8.83	1186	10.33	1245	11.78	1301	13.27	<u>1354</u>	<u>14.78</u>	1412	16.45
14148	1200	1047	6.94	1078	7.66	1108	8.40	1172	9.95	1231	11.54	1286	13.17	1341	14.78	1393	16.37	<u>1443</u>	<u>18.02</u>
15327	1300	1103	8.02	1133	8.79	1162	9.58	1219	11.19	1277	12.88	1331	14.59	1383	16.38	1433	18.11	1482	19.82
16506	1400	1161	9.23	1189	10.05	1217	10.88	1270	12.58	1324	14.34	1378	16.18	1428	18.02	<u>1476</u>	<u>19.91</u>	1523	21.83
17685	1500	1221	10.60	1247	11.46	1273	12.33	1325	14.13	1373	15.95	1424	17.85	1474	<u>19.80</u>	1522	21.81	1567	23.82
18864	1600	1282	12.12	1307	13.03	1331	13.94	1380	15.81	1427	17.72	<u>1472</u>	<u>19.69</u>	1521	21.75	1568	23.84	1612	25.91
20043	1700	1343	13.79	1367	14.74	1391	15.72	1436	17.66	1483	19.71	1528	21.73	1569	23.88	1615	26.03	1659	28.23
21222	1800	1405	15.64	1428	16.63	1451	17.66	<u>1495</u>	<u>19.73</u>	<u>1538</u>	<u>21.80</u>	1581	23.96	1622	26.13	1662	28.36	1706	30.68
22401	1900	1468	17.70	1490	18.73	1512	19.79	1554	21.93	1595	24.13	1637	26.38	1677	28.64	1716	30.97	1753	33.27
23580	2000	<u>1531</u>	<u>19.80</u>	<u>1552</u>	<u>20.99</u>	1574	22.13	1615	24.38	1654	26.64	1693	28.96	1732	31.31	1770	33.72	1807	36.17

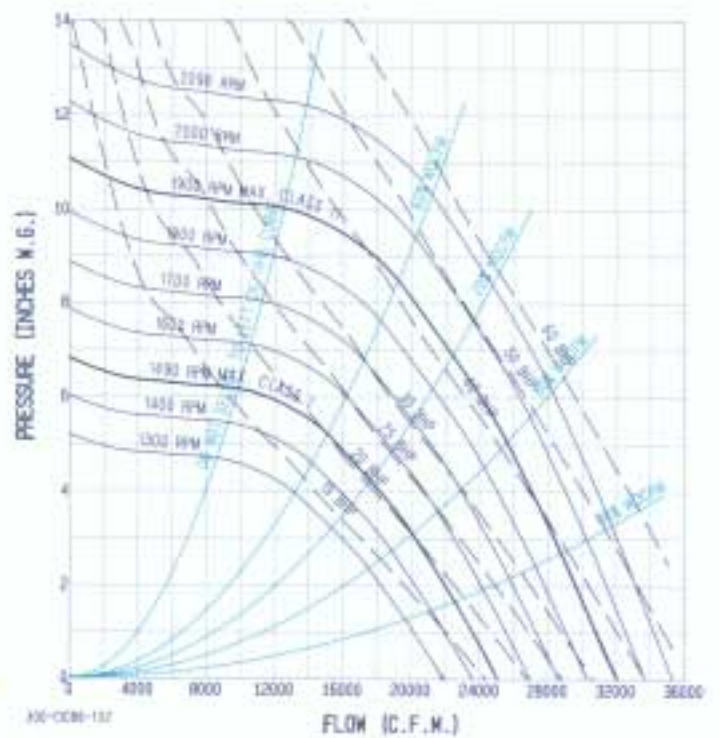
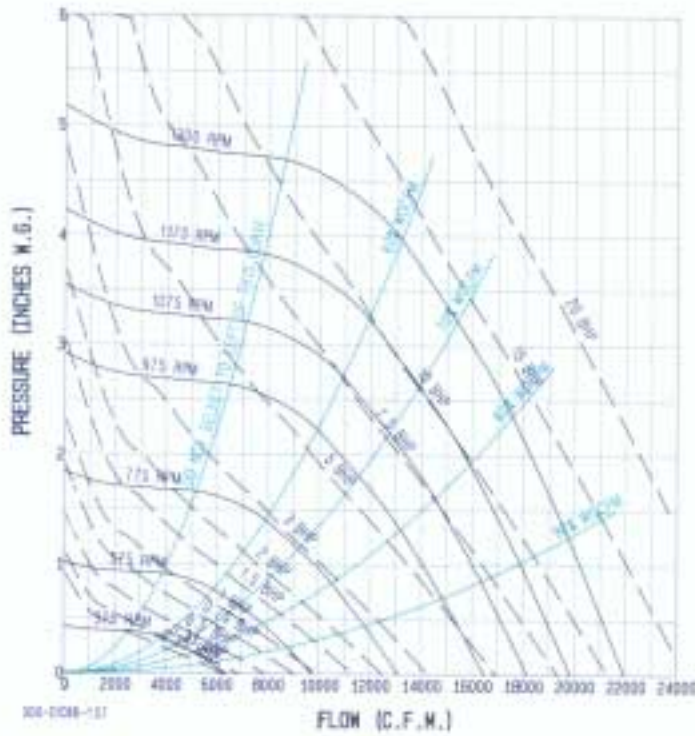
C.F.M.	VEL	5-1/2 SP		6 SP		6-1/2 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10611	900	1424	15.19	1482	16.89												
11790	1000	1442	16.62	1495	18.22	1551	19.87	1605	21.55	1656	23.20						
12969	1100	<u>1487</u>	<u>18.12</u>	1520	19.84	1571	21.59	1620	23.36	1670	25.15	1720	26.97	1768	28.78	1815	30.82
14148	1200	<u>1492</u>	<u>18.89</u>	1545	21.51	1596	23.36	1644	25.19	1692	27.12	1737	29.00	1782	30.98	1828	32.91
15327	1300	1529	21.57	<u>1575</u>	<u>23.38</u>	1621	25.22	1670	27.20	1717	29.18	1762	31.16	1807	33.24	1849	35.25
16506	1400	1589	23.84	1614	25.52	<u>1657</u>	<u>27.40</u>	<u>1699</u>	<u>29.33</u>	1742	31.33	1787	33.41	1832	35.60	1874	37.70
17685	1500	1610	25.84	1654	27.84	1697	29.83	1739	31.87	<u>1779</u>	<u>33.89</u>	<u>1818</u>	<u>35.94</u>	1857	38.04	1900	40.31
18864	1600	1655	28.05	1697	30.26	1737	32.40	1779	34.55	1818	36.63	1857	38.79	<u>1895</u>	<u>40.98</u>	<u>1932</u>	<u>43.19</u>
20043	1700	1701	30.44	1742	32.71	1782	35.03	1820	37.33	1859	39.63	1897	41.85	1935	44.15	1971	46.40
21222	1800	1748	33.02	1788	35.36	1827	37.73	1865	40.15	1902	42.60	1938	45.07	1975	47.47	2011	49.84
22401	1900	1795	35.74	1835	38.20	1873	40.63	1911	43.17	1947	45.67	1983	48.26	2018	50.88	2051	53.43
23580	2000	1843	38.68	1882	41.19	<u>1920</u>	<u>43.75</u>	1957	46.34	1993	48.96	2029	51.68	2063	54.33	2096	57.00

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.

Underlined figures indicate maximum static efficiency.

# 300 CIC CENTRIFUGAL INLINE

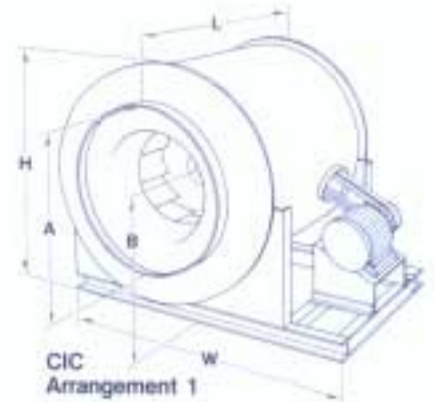
## BELT DRIVE — DIMENSION DATA



CIC Arrangement 9 (STYLE FM)



CIC Arrangement 9 (STYLE CM)



CIC Arrangement 1

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
300	35	26-1/2	43-1/2	70	53-5/8	53	46-9/16	286T	910

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
300	35	24-7/8	43-1/2	66-3/8	53-5/8	49-3/4	46-9/16	286T	910

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G WT.
300	35	30-1/2	55-3/8	53-5/8	74	46-9/16	910

\*May vary with motor frame size.

# 330 CIC CENTRIFUGAL INLINE

## BELT DRIVE — CAPACITIES

OUTLET AREA: 13.98  
WHEEL DIAMETER: 33

CLASS I
CLASS II
CLASS III

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6990	500	352	.40	389	.57	424	.76	457	.96	488	1.16	517	1.35	<u>545</u>	<u>1.56</u>	<u>574</u>	<u>1.78</u>	628	2.23
8388	600	408	.61	440	.80	470	1.01	499	1.24	528	1.47	555	1.70	580	1.94	605	2.18	<u>652</u>	<u>2.67</u>
9786	700	466	.88	494	1.11	521	1.35	546	1.59	571	1.85	596	2.11	621	2.39	644	2.66	687	3.21
11184	800	525	1.24	550	1.50	574	1.76	597	2.03	620	2.32	641	2.60	662	2.89	685	3.20	727	3.83
12582	900	585	1.69	607	1.97	629	2.27	650	2.57	670	2.87	690	3.18	710	3.50	729	3.83	768	4.51
13980	1000	645	2.25	665	2.56	685	2.86	704	3.20	723	3.54	741	3.87	760	4.23	778	4.58	812	5.30
15378	1100	706	2.93	724	3.26	742	3.61	760	3.97	778	4.33	795	4.70	811	5.06	829	5.45	860	6.21
16776	1200	766	3.72	784	4.10	800	4.46	816	4.84	833	5.24	849	5.63	865	6.04	880	6.44	910	7.26
18174	1300	827	4.56	843	5.06	859	5.47	874	5.88	889	6.29	904	6.71	919	7.14	934	7.58	962	8.46
19572	1400	888	5.75	904	6.19	918	6.61	932	7.05	946	7.50	960	7.95	974	8.40	988	8.86	1015	9.80
20970	1500	950	7.02	964	7.47	978	7.94	991	8.40	1004	8.87	1017	9.35	1030	9.83	1043	10.31	1069	11.31
22368	1600	1011	8.44	1025	8.94	1038	9.43	1050	9.91	1063	10.43	1075	10.93	1087	11.44	1099	11.94	1124	13.00
23766	1700	1073	10.07	1086	10.57	1098	11.11	1110	11.63	1121	12.13	1133	12.68	1144	13.20	1156	13.77	1179	14.86
25164	1800	1134	11.86	1146	12.41	1158	12.97	1169	13.51	1181	14.09	1192	14.65	1203	15.22	1213	15.76	1235	16.93
26562	1900	1196	13.90	1207	14.46	1218	15.04	1229	15.62	1240	16.21	1251	16.82	1261	17.40	1271	17.98	1292	19.22
27960	2000	1258	16.15	1269	16.77	1279	17.35	1290	17.99	1300	18.59	1310	19.20	1320	19.82	1330	20.45	1349	21.70

C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6990	500	679	2.72	728	3.20														
8388	600	<u>700</u>	<u>3.20</u>	745	3.75	787	4.31	871	5.50										
9786	700	729	3.77	<u>766</u>	<u>4.35</u>	<u>810</u>	<u>4.97</u>	887	6.27	959	7.61	1029	8.99						
11184	800	765	4.46	803	5.10	839	5.74	<u>909</u>	<u>7.09</u>	979	8.56	1043	10.07	1106	11.60				
12582	900	805	5.20	841	5.93	874	6.64	940	8.08	<u>1001</u>	<u>9.56</u>	1065	11.19	1125	12.87	1181	14.57	1237	16.29
13980	1000	847	6.05	881	6.81	914	7.61	975	9.20	1034	10.79	<u>1089</u>	<u>12.41</u>	1147	14.18	1203	16.00	1256	17.87
15378	1100	891	7.00	923	7.83	955	8.67	1015	10.42	1070	12.18	1124	13.90	<u>1175</u>	<u>15.68</u>	<u>1226</u>	<u>17.50</u>	1278	19.49
16776	1200	940	8.11	969	8.99	997	9.86	1055	11.69	1109	13.59	1160	15.54	1210	17.41	1258	19.35	<u>1303</u>	<u>21.28</u>
18174	1300	990	9.36	1017	10.27	1044	11.22	1097	13.14	1150	15.15	1200	17.22	1246	19.29	1293	21.34	1338	23.40
19572	1400	1041	10.76	1067	11.73	1092	12.70	1141	14.74	1192	16.86	1241	19.04	1287	21.25	1330	23.46	1374	25.71
20970	1500	1094	12.32	1117	13.32	1142	14.37	1189	16.50	1234	18.69	1282	20.97	1327	23.28	1371	25.68	1412	28.07
22368	1600	1148	14.07	1171	15.15	1193	16.23	1239	18.48	1282	20.76	<u>1324</u>	<u>23.09</u>	1369	25.54	1412	28.04	1453	30.57
23766	1700	1202	15.98	1224	17.10	1246	18.27	1288	20.58	1331	23.02	1371	25.46	1411	27.95	1453	30.54	1494	33.21
25164	1800	1257	18.10	1278	19.27	1299	20.48	1339	22.92	1380	25.44	1419	27.98	1457	30.60	1496	33.31	1535	36.00
26562	1900	1313	20.46	1333	21.67	<u>1353</u>	<u>22.92</u>	1392	25.48	1430	28.09	1469	30.79	1506	33.51	1541	36.24	1576	39.10
27960	2000	1369	23.01	1389	24.31	1408	25.60	1446	28.28	1482	30.99	1519	33.79	1555	36.61	1589	39.41	1623	42.34

