

CHICAGO

an ISO 9001 Company



PFD
PACKAGED FORCED DRAFT
FANS
&COMPONENTS

Forced Draft

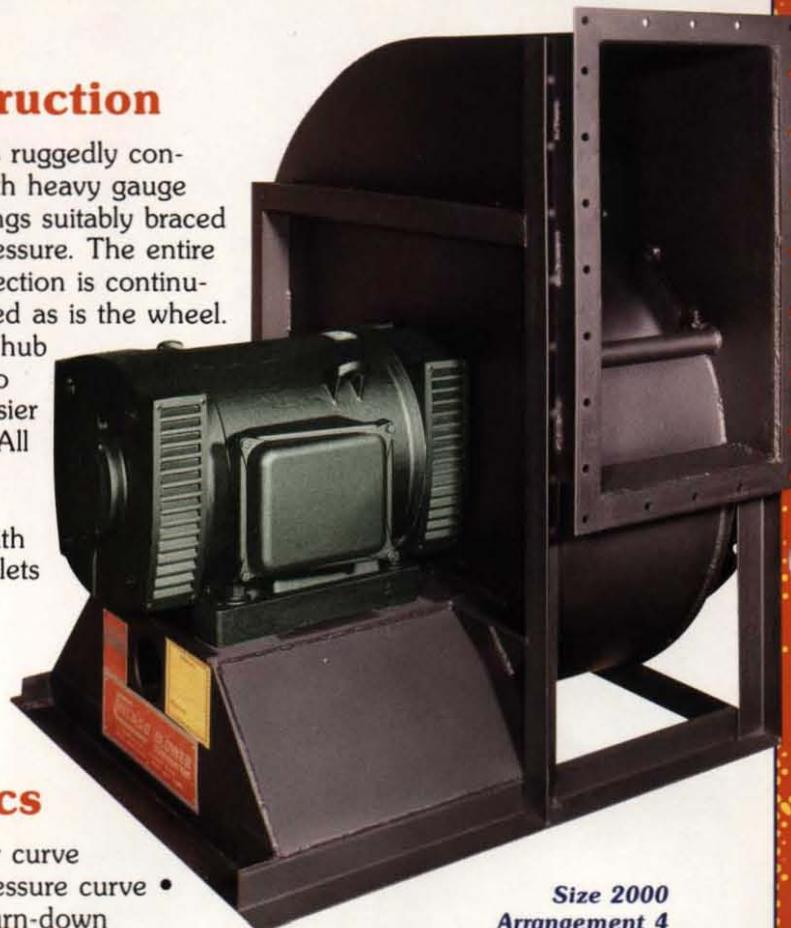
HIGH EFFICIENCY AIRFOIL FANS

Design Features

Initially developed 30 years ago for packaged boiler systems, Chicago's Packaged Forced Draft fan has earned a reputation as the industry standard. The PFD is a compact, direct connected, airfoil bladed fan offering exceptional reliability. To afford the highest efficiencies throughout the performance range, there are three wheel diameters available for each fan size. Fan and wheel width can also be varied to obtain maximum performance. For systems design versatility, seven standard discharge positions can be specified in each rotation.

Construction

The PFD is ruggedly constructed with heavy gauge steel housings suitably braced for high pressure. The entire airstream section is continuously welded as is the wheel. The wheel hub is bushed to facilitate easier mounting. All fans are furnished standard with flanged outlets ready for installation.



Size 2000
Arrangement 4

Performance Characteristics

Nine fan sizes from 2000 to 4412 • Volumes from 3000 to 65,000 CFM • Pressures from 4" to 50" Static • Efficiencies to 82% • Non-overloading

horsepower curve
• Steep pressure curve •
Excellent turn-down
capabilities

Applications

Chicago's Packaged Forced Draft fans are specified by the world's major manufacturers of boiler and burner systems. On the typical downdraft boiler installation the fan is mounted directly on top of the burner windbox.

Chicago's PFD fans are also used extensively in combustion air, supply air and primary air ap-

plications. In addition, they are utilized for liquid agitation and product cooling and drying.

For many applications, Original Equipment Manufacturers integrate Chicago PFD components into their equipment. Fan components for every size are all available individually.

For application and selection assistance contact your professional Chicago Blower representative. He has the expertise to recommend the correct fan for your individual application. Sales offices are located in major cities throughout North America and licensees throughout the world.

Complete Packaged Fans Ready To Run

Chicago Blower applied the packaged fan concept to forced draft fans and developed the pre-engineered ready-to-run Packaged Forced Draft fan. The PFD ships as a complete assembly requiring only bolting in place and motor wiring. Installation time and labor is minimal whether in the shop or in the field. No additional bracing or stiffening is required.

Every fan is run tested and statically and dynamically balanced for smooth trouble-free operation. As a pre-engineered fan, Chicago's PFD is available months ahead of custom built fans.

A wide choice of options can be added to suit individual installation requirements. Flanged inlets, inlet vane controls, screens, access doors, housing drains and bolt-on inlet boxes are readily available.



**Size 3612
Arrangement 8**

Components for Customer Installation



Many OEM systems are supplied with individual PFD components built in to the equipment. Wheels, inlet volume controls, inlet cones and housings are standard component parts available for customer installation. Only when you design genuine PFD components into your packaged units can you be assured of Chicago quality, performance and reliability.



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Selection Guide

The Chicago PFD is available in nine sizes. Each size has 3 wheel designs, providing the widest possible range of pressure/volume combinations. The performance curves are designed to provide the most efficient performance envelope of each size for each wheel design and speed.

NOTE:

Curves depict performance at 70° and sea level (.075# Ft.³ = density). See the example below for conditions other than .075.

SELECTION EXAMPLE:

Requirement 30,000 CFM 12.5" SP, 140°F, 1500 ft. elevation.

- From table, the correction factor for 140°F. and 1500 ft. elevation is 1.20.
- The equivalent SP at 70°F. and sea level is 12.5" x 1.20 = 15".
- Checking the curves, we select a size 3612 with a design 1904 wheel.
- Reading the horsepower on the corresponding curve, we find 99 BHP at 70°. Horsepower at conditions is derived as follows: 99 BHP + 1.2 = 83 BHP.

Summary: Selection is a size 3612 design 1904 to deliver 30000 CFM, 140°F., 1500' elevation, 12.5" SP, requiring 83 BHP.

AIR TEMP. °F	ALTITUDE (FEET)										
	0'	500'	1000'	1500'	2000'	2500'	3000'	3500'	4000'	4500'	5000'
0	.87	.88	.90	.92	.93	.95	.97	.99	1.00	1.02	1.04
40	.94	.96	.98	1.00	1.01	1.03	1.05	1.07	1.09	1.11	1.13
70	1.00	1.02	1.04	1.06	1.08	1.10	1.12	1.14	1.16	1.18	1.20
80	1.02	1.04	1.06	1.08	1.10	1.12	1.14	1.16	1.18	1.20	1.22
100	1.06	1.08	1.10	1.12	1.14	1.16	1.18	1.20	1.22	1.25	1.27
120	1.09	1.11	1.13	1.16	1.18	1.20	1.22	1.24	1.27	1.29	1.31
140	1.13	1.15	1.17	1.20	1.22	1.24	1.26	1.29	1.31	1.34	1.36
160	1.17	1.19	1.21	1.24	1.26	1.28	1.31	1.33	1.35	1.38	1.41
180	1.21	1.23	1.25	1.28	1.30	1.32	1.35	1.37	1.40	1.42	1.45
200	1.25	1.27	1.29	1.32	1.34	1.36	1.39	1.42	1.44	1.47	1.50
250	1.34	1.36	1.39	1.41	1.44	1.47	1.49	1.52	1.55	1.58	1.61
300	1.43	1.46	1.49	1.51	1.54	1.57	1.60	1.63	1.66	1.69	1.72

Although Arrangement 4 applications are limited to 150° F operation, Arrangement 8 and component parts may be applied at temperatures up to 300° F. Care must be taken to insure that the maximum wheel speed is not exceeded at temperature. The maximum RPMs on the table below should be multiplied by the speed deration factor to determine maximum safe speed at conditions.

