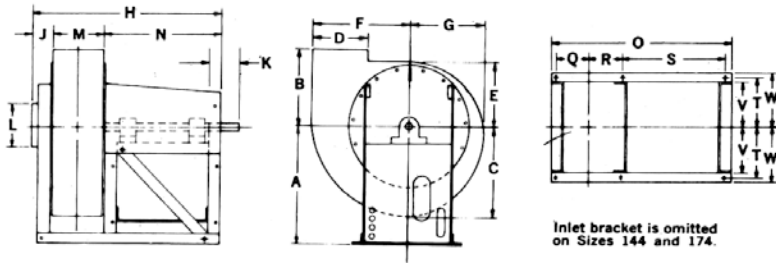


ARRANGEMENTS 10

DIMENSIONS

L, M and D are outside dimensions

J is from husing side over inlet collar.



DIMENSIONS (INCHES)

Tolerance: $\pm \frac{1}{8}$ "

Dimensions not to be Used
for construction unless certified

Maximum motor length
(NEMA "C" dimension) = ML.

Size	A	B	C	D	E	F	G	H	J	K	L	M
144	15½	10½	11⅞	8¼	9⅜	12	10¼	29½	1⅝	2½	9	7⅞
174	17½	12⅝	13⅜	10⅞	11⅞	14½	12¼	33⅝	1⅝	3	11	9½
224	25½	16½	18¾	13	14	21⅞	16⅜	39⅞	3⅞	4	13	10¾
264	28	18½	21⅝	15	16⅞	24⅜	18⅞	42½	4⅞	4½	15	12⅞
294	32½	21	24½	16⅞	18¼	27⅝	21⅜	45	4⅞	5	17	14

ARRANGEMENT 10 MOTOR LIMITATIONS

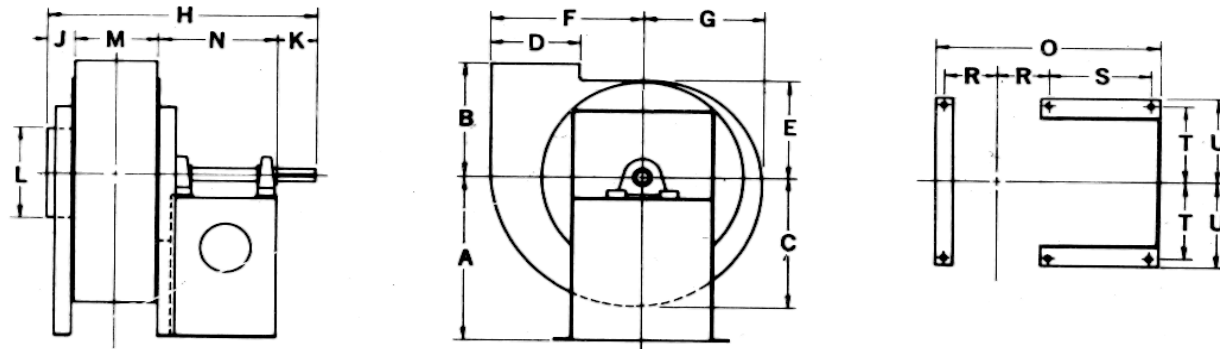
Fan size	Maximum motor frame		Max Nema "C"	Max AB dim.
	Open	TE		
144	184T	184T	17¾	6½
174	215T	215T	19	9⅞
224	256T	254T	22 ⁵ / ₁₆	10⅞
264	256T	254T	22 ⁵ / ₁₇	12
294	284T	256T	23 ⁹ / ₁₈	13⅜

motor frame sizes vary with manufacturer. Check NEMA "C" against those listed for adequate motor clearance.

Size	N	O	Q	R	S	T	V	W	Shaft dia.	Keyway	Base holes
144	20	—	—	5⅞	16⅞	7⅞	6½	8	17/16	⅜*3/16*2½	9/16
174	22	—	—	6⅝	18⅞	8⅞	8	9½	17/16	⅜*3/16*2½	9/16
224	26	38⅞	6½	8¼	20⅞	10⅞	9¾	11¼	115/16	½*¼*2½	9/16
264	26	41½	7⅞	9⅞	19⅞	12¼	11	13	115/16	½*¼*2½	¾
294	26⅞	44	8⅞	10⅞	20¼	13⅝	11¾	14¾	115/16	½*¼*2½	¾

ARRANGEMENTS 1 and 9

SIZES 144-364



**ARRANGEMENT 9
MOTOR LIMITATIONS**

Maximum motor rail width
(NEMA "AL" dimension plus junction
box if box is below motor) = BL.