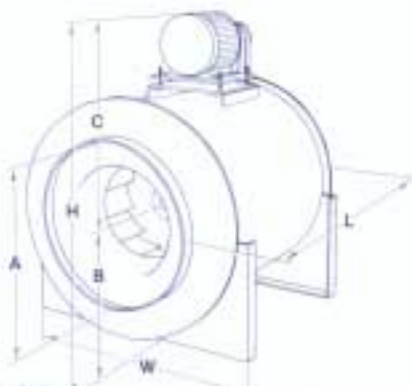
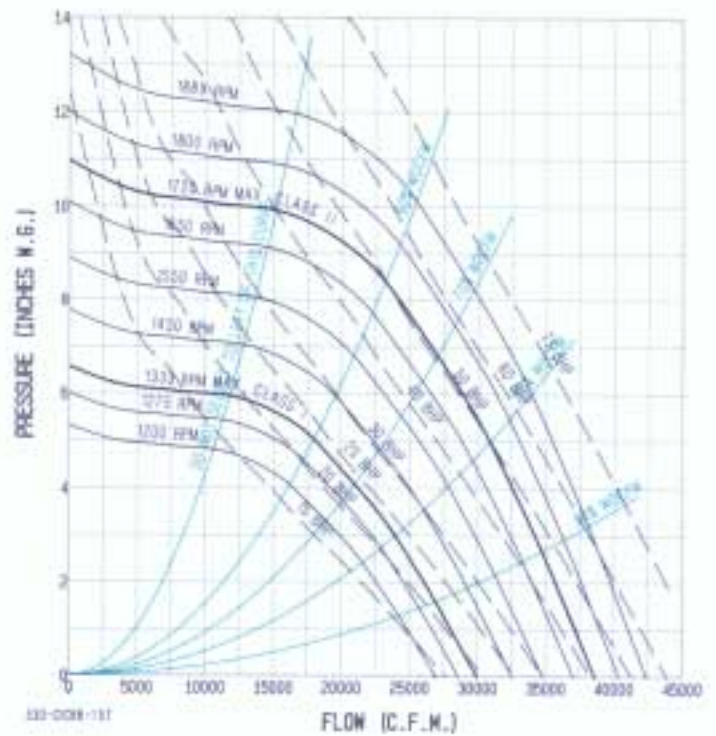
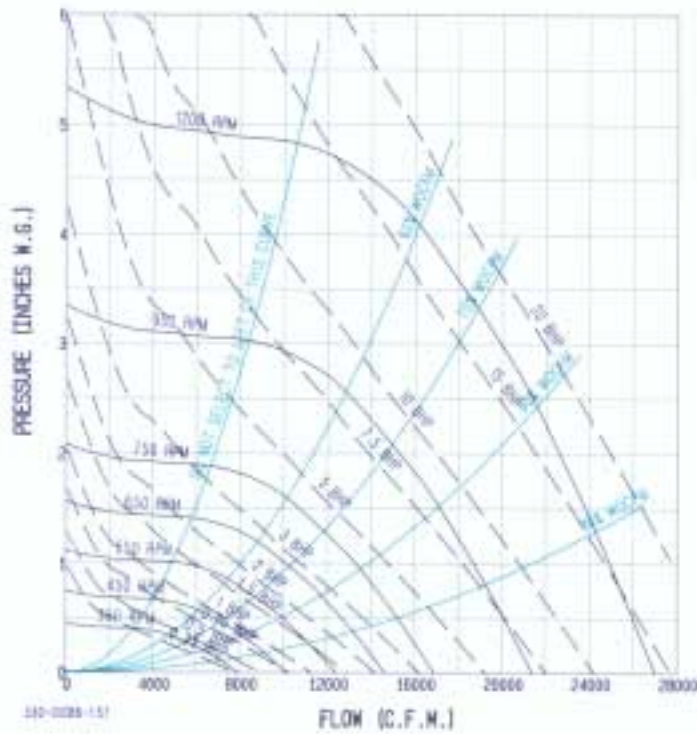
C.F.M.	VEL	5-1/2 SP		6 SP		6-1/2 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12582	900	1290	18.09	1345	19.86												
13980	1000	1306	19.75	1357	21.68	1408	23.66	1456	25.61	1503	27.62						
15378	1100	1329	21.54	1377	23.58	1423	25.85	1468	27.75	1515	29.89	1561	32.09	1605	34.27	1647	36.43
16776	1200	1351	23.36	1389	25.53	1445	27.72	1490	29.98	1533	32.25	1574	34.50	1616	36.80	1650	39.15
18174	1300	<u>1381</u>	<u>25.49</u>	<u>1422</u>	<u>27.60</u>	1468	29.94	1512	32.26	1555	34.65	1596	37.03	1636	39.44	1676	41.97
19572	1400	1416	27.88	1457	30.12	<u>1497</u>	<u>32.41</u>	<u>1535</u>	<u>34.69</u>	1577	37.15	1619	39.72	1659	42.28	1698	44.84
20970	1500	1452	30.47	1493	32.84	1532	35.21	1570	37.62	<u>1606</u>	<u>40.00</u>	<u>1642</u>	<u>42.48</u>	1681	45.10	1720	47.80
22368	1600	1492	33.11	1530	35.72	1568	38.23	1605	40.70	1642	43.29	1677	45.83	<u>1711</u>	<u>48.39</u>	<u>1745</u>	<u>51.05</u>
23766	1700	1532	35.82	1570	38.57	1606	41.30	1641	44.02	1677	46.67	1712	49.34	1746	52.03	1780	54.82
25164	1800	1574	38.83	1610	41.58	1646	44.44	1681	47.35	1714	50.21	1748	53.11	1782	55.94	1815	58.77
26562	1900	1615	41.93	1652	44.89	1687	47.82	1721	50.79	1756	53.88	1787	56.89	1819	60.02	1851	63.00
27960	2000	1658	45.35	1694	48.38	1729	51.46	1762	54.46	1795	57.62	1827	60.77	1859	64.04	1889	67.21

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.

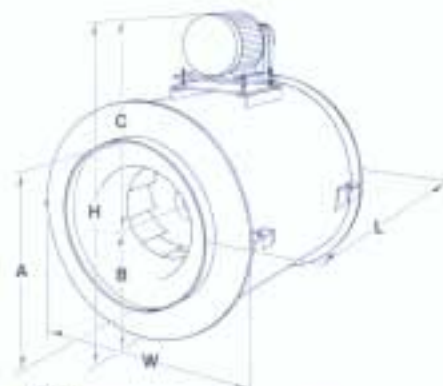
Underlined figures indicate maximum static efficiency

# 330 CIC CENTRIFUGAL INLINE

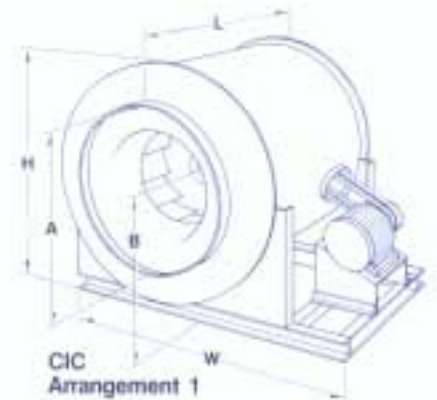
## BELT DRIVE — DIMENSION DATA



CIC Arrangement 9 (STYLE FM)



CIC Arrangement 9 (STYLE CM)



CIC Arrangement 1

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
330	38	26-1/2	46-1/2	75	59-1/8	57	50-11/16	324T	1075

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
330	38	26-15/16	46-1/2	73-7/16	59-1/8	53-7/8	50-11/16	324T	1075

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G WT.
330	38	32-1/2	59-7/16	59-1/8	80-15/16	50-11/16	1075

\*May vary with motor frame size.

# 365 CIC CENTRIFUGAL INLINE BELT DRIVE — CAPACITIES

OUTLET AREA: 16.88  
WHEEL DIAMETER: 36.5

CLASS I
CLASS II
CLASS III

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8440	500	315	.48	349	.69	381	.91	411	1.15	439	1.39	466	1.63	491	1.88	517	2.14	567	2.71
10128	600	365	.72	394	.96	422	1.22	448	1.48	474	1.76	499	2.05	522	2.34	545	2.63	587	3.21
11816	700	417	1.05	442	1.32	466	1.60	490	1.90	512	2.21	536	2.54	558	2.87	579	3.20	618	3.86
13504	800	469	1.46	492	1.78	514	2.10	535	2.43	555	2.78	575	3.11	595	3.47	615	3.83	663	4.59
15192	900	523	2.00	543	2.35	563	2.70	582	3.06	600	3.42	619	3.81	637	4.20	654	4.59	690	5.41
16880	1000	576	2.65	595	3.04	612	3.41	630	3.80	648	4.22	664	4.63	681	5.05	697	5.47	726	6.34
18568	1100	630	3.45	647	3.86	663	4.27	680	4.71	696	5.14	712	5.60	727	6.05	742	6.51	772	7.45
20256	1200	684	4.39	700	4.84	715	5.29	730	5.75	745	6.22	760	6.70	774	7.18	788	7.67	816	8.68
21944	1300	739	5.51	753	5.97	768	6.48	781	6.95	795	7.47	809	7.98	823	8.51	836	9.02	861	10.07
23632	1400	793	6.78	807	7.30	820	7.82	833	8.35	846	8.89	859	9.44	872	9.99	884	10.53	909	11.68
25320	1500	848	8.27	861	8.82	873	9.36	886	9.95	898	10.52	909	11.07	921	11.65	933	12.24	957	13.46
27008	1600	903	9.96	915	10.54	927	11.14	938	11.71	950	12.34	961	12.95	972	13.57	983	14.17	1006	15.46
28696	1700	958	11.87	969	12.47	980	13.09	991	13.72	1002	14.37	1013	15.03	1023	15.66	1033	16.30	1055	17.66
30384	1800	1013	14.00	1023	14.62	1034	15.30	1045	15.99	1055	16.65	1065	17.33	1075	18.01	1085	18.71	1105	20.11
32072	1900	1068	16.39	1078	17.07	1088	17.76	1098	18.46	1108	19.18	1118	19.91	1127	20.60	1137	21.35	1156	22.79
33760	2000	1123	19.03	1133	19.77	1142	20.46	1152	21.23	1161	21.95	1171	22.74	1180	23.48	1189	24.24	1206	25.72

C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8440	500	613	3.28	658	3.88														
10128	600	631	3.86	672	4.53	710	5.22	787	6.66										
11816	700	656	4.54	692	5.24	730	6.00	800	7.58	866	9.20	930	10.90						
13504	800	688	5.37	723	6.14	755	6.91	820	8.57	883	10.35	941	12.18	999	14.04				
15192	900	724	6.26	756	7.13	787	8.00	846	9.73	903	11.56	960	13.50	1014	15.52	1065	17.61	1118	19.76
16880	1000	761	7.26	792	8.19	822	9.16	878	11.10	931	13.00	981	14.96	1034	17.11	1085	19.34	1133	21.61
18568	1100	800	8.41	829	9.39	858	10.41	912	12.52	963	14.66	1012	16.76	1058	18.90	1105	21.16	1153	23.58
20256	1200	843	9.70	869	10.76	896	11.85	948	14.05	997	16.35	1044	18.71	1089	20.96	1132	23.27	1173	25.63
21944	1300	887	11.17	912	12.28	936	13.41	986	15.79	1034	18.23	1078	20.67	1121	23.22	1164	25.70	1204	28.15
23632	1400	932	12.82	956	13.99	980	15.22	1024	17.67	1071	20.24	1115	22.86	1157	25.56	1196	28.24	1236	30.90
25320	1500	979	14.66	1001	15.90	1024	17.19	1067	19.77	1108	22.40	1152	25.20	1193	28.00	1232	30.85	1270	33.81
27008	1600	1027	16.71	1048	18.02	1069	19.38	1110	22.05	1150	24.86	1189	27.69	1230	30.67	1269	33.70	1306	36.75
28696	1700	1076	19.02	1096	20.38	1116	21.79	1155	24.62	1193	27.50	1230	30.50	1268	33.58	1306	36.71	1342	39.85
30384	1800	1125	21.53	1144	22.93	1163	24.39	1200	27.38	1237	30.39	1273	33.51	1307	36.64	1343	39.90	1379	43.22
32072	1900	1174	24.25	1193	25.77	1212	27.33	1247	30.40	1282	33.56	1317	36.80	1350	40.04	1383	43.45	1417	46.87
33760	2000	1224	27.28	1242	28.83	1260	30.44	1295	33.71	1327	36.92	1361	40.31	1394	43.74	1426	47.25	1456	50.71

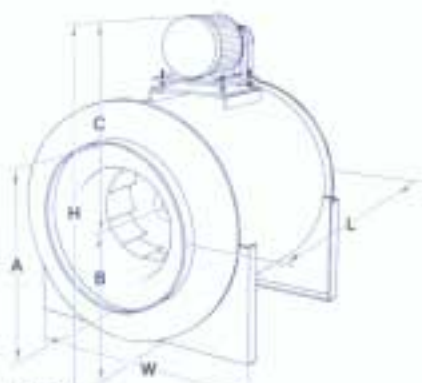
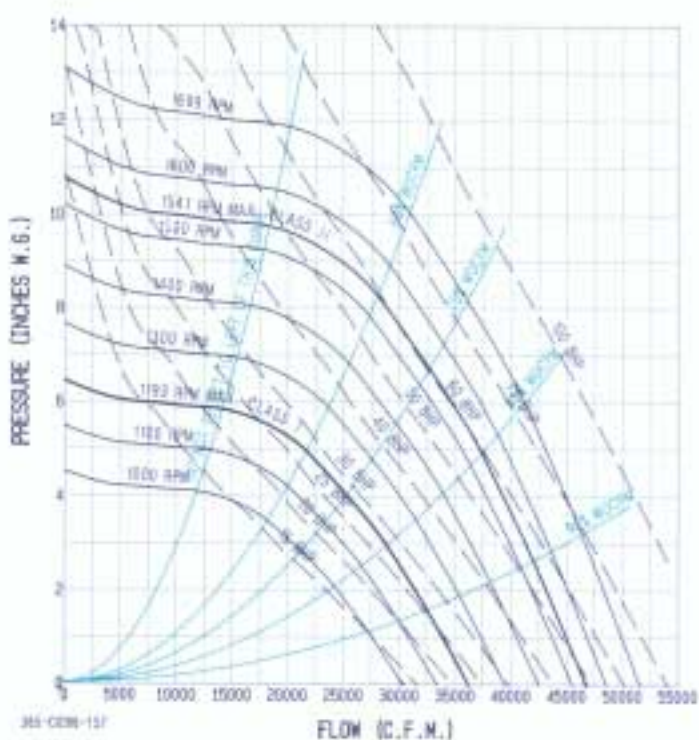
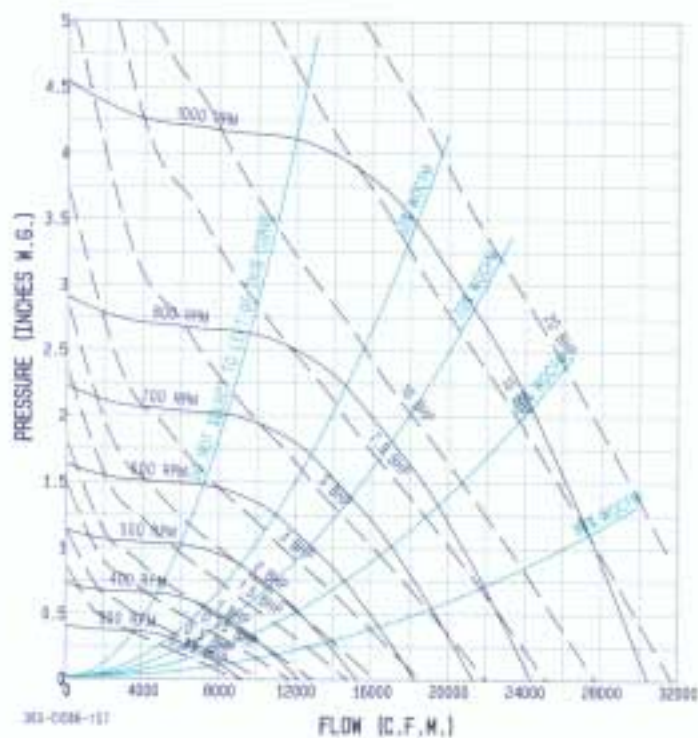
C.F.M.	VEL	5-1/2 SP		6 SP		6-1/2 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15192	900	1167	21.86	1215	24.06												
16880	1000	1179	23.94	1226	26.27	1271	28.59	1315	31.00	1358	33.47						
18568	1100	1198	26.99	1242	28.51	1284	31.05	1326	33.59	1368	36.15	1409	38.76	1449	41.43	1488	44.14
20256	1200	1218	28.20	1262	30.87	1303	33.48	1344	36.25	1382	38.93	1420	41.74	1460	44.58	1498	47.35
21944	1300	1243	30.69	1282	33.34	1323	36.10	1364	39.02	1402	41.94	1440	44.80	1476	47.72	1512	50.78
23632	1400	1275	33.61	1312	36.31	1347	38.99	1384	41.90	1422	44.87	1460	47.88	1496	51.05	1531	54.14
25320	1500	1307	36.69	1343	39.47	1379	42.40	1413	45.29	1446	48.21	1480	51.28	1516	54.49	1551	57.74
27008	1600	1341	39.80	1376	42.99	1411	46.00	1445	49.05	1478	52.13	1509	55.13	1541	58.37	1571	61.46
28696	1700	1377	43.07	1411	46.36	1444	49.70	1477	53.00	1509	56.14	1541	59.41	1572	62.70	1602	65.69
30384	1800	1414	46.61	1447	49.97	1480	53.49	1511	56.94	1542	60.53	1573	63.90	1604	67.35	1633	70.68
32072	1900	1451	50.34	1484	53.88	1516	57.46	1547	61.07	1577	64.72	1607	68.50	1636	72.22	1665	75.71
33760	2000	1489	54.38	1521	57.98	1553	61.74	1584	65.53	1614	69.35	1643	73.17	1671	77.00	1699	80.96

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.

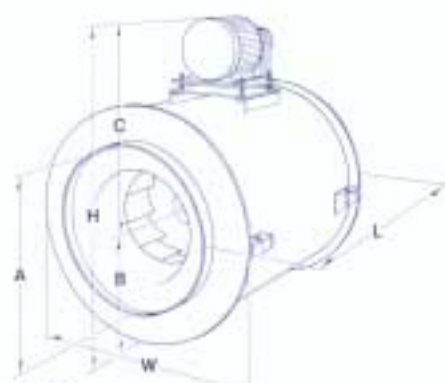
Underlined figures indicate maximum static efficiency.

# 365 CIC CENTRIFUGAL INLINE

## BELT DRIVE — DIMENSION DATA



CIC Arrangement 9 (STYLE FM)



CIC Arrangement 9 (STYLE CM)



CIC Arrangement 1

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
365	41-1/2	31	50	81	64-3/8	62	55-3/4	326T	1305

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
365	41-1/2	30	50	80	64-3/8	59-15/16	55-3/4	326T	1305

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G WT.
365	41-1/2	35	65	64-3/8	85-15/16	55-3/4	1305

\*May vary with motor frame size.