MAXIMUM RPM @ 70°F	
2000	3600
2214	3600
2412	3600
H	3600
L	2090
3000	1880
3300	1880
3612	1800
4014	1840
4412	1840

SAFE SPEED DERATION FOR TEMPERATURE	
Temperature °F.	Standard Steel Wheel
70	1.00
100	1.00
200	.94
300	.90

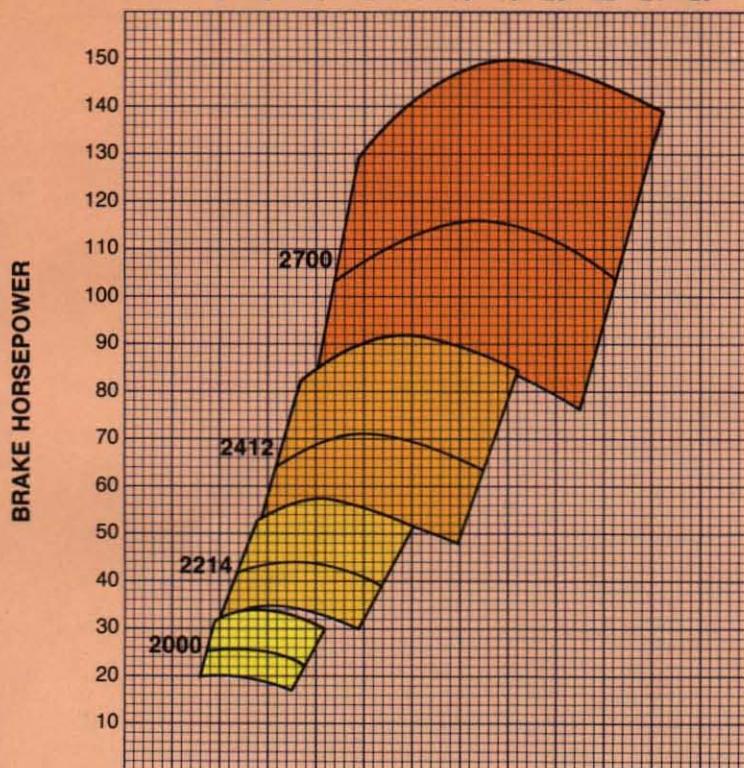
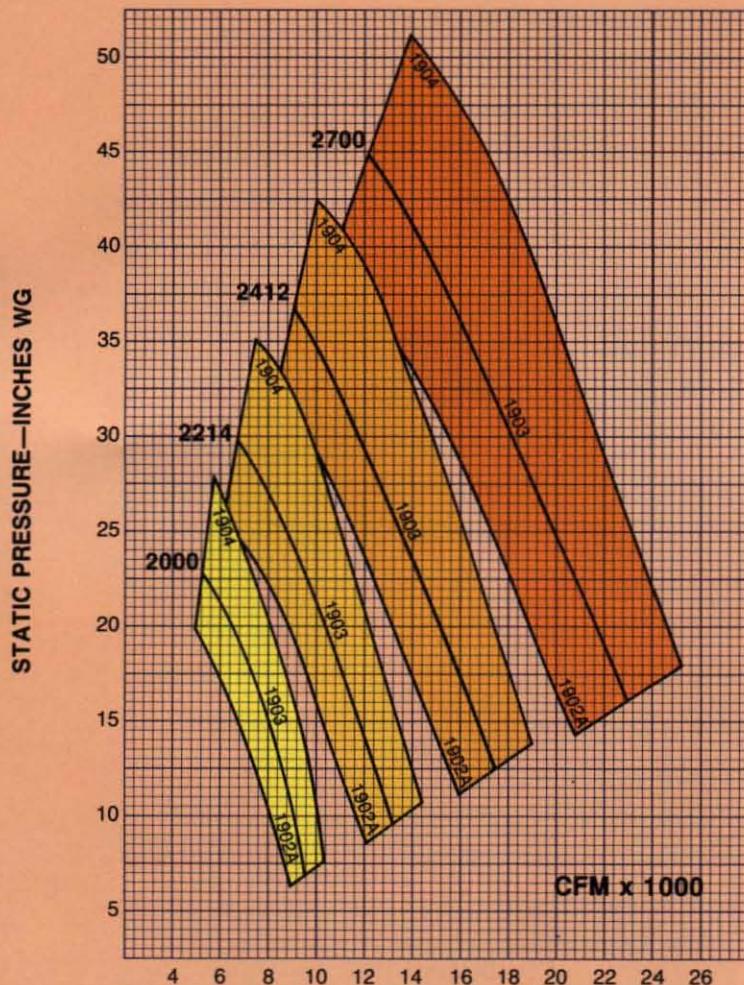
Sound Level Guide

BASIC SOUND POWER LEVEL AND dBA...

NOTE:
CORRECTION FOR INLET VOLUME CONTROL...CONTACT FACTORY**NOTES:**

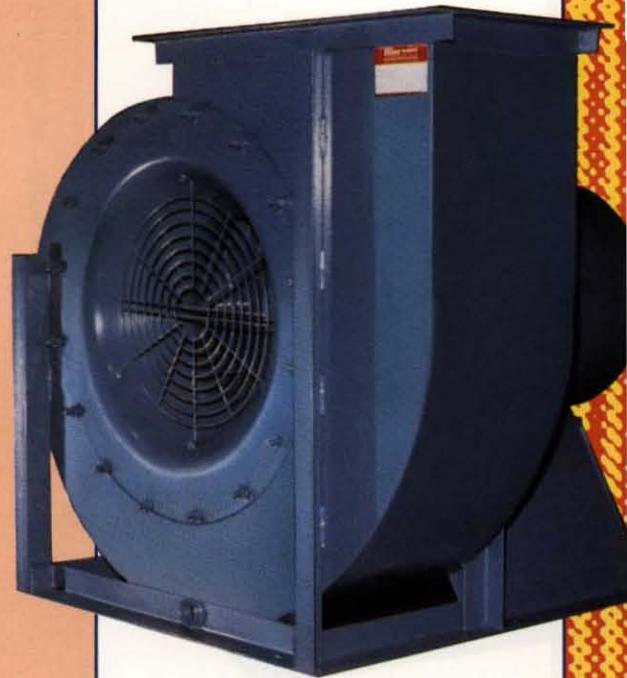
- Ratings are based on sound tests in accordance with AMCA sound code 300 setup 1 in an AMCA approved laboratory.
- Values shown are for total internal sound power level re 10⁻¹² watt per AMCA Bul.301 and 303. If necessary to obtain sound pressure level at 5 feet from fan, subtract 15 DB from octave band figure and make a further correction for end reflection based on data in the ASHRAE Handbook of Fundamentals.
- DBA value applies to 10 foot distance based on theoretical free field environment.
- Ratings apply to normal range of selection for high efficiency.
- Octave band center frequency in cycles/sec., Hz, are per ANSI SI.6-1960 and AMCA series 2.