Size	ML		BL
	300°f.	600°f	
144	13½	11½	11½
174	17	15	13¼
224	22½	20½	21
264	24	22	23
294	26½	24½	25¼
334	29⅝	27⅝	27
364	32⅝	30⅝	30½
404	31½	29½	33
454	34	32	38
504	37	35	48
574	38¼	36¼	54
644	41½	39½	60
714	45	43	45
784	49½	47½	50
854	54	52	55

Note : motor size has practical limit of
600 ibs Special construction is required
for larger motors .

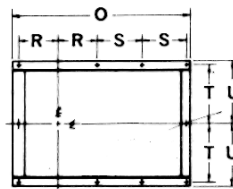
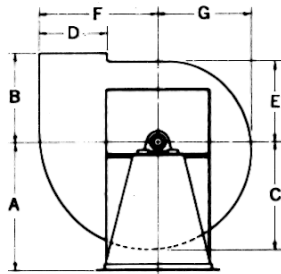
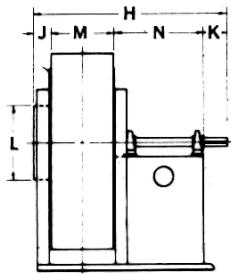
DIMENSIONS (INCHES)

Size	Wheel dia.	A	B	C	D	E	F	G	H	J	K	L	M	N	O
144	14	15½	10½	11⅝	8¼	9⅝	12	10¼	24	1⅝	3½	9	7⅝	11	‡21
174	17	17½	12⅝	13⅝	10⅝	11⅝	14½	12¼	29⅝	1⅝	4	11	9½	14	‡25⅝
224	22⅝	25½	16½	18¼	13	14	21⅝	16⅝	37⅝	3⅝	5	13	10¾	18½	31⅝
264	26⅝	28	18½	21⅝	15	16⅝	24⅝	18⅝	41½	4⅝	5½	15	12¾	19½	35
294	29⅝	32½	21	24½	16⅝	18¼	27⅝	21⅝	45⅝	4⅝	6	17	14	21½	38⅝
334	33	32¾	23	27⅝	18¼	20⅝	30⅝	23⅝	50¼	4⅝	6½	19	15⅝	24	42¼
364	36½	36¼	25½	30¼	20¼	22½	34⅝	26⅝	56	5¼	7	21	17¼	26½	48

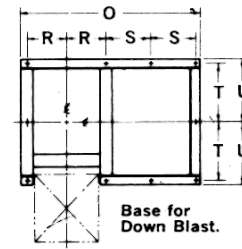
Size	R	S	T	U	a	b	c	d	Shaft dia.		Keyway	Base holes
144	‡5⅝	8¼	8⅝	9½	10¼	16	11½	9¾	13/16		¼*⅝*3½	9/16
174	‡5⅝	11¼	9⅝	10⅝	13⅝	19¼	13¾	11½	17/16		⅝*3/16*4	9/16
224	6½	16¼	10⅝	11¼	17⅝	26⅝	20	15¼	111/16		⅝*3/16*5	9/16
264	7⅝	16¼	12¼	13⅝	20¼	30⅝	23	17½	115/16		½*¼*5½	¾
294	8⅝	18¼	13⅝	14½	23	34⅝	26⅝	19⅝	115/16		½*¼*6	¾
334	9½	20¼	15⅝	16⅝	25¼	38⅝	29¼	22⅝	23/16		½*¼*6½	¾
364	10⅝	22⅝	16½	17¼	28½	42⅝	32¼	24⅝	23/16		½*¼*7	⅞

‡ Inlat hanger omitted

ARRANGEMENTS 1 and 9



Base for all discharges
except Down Blast.



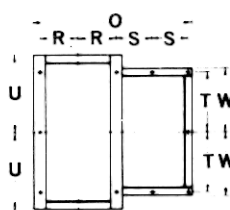
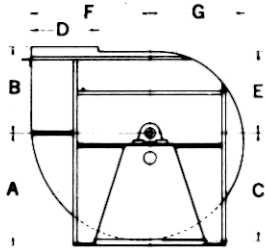
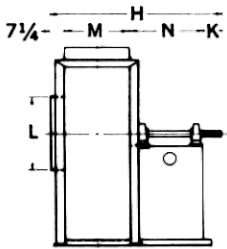
Base for
Down Blast.