# 402 CIC CENTRIFUGAL INLINE

## BELT DRIVE — CAPACITIES

OUTLET AREA: 20.29  
WHEEL DIAMETER: 40.25

CLASS I
CLASS II
CLASS III

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10145	500	284	.57	314	.82	343	1.08	371	1.37	396	1.66	421	1.96	<u>444</u>	<u>2.25</u>	<u>468</u>	<u>2.58</u>	513	3.26
12174	600	328	.85	355	1.15	380	1.45	404	1.77	428	2.11	450	2.45	471	2.80	492	3.14	<u>531</u>	<u>3.88</u>
14203	700	374	1.23	398	1.57	420	1.92	441	2.27	462	2.65	483	3.03	503	3.42	522	3.83	558	4.63
16232	800	421	1.73	442	2.10	462	2.49	481	2.88	500	3.29	518	3.71	536	4.14	555	4.59	589	5.50
18261	900	468	2.36	487	2.76	506	3.20	523	3.62	540	4.06	557	4.53	573	4.99	589	5.48	622	6.47
20290	1000	517	3.13	534	3.59	550	4.04	567	4.53	582	5.00	597	5.50	613	6.02	628	6.53	656	7.58
22319	1100	565	4.06	581	4.56	596	5.07	611	5.58	626	6.12	640	6.64	653	7.17	667	7.72	695	8.88
24348	1200	614	5.18	628	5.70	642	6.25	655	6.79	670	7.39	683	7.95	696	8.53	709	9.13	734	10.32
26377	1300	662	6.46	676	7.05	689	7.64	701	8.22	714	8.83	727	9.46	739	10.06	751	10.69	775	12.01
28406	1400	711	7.97	724	8.61	736	9.23	748	9.87	760	10.53	771	11.15	783	11.82	795	12.51	817	13.86
30435	1500	760	9.71	772	10.38	784	11.07	795	11.74	806	12.43	816	13.09	828	13.83	839	14.54	860	15.96
32464	1600	809	11.88	821	12.42	832	13.14	842	13.83	853	14.59	863	15.32	873	16.06	883	16.78	904	18.33
34493	1700	859	13.95	869	14.68	880	15.47	890	16.23	900	17.00	909	17.74	919	18.55	928	19.30	948	20.93
36522	1800	908	16.45	918	17.24	928	18.05	937	18.82	947	19.67	956	20.47	965	21.28	974	22.11	992	23.77
38551	1900	957	19.23	967	20.10	976	20.92	985	21.75	994	22.61	1003	23.47	1012	24.36	1020	25.18	1037	26.94
40580	2000	1007	22.38	1016	23.25	1025	24.14	1033	24.98	1042	25.90	1050	26.76	1059	27.72	1067	28.61	<u>1083</u>	<u>30.43</u>

C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10145	500	555	3.95	596	4.67														
12174	600	<u>571</u>	<u>4.64</u>	608	5.45														
14203	700	593	5.45	<u>626</u>	<u>6.30</u>	661	7.23	724	9.12	785	11.10	842	13.11						
16232	800	621	6.43	653	7.36	<u>682</u>	<u>8.28</u>	742	10.31	799	12.45	852	14.67	905	16.91				
18261	900	653	7.49	682	8.54	710	9.56	<u>764</u>	<u>11.66</u>	<u>817</u>	<u>13.90</u>	869	16.26	918	18.71	965	21.22	1013	23.80
20290	1000	686	8.68	715	9.83	741	10.95	792	13.25	841	15.59	<u>887</u>	<u>17.98</u>	936	20.60	982	23.29	1025	25.98
22319	1100	720	10.01	748	11.24	774	12.47	823	15.00	869	17.52	914	20.08	<u>958</u>	<u>22.68</u>	1000	25.47	1043	28.34
24348	1200	759	11.57	783	12.88	807	14.12	856	16.87	900	19.62	942	22.36	984	25.16	<u>1023</u>	<u>27.95</u>	<u>1061</u>	<u>30.81</u>
26377	1300	798	13.29	821	14.64	843	16.01	889	18.88	932	21.77	973	24.79	1012	27.80	1051	30.78	<u>1088</u>	<u>33.80</u>
28406	1400	839	15.28	861	16.69	882	18.13	923	21.12	965	24.15	1006	27.38	1044	30.62	<u>1080</u>	<u>33.89</u>	1116	37.01
30435	1500	881	17.46	901	18.94	922	20.49	961	23.60	999	26.78	1039	30.15	<u>1076</u>	<u>33.50</u>	1112	37.00	1146	40.51
32464	1600	924	19.89	943	21.46	962	23.06	1000	26.33	1038	29.69	<u>1072</u>	<u>33.09</u>	1109	36.66	1144	40.26	1178	43.98
34493	1700	967	22.56	985	24.17	1003	25.85	1039	29.27	<u>1074</u>	<u>32.77</u>	<u>1108</u>	<u>36.42</u>	<u>1143</u>	<u>40.11</u>	1177	43.82	1211	47.75
36522	1800	1011	25.52	1029	27.27	1046	29.00	<u>1080</u>	<u>32.61</u>	<u>1114</u>	<u>36.26</u>	<u>1146</u>	<u>39.94</u>	<u>1177</u>	<u>43.72</u>	1211	47.71	1244	51.74
38551	1900	1055	28.75	1072	30.55	<u>1089</u>	<u>32.40</u>	<u>1121</u>	<u>36.09</u>	<u>1154</u>	<u>39.99</u>	<u>1185</u>	<u>43.79</u>	1216	47.80	1245	51.76	1277	55.94
40580	2000	<u>1100</u>	<u>32.34</u>	<u>1116</u>	<u>34.17</u>	<u>1133</u>	<u>36.16</u>	1164	40.01	1194	43.97	1225	48.01	1255	52.14	1284	56.35	1312	60.81

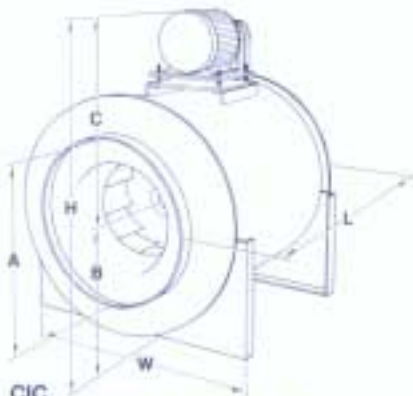
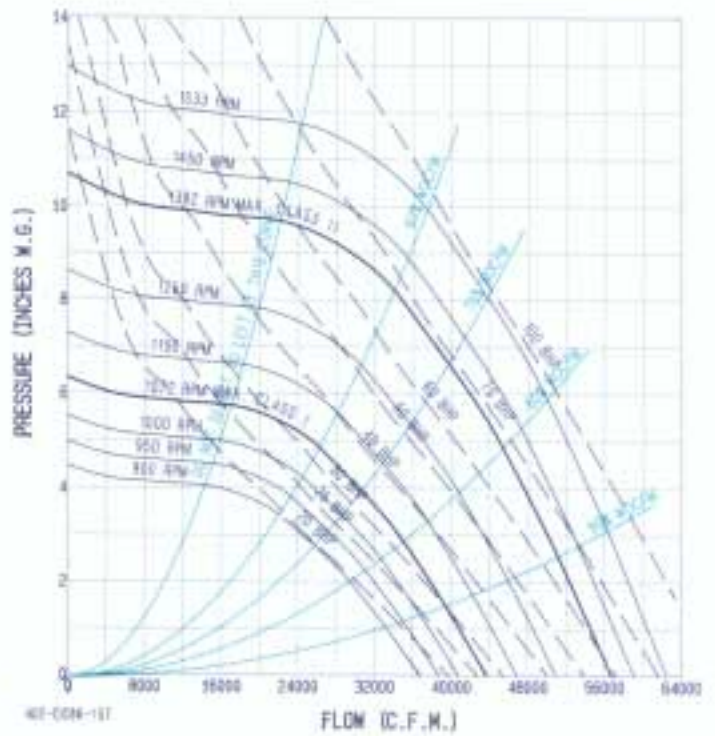
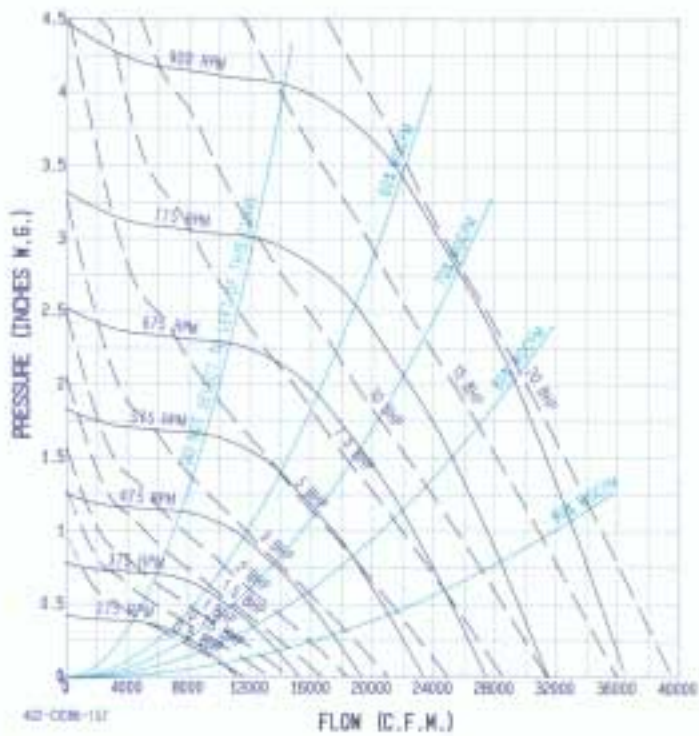
C.F.M.	VEL	5-1/2 SP		6 SP		6-1/2 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
18261	900	1058	26.38	1101	29.00												
20290	1000	1067	28.77	1110	31.58	1152	34.49	1192	37.40	1230	40.29						
22319	1100	1084	31.26	1124	34.31	1162	37.37	1201	40.43	1240	43.61	1277	46.74	1313	49.23	1348	53.16
24348	1200	1102	33.92	1142	37.14	1180	40.38	1216	43.60	1251	46.89	1286	50.23	1323	53.72	1358	57.14
26377	1300	<u>1123</u>	<u>36.83</u>	1160	40.10	1197	43.41	1234	46.91	1269	50.36	1303	53.90	1336	57.47	1368	61.07
28406	1400	1151	40.23	<u>1185</u>	<u>43.53</u>	<u>1217</u>	<u>46.78</u>	1252	50.36	1287	54.01	1321	57.71	1354	61.45	1386	65.23
30435	1500	1180	43.93	1213	47.32	1245	50.77	<u>1277</u>	<u>54.39</u>	<u>1307</u>	<u>57.92</u>	1339	61.66	1372	65.58	1404	69.54
32464	1600	1210	47.68	1242	51.44	1274	55.06	1305	58.78	1335	62.50	<u>1364</u>	<u>66.25</u>	<u>1392</u>	<u>70.00</u>	1422	74.00
34493	1700	1243	51.96	1273	55.52	1303	59.55	1333	63.39	1363	67.31	1392	71.25	1420	75.19	<u>1447</u>	<u>79.12</u>
36522	1800	1275	55.73	1306	59.92	1335	64.02	1364	68.30	1392	72.50	1420	76.48	1448	80.62	1475	84.74
38551	1900	1308	60.14	1339	64.54	1368	68.85	1396	73.19	1423	77.54	1450	82.00	1477	86.47	1504	90.79
40580	2000	1342	64.92	1372	69.40	1401	73.92	1429	78.47	1456	83.03	1482	87.58	1508	92.29	1533	96.99

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Underlined figures indicate maximum static efficiency.

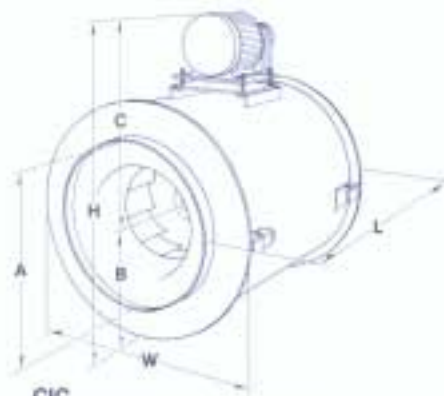


# 402 CIC CENTRIFUGAL INLINE

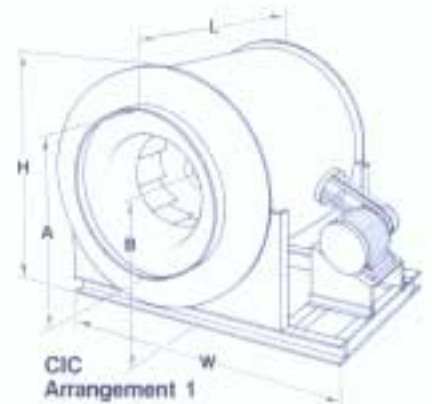
## BELT DRIVE — DIMENSION DATA



**CIC Arrangement 9 (STYLE FM)**



**CIC Arrangement 9 (STYLE CM)**



**CIC Arrangement 1**

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
402	45-1/8	34	54-1/2	88-1/2	67-11/16	66	61-1/8	364T	1533

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
402	45-1/4	32-11/16	54-1/2	87-3/16	67-11/16	65-5/16	61-1/8	364T	1533

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G WT.
402	45-1/4	40	72-11/16	67-11/16	94-9/16	61-1/8	1533

\*May vary with motor frame size.

# 445 CIC CENTRIFUGAL INLINE

## BELT DRIVE – CAPACITIES

OUTLET AREA: 24.48  
WHEEL DIAMETER: 44.5

CLASS I

CLASS II

CLASS III

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12240	500	254	<u>57</u>	282	.98	309	1.31	334	1.66	357	2.00	379	2.35	<u>400</u>	<u>2.71</u>	422	<u>3.10</u>	463	3.94
14688	600	294	1.02	318	1.36	341	1.74	363	2.12	385	2.54	405	2.95	424	3.36	443	3.78	<u>479</u>	<u>4.66</u>
17136	700	335	1.47	356	1.86	376	2.28	396	2.72	415	3.17	434	3.63	452	4.10	470	4.62	503	5.58
19584	800	377	2.05	395	2.50	414	2.96	431	3.43	449	3.94	465	4.44	482	4.97	499	5.52	530	6.62
22032	900	419	2.78	436	3.28	453	3.80	469	4.33	484	4.86	500	5.43	515	6.00	529	6.57	559	7.76
24480	1000	462	3.70	477	4.23	492	4.79	507	5.36	522	5.96	535	6.55	550	7.19	563	7.79	589	9.06
26928	1100	505	4.79	519	5.38	533	6.00	547	6.63	560	7.25	573	7.90	586	8.58	599	9.25	623	10.58
29376	1200	548	6.08	562	6.76	574	7.39	587	8.09	599	8.74	612	9.47	624	10.18	635	10.87	659	12.36
31824	1300	592	7.54	604	8.32	616	9.03	627	9.73	639	10.48	651	11.24	662	11.98	673	12.74	694	14.27
34272	1400	635	9.39	647	10.16	658	10.91	669	11.69	679	12.44	690	13.23	701	14.04	712	14.88	732	16.51
36720	1500	679	11.44	690	12.25	701	13.09	711	13.89	721	14.72	731	15.57	741	16.41	751	17.26	771	19.04
39168	1600	723	13.78	733	14.62	743	15.48	753	16.37	762	17.21	772	18.15	781	19.03	791	19.96	809	21.75
41616	1700	767	16.42	777	17.34	786	18.23	795	19.13	804	20.05	813	21.00	822	21.97	831	22.94	849	24.88
44064	1800	811	19.37	820	20.32	829	21.28	838	22.27	846	23.20	855	24.23	863	25.19	871	26.18	888	28.22
46512	1900	855	22.66	864	23.70	872	24.67	881	25.74	889	26.75	897	27.78	905	28.82	913	29.89	928	31.95
48960	2000	899	26.31	907	27.34	915	28.40	923	29.47	931	30.56	939	31.67	947	32.80	954	33.84	<u>969</u>	<u>36.08</u>