3600 RPM OCTAVE BAND & CENTER Hz										APPROX. DBA @ 10 Ft.
SIZE	1	2	3	4	5	6	7	8	2000	
	63	125	750	500	1000	2000	4000	6000	2000	66
2000	1902	103	105	104	106	101	92	88	87	86
	1903	108	111	107	107	102	94	91	89	88
	1904	109	111	107	107	101	95	91	88	88
2214	1902	106	108	107	109	104	95	91	90	89
	1903	111	114	110	111	105	97	94	92	91
	1904	112	114	110	110	104	98	94	91	91
2412	1902	109	111	110	112	107	98	94	93	92
	1903	114	117	113	114	108	100	97	95	94
	1904	115	117	113	113	107	101	97	94	94
2700	1902	112	114	113	115	110	101	97	96	95
	1903	117	120	116	117	111	103	100	98	97
	1904	118	120	116	116	110	104	100	97	97
1800 RPM OCTAVE BAND & CENTER Hz										APPROX. DBA @ 10 Ft.
SIZE	1	2	3	4	5	6	7	8	2000	66
	63	125	750	500	1000	2000	4000	6000	2000	
2000	1902	90	88	90	85	77	73	71	68	66
	1903	95	91	92	86	78	75	73	70	67
	1904	96	92	92	87	80	77	73	71	68
2214	1902	93	91	93	88	80	76	74	71	69
	1903	98	94	95	89	81	78	76	73	70
	1904	99	95	95	90	83	80	76	74	71
2412	1902	96	94	96	91	83	79	77	74	72
	1903	101	97	98	92	84	81	79	76	73
	1904	102	98	98	93	86	83	79	77	74
2700	1902	99	97	99	94	86	82	80	77	75
	1903	104	100	101	95	87	84	82	79	76
	1904	105	101	101	96	89	86	82	80	77
3000	1902	102	100	102	97	89	85	83	80	78
	1903	107	103	104	98	90	87	85	82	79
	1904	108	104	104	99	92	89	85	83	80
3300	1902	105	103	105	100	92	88	86	83	81
	1903	110	106	107	101	93	90	88	85	82
	1904	111	107	107	102	95	92	88	86	83
3612	1902	108	106	108	103	95	91	89	86	84
	1903	113	109	110	104	96	93	91	88	85
	1904	114	110	110	105	98	95	91	89	86
4014	1902	111	109	111	106	98	94	92	89	87
	1903	116	112	113	107	99	96	94	91	88
	1904	117	113	113	108	101	98	94	92	89
4412	1902	114	112	114	109	101	97	95	92	90
	1903	119	115	116	110	102	99	97	94	91
	1904	120	116	116	111	104	101	97	95	92



Performance

SIZES
2000 - 2700
3600 RPM



Size 2412
*Clockwise Rotation
Up Blast Discharge
Optional Inlet Screen
and Housing Drain*

Fan Size	Max. Frame Sizes	Outlet Area
2000	324TS 364US	2.12 sq. ft.
2214	365TS 444US	2.63 sq. ft.
2412	444TS 445US	3.19 sq. ft.
2700	445TS 500US	3.88 sq. ft.

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Performance

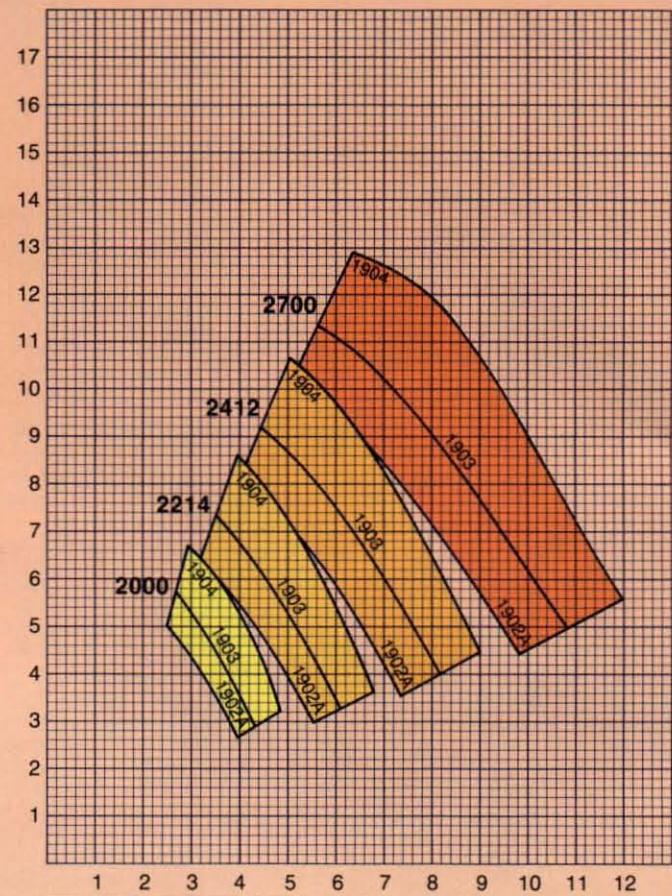
SIZES
2000 - 2700
1800 RPM



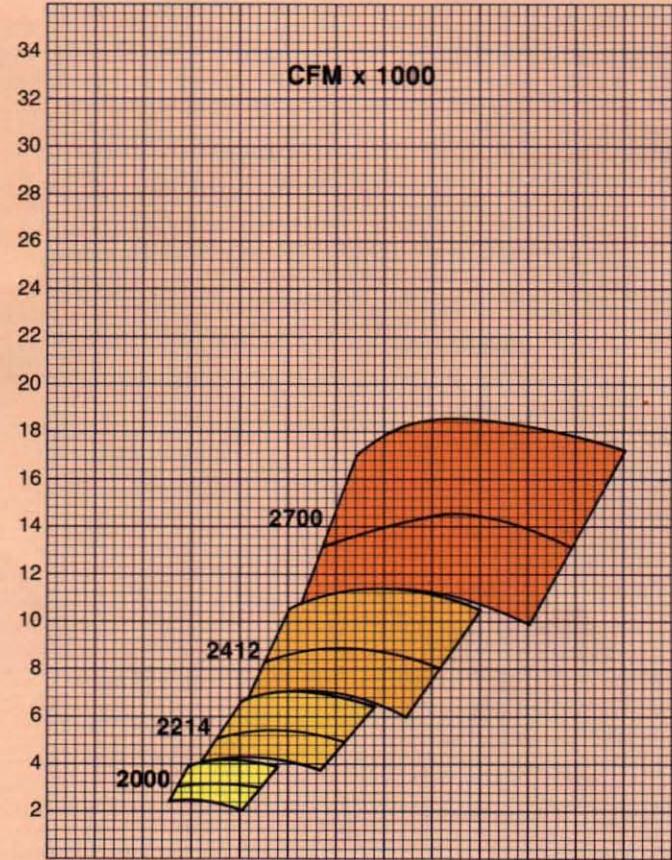
Size 2700
*Counterclockwise Rotation
 Top Horizontal Discharge
 Optional Access Door
 and Flanged Outlet*