DIMENSIONS {Inches}

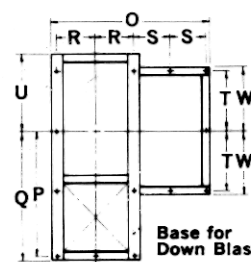
Size	wheel dia.	A	B	C	D	E	F	G	H	J	K	L	M	N	O
404	40	40	28	33 $\frac{3}{4}$	22 $\frac{5}{8}$	24 $\frac{3}{4}$	37 $\frac{3}{8}$	29	59 $\frac{5}{8}$	5 $\frac{1}{4}$	7 $\frac{1}{2}$	23	19	28	55 $\frac{1}{4}$
454	45 $\frac{5}{8}$	45	31 $\frac{1}{2}$	37 $\frac{1}{2}$	25 $\frac{3}{4}$	28	42 $\frac{5}{8}$	32 $\frac{3}{4}$	64 $\frac{1}{2}$	5 $\frac{1}{4}$	8	26	21 $\frac{3}{8}$	30	59 $\frac{5}{8}$
504	50 $\frac{1}{2}$	50 $\frac{1}{2}$	34 $\frac{1}{2}$	42	28 $\frac{3}{4}$	31 $\frac{1}{4}$	47 $\frac{1}{4}$	36 $\frac{3}{4}$	70 $\frac{3}{4}$	6	8 $\frac{1}{2}$	29	23 $\frac{3}{8}$	32 $\frac{1}{2}$	64 $\frac{3}{8}$
574	57 $\frac{1}{2}$	57 $\frac{1}{2}$	39	47 $\frac{3}{4}$	32 $\frac{5}{8}$	35 $\frac{3}{4}$	53 $\frac{1}{2}$	41 $\frac{1}{4}$	77 $\frac{1}{4}$	7	9	33	27 $\frac{5}{8}$	34 $\frac{1}{4}$	71 $\frac{5}{8}$

Size	R	S	T	U	a	b	c	d	Shaft dia.	Keyway	Base holes
404	11 $\frac{5}{8}$	14	18 $\frac{3}{8}$	20 $\frac{1}{2}$	31 $\frac{5}{8}$	46 $\frac{1}{4}$	35 $\frac{3}{8}$	27	2 $\frac{7}{16}$	$\frac{5}{8}$ * $\frac{5}{16}$ *7 $\frac{1}{2}$	$\frac{7}{8}$
454	12 $\frac{3}{4}$	15	20 $\frac{1}{4}$	22 $\frac{1}{2}$	35 $\frac{5}{8}$	52 $\frac{1}{4}$	40	30 $\frac{5}{8}$	2 $\frac{11}{16}$	$\frac{5}{8}$ * $\frac{5}{16}$ *8	$\frac{7}{8}$
504	14	16 $\frac{1}{4}$	22 $\frac{1}{4}$	23 $\frac{3}{4}$	39 $\frac{3}{8}$	57 $\frac{3}{4}$	44 $\frac{5}{8}$	34 $\frac{5}{8}$	2 $\frac{15}{16}$	$\frac{3}{4}$ * $\frac{3}{8}$ *8 $\frac{1}{2}$	1
574	16 $\frac{5}{8}$	17 $\frac{5}{8}$	25	27 $\frac{5}{8}$	44 $\frac{3}{4}$	65 $\frac{5}{8}$	50 $\frac{3}{4}$	38 $\frac{3}{4}$	2 $\frac{15}{16}$	$\frac{3}{4}$ * $\frac{3}{8}$ *9	1

ARRANGEMENTS 1 and 9



Base for all discharges
except Down Blast.



Base for
Down Blast.