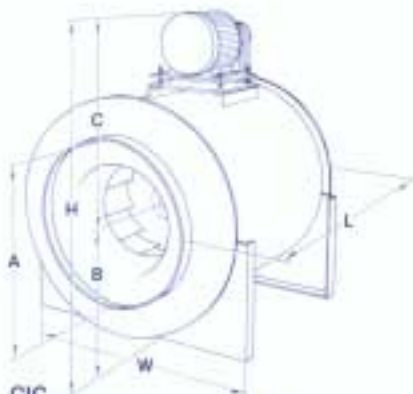
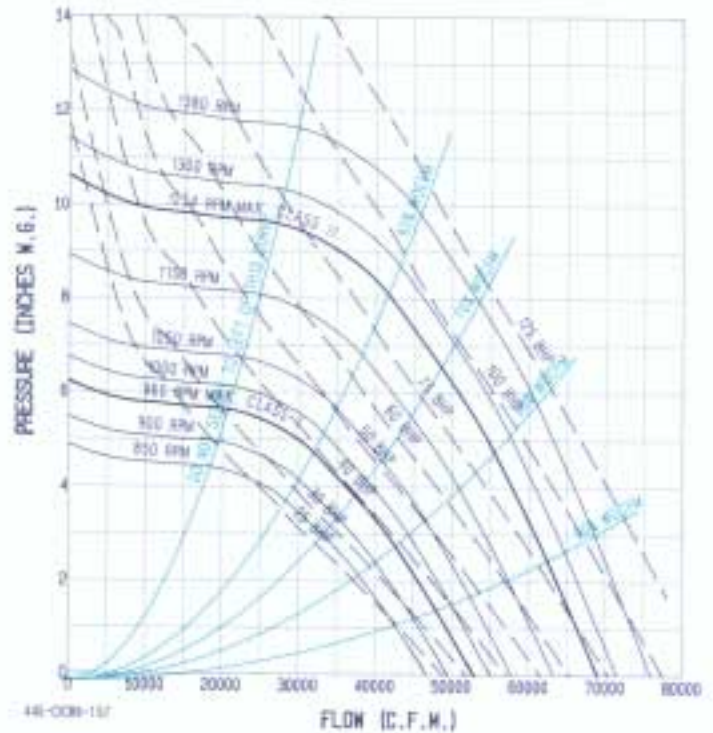
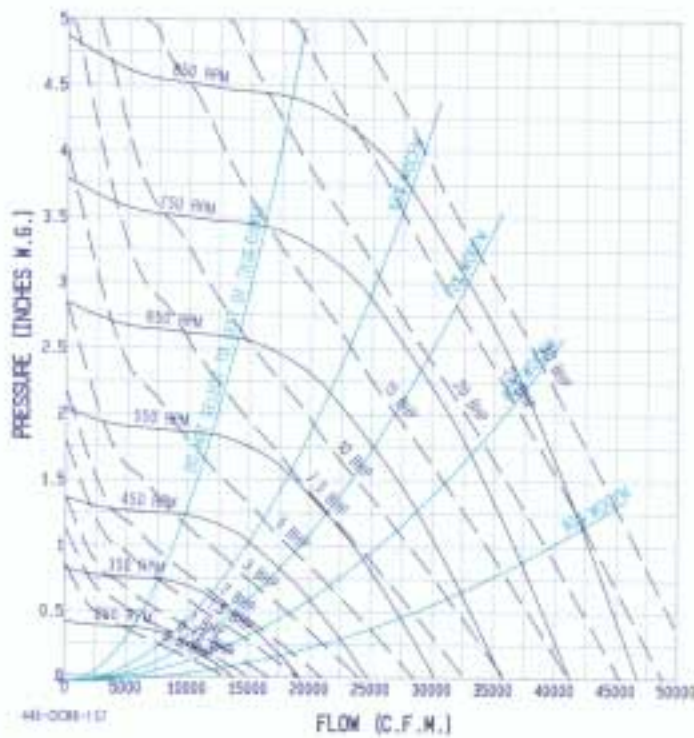
C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12240	500	502	4.79	539	5.67														
14688	600	515	5.60	549	6.60	561	7.59	644	9.69										
17136	700	<u>534</u>	<u>6.56</u>	<u>565</u>	<u>7.61</u>	596	8.71	653	11.00	709	13.41	761	15.86						
19584	800	559	7.73	588	8.86	<u>614</u>	<u>9.96</u>	669	12.42	721	15.04	769	17.69	818	20.47				
22032	900	587	8.99	614	10.29	640	11.54	<u>688</u>	<u>14.02</u>	737	16.77	784	19.63	829	22.65	872	25.67	915	28.76
24480	1000	617	10.43	643	11.81	667	13.19	713	15.93	<u>757</u>	<u>18.73</u>	<u>800</u>	<u>21.68</u>	844	24.83	886	28.12	925	31.30
26928	1100	647	12.01	672	13.47	696	14.97	740	18.01	783	21.12	823	24.16	<u>861</u>	<u>27.30</u>	902	30.72	941	34.21
29376	1200	681	13.83	703	15.40	726	16.98	769	20.20	809	23.54	848	26.88	886	30.26	<u>921</u>	<u>33.60</u>	<u>957</u>	<u>37.17</u>
31824	1300	716	15.88	737	17.52	757	19.19	799	22.64	838	26.14	875	29.78	911	33.41	945	36.99	980	40.70
34272	1400	752	18.20	772	19.92	791	21.64	829	25.28	868	29.04	904	32.82	939	36.81	<u>972</u>	<u>40.70</u>	<u>1005</u>	<u>44.53</u>
36720	1500	789	20.76	808	22.61	827	24.48	862	28.19	899	32.13	934	36.18	<u>968</u>	<u>40.30</u>	1000	44.45	1031	48.73
39168	1600	827	23.62	845	25.57	862	27.46	897	31.45	930	35.55	<u>964</u>	<u>39.75</u>	<u>997</u>	<u>44.00</u>	1029	46.40	<u>1059</u>	<u>52.79</u>
41616	1700	866	26.82	883	28.83	899	30.83	932	34.96	<u>964</u>	<u>39.22</u>	994	43.52	1027	48.07	1058	52.58	1089	57.37
44064	1800	905	30.31	921	32.38	937	34.52	<u>968</u>	<u>38.85</u>	999	43.28	1029	47.65	1057	52.38	1088	57.16	1118	62.06
46512	1900	944	34.10	960	36.32	<u>976</u>	<u>38.62</u>	1005	43.07	1035	47.74	1064	52.47	1091	57.15	1119	62.15	1148	67.14
48960	2000	<u>984</u>	<u>38.31</u>	<u>999</u>	<u>40.58</u>	1014	42.91	1043	47.66	1070	52.37	1099	57.38	1126	62.33	1152	67.36	1178	72.51

C.F.M.	VEL	5-1/2 SP		6 SP		6-1/2 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
22032	900	956	31.91	995	35.09												
24480	1000	964	34.78	1003	38.19	1041	41.72	1077	45.23	1112	48.81						
26928	1100	979	37.86	1014	41.42	1049	45.13	1085	48.86	1120	52.68	1154	56.56	1187	60.49	1218	64.30
29376	1200	995	41.04	1030	44.80	1064	48.67	1097	52.63	1129	56.67	1162	60.74	1195	64.90	1227	69.09
31824	1300	<u>1012</u>	<u>44.40</u>	1048	48.33	1080	52.41	1113	56.59	1145	60.84	1176	65.15	1206	69.50	1235	73.83
34272	1400	1037	48.47	<u>1067</u>	<u>52.36</u>	<u>1097</u>	<u>56.45</u>	1129	60.70	1161	65.17	1192	69.70	1222	74.27	1251	78.86
36720	1500	1062	52.77	1093	57.04	1122	61.22	<u>1150</u>	<u>65.45</u>	<u>1177</u>	<u>69.67</u>	1208	74.42	1238	79.21	1265	83.82
39168	1600	1089	57.42	1118	61.82	1147	66.23	1175	70.69	1202	75.17	<u>1228</u>	<u>79.65</u>	<u>1254</u>	<u>84.32</u>	1283	89.35
41616	1700	1117	61.84	1145	66.74	1173	71.68	1200	76.19	1227	80.91	1253	85.62	1279	90.53	<u>1303</u>	<u>95.19</u>
44064	1800	1147	67.03	1174	71.90	1201	77.00	1227	82.14	1253	87.13	1279	92.08	1304	97.01	1329	102.13
46512	1900	1176	72.21	1203	77.33	1230	82.66	1255	87.85	1280	93.23	1305	98.83	1330	104.02	1354	109.15
48960	2000	1206	77.84	1233	83.22	<u>1259</u>	<u>88.63</u>	1285	94.26	1309	99.67	1333	105.28	1357	111.10	1380	116.72

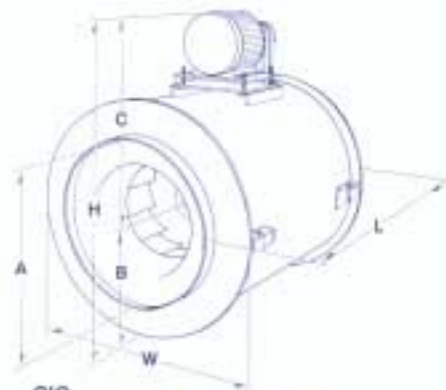
Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Underlined figures indicate maximum static efficiency.

# 445 CIC CENTRIFUGAL INLINE

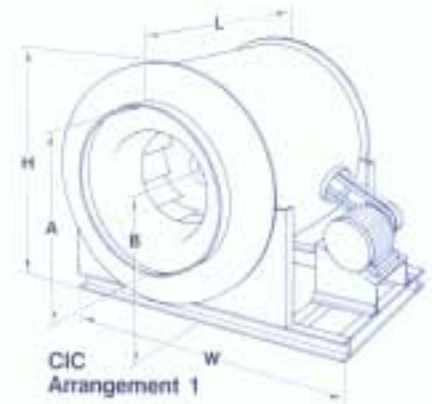
## BELT DRIVE — DIMENSION DATA



CIC Arrangement 9 (STYLE FM)



CIC Arrangement 9 (STYLE CM)



CIC Arrangement 1

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
445	49-1/2"	37"	58"	90"	77-1/16"	74"	67-1/16"	364T	1850

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
445	49-1/2"	35-11/16"	58"	83-11/16"	77-1/16"	71-3/8"	67-1/16"	364T	1850

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G WT.
445	49-1/2"	43"	78-11/16"	77-1/16"	100-9/16"	67-1/16"	1850

\*May vary with motor frame size.

# 490 CIC CENTRIFUGAL INLINE

## BELT DRIVE — CAPACITIES

OUTLET AREA: 29.87  
WHEEL DIAMETER: 49

CLASS I

CLASS II

CLASS III

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
14935	500	232	.83	257	1.20	281	1.59	304	2.02	325	2.45	345	2.87	<u>364</u>	3.31	<u>384</u>	3.79	421	4.80
17922	600	268	1.24	290	1.67	311	2.13	331	2.61	351	3.11	369	3.62	386	4.11	403	4.62	<u>436</u>	5.70
20909	700	306	1.81	325	2.29	343	2.79	361	3.33	378	3.88	396	4.46	412	5.03	428	5.64	458	6.83
23896	800	344	2.52	361	3.07	378	3.65	393	4.21	409	4.82	424	5.45	439	6.06	454	6.73	483	8.11
26883	900	383	3.44	396	4.04	413	4.66	428	5.32	442	5.98	456	6.66	469	7.33	482	8.04	509	9.48
29870	1000	422	4.56	436	5.22	450	5.93	463	6.61	476	7.33	488	8.03	501	8.79	514	9.59	537	11.12
32857	1100	461	5.90	474	6.63	487	7.40	499	8.14	511	8.91	523	9.71	534	10.49	546	11.33	568	12.97
35844	1200	501	7.52	513	8.32	524	9.10	536	9.96	547	10.76	558	11.60	569	12.48	579	13.32	601	15.17
38831	1300	541	9.43	552	10.28	563	11.16	573	12.01	583	12.87	594	13.81	604	14.71	614	15.64	633	17.52
41818	1400	581	11.64	591	12.53	601	13.45	611	14.40	620	15.31	630	16.29	640	17.28	650	18.31	666	20.28
44805	1500	621	14.17	630	15.09	640	16.11	649	17.09	658	18.10	667	19.13	676	20.14	685	21.16	703	23.34
47792	1600	661	17.04	670	18.06	679	19.12	688	20.20	696	21.22	705	22.35	713	23.41	722	24.55	739	26.81
50779	1700	701	20.28	710	21.41	718	22.48	726	23.57	735	24.76	743	25.92	750	26.98	758	28.16	775	30.61
53766	1800	741	23.91	749	25.05	757	26.22	765	27.41	773	28.62	781	29.87	788	31.02	796	32.31	811	34.76
56753	1900	781	27.96	789	29.20	797	30.47	804	31.65	812	32.97	819	34.20	826	35.44	833	36.71	847	39.29
59740	2000	822	32.55	829	33.79	836	35.04	844	36.45	851	37.75	858	39.08	865	40.42	871	41.65	<u>885</u>	<u>44.45</u>

C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
14935	500	456	5.83	490	6.92														
17922	600	<u>469</u>	<u>6.86</u>	499	8.04	528	9.26	585	11.80										
20909	700	486	8.02	<u>514</u>	<u>9.29</u>	542	10.63	594	13.44	644	16.33	692	19.38						
23896	800	509	9.45	535	10.82	<u>559</u>	<u>12.18</u>	609	15.20	655	18.30	699	21.58	743	24.93				
26883	900	535	11.01	559	12.57	582	14.06	<u>626</u>	<u>17.12</u>	670	20.45	713	23.95	753	27.54	792	31.25	831	35.00
29870	1000	562	12.76	585	14.40	607	16.09	649	19.48	<u>689</u>	<u>22.89</u>	<u>728</u>	<u>26.51</u>	768	30.36	806	34.34	841	38.26
32857	1100	590	14.75	612	16.47	634	18.32	674	22.03	712	25.74	749	29.51	<u>783</u>	<u>33.28</u>	820	37.46	856	41.79
35844	1200	621	16.96	640	18.79	661	20.75	701	24.77	737	28.81	772	32.87	<u>806</u>	<u>36.92</u>	<u>838</u>	<u>41.03</u>	<u>871</u>	<u>45.47</u>
38831	1300	653	19.49	672	21.48	690	23.50	726	27.72	764	32.07	797	36.43	830	40.96	861	45.20	<u>892</u>	<u>49.74</u>
41818	1400	686	22.35	704	24.43	722	26.61	755	30.90	791	35.57	824	40.23	855	44.97	<u>885</u>	<u>49.80</u>	915	54.47
44805	1500	720	25.51	737	27.75	754	30.00	786	34.56	818	39.31	851	44.29	<u>881</u>	<u>49.17</u>	911	54.40	939	59.60
47792	1600	755	29.05	771	31.40	786	33.67	818	38.58	847	43.43	<u>878</u>	<u>48.62</u>	<u>908</u>	<u>53.80</u>	937	59.16	965	64.65
50779	1700	790	32.82	806	35.46	820	37.82	<u>850</u>	<u>42.89</u>	879	48.09	906	53.29	936	58.91	964	64.39	991	69.98
53766	1800	826	37.26	841	39.86	855	42.40	883	47.69	911	53.07	938	58.62	964	64.30	991	69.91	1018	75.82
56753	1900	862	41.98	876	44.62	<u>890</u>	<u>47.35</u>	917	52.90	944	58.59	970	64.29	995	70.10	1019	75.97	1046	82.21
59740	2000	<u>899</u>	<u>47.25</u>	<u>912</u>	<u>49.92</u>	<u>926</u>	<u>52.85</u>	<u>952</u>	<u>58.60</u>	976	64.26	1002	70.32	1027	76.48	1050	82.48	1074	88.95