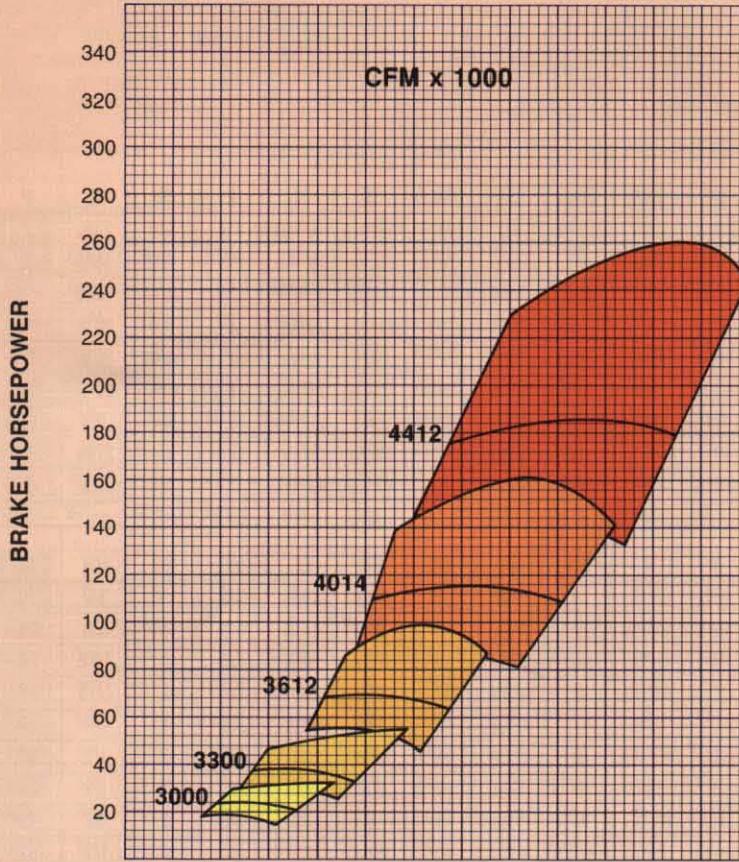
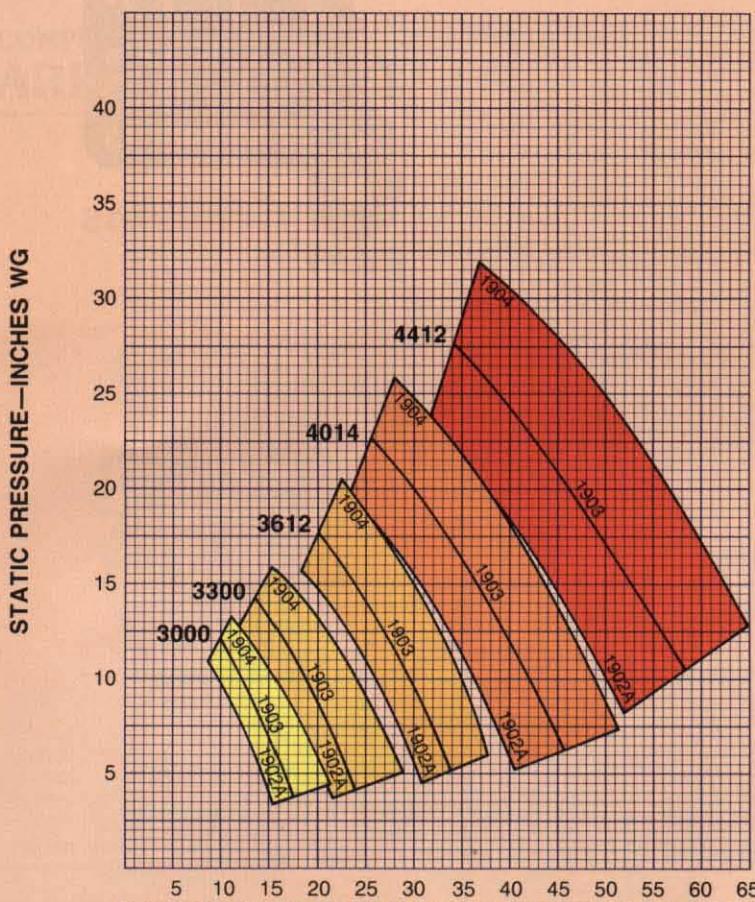
Fan Size	Max. Frame Sizes	Outlet Area
2000	184T 215U	2.12 sq. ft.
2214	215T 256U	2.63 sq. ft.
2412	254T 284U	3.19 sq. ft.
2700	284T 324U	3.88 sq. ft.

STATIC PRESSURE—INCHES WG



BRAKE HORSEPOWER





Performance

SIZES
3000 - 4412
1800 RPM



Size 3300
*Clockwise Rotation
 Down Blast Discharge*

Fan Size	Max. Frame Sizes	Outlet Area
3000	324T 364US	4.78 sq. ft.
3300	364T 405US	5.79 sq. ft.
3612	405T 445US	7.09 sq. ft.
4014	447T M505	8.60 sq. ft.
4412	449T 505UZ	10.52 sq. ft.



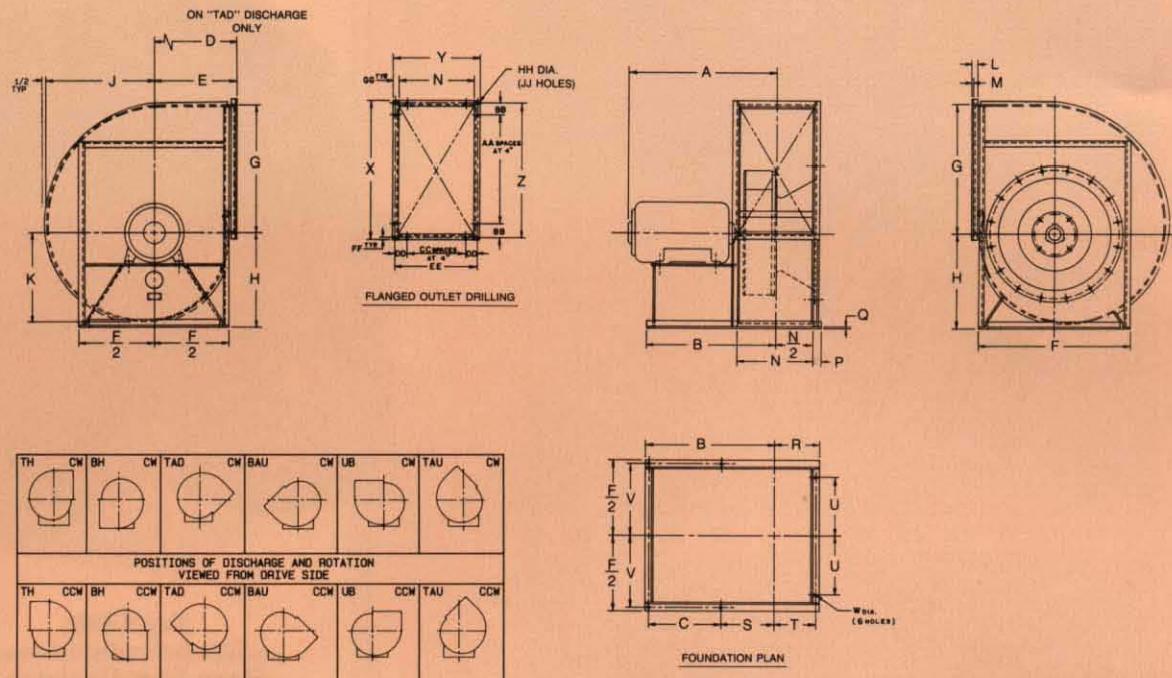
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COMPLETE ARRANGEMENT