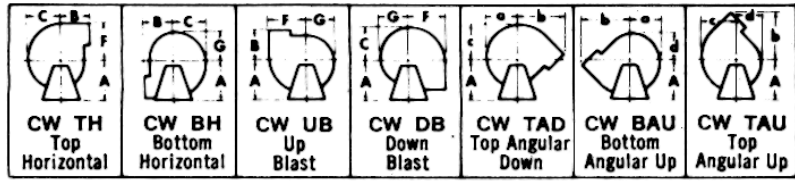
DIMENSIONS {Inches}

Size	wheel dia.	A							B	C	D	E	F	G	H	K	L	M	N
		TH	BH	UB	DB	TAD	BAU	TAU											
644	64 $\frac{3}{8}$	49	64 $\frac{1}{2}$	55 $\frac{1}{2}$	43	45	59	52	43	53 $\frac{3}{8}$	36 $\frac{3}{8}$	39 $\frac{3}{8}$	60 $\frac{3}{8}$	46 $\frac{3}{8}$	84 $\frac{1}{4}$	9 $\frac{1}{2}$	37 $\frac{1}{2}$	30 $\frac{1}{2}$	37
714	71 $\frac{1}{4}$	54	71	61 $\frac{1}{2}$	47 $\frac{1}{2}$	50	65	57 $\frac{1}{2}$	47 $\frac{1}{2}$	59 $\frac{5}{8}$	40 $\frac{3}{8}$	44 $\frac{1}{4}$	66 $\frac{3}{8}$	51 $\frac{1}{4}$	90 $\frac{5}{8}$	10	41	33 $\frac{3}{8}$	40
784	78 $\frac{1}{4}$	59	77	67	52	54 $\frac{3}{4}$	71	63	52	65	44 $\frac{3}{8}$	48 $\frac{3}{8}$	73	56 $\frac{3}{8}$	98 $\frac{5}{8}$	10 $\frac{1}{2}$	45	36 $\frac{3}{8}$	44
854	85 $\frac{1}{4}$	64	83	73	57	60	78 $\frac{1}{2}$	69	57	70 $\frac{3}{4}$	48 $\frac{1}{4}$	52 $\frac{5}{8}$	79 $\frac{1}{2}$	61 $\frac{3}{8}$	106 $\frac{3}{8}$	11	49	40 $\frac{3}{8}$	48

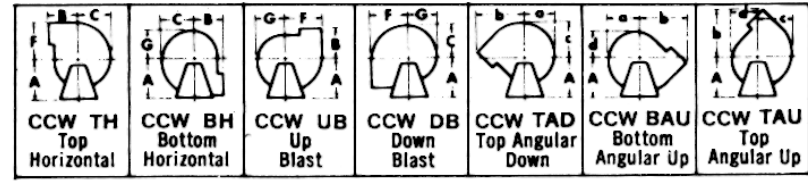
SIZES 644-854

Size	O	P	Q	R	S	T	U	W	a	b	c	d	Shaft dia.		keyway	Base holes
644	77 $\frac{7}{8}$	62 $\frac{5}{8}$	65 $\frac{1}{8}$	17 $\frac{3}{4}$	18 $\frac{1}{2}$	30	39 $\frac{7}{8}$	32 $\frac{1}{4}$	50 $\frac{1}{4}$	72 $\frac{7}{8}$	57	43 $\frac{1}{2}$	3 7/16		7/8*7/16*9 $\frac{1}{2}$	1
714	83 $\frac{3}{4}$	69	71 $\frac{1}{2}$	19 $\frac{7}{8}$	20	33 $\frac{1}{2}$	43 $\frac{1}{2}$	35 $\frac{1}{2}$	55 $\frac{1}{2}$	80 $\frac{7}{8}$	62 $\frac{7}{8}$	48	3 15/16		1* $\frac{1}{2}$ *10	1
784	90 $\frac{1}{2}$	75 $\frac{5}{8}$	78	21	22	36 $\frac{1}{2}$	47	38 $\frac{3}{4}$	60 $\frac{7}{8}$	88 $\frac{1}{2}$	69	52 $\frac{3}{4}$	3 15/16		1* $\frac{1}{2}$ *10 $\frac{1}{2}$	1
854	97 $\frac{3}{4}$	82	84 $\frac{1}{2}$	22 $\frac{5}{8}$	24	39 $\frac{1}{2}$	50 $\frac{1}{2}$	41 $\frac{1}{4}$	66 $\frac{3}{8}$	96 $\frac{3}{8}$	75	57 $\frac{3}{8}$	4 7/16		1* $\frac{1}{2}$ *11	1

FAN DISCHARGES



Clockwise—angular discharges at 45°



Counterclockwise—angular discharge at 45°