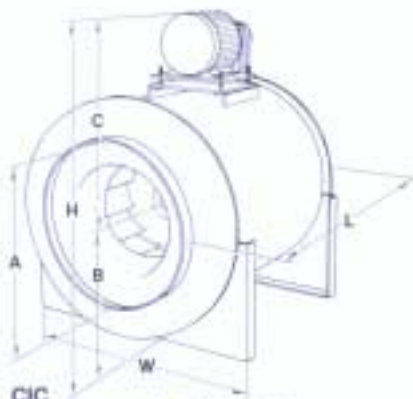
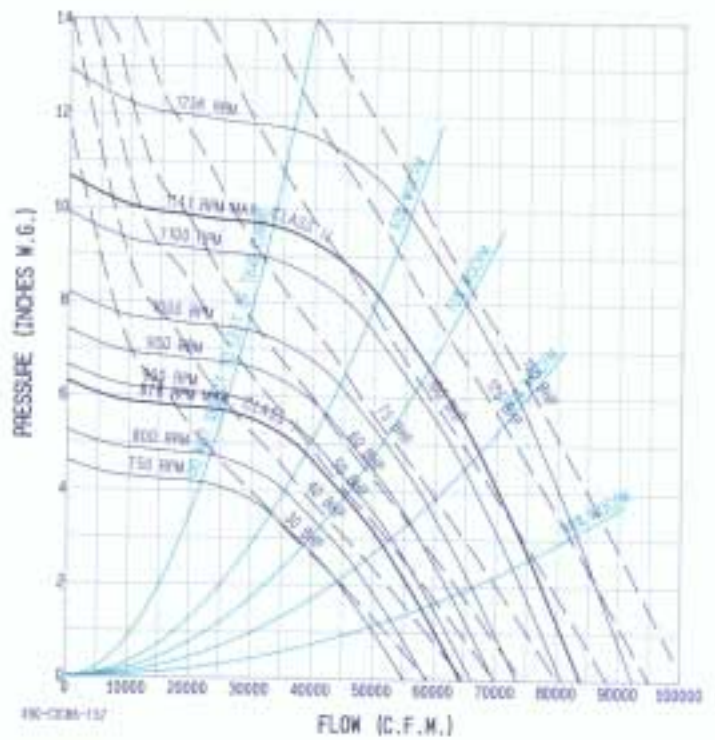
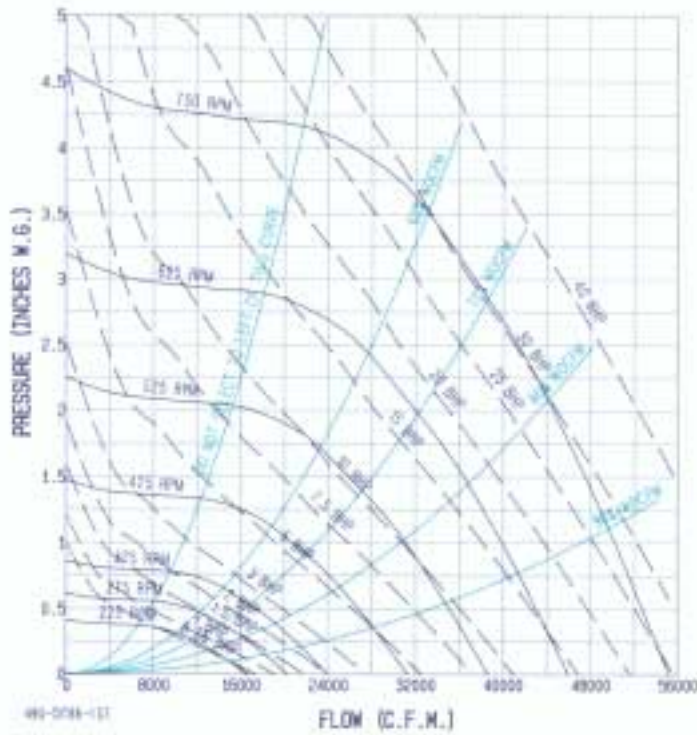
C.F.M.	VEL	5-1/2 SP		6 SP		6-1/2 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
26883	900	869	38.94	<u>904</u>	<u>42.76</u>												
29870	1000	876	42.41	912	45.65	946	50.67	979	55.19	1010	59.42						
32857	1100	<u>890</u>	<u>46.18</u>	922	50.51	953	54.98	986	59.58	1018	64.27	1048	68.82	1078	73.61	1107	78.42
35844	1200	<u>904</u>	<u>49.94</u>	937	54.72	968	59.46	998	64.29	1027	69.20	1056	74.07	1086	79.14	1115	84.24
38831	1300	<u>921</u>	<u>54.25</u>	951	58.93	982	63.93	1012	69.02	1041	74.18	1069	79.39	1096	84.63	1123	90.12
41818	1400	944	59.26	<u>971</u>	<u>63.95</u>	<u>998</u>	<u>68.90</u>	1027	74.14	1056	79.57	1084	85.05	1111	90.56	1137	96.06
44805	1500	967	64.56	994	69.53	1021	74.77	<u>1046</u>	<u>79.82</u>	<u>1071</u>	<u>85.11</u>	1096	90.68	1125	96.44	<u>1152</u>	<u>102.46</u>
47792	1600	991	70.05	1018	75.64	1044	80.95	1069	86.28	1094	91.85	<u>1118</u>	<u>97.42</u>	<u>1141</u>	<u>102.95</u>	1166	108.82
50779	1700	<u>1018</u>	<u>75.89</u>	1043	81.65	1068	87.69	1093	93.32	1117	98.93	1141	104.79	1164	110.60	<u>1186</u>	<u>116.34</u>
53766	1800	1044	81.81	1069	87.67	1094	94.21	1117	100.31	1141	106.63	1164	112.50	1187	118.60	1209	124.82
56753	1900	<u>1071</u>	<u>88.28</u>	1096	94.65	1120	101.04	1143	107.43	1166	114.08	1188	120.89	1210	126.95	1232	133.26
59740	2000	<u>1099</u>	<u>95.35</u>	1123	101.77	<u>1147</u>	<u>108.47</u>	1170	115.17	1192	121.83	1214	128.73	1235	135.67	1256	142.62

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.

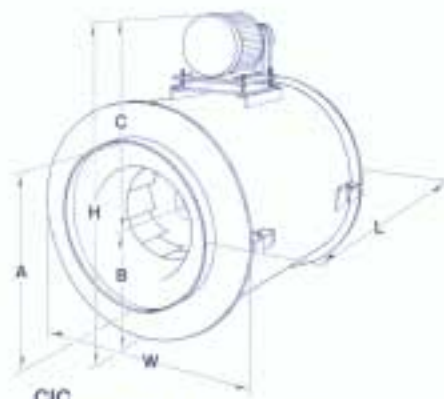
Underlined figures indicate maximum static efficiency.

# 490 CIC CENTRIFUGAL INLINE

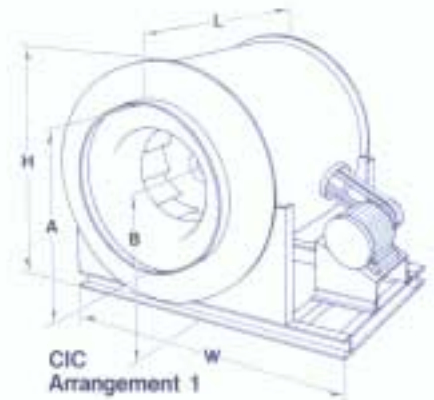
## BELT DRIVE — DIMENSION DATA



CIC Arrangement 9 (STYLE FM)



CIC Arrangement 9 (STYLE CM)



CIC Arrangement 1

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
490	55	41	62	103	82-5/16	82	74-1/8	365T	2160

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
490	55	39-11/16	62	101-11/16	82-5/16	79-3/8	74-1/8	365T	2160

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G WT.
490	55	47	86-11/16	82-5/16	108-9/16	74-1/8	2160

\*May vary with motor frame size.

# 540 CIC CENTRIFUGAL INLINE

## BELT DRIVE — CAPACITIES

OUTLET AREA: 35.78  
 WHEEL DIAMETER: 54

CLASS I  
 CLASS II  
 CLASS III

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
17890	500	308	.98	231	1.42	254	1.91	274	2.41	293	2.91	312	3.45	330	3.99	348	4.57	381	5.76
21468	600	241	1.47	261	1.99	280	2.53	298	3.09	316	3.69	333	4.32	349	4.92	364	5.51	394	8.81
25046	700	274	2.11	292	2.70	309	3.33	325	3.95	341	4.63	357	5.32	372	6.02	386	6.73	413	8.12
28624	800	308	2.95	324	3.61	339	4.29	354	5.01	368	5.72	382	6.49	396	7.25	410	8.05	435	9.63
32202	900	343	4.02	357	4.75	371	5.50	384	6.26	397	7.06	410	7.88	422	8.69	434	9.54	459	11.30
35780	1000	378	5.33	391	6.14	403	6.93	416	7.81	428	8.68	439	9.53	451	10.44	462	11.34	484	13.23
39358	1100	413	6.90	425	7.78	436	8.65	448	9.60	459	10.52	470	11.48	480	12.42	491	13.42	511	15.38
42936	1200	449	8.81	460	9.76	470	10.69	481	11.72	491	12.68	501	13.69	511	14.73	521	15.82	540	17.92
46514	1300	484	10.98	495	12.06	504	13.03	514	14.12	524	15.22	533	16.25	543	17.42	552	18.52	569	20.72
50092	1400	520	13.57	530	14.70	539	15.79	548	16.92	556	17.99	566	19.24	575	20.42	583	21.53	600	23.96
53670	1500	556	16.54	565	17.71	573	18.82	582	20.07	590	21.25	598	22.46	607	23.76	615	24.97	632	27.64
57248	1600	592	19.91	600	21.11	608	22.34	616	23.60	624	24.90	632	26.23	640	27.58	648	28.91	663	31.54
60826	1700	627	23.60	636	25.04	643	26.27	651	27.66	658	28.95	666	30.41	673	31.76	680	33.11	695	35.96
64404	1800	663	27.85	671	29.30	678	30.65	686	32.17	693	33.58	700	35.02	707	36.49	714	37.99	728	40.96
67982	1900	699	32.59	707	34.18	714	35.65	721	37.15	728	38.69	734	40.09	741	41.68	747	43.13	760	46.23
71560	2000	735	37.84	742	39.41	749	41.00	756	42.63	762	44.12	769	45.81	775	47.35	781	48.91	794	52.30

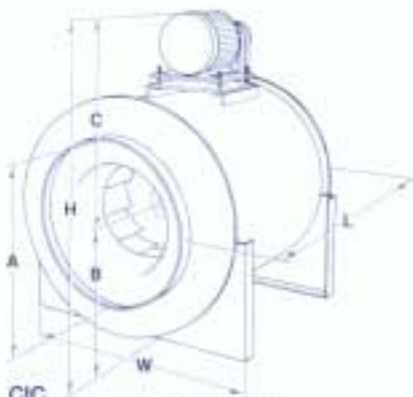
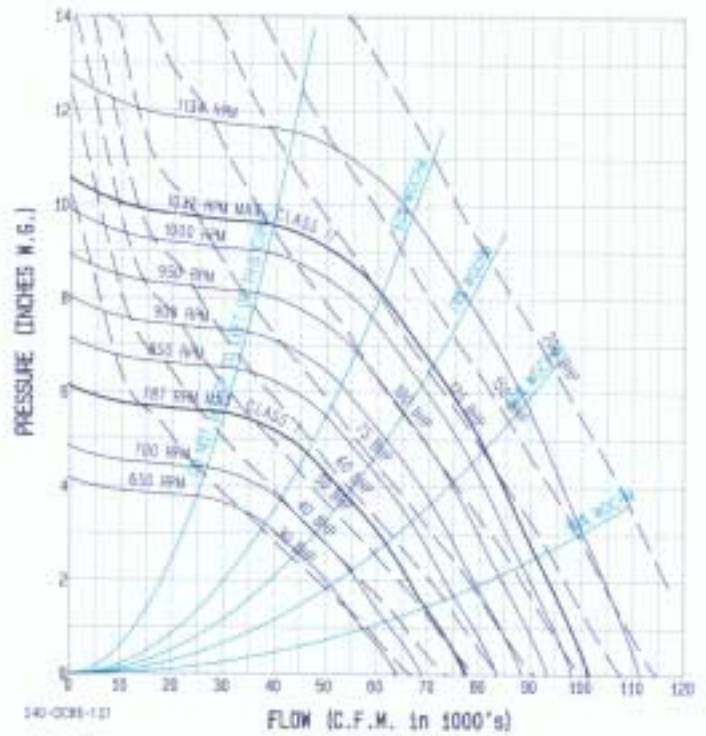
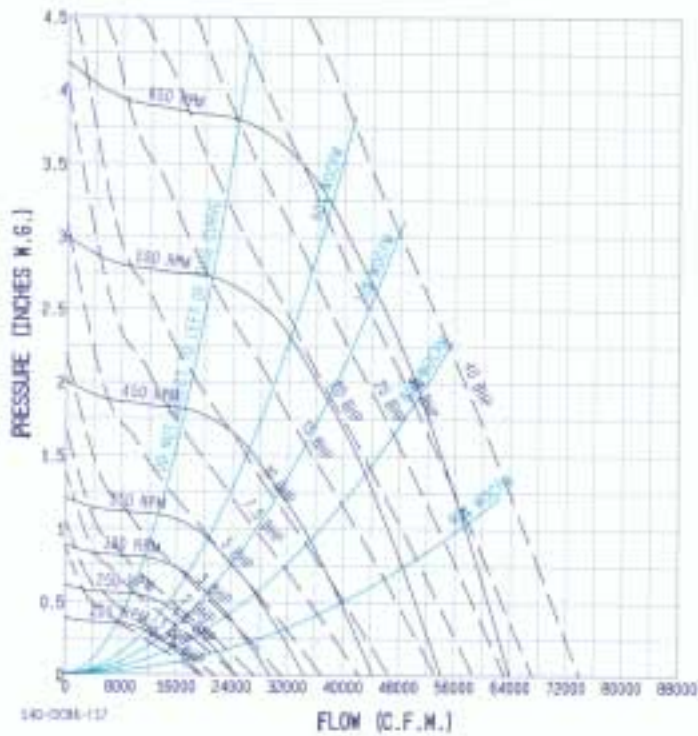
C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
17890	500	413	6.99	444	8.30														
21468	600	424	8.20	452	9.66	479	11.15	530	14.15										
25046	700	<u>439</u>	<u>9.58</u>	<u>465</u>	<u>11.13</u>	491	12.78	538	16.15	584	19.64	627	23.25						
28624	800	460	11.31	483	12.90	<u>505</u>	<u>14.56</u>	551	18.21	593	21.96	634	25.96	674	30.00				
32202	900	483	13.18	504	14.98	526	16.83	<u>566</u>	<u>20.52</u>	<u>606</u>	<u>24.47</u>	646	28.81	682	33.09	718	37.54	754	42.16
35780	1000	507	15.22	526	17.21	548	19.25	586	23.24	623	27.44	<u>659</u>	<u>31.80</u>	695	36.39	729	41.10	762	46.05
39358	1100	531	17.48	552	19.65	572	21.87	608	26.29	643	30.73	677	35.33	<u>708</u>	<u>39.85</u>	742	44.68	775	50.15
42936	1200	559	20.15	577	22.42	596	24.72	632	29.51	665	34.40	697	39.22	728	44.11	<u>757</u>	<u>49.03</u>	<u>788</u>	<u>54.65</u>
46514	1300	588	23.17	605	25.54	621	27.91	656	32.98	689	38.24	719	43.48	749	48.79	778	54.05	806	59.49
50092	1400	617	26.49	633	28.92	649	31.49	681	36.87	713	42.35	743	47.95	771	53.61	<u>799</u>	<u>58.40</u>	826	64.96
53670	1500	647	30.17	662	32.75	678	35.53	707	40.96	737	46.74	767	52.72	<u>795</u>	<u>58.74</u>	821	64.73	847	70.99
57248	1600	678	34.29	693	37.17	707	39.91	736	45.77	763	51.72	<u>791</u>	<u>57.79</u>	819	64.19	845	70.53	870	77.02
60826	1700	710	38.94	724	41.88	737	44.76	765	50.93	<u>791</u>	<u>57.08</u>	816	63.42	843	69.96	869	76.68	894	83.52
64404	1800	742	44.01	755	46.99	768	50.08	<u>794</u>	<u>56.48</u>	820	63.04	844	69.56	868	76.33	894	83.44	918	90.39
67982	1900	774	49.51	787	52.72	<u>800</u>	<u>56.04</u>	824	62.56	849	69.42	872	76.08	895	83.11	918	90.30	943	97.93
71560	2000	<u>806</u>	<u>55.46</u>	<u>819</u>	<u>58.90</u>	831	62.23	855	69.19	878	76.21	901	83.28	924	90.73	945	97.96	967	105.55

C.F.M.	VEL	5-1/2 SP		6 SP		6-1/2 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
32202	900	787	46.64	<u>820</u>	<u>51.47</u>												
35780	1000	794	50.92	<u>826</u>	<u>55.88</u>	857	60.99	887	68.30	916	71.49						
39358	1100	<u>805</u>	<u>55.24</u>	<u>835</u>	<u>60.69</u>	864	66.06	894	71.61	923	77.24	<u>950</u>	<u>82.67</u>	<u>977</u>	<u>88.37</u>	<u>1003</u>	<u>94.08</u>
42936	1200	818	59.84	848	65.60	876	71.27	903	77.03	930	83.12	957	88.89	984	94.83	1010	100.96
46514	1300	<u>832</u>	<u>64.83</u>	<u>861</u>	<u>70.73</u>	889	76.71	916	82.78	942	88.90	968	95.35	992	101.51	1017	108.01
50092	1400	<u>852</u>	<u>70.63</u>	<u>877</u>	<u>75.39</u>	<u>902</u>	<u>82.38</u>	929	88.75	956	95.48	981	101.95	1005	108.41	1029	115.16
53670	1500	873	77.02	<u>898</u>	<u>83.12</u>	922	89.26	<u>945</u>	<u>95.42</u>	969	102.02	994	108.80	1018	115.56	<u>1042</u>	<u>122.83</u>
57248	1600	895	83.88	919	90.21	943	96.71	<u>966</u>	<u>103.21</u>	<u>988</u>	<u>109.68</u>	<u>1010</u>	<u>116.44</u>	1032	123.30	<u>1055</u>	<u>130.36</u>
60826	1700	918	90.47	941	97.48	964	104.54	987	111.40	1009	118.22	1030	124.96	<u>1051</u>	<u>131.98</u>	<u>1072</u>	<u>138.27</u>
64404	1800	942	97.70	965	105.08	987	112.47	1008	119.84	<u>1030</u>	<u>127.16</u>	<u>1051</u>	<u>134.25</u>	1072	141.62	1092	148.86
67982	1900	<u>966</u>	<u>105.31</u>	<u>988</u>	<u>112.72</u>	<u>1010</u>	<u>120.46</u>	<u>1031</u>	<u>128.17</u>	<u>1052</u>	<u>136.21</u>	<u>1072</u>	<u>143.97</u>	<u>1093</u>	<u>151.70</u>	<u>1113</u>	<u>158.29</u>
71560	2000	<u>990</u>	<u>113.31</u>	<u>1013</u>	<u>121.44</u>	<u>1034</u>	<u>129.19</u>	<u>1055</u>	<u>137.27</u>	<u>1075</u>	<u>145.27</u>	<u>1095</u>	<u>153.57</u>	1114	161.75	1134	170.17

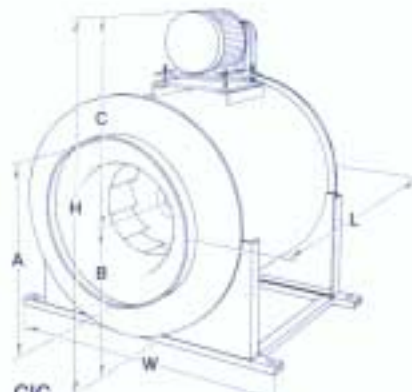
Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Underlined figures indicate maximum static efficiency.