4 FANS

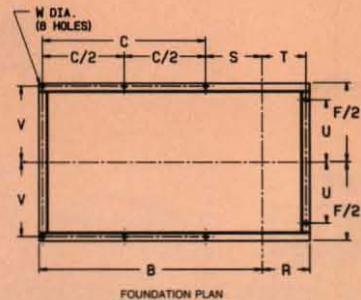
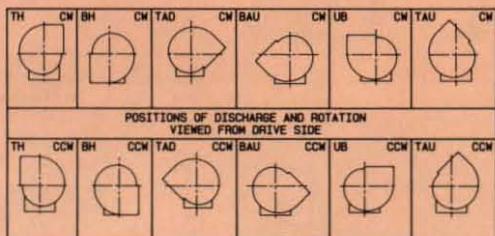
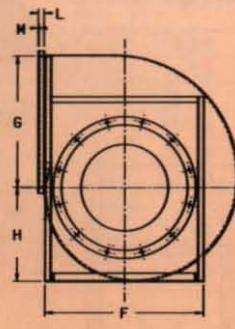
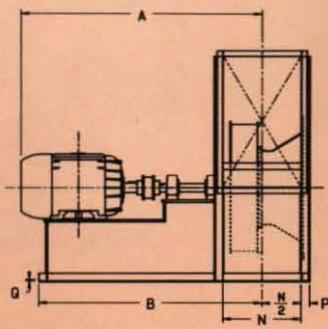
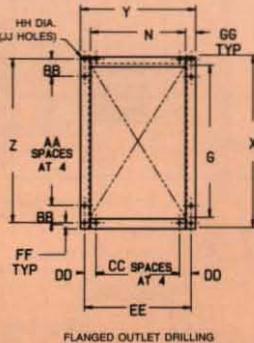
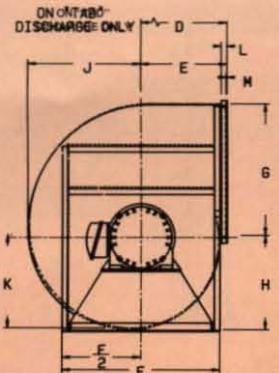
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Dimensions



FAN SIZE	A MAX	B MAX	C MAX	D	E	F	G	H						J	K	L	M	N	P
								TH	BH	TAD	BAU	UB	TAU						
2000	31½	27½/16	15½/16	26½	18½/4	31	22¾	16¾	26¼	21½/8	21½/8	20	18½/4	19½/16	16½/32	1½	1/4	13¾	2
2214	35½/8	29	16½/8	28	19½/4	34	25½/16	18½	28¾	22½/8	24	22½/8	20½	22½/8	18½/16	1½	1/4	15¾/8	2
2412	42½/8	36½/16	21½/16	32	21½/8	37¾	27½/8	20½/4	31½/8	26	26¾/8	24¾/8	22½/4	24½/32	20½/16	2	1/4	16½/8	2½
2700	45½/8	37½/4	21½/8	33½/2	22½/8	40¾	30½/16	22½/4	34¾/4	27	29	26¾/4	24½/2	26½/16	22½/32	2	1/4	18½/2	2½
3000	34½/8	31½/16	14½/16	36½	24¾/8	44½	34½/8	24¾/4	38½	29½/4	32½/8	29¾/4	27½/4	29½/8	24½/8	2	1/4	20½/2	2½
3300	38½/8	33½/16	15½/16	39	26½/8	47¾	37½/16	27½/8	41½/2	31	35¾/8	32½/8	29½/8	32½/16	26½/16	2	1/4	22¾/4	2½
3612	43½/8	37½/8	17½/8	41	27¾/4	51	41½/2	29½/8	45½/2	32½/8	38½/16	35½/16	32½/8	35½/8	29½/16	2	1/4	25	3
4014	56½/8	45½/8	24½/8	44	30¾/4	55	45½/16	32½/8	49¾/4	34½/2	43	39¾/4	36½/4	39½/16	32½/8	2	1/4	27¾/4	3
4412	60½/16	52½/16	29½/8	52½/4	33½/8	60½/2	50½/8	37½/16	55¾/8	41½/4	48½/16	44½/16	41	43½/32	35½/16	2	1/4	30½/8	3

FAN SIZE	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	GG	HH	JJ
2000	1/4	8½/8	11	8	11½	14½/8	1/2	25¾	16¾	24½	4	4½/4	2	3¾/4	15½/2	1½	1½/8	3/8	20
2214	1/4	9½/16	12	8½/16	13	16½/8	1/2	28½/16	18¾	27½/16	5	3½/32	3	2½/16	17½/8	5/8	1½	3/8	24
2412	1/4	10½/16	13½/2	9½/16	14	17¾/4	5/8	31½/8	20½/8	30½/8	6	3½/16	3	3½/16	19½/8	7/8	2	7/16	26
2700	1/4	11½/4	14½/4	10½/8	15½/2	19½/4	5/8	34½/16	22½/2	32½/16	6	4½/32	3	4½/8	20½/4	7/8	2	7/16	26
3000	1/4	12½/4	15½/4	11½/8	17½/4	21½/8	5/8	38½/8	24½	36½/8	7	4½/16	4	3¾/8	22½/4	7/8	2	1/2	30
3300	1/4	13½/8	16½/2	12½/4	18½/8	22¾/4	5/8	41½/16	26¾/4	39½/16	8	3½/32	5	2½/2	25	7/8	2	1/2	34
3612	1/4	15½/2	18½/2	14½/4	20½/2	24½/4	3/4	45½/2	29	43¾/4	9	3½/8	5	3½/8	27½/4	7/8	2	1/2	36
4014	1/4	16½/8	20	15½/8	21½/2	26½/4	3/4	49½/16	31¾/4	48½/16	10	4½/32	6	3	30	7/8	2	1/2	40
4412	3/8	18½/16	21½/16	17½/16	24½/4	29	3/4	54½/8	34½/8	52½/8	11	4½/16	6	4½/16	32½/8	7/8	2	1/2	42

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FANS
& COMPONENTS****COMPLETE
ARRANGEMENT****8
FANS****Dimensions**