# 540 CIC CENTRIFUGAL INLINE

## BELT DRIVE — DIMENSION DATA



CIC Arrangement 9 (STYLE FM)



CIC Arrangement 9 (STYLE CM)



CIC Arrangement 1

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
540	60	44-1/2	65-1/2	110	88-13/16	89	81-1/8	365T	2562

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
540	60	46-1/2	65-1/2	112	88-13/16	88-3/8	81-1/8	365T	2562

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G WT.
540	60	50-1/2	93-11/16	88-13/16	115-9/16	81-1/8	2562

\*May vary with motor frame size.

# 600 CIC CENTRIFUGAL INLINE

## BELT DRIVE — CAPACITIES

OUTLET AREA: 43.69  
WHEEL DIAMETER: 60

CLASS I
CLASS II
CLASS III

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
21845	500	188	1.18	207	1.73	227	2.31	246	2.95	263	3.55	279	4.16	296	4.85	312	5.55	342	7.02
26214	600	215	1.78	233	2.40	250	3.06	267	3.76	283	4.49	298	5.24	313	6.00	327	6.75	<u>354</u>	<u>8.33</u>
30583	700	244	2.53	261	3.29	276	4.02	290	4.77	305	5.61	319	6.42	333	7.31	346	8.21	371	9.95
34952	800	275	3.56	289	4.35	303	5.19	316	6.04	329	6.94	341	7.83	354	8.77	367	9.78	390	11.75
39321	900	306	4.84	318	5.69	331	6.63	343	7.57	355	8.56	367	9.59	378	10.60	389	11.64	411	13.74
43690	1000	337	6.46	349	7.40	360	8.36	371	9.40	382	10.47	392	11.50	403	12.64	413	13.74	433	16.05
48059	1100	368	8.27	379	9.36	389	10.43	400	11.59	410	12.72	420	13.91	429	15.04	439	16.27	457	18.67
52428	1200	400	10.56	410	11.72	419	12.85	429	14.11	438	15.28	448	16.61	456	17.76	465	19.09	483	21.75
56797	1300	431	13.14	441	14.46	450	15.73	459	16.95	467	18.28	476	19.64	484	20.93	493	22.39	509	25.16
61166	1400	463	16.23	472	17.80	480	18.91	488	20.27	496	21.67	505	23.18	513	24.80	521	26.07	536	28.99
65535	1500	495	19.77	503	21.18	511	22.64	519	24.14	526	25.55	534	27.12	542	28.69	549	30.14	564	33.33
69904	1600	527	23.79	535	25.36	542	26.83	549	28.34	557	30.04	563	31.46	571	33.22	576	34.81	592	38.10
74273	1700	559	28.33	566	29.91	573	31.52	580	33.17	587	34.86	594	36.60	600	38.19	607	39.95	620	43.31
78642	1800	591	33.42	596	35.15	604	36.73	611	38.54	618	40.39	624	42.08	630	43.80	636	45.56	649	49.23
83011	1900	623	39.09	629	40.78	636	42.71	642	44.47	648	46.26	654	48.09	660	49.95	666	51.85	678	55.67
87380	2000	655	45.36	661	47.20	667	49.08	673	50.98	679	52.93	685	54.90	691	56.92	697	58.97	708	62.91

C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
21845	500	372	8.59	399	10.14														
26214	600	381	10.04	406	11.81			477	17.37										
30583	700	<u>394</u>	<u>11.70</u>	<u>418</u>	<u>13.63</u>	441	15.62	483	19.71	525	24.00	564	28.48						
34952	800	412	13.74	433	15.71	<u>453</u>	<u>17.75</u>	495	22.27	533	26.90	570	31.75	606	36.70				
39321	900	432	15.97	452	18.28	471	20.42	<u>508</u>	<u>25.07</u>	545	30.02	580	35.17	613	40.54	646	46.00	678	51.58
43690	1000	454	18.51	473	20.95	491	23.45	526	28.41	<u>558</u>	<u>33.31</u>	<u>592</u>	<u>38.89</u>	624	44.42	655	50.29	684	56.19
48059	1100	475	21.19	494	23.85	512	26.57	545	32.07	577	37.52	607	43.04	<u>636</u>	<u>48.72</u>	667	54.98	696	61.27
52428	1200	500	24.46	516	27.16	533	29.95	566	35.90	596	41.96	625	47.78	653	53.79	<u>679</u>	<u>59.79</u>	707	66.32
56797	1300	525	27.98	541	30.98	555	33.79	587	40.02	617	46.51	644	52.92	672	59.55	698	65.97	<u>722</u>	<u>72.26</u>
61166	1400	551	31.99	566	35.07	580	38.13	609	44.66	638	51.39	665	58.23	691	65.37	716	72.24	741	79.26
65535	1500	578	36.51	592	39.73	606	43.03	633	49.89	660	56.85	687	64.16	<u>712</u>	<u>71.47</u>	736	78.98	759	86.33
69904	1600	605	41.34	618	44.74	632	48.35	658	55.48	682	62.66	<u>708</u>	<u>70.19</u>	733	77.94	757	85.89	780	94.00
74273	1700	633	46.83	646	50.49	658	54.07	683	61.48	<u>707</u>	<u>69.15</u>	730	76.90	755	85.12	778	93.19	801	101.75
78642	1800	662	53.03	674	56.73	686	60.58	<u>709</u>	<u>68.21</u>	733	76.39	755	84.47	777	92.74	800	101.27	822	109.91
83011	1900	690	59.51	702	63.48	714	67.60	736	75.67	758	83.80	780	92.37	801	101.07	822	109.81	844	118.91
87380	2000	<u>719</u>	<u>66.79</u>	<u>731</u>	<u>71.06</u>	742	75.17	763	83.45	784	92.03	805	101.13	826	109.95	845	118.80	866	128.40

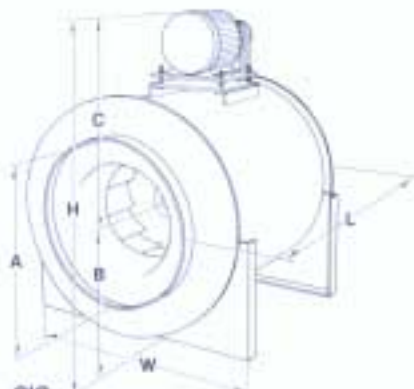
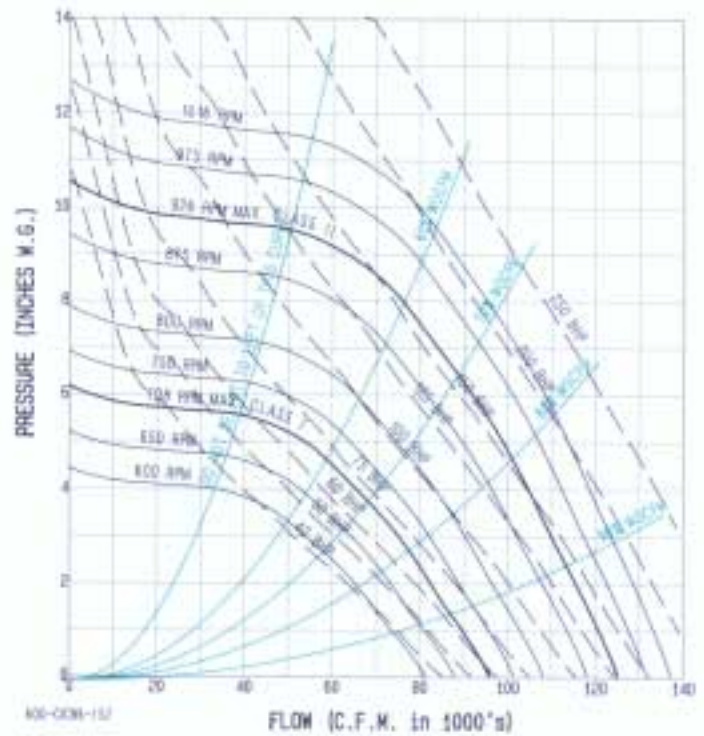
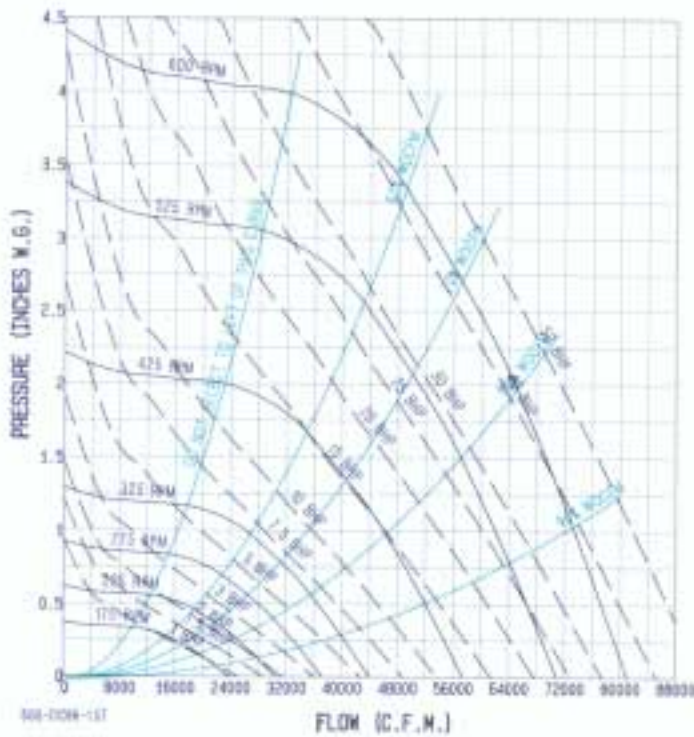
C.F.M.	VEL	5-1/2 SP		6 SP		6-1/2 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
39321	900	708	57.15	737	62.89												
43690	1000	714	62.30	743	68.44	771	74.73	796	81.12	824	87.59						
48059	1100	724	67.79	750	74.19	777	80.84	804	87.65	830	94.52	855	101.42	879	108.31	902	115.16
52480	1200	735	73.21	762	80.29	787	87.18	812	94.48	836	101.61	861	108.92	885	116.21	909	123.86
56797	1300	<u>747</u>	<u>79.18</u>	773	86.32	799	93.93	823	101.27	847	109.01	869	116.36	892	124.49	915	132.36
61166	1400	764	86.07	<u>787</u>	<u>93.28</u>	810	100.59	835	108.69	858	116.42	881	124.55	903	132.64	925	141.11
65535	1500	783	93.90	805	101.18	<u>827</u>	<u>108.85</u>	<u>848</u>	<u>116.51</u>	870	124.52	893	133.06	915	141.54	936	149.92
69904	1600	802	102.18	824	109.89	845	117.59	866	125.66	<u>886</u>	<u>133.67</u>	<u>906</u>	<u>142.07</u>	926	150.26	948	159.52
74273	1700	822	110.01	843	118.70	864	127.19	884	135.25	904	143.67	924	152.46	<u>943</u>	<u>161.10</u>	<u>961</u>	<u>169.56</u>
78642	1800	843	118.60	864	127.73	884	136.86	903	145.77	923	154.63	942	163.36	961	172.41	979	181.27
83011	1900	865	128.07	885	137.21	905	146.77	924	156.26	942	165.63	961	175.27	980	184.78	998	194.07
87380	2000	886	137.56	907	147.63	926	157.16	945	167.09	963	176.67	981	187.03	998	196.97	1016	206.61

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Underlined figures indicate maximum static efficiency.

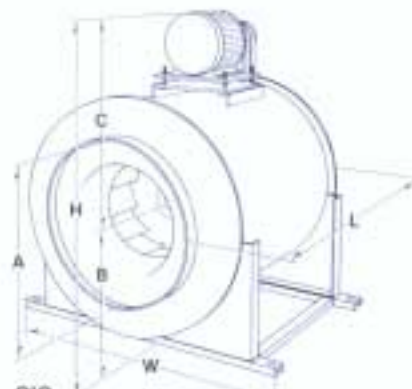


# 600 CIC CENTRIFUGAL INLINE

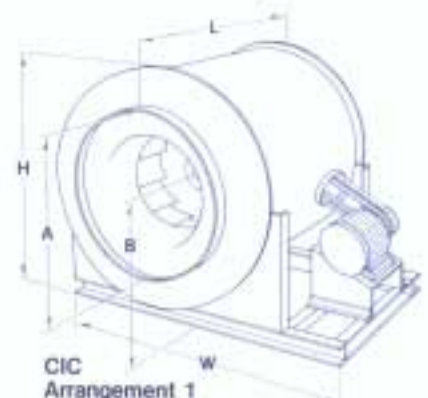
## BELT DRIVE — DIMENSION DATA



CIC Arrangement 9 (STYLE FM)



CIC Arrangement 9 (STYLE CM)



CIC Arrangement 1

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
600	66	49	70	119	100-1/16	96	89-5/8	365T	3544

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
600	66	51	70	121	100-1/16	94-7/8	89-5/8	365T	3544

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G WT.
600	66	55	102-7/16	100-1/16	124-9/16	89-5/8	3544

\*May vary with motor frame size.

# 660 CIC CENTRIFUGAL INLINE

## BELT DRIVE — CAPACITIES

OUTLET AREA: 52.38  
WHEEL DIAMETER: 66

CLASS I

CLASS II

CLASS III

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
26190	500	168	1.41	187	2.06	206	2.79	222	3.49	239	4.28	253	4.99	<u>269</u>	<u>5.85</u>	<u>284</u>	<u>6.72</u>	311	8.48
31428	600	194	2.10	210	2.84	226	3.64	242	4.51	256	5.35	270	6.28	284	7.21	296	8.05	<u>321</u>	<u>9.96</u>
36666	700	220	2.99	235	3.86	249	4.76	263	5.73	276	6.70	289	7.69	301	8.70	313	9.79	336	11.88
41904	800	246	4.21	261	5.17	274	6.20	286	7.23	298	8.31	309	9.39	321	10.54	332	11.66	353	14.03
47142	900	276	5.73	287	6.75	299	7.88	310	9.02	321	10.21	331	11.34	341	12.55	352	13.89	372	16.41
52380	1000	304	7.57	314	8.69	325	9.95	335	11.16	345	12.45	355	13.78	364	15.02	374	16.46	392	19.18
57618	1100	332	9.79	342	11.08	351	12.36	361	13.74	370	15.08	379	16.49	388	17.94	397	19.41	413	22.22
62856	1200	360	12.40	369	13.77	378	15.22	387	16.70	396	18.21	404	19.84	412	21.14	420	22.69	436	25.80
68094	1300	389	15.57	397	17.00	405	18.50	413	20.05	422	21.76	430	23.36	437	24.85	445	26.57	460	29.95
73332	1400	417	19.11	425	20.71	433	22.39	440	23.96	448	25.75	455	27.34	463	29.17	470	30.87	484	34.43
78570	1500	446	23.30	454	25.10	461	26.80	468	28.54	475	30.35	482	32.17	489	33.98	496	35.85	509	39.52
83808	1600	475	28.07	482	29.89	489	31.76	495	33.49	502	35.47	508	37.28	515	39.31	522	41.35	534	45.10
89046	1700	504	33.46	510	35.26	517	37.32	523	39.21	529	41.15	535	43.13	541	45.15	548	47.40	560	51.48
94284	1800	532	39.27	539	41.47	545	43.50	551	45.56	557	47.68	563	49.84	568	51.77	574	54.02	586	58.45
99522	1900	561	45.98	567	48.13	573	50.33	579	52.58	585	54.88	590	56.93	596	59.32	601	61.45	612	66.03
104760	2000	590	53.41	596	55.75	601	57.86	607	60.29	612	62.47	618	65.00	623	67.28	628	69.56	638	74.26

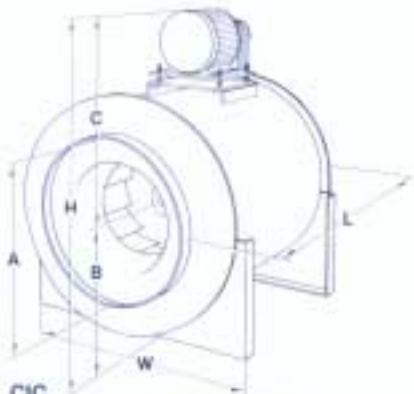
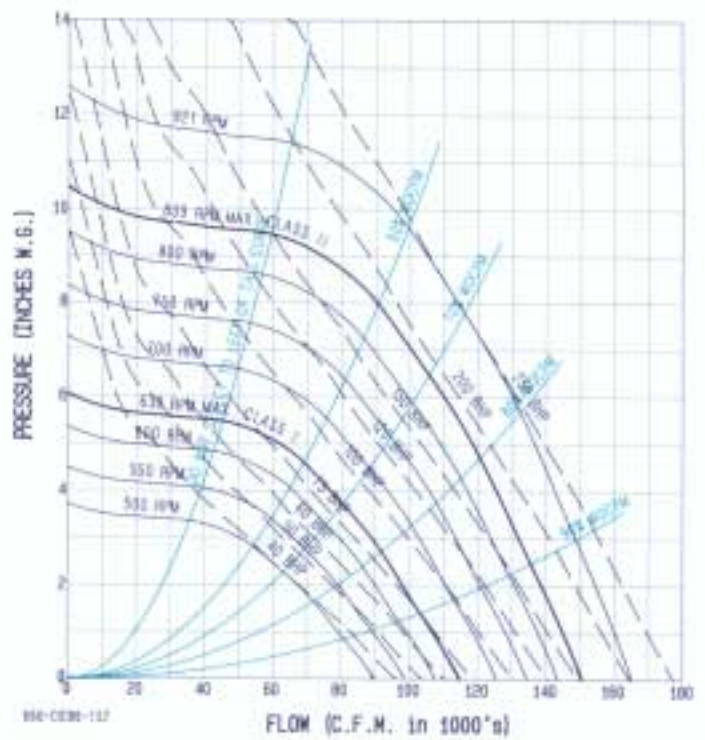
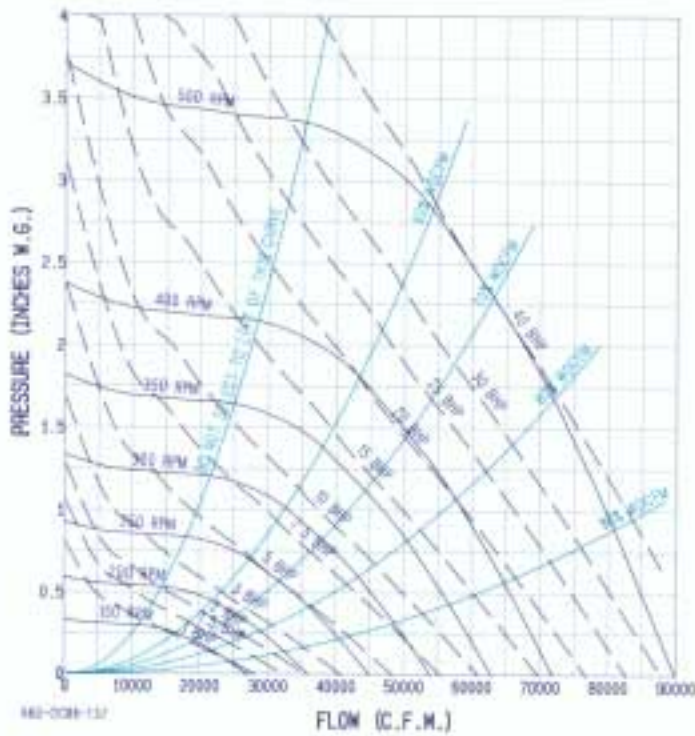
C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
26190	500	338	10.32	363	12.23														
31428	600	346	12.06	369	14.23	391	16.34	433	20.81										
36666	700	<u>357</u>	<u>14.00</u>	<u>379</u>	<u>16.31</u>	400	18.71	439	23.71	477	28.84	512	34.13						
41904	800	373	16.39	393	18.88	<u>411</u>	<u>21.32</u>	449	26.68	484	32.33	518	38.17	550	43.95				
47142	900	391	19.07	409	21.76	427	24.46	<u>460</u>	<u>29.92</u>	494	36.88	526	42.11	556	48.55	587	55.29	616	61.97
52380	1000	411	22.12	428	25.00	444	27.93	477	34.05	<u>506</u>	<u>39.94</u>	537	46.57	567	53.49	595	60.50	621	67.50
57618	1100	430	25.32	447	28.46	463	31.64	494	38.47	523	44.92	<u>550</u>	<u>51.47</u>	<u>577</u>	<u>58.39</u>	605	65.86	632	73.64
62856	1200	452	29.15	467	32.43	483	35.90	512	42.80	540	50.25	567	57.35	592	64.44	<u>616</u>	<u>71.77</u>	642	79.70
68094	1300	475	33.42	489	36.89	503	40.51	532	47.98	558	55.41	584	63.56	608	70.90	632	78.72	<u>655</u>	<u>86.74</u>
73332	1400	498	38.09	512	41.87	525	45.60	551	53.27	578	61.54	602	69.58	626	78.29	649	86.49	671	94.61
78570	1500	522	43.39	535	47.29	548	51.32	572	59.37	597	67.77	622	76.70	<u>645</u>	<u>85.58</u>	<u>666</u>	<u>94.26</u>	<u>688</u>	<u>103.36</u>
83808	1600	547	49.30	559	53.42	571	57.51	595	66.16	617	74.77	<u>641</u>	<u>83.90</u>	<u>664</u>	<u>93.31</u>	<u>685</u>	<u>102.50</u>	706	112.27
89046	1700	572	55.74	583	59.88	595	64.50	618	73.46	<u>639</u>	<u>82.34</u>	661	91.95	<u>683</u>	<u>101.50</u>	705	111.68	725	121.52
94284	1800	597	62.73	609	67.52	619	71.80	<u>641</u>	<u>81.28</u>	<u>662</u>	<u>90.75</u>	682	100.42	703	110.63	724	120.90	744	131.26
99522	1900	623	70.65	634	75.44	<u>644</u>	<u>80.03</u>	<u>665</u>	<u>90.06</u>	<u>685</u>	<u>99.73</u>	705	110.00	724	120.37	744	131.14	764	142.06
104760	2000	<u>649</u>	<u>79.22</u>	<u>660</u>	<u>84.36</u>	670	89.28	<u>689</u>	<u>99.14</u>	709	109.77	728	120.18	747	131.16	764	141.62	783	152.86

C.F.M.	VEL	5-1/2 SP		6 SP		6-1/2 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
47142	900	643	68.58	670	75.71												
52380	1000	<u>649</u>	<u>74.94</u>	675	82.21	700	89.60	725	97.47	748	104.98						
57618	1100	657	81.31	681	89.15	706	97.14	730	105.09	754	113.51	776	121.47	798	129.84	820	138.62
62856	1200	667	87.82	691	96.10	714	104.49	737	113.40	759	121.80	782	130.72	804	139.58	825	148.34
68094	1300	<u>679</u>	<u>95.02</u>	702	103.77	725	112.63	747	121.54	768	130.44	789	139.80	809	149.02	831	158.82
73332	1400	693	103.26	<u>713</u>	<u>111.51</u>	735	120.63	757	129.98	779	139.85	800	149.69	820	159.43	839	169.02
78570	1500	709	112.08	730	121.30	<u>749</u>	<u>130.00</u>	<u>769</u>	<u>139.69</u>	789	149.07	810	159.37	830	169.56	<u>850</u>	<u>180.21</u>
83808	1600	726	121.85	746	131.09	766	140.82	785	150.47	<u>803</u>	<u>159.99</u>	<u>821</u>	<u>169.91</u>	841	180.66	860	191.14
89046	1700	745	131.91	764	142.32	783	152.19	802	162.36	820	172.38	837	182.17	<u>854</u>	<u>192.36</u>	<u>871</u>	<u>202.95</u>
94284	1800	764	142.19	782	152.54	800	163.37	818	174.20	<u>836</u>	<u>184.71</u>	<u>854</u>	<u>195.67</u>	871	206.37	888	217.47
99522	1900	783	152.99	801	163.85	819	175.21	<u>837</u>	<u>187.08</u>	<u>853</u>	<u>198.07</u>	871	209.79	888	221.00	904	231.87
104760	2000	<u>802</u>	<u>164.33</u>	<u>821</u>	<u>176.35</u>	<u>838</u>	<u>187.60</u>	<u>856</u>	<u>200.02</u>	872	211.51	888	223.43	905	236.29	921	247.66

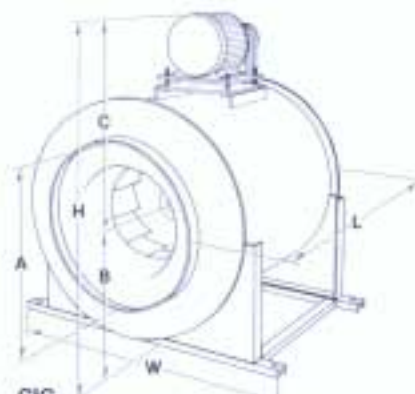
Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Underlined figures indicate maximum static efficiency.

# 660 CIC CENTRIFUGAL INLINE

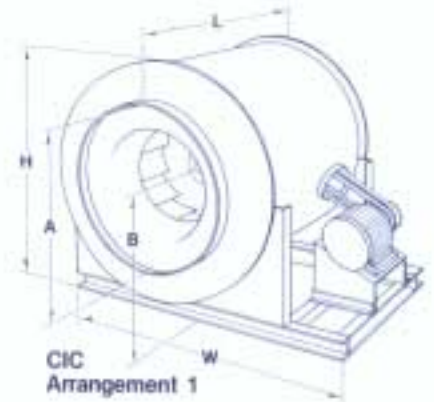
## BELT DRIVE — DIMENSION DATA



CIC Arrangement 9 (STYLE FM)



CIC Arrangement 9 (STYLE CM)



CIC Arrangement 1

### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
660	72	53-1/2	74-1/2	128	107-1/16	107	98-1/4	365T	4547

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
660	72	55-1/2	74-1/2	130	107-1/16	103-9/16	98-1/4	365T	4547

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G WT.
660	72	59-1/2	111-1/8	107-1/16	130-9/16	98-1/4	4547

\*May vary with motor frame size.

# 730 CIC CENTRIFUGAL INLINE

## BELT DRIVE — CAPACITIES

OUTLET AREA: 63.62  
WHEEL DIAMETER: 73

CLASS I

CLASS II

CLASS III

C.F.M.	VEL	1/8 SP		1/4 SP		3/8 SP		1/2 SP		5/8 SP		3/4 SP		7/8 SP		1 SP		1-1/4 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
31810	500	151	1.69	188	2.47	185	3.34	201	4.29	215	5.15	229	6.12	<u>243</u>	7.12	<u>256</u>	8.13	281	10.31
38172	600	174	2.52	189	3.43	204	4.44	218	5.46	231	6.51	244	7.67	256	8.73	267	9.77	<u>290</u>	12.13
44534	700	196	3.62	212	4.70	224	5.74	236	6.86	249	8.14	261	9.38	272	10.62	282	11.85	303	14.40
50896	800	223	5.07	235	6.25	246	7.43	257	8.69	268	10.02	278	11.32	289	12.73	299	14.10	318	16.98
57258	900	246	6.68	258	8.13	269	9.51	279	10.90	289	12.34	298	13.72	307	15.18	317	16.79	336	20.01
63620	1000	273	9.09	282	10.44	292	11.96	301	13.42	310	14.97	319	16.57	328	18.21	336	19.78	353	23.19
69982	1100	296	11.72	307	13.29	316	14.94	324	16.46	333	18.22	341	19.91	349	21.64	357	23.39	372	26.91
76344	1200	324	14.97	332	16.62	340	18.35	348	20.12	356	21.93	363	23.62	371	25.59	378	27.41	393	31.31
82706	1300	349	18.62	357	20.48	364	22.25	372	24.28	379	26.12	386	28.00	393	29.96	400	31.99	414	36.18
89068	1400	375	23.01	382	24.92	389	26.89	396	28.96	402	30.83	409	32.91	416	35.07	423	37.31	435	41.44
95430	1500	401	28.04	407	29.95	414	32.15	420	34.19	427	36.53	433	38.64	439	40.75	446	43.20	458	47.73
101792	1600	426	33.53	433	35.89	439	38.07	445	40.31	451	42.62	457	44.98	463	47.33	469	49.70	481	54.64
108154	1700	452	39.96	458	42.29	464	44.69	470	47.15	476	49.67	481	51.94	487	54.59	492	56.85	504	62.20
114516	1800	478	47.17	484	49.73	489	52.04	495	54.73	500	57.14	506	59.95	511	62.47	516	65.04	527	70.45
120878	1900	504	55.20	509	57.66	515	60.52	520	63.09	525	65.71	530	68.38	535	71.10	540	73.87	550	79.42
127240	2000	530	64.10	535	66.78	540	69.51	545	72.29	550	75.12	555	78.01	560	80.95	564	83.50	574	89.61