FAN SIZE	A MAX	B MAX	C MAX	D	E	F	G	H						J	K	L	M	N	P
								TH	BH	TAD	BAU	UB	TAU						
2000	56 $\frac{5}{8}$	53 $\frac{7}{8}$	42	26 $\frac{1}{2}$	18 $\frac{1}{4}$	31	22 $\frac{3}{4}$	16 $\frac{3}{4}$	26 $\frac{1}{4}$	21 $\frac{7}{8}$	21 $\frac{5}{8}$	20	18 $\frac{1}{4}$	20 $\frac{7}{16}$	16 $\frac{19}{32}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	13 $\frac{3}{4}$	2
2214	62 $\frac{3}{8}$	57 $\frac{7}{8}$	45	28	19 $\frac{1}{4}$	34	25 $\frac{5}{16}$	18 $\frac{1}{2}$	28 $\frac{3}{4}$	22 $\frac{7}{8}$	24	22 $\frac{1}{8}$	20 $\frac{3}{8}$	22 $\frac{5}{8}$	18 $\frac{13}{32}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	15 $\frac{3}{8}$	2
2412	75 $\frac{5}{16}$	66 $\frac{3}{16}$	51 $\frac{15}{16}$	32	21 $\frac{1}{8}$	37 $\frac{3}{4}$	27 $\frac{7}{8}$	20 $\frac{1}{4}$	31 $\frac{1}{8}$	26	26 $\frac{3}{8}$	24 $\frac{3}{8}$	22 $\frac{1}{4}$	24 $\frac{25}{32}$	20 $\frac{3}{16}$	2	1 $\frac{1}{4}$	16 $\frac{7}{8}$	2 $\frac{1}{2}$
2700	83 $\frac{13}{16}$	73 $\frac{13}{16}$	58 $\frac{7}{16}$	33 $\frac{1}{2}$	22 $\frac{5}{8}$	40 $\frac{3}{4}$	30 $\frac{11}{16}$	22 $\frac{1}{4}$	34 $\frac{3}{4}$	27	29	26 $\frac{3}{4}$	24 $\frac{1}{2}$	27 $\frac{7}{16}$	22 $\frac{7}{32}$	2	1 $\frac{1}{4}$	18 $\frac{1}{2}$	2 $\frac{1}{2}$
3000	60	57 $\frac{1}{4}$	40 $\frac{7}{8}$	36 $\frac{1}{2}$	24 $\frac{3}{8}$	44 $\frac{1}{2}$	34 $\frac{1}{8}$	24 $\frac{3}{4}$	38 $\frac{1}{8}$	29 $\frac{1}{4}$	32 $\frac{1}{8}$	29 $\frac{3}{4}$	27 $\frac{1}{4}$	29 $\frac{5}{8}$	24 $\frac{5}{8}$	2	1 $\frac{1}{4}$	20 $\frac{1}{2}$	2 $\frac{1}{2}$
3300	65	60 $\frac{1}{2}$	42 $\frac{7}{8}$	39	26 $\frac{1}{8}$	47 $\frac{3}{4}$	37 $\frac{7}{16}$	27 $\frac{1}{8}$	41 $\frac{1}{2}$	31	35 $\frac{3}{8}$	32 $\frac{3}{8}$	29 $\frac{7}{8}$	32 $\frac{9}{16}$	27 $\frac{1}{32}$	2	1 $\frac{1}{4}$	22 $\frac{3}{4}$	2 $\frac{1}{2}$
3612	76 $\frac{5}{8}$	67 $\frac{7}{8}$	47 $\frac{7}{8}$	41	27 $\frac{3}{4}$	51	41 $\frac{1}{2}$	29 $\frac{7}{8}$	45 $\frac{1}{2}$	32 $\frac{3}{8}$	38 $\frac{15}{16}$	35 $\frac{15}{16}$	32 $\frac{7}{8}$	35 $\frac{7}{8}$	29 $\frac{13}{16}$	2	1 $\frac{1}{4}$	25	3
4014	90 $\frac{1}{16}$	80 $\frac{7}{16}$	59 $\frac{9}{16}$	44	30 $\frac{3}{4}$	55	45 $\frac{13}{16}$	32 $\frac{7}{8}$	49 $\frac{3}{4}$	34 $\frac{1}{2}$	43	39 $\frac{3}{4}$	36 $\frac{1}{4}$	39 $\frac{9}{16}$	32 $\frac{7}{8}$	2	1 $\frac{1}{4}$	27 $\frac{3}{4}$	3

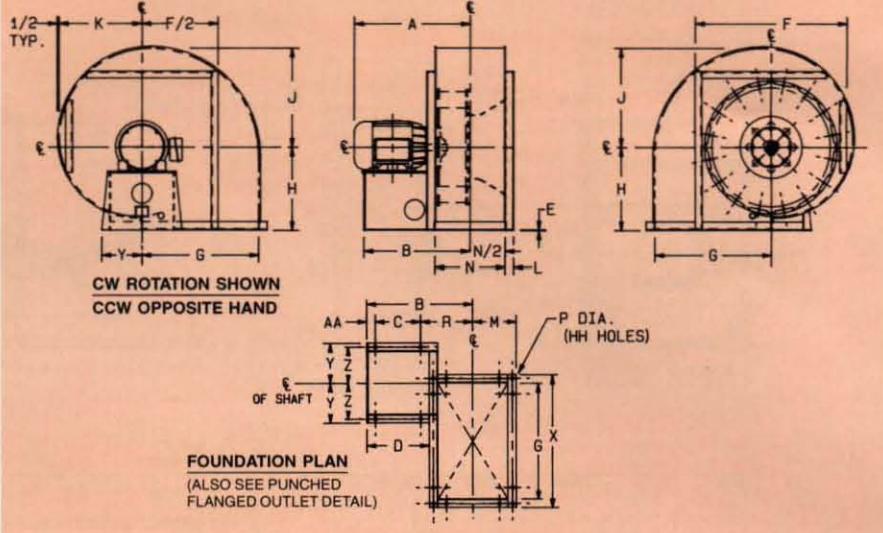
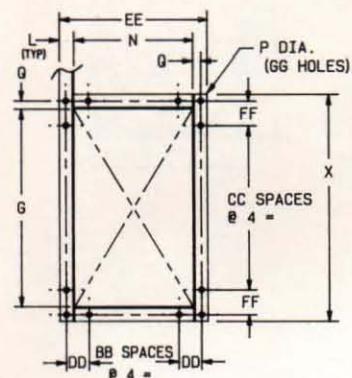
FAN SIZE	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	GG	HH	JJ
2000	1/4	8 $\frac{7}{8}$	11	8	11 $\frac{1}{2}$	14 $\frac{5}{8}$	1/2	25 $\frac{3}{4}$	16 $\frac{3}{4}$	24 $\frac{1}{2}$	4	4 $\frac{1}{4}$	2	3 $\frac{3}{4}$	15 $\frac{1}{2}$	5 $\frac{7}{8}$	1 $\frac{1}{2}$	3 $\frac{3}{8}$	20
2214	1/4	9 $\frac{11}{16}$	12	8 $\frac{13}{16}$	13	16 $\frac{1}{8}$	1/2	28 $\frac{7}{16}$	18 $\frac{3}{8}$	27 $\frac{7}{16}$	5	31 $\frac{7}{32}$	3	2 $\frac{7}{16}$	17 $\frac{1}{8}$	5 $\frac{7}{8}$	1 $\frac{1}{2}$	3 $\frac{3}{8}$	24
2412	1/4	10 $\frac{15}{16}$	13 $\frac{1}{2}$	9 $\frac{13}{16}$	14	17 $\frac{3}{4}$	5/8	31 $\frac{7}{8}$	20 $\frac{7}{8}$	30 $\frac{1}{8}$	6	3 $\frac{1}{16}$	3	3 $\frac{3}{16}$	19 $\frac{1}{8}$	7 $\frac{7}{8}$	2	7 $\frac{1}{16}$	26
2700	1/4	11 $\frac{3}{4}$	14 $\frac{1}{4}$	10 $\frac{5}{8}$	15 $\frac{1}{2}$	19 $\frac{1}{4}$	5/8	34 $\frac{11}{16}$	22 $\frac{1}{2}$	32 $\frac{15}{16}$	6	4 $\frac{15}{32}$	3	4 $\frac{3}{8}$	20 $\frac{3}{4}$	7 $\frac{7}{8}$	2	7 $\frac{1}{16}$	26
3000	1/4	12 $\frac{3}{4}$	15 $\frac{1}{4}$	11 $\frac{5}{8}$	17 $\frac{1}{4}$	21 $\frac{1}{8}$	5/8	38 $\frac{1}{8}$	24 $\frac{1}{2}$	36 $\frac{3}{8}$	7	4 $\frac{3}{16}$	4	3 $\frac{3}{8}$	22 $\frac{3}{4}$	7 $\frac{7}{8}$	2	1 $\frac{1}{2}$	30
3300	1/4	13 $\frac{7}{8}$	16 $\frac{1}{2}$	12 $\frac{3}{4}$	18 $\frac{7}{8}$	22 $\frac{3}{4}$	5/8	41 $\frac{1}{16}$	26 $\frac{3}{4}$	39 $\frac{13}{16}$	8	3 $\frac{29}{32}$	5	2 $\frac{1}{2}$	25	7 $\frac{7}{8}$	2	1 $\frac{1}{2}$	34
3612	1/4	15 $\frac{1}{2}$	18 $\frac{1}{2}$	14 $\frac{1}{4}$	20 $\frac{1}{2}$	24 $\frac{1}{4}$	3/4	45 $\frac{1}{2}$	29	43 $\frac{3}{4}$	9	3 $\frac{7}{8}$	5	3 $\frac{5}{8}$	27 $\frac{1}{4}$	7 $\frac{7}{8}$	2	1 $\frac{1}{2}$	36
4014	1/4	16 $\frac{7}{8}$	20	15 $\frac{5}{8}$	21 $\frac{1}{2}$	26 $\frac{1}{4}$	3/4	49 $\frac{13}{16}$	31 $\frac{3}{4}$	48 $\frac{1}{16}$	10	4 $\frac{1}{32}$	6	3	30	7 $\frac{7}{8}$	2	1 $\frac{1}{2}$	40