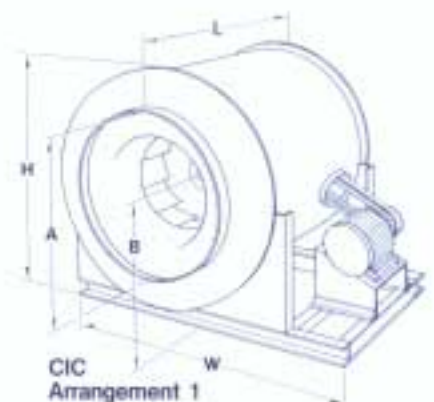
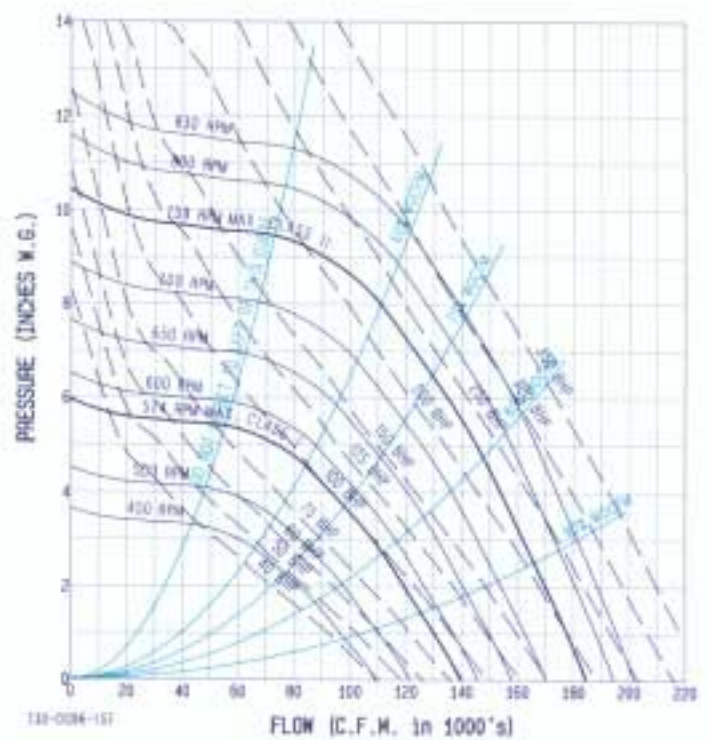
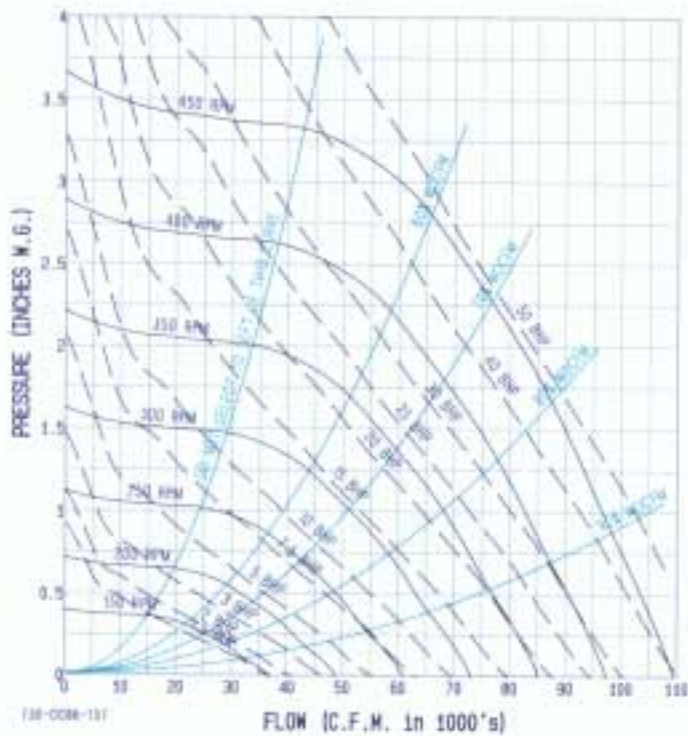
C.F.M.	VEL	1-1/2 SP		1-3/4 SP		2 SP		2-1/2 SP		3 SP		3-1/2 SP		4 SP		4-1/2 SP		5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
31810	500	305	12.50	328	14.88														
38172	600	312	14.61	333	17.27	354	19.99	392	25.48										
44534	700	<u>322</u>	<u>16.98</u>	<u>342</u>	<u>19.79</u>	361	22.71	397	28.91	431	35.07	463	41.61						
50896	800	337	19.98	354	22.81	<u>371</u>	<u>25.90</u>	405	32.32	437	38.29	468	46.40	497	53.46				
57258	900	353	23.23	369	26.43	385	29.64	<u>415</u>	<u>36.32</u>	446	43.59	475	51.20	502	59.00	530	67.08	556	75.12
63620	1000	370	28.72	386	30.36	401	34.06	430	41.24	<u>457</u>	<u>48.53</u>	485	56.85	512	65.03	537	73.44	561	82.05
69982	1100	386	30.79	403	34.52	418	38.55	445	46.55	471	54.24	<u>496</u>	<u>62.40</u>	<u>521</u>	<u>70.97</u>	546	79.92	570	89.19
76344	1200	407	35.27	421	39.33	435	43.41	462	52.06	487	60.98	511	69.40	534	78.16	<u>556</u>	<u>87.17</u>	580	97.02
82706	1300	427	40.23	440	44.54	453	48.99	479	57.98	503	67.19	526	76.88	549	86.29	570	95.47	<u>591</u>	<u>105.30</u>
89068	1400	446	45.96	461	50.65	472	54.92	497	64.72	521	74.62	543	84.53	564	94.78	585	104.71	606	115.20
95430	1500	469	52.17	481	56.94	493	61.92	515	71.82	538	82.11	560	92.66	<u>581</u>	<u>103.54</u>	601	114.87	621	125.65
101792	1600	492	59.47	503	64.52	514	69.51	535	79.70	556	90.58	<u>578</u>	<u>101.83</u>	<u>598</u>	<u>112.84</u>	618	124.81	636	135.88
108154	1700	514	67.04	525	72.48	535	77.71	556	88.64	<u>576</u>	<u>99.94</u>	<u>595</u>	<u>111.03</u>	616	123.27	635	135.10	653	148.99
114516	1800	537	75.67	547	81.09	557	86.72	<u>577</u>	<u>98.24</u>	<u>596</u>	<u>109.75</u>	614	121.43	633	133.70	652	146.18	671	159.40
120878	1900	560	85.04	570	90.86	<u>580</u>	<u>96.90</u>	<u>598</u>	<u>108.52</u>	617	120.78	635	133.20	652	145.70	670	158.55	688	171.75
127240	2000	<u>584</u>	<u>95.66</u>	<u>593</u>	<u>101.41</u>	<u>602</u>	<u>107.34</u>	<u>620</u>	<u>119.75</u>	<u>638</u>	<u>132.54</u>	655	145.05	672	158.24	688	171.39	706	185.50

C.F.M.	VEL	5-1/2 SP		6 SP		6-1/2 SP		7 SP		7-1/2 SP		8 SP		8-1/2 SP		9 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
57258	900	581	83.41	605	91.90												
63620	1000	586	90.94	610	100.02	633	109.22	655	118.49	676	127.75						
69982	1100	593	98.71	615	108.37	638	118.17	660	128.03	681	137.87	702	148.26	722	158.54	741	168.65
76344	1200	602	106.60	624	116.84	645	127.19	665	137.55	686	148.24	707	158.24	727	170.12	746	180.80
82706	1300	<u>612</u>	<u>115.37</u>	634	126.21	654	136.50	675	146.06	694	156.92	713	170.34	731	181.22	751	193.23
89068	1400	625	125.22	<u>644</u>	<u>135.83</u>	664	146.83	684	156.31	703	169.70	722	181.67	740	193.46	756	205.79
95430	1500	640	136.27	658	146.84	<u>676</u>	<u>157.99</u>	<u>693</u>	<u>168.93</u>	713	181.62	731	193.39	750	206.55	767	218.61
101792	1600	655	147.92	673	159.11	691	170.88	708	182.48	<u>725</u>	<u>194.63</u>	741	206.34	759	219.25	777	232.74
108154	1700	671	159.55	688	172.00	706	184.41	723	196.64	739	208.57	756	221.02	<u>771</u>	<u>233.99</u>	<u>786</u>	<u>246.47</u>
114516	1800	688	171.80	705	185.03	721	197.99	738	211.47	754	224.02	770	237.09	786	250.69	801	263.84
120878	1900	705	184.87	722	198.65	738	212.22	754	226.40	769	240.18	785	253.67	800	267.12	815	280.87
127240	2000	723	199.31	739	212.92	<u>755</u>	<u>227.13</u>	771	241.96	786	256.43	801	271.47	816	286.32	830	299.64

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Underlined figures indicate maximum static efficiency.

# 730 CIC CENTRIFUGAL INLINE

## BELT DRIVE — DIMENSION DATA



### CIC DIMENSION DATA (Arrangement 9) STYLE FM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
730	79	58-1/2	79-1/2	138	113-1/16	117	108-1/4	365T	6279

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 9) STYLE CM

UNIT SIZE	A O.D.	B	C* MAX.	H* MAX.	L	W	DISCHARGE I.D.	MAX. MTR. FRAME	APPROX. SHIP'G WT.
730	79	60-1/2	79-1/2	140	113-1/16	113-9/16	108-1/4	365T	6279

\*May vary with motor frame size.

### CIC DIMENSION DATA (Arrangement 1)

UNIT SIZE	A O.D.	B	H	L	W* MAX.	DISCHARGE I.D.	APPROX. SHIP'G WT.
730	79	64-1/2	121-1/4	113-1/16	143-9/16	108-1/4	6279

\*May vary with motor frame size.

# UCIC CENTRIFUGAL UP-BLAST

## BELT DRIVE

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### TYPE UCIC UP-BLAST

The Type UCIC Up-Blast roof ventilator is designed for use on high pressure duct systems where exhausting is required through the roof. It eliminates unsightly goosenecks and provides a vertical discharge ejecting the exhausted air into the atmosphere. The UCIC is compact in design and versatile in usage and performance. It extends the range of the UCIC Blower into many areas in both new and modification of existing buildings.



### TYPE VCG ROOF CURB

The type VCG prefabricated curb is constructed of spot-welded galvanized steel. The inside of the curb is insulated with a special fiberglass board which provides thermal insulation and prevents condensation. A sponge rubber mounting pad provides a positive weather seal and dampens mechanical vibrations.



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### FEATURES

Type UCIC features all steel housing with a steel airfoil wheel. The belt drive assembly is completely weatherproof and has a removable motor cover for inspection. **LUBRICATION** The UCIC is equipped with extended lubricating tubes for external lubrication of the fan bearing. **NON-OVERLOADING CENTRIFUGAL WHEEL** The specially designed impeller with its airfoil centrifugal blades has a non-overloading horsepower characteristic. **EASILY INSTALLED** The UCIC mounts over a standard roof curb. A Cook VCG prefabricated curb can be used. **NO BACKDRAFT DAMPERS REQUIRED** Built-in butterfly dampers prevent backdraft when unit is not in operation.

### SPECIFICATIONS

Furnish and install Cook UCIC Tubular Centrifugal Up-Blast roof ventilator of the size and capacity shown on the fan schedule.

Each unit shall employ the standard CIC belt drive system.

Construction shall have a centrifugal steel airfoil wheel, welded with non-overloading characteristics.

Straightening vanes will be an integral part of the unit at the discharge to eliminate turbulence, having a straight airflow for maximum exhaust.

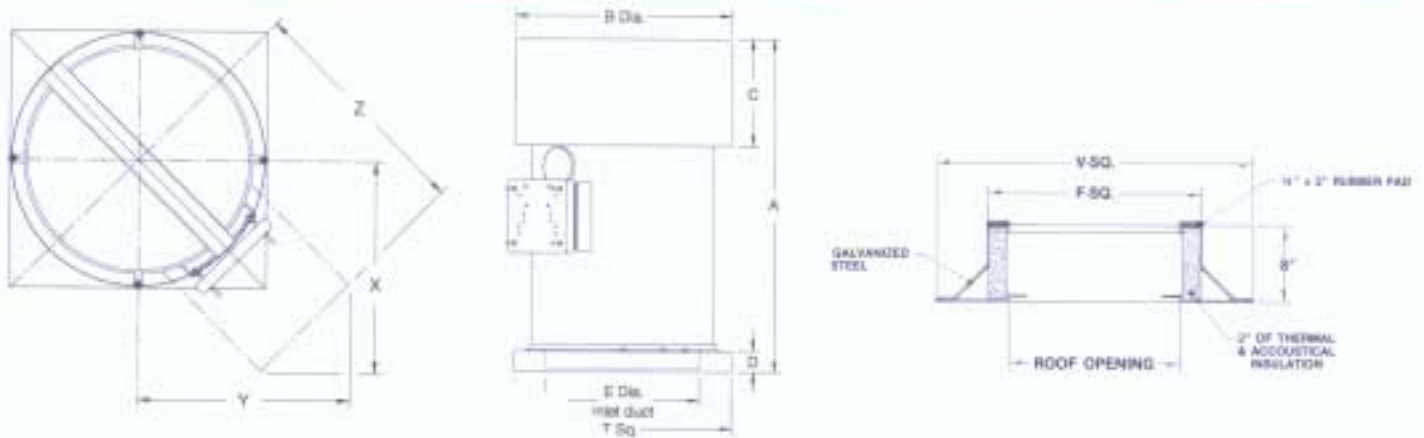
Dampers shall open automatically when the fan is energized and closed by means of gravity.

Belt drive units will have the motor externally mounted with adjustable motor sheaves thru 5 HP and base, lubricating tubes shall be provided from the shaft bearing to the UCIC housing for lubrication.

Weatherproof motor cover shall be standard on all belt drive units.

# UCIC CENTRIFUGAL UP-BLAST

## BELT DRIVE — DIMENSION DATA



### UCIC DIMENSION DATA

SIZE	T SQ.	CURB	A	B DIA.	C	D	E	X & Y MAX.	Z MAX.	MAX. MTR. FRAME	MAX HP	SHIP WT.
120	24	VCGHL-22	36-1/2	24-3/8	11-1/4	3	16-1/8	22-3/4	24-1/4	184T	5	150
135	28	VCGHL-26	41-3/8	26-3/4	13	3	17-5/8	27-1/4	26-1/4	184T	5	186
150	30	VCGHL-28	44-3/4	28-1/8	14-1/2	3	19-1/8	28-1/4	28	184T	5	230
165	30	VCGHL-28	48-5/8	31-1/2	15-1/2	3	21-3/16	29-1/4	29-1/2	184T	5	285
180	36	VCGHL-34	53-3/8	34-5/8	20-1/4	3	22-11/16	34-3/4	33	215T	10	350
195	36	VCGHL-36	56-7/8	37	21	3	24-3/16	35-3/4	34-1/2	215T	10	410
210	42	VCGHL-40	61-1/2	39-7/16	22-15/16	3	25-15/16	42-1/4	36-1/2	256T	15	507
225	42	VCGHL-40	66-5/16	41-13/16	24-7/8	3	27-7/16	43-1/4	38-1/2	256T	15	605
245	48	VCGHL-46	70-5/8	45	25-1/2	3	29-7/16	44-1/4	41-1/2	256T	15	750
270	54	VCGHL-52	75-1/8	48-1/2	27-1/4	3	31-15/16	48-1/2	43-3/4	286T	20	900
300	54	VCGHL-52	80-3/4	52-3/4	29-3/8	3	35	50-1/4	46-3/4	286T	20	1015
330	60	VCGHL-58	88-3/8	56-7/8	31-1/2	3	38	51-3/4	49-1/4	324T	25	1320
365	62	VCGHL-60	99-1/8	61-15/16	35	3	41-1/2	53-3/4	52-1/2	326T	30	1620
402	72	VCGHL-70	102-1/16	67-5/16	37-5/8	3	45-1/4	58-1/4	55-1/4	364T	40	1910
445	76	VCGHL-74	114-7/16	73-5/16	40-5/8	3	49-1/2	60-1/2	59	364T	40	2380
490	84	VCGHL-82	124-15/16	80-3/8	44-1/4	4	55	66-1/4	65-1/4	365T	50	2850
540	92	VCGHL-90	134-3/16	87-3/8	47-5/8	4	60	68-3/4	69-1/4	365T	50	3450
600	98	VCGHL-96	148-13/16	95-7/8	52	4	66	71-3/4	74	365T	50	4772

DIMENSIONS ARE IN INCHES. WEIGHT IS IN POUNDS.

### UCIC CURB DIMENSION

SIZE	CURB		GALV. STL. GA.	ALUM. THICKNS.	F SQ.	V SQ.	ROOF OPENING	SHIP WT. ALUM.	SHIP WT. STEEL
	GALV. STL.	ALUM.							
120	VCGHL-22	VCAHL-22	20	.080	22-1/2	33-1/2	18-1/2	32	38
135	VCGHL-26	VCAHL-26	20	.080	26-1/2	37-1/2	22-1/2	35	42
150	VCGHL-28	VCAHL-28	20	.080	28-1/2	39-1/2	24-1/2	38	46
165	VCGHL-28	VCAHL-28	20	.080	28-1/2	39-1/2	24-1/2	38	46
180	VCGHL-34	VCAHL-34	18	.100	34-1/2	45-1/2	30-1/2	58	70
195	VCGHL-36	VCAHL-36	18	.100	36-1/2	47-1/2	32-1/2	61	73
210	VCGHL-40	VCAHL-40	18	.100	40-1/2	51-1/2	36-1/2	69	83
225	VCGHL-40	VCAHL-40	18	.100	40-1/2	51-1/2	36-1/2	69	83
245	VCGHL-46	VCAHL-46	18	.100	46-1/2	57-1/2	42-1/2	79	95
270	VCGHL-52	--	16	--	52-1/2	63-1/2	48-1/2	--	124
300	VCGHL-52	--	16	--	52-1/2	63-1/2	48-1/2	--	124
330	VCGHL-58	--	14	--	58-1/2	69-1/2	54-1/2	--	167
365	VCGHL-60	--	14	--	60-1/2	71-1/2	56-1/2	--	171
402	VCGHL-70	--	12	--	70-1/2	81-1/2	66-1/2	--	229
445	VCGHL-74	--	12	--	74-1/2	85-1/2	70-1/2	--	266
490	VCGHL-82	--	12	--	82-1/2	93-1/2	78-1/2	--	293
540	VCGHL-90	--	12	--	90-1/2	101-1/2	86-1/2	--	341
600	VCGHL-96	--	12	--	96-1/2	107-1/2	92-1/2	--	353

DIMENSIONS ARE IN INCHES. WEIGHT IS IN POUNDS.