FAN SIZE	A MAX	B MAX	C MAX	D MAX	E	F	G	H	J	K	L	M	N	P	Q	R MAX	X	Y MAX	Z MAX	AA MAX
2000	31 1/2	25 5/16	10 7/16	16 11/16	1/4	31	22 3/4	18 1/4	19 15/16	16 19/32	2	8 7/8	13 3/4	1/2	1 1/8	11	26 3/4	9 7/8	9	4 1/8
2214	35 7/8	27 1/4	10 5/16	17 9/16	1/4	34	25 5/16	19 1/4	21 1/8	17 29/32	2	9 11/16	15 3/8	1/2	1 1/8	12 5/16	29 5/16	10 3/8	9 1/2	4 5/8
2412	42 3/8	34 5/16	15 3/4	23 3/8	1/4	37 3/4	27 7/8	21 1/8	23 25/32	19 11/16	2 1/2	10 15/16	16 7/8	5/8	1 3/8	13 1/2	32 7/8	13 1/8	12	5 1/16
2700	45 1/8	35 1/8	15 7/8	23 3/8	1/4	40 3/4	30 11/16	22 5/8	26 3/16	21 23/32	2 1/2	11 3/4	18 1/2	5/8	1 3/8	14 1/4	35 11/16	13 1/8	12	5
3000	34 7/8	28 15/16	10 3/16	16 3/16	1/4	44 1/2	34 1/8	24 3/8	29 1/8	24 1/8	2 1/2	12 3/4	20 1/2	5/8	1 3/8	14 1/2	39 1/8	10 1/4	9 1/8	4 1/4
3300	38 1/2	30 15/16	9 5/16	17 1/16	1/4	47 3/4	37 9/16	26 1/8	32 1/16	26 9/16	2 1/2	13 7/8	22 3/4	5/8	1 3/8	16 1/2	42 9/16	10 7/8	9 3/4	5 1/8
3612	43 3/8	34 3/4	10 1/4	19 1/4	1/4	51	41 1/2	27 3/4	35 3/8	29 5/16	3	15 1/2	25	3/4	1 3/4	18 1/2	47 1/2	12 7/16	11 3/16	6
4014	56 1/2	43 3/8	17 1/4	26 1/2	1/4	55	45 13/16	30 3/4	39 1/16	32 3/8	3	16 7/8	27 3/4	3/4	1 3/4	20	51 13/16	14 1/2	13 1/4	6 1/8
4412	60 5/16	49 13/16	22 1/4	31 1/2	3/8	60 1/2	50 5/8	33 1/8	43 7/16	35 13/16	3	18 5/16	30 5/8	3/4	1 3/4	21 7/16	56 5/8	14 1/2	13 1/4	6 1/8

ARRANGEMENT

DOWN BLAST ONLY

4
FANS



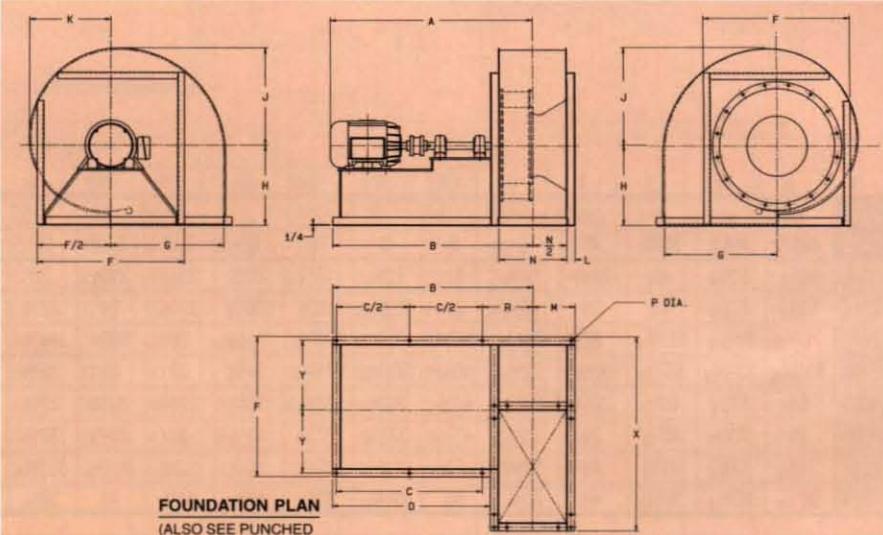
PUNCHED FLANGED OUTLET

FAN SIZE	BB	CC	DD	EE	FF	GG	HH
2000	2	4	4	17 3/4	4 1/2	20	24
2214	2	5	4 13/16	19 3/8	3 25/32	22	26
2412	3	6	3 13/16	21 7/8	3 5/16	26	30
2700	3	6	4 5/8	23 1/2	4 23/32	26	30
3000	4	7	3 5/8	25 1/2	4 7/16	30	34
3300	4	8	4 3/4	27 3/4	4 5/32	32	36
3612	5	9	4 1/4	31	4 1/2	36	40
4014	6	10	3 5/8	33 3/4	4 21/32	40	44
4412	7	12	3 1/16	36 5/8	3 1/16	46	50

ARRANGEMENT

DOWN BLAST ONLY

8
FANS



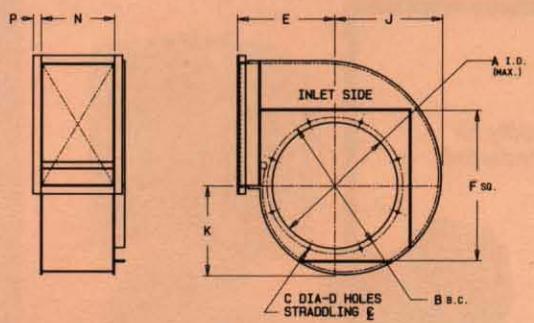
FAN SIZE	A MAX	B MAX	C MAX	D MAX	F	G	H	J	K	L	M	N	P	Q	R	X	Y
2000	56 5/8	53 7/8	42	45	31	22 3/4	18 1/4	19 15/16	16 19/32	2	8 7/8	13 3/4	1/2	1 1/8	11	56 5/8	14 5/8
2214	62 3/8	57 7/8	44 11/16	48 3/16	34	25 5/16	19 1/4	22 1/8	18 13/32	2	9 11/16	15 3/8	1/2	1 1/8	12 5/16	62 3/8	16 1/8
2412	75 3/16	66 9/16	51 15/16	55 5/8	37 3/4	27 7/8	21 1/8	24 9/32	20 3/16	2 1/2	10 15/16	16 7/8	5/8	1 3/8	13 1/2	75 3/16	17 3/4
2700	83 13/16	73 13/16	58 7/16	62 1/16	40 3/4	30 11/16	22 5/8	26 11/16	22 7/32	2 1/2	11 3/4	18 1/2	5/8	1 3/8	14 1/4	83 13/16	19 1/4
3000	60	57 1/4	41 5/8	44 1/2	44 1/2	34 1/8	24 3/8	29 5/8	24 5/8	2 1/2	12 3/4	20 1/2	5/8	1 3/8	14 1/2	60	21 1/8
3300	65	60 1/2	42 7/8	46 5/8	47 3/4	37 9/16	26 1/8	32 9/16	27 1/32	2 1/2	13 7/8	22 3/4	5/8	1 3/8	16 1/2	65	22 3/4
3612	76 5/8	67 5/8	47 7/8	52 1/8	51	41 1/2	27 3/4	35 7/8	29 13/16	3	15 1/2	25	3/4	1 3/4	18 1/2	76 5/8	24 1/4
4014	90 1/16	80 9/16	59 5/16	63 11/16	55	45 13/16	30 3/4	39 9/16	32 7/8	3	16 7/8	27 3/4	3/4	1 3/4	20	90 1/16	26 1/4

CHICAGO

PFD FANS &COMPONENTS

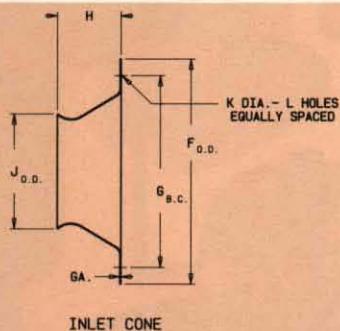
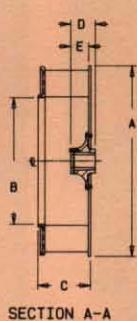
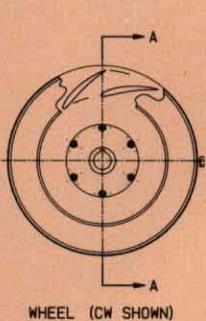
Components

HOUSING



HOUSING DIMENSIONS - INCHES

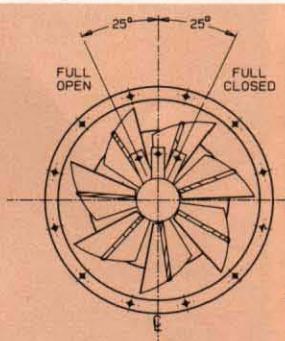
FAN SIZE	A MAX	B	C	D	E	F	G	H	J	K	N	P
2000	24-1/2	25-1/2	3/8	8	18-1/4	28	22-3/4	2-1/4	19-15/16	16-19/32	13-3/4	1-1/2
2214	26-1/2	27-1/2	3/8	16	19-1/4	30	25-5/16	2-1/4	22-1/8	18-13/32	15-3/8	1-1/2
2412	29-1/2	31	1/2	16	21-1/8	33-3/4	27-7/8	2-3/4	24-9/32	20-3/16	16-7/8	2
2700	32-1/2	34	1/2	16	22-5/8	36-3/4	30-11/16	2-3/4	26-11/16	22-7/32	18-1/2	2
3000	35-1/2	37	1/2	16	24-3/8	40-1/4	34-1/8	3	29-5/8	24-5/8	20-1/2	2
3300	39	40-1/2	1/2	16	26-1/8	43-3/4	37-9/16	2-3/4	32-9/16	27-1/32	22-3/4	2
3612	42-1/4	43-3/4	1/2	16	27-3/4	47	41-1/2	3-1/4	35-7/8	29-13/16	25	2
4014	46-1/2	48	1/2	16	30-3/4	51	45-13/16	3-3/4	39-9/16	32-7/8	27-3/4	2
4412	51-3/4	53-1/4	1/2	24	33-1/8	56-1/2	50-5/8	4-1/4	43-23/32	36-5/16	30-5/8	2



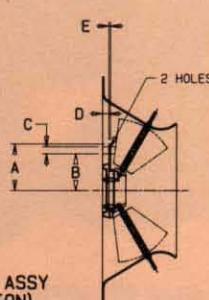
WHEEL DIMENSIONS - INCHES

CONNE DIMENSIONS - INCHES

FAN SIZE	A MAX	B	C	D	E	F	G	H	J	K	L	G.A.
2000	22-3/4	13-15/16	5-21/32	3-1/2	3	27	25-1/2	7-41/64	13-13/16	5/8	8	12
2214	25-1/8	15-1/16	6-5/16	3-1/2	3	29	27-1/2	8-15/64	14-29/32	5/8	16	12
2412	27-7/8	16-13/16	7-1/32	3-1/2	2-1/2	32-3/4	31	9-11/64	16-21/32	13/16	16	12
2700	31	18-11/16	7-3/4	3-1/2	2-1/2	35-3/4	34	10-1/32	18-1/4	15/16	16	12
3000	34	20-1/2	8-15/32	3-1/2	2-1/2	39-1/4	37	11-3/32	20-3/16	15/16	16	10
3300	37-3/4	22-27/32	9-13/32	3-1/2	2-1/4	42-3/4	40-1/2	12-7/16	22-19/32	15/16	16	10
3612	41-1/2	25-5/32	10-3/8	3-1/2	2-1/4	46	43-3/4	13-23/32	24-27/32	15/16	16	10
4014	45-3/4	28-3/32	11-13/32	3-1/2	2-1/4	50	48	15-5/16	27-25/32	15/16	16	10
4412	50-1/8	30-11/16	12-23/32	5-1/2	4-3/8	55-1/2	53-1/4	16-47/64	30-13/32	15/16	24	10



INLET VOLUME CONTROL ASSY
(SHOWN FOR CW ROTATION)



INLET VOLUME CONTROL

IVC DIMENSIONS - INCHES

FAN SIZE	A	B	C	D	E	F
2000	6-9/16	5-1/16	1	0	1/4	5/8
2412						
2700	9-7/32	6-23/32	2	1-3/16	3/8	1
4014						
4412	REFER TO FACTORY					

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