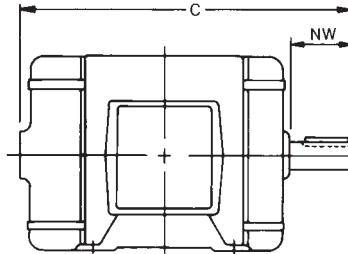


GENERAL PURPOSE FAN SPECIFICATIONS

MAXIMUM MOTOR SIZES Arrangement 10

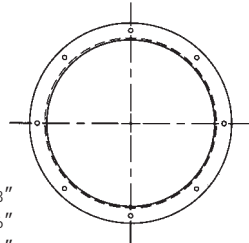
Motor frame sizes vary in length with different motor manufacturers. To determine whether a specific motor will fit, the frame size should be equal to or smaller than the maximum shown and the case length [NEMA C minus NEMA NW] must be equal to or less than the maximum allowable dimension shown.



DIMENSIONS [INCHES]			
Size	Maximum motor frame		Maximum motor case length [C-NW]
	Open	TE	
12	215T	184T	14 1/2
15	215T	215T	16 5/8
18	215T	215T	16 5/8
20	256T	254T	18 5/8
22	256T	254T	18 5/8
24	256T	254T	18 5/8
27	284T	256T	19 1/2
30	284T	256T	19 1/2
33	284T	284T	22 1/2
36	284T	284T	22 1/2

FLANGED INLET OPTION

Holes furnished on vertical centerline.



NOTE: Inlet flange material:
Size 12 1" x 1" x 1/8"
Sizes 15-22 . . . 1 1/2" x 1 1/2" x 3/16"
Sizes 24-36 2" x 2" x 3/16"

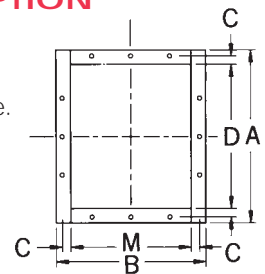
FLANGED OUTLET OPTION

1. Mounted flush with outside edge of housing discharge.
2. Holes furnished on 4" centers on centerline.

NOTE: Outlet flange material:

◆ Sizes 12-22 7 gauge plate
Sizes 24-33 . . . 1 1/2" x 1 1/2" x 3/16"
Size 36 2" x 2" x 3/16"

◆ Consult **nyb** if SST or aluminum construction is required. Dimensions will vary.



DIMENSIONS [INCHES]								
Size	A†	B†	C	D*	M*	No. of holes per flange		Dia.
						Sides	Top/bottom	
12	15 3/4	11 3/8	5/8	13 11/16	9 3/8	3	3	5/16
15	19 3/8	13 7/8	5/8	16 13/16	11 3/8	5	3	5/16
18	23 1/2	16 7/8	3/4	20 1/2	13 15/16	5	3	7/16
20	25 5/8	18	3/4	22 5/8	15 1/16	7	3	7/16
22	27 7/8	19 7/8	3/4	24 7/8	16 15/16	7	3	7/16
24	30 3/8	21 1/2	7/8	27 3/8	18 1/2	7	5	7/16
27	33 1/4	23 3/8	7/8	30 1/4	20 3/8	9	5	7/16
30	36 1/2	25 5/8	7/8	33 1/2	22 5/8	9	5	7/16
33	39 7/8	27 7/8	7/8	36 7/8	24 7/8	9	5	7/16
36	44 3/4	31 1/2	1 1/8	40 3/4	27 1/2	11	7	9/16

* Dimension shown is inside flange, outside housing. Deduct housing material thicknesses to determine inside dimensions of discharge.

† Dimension shown may differ for alloy construction or DB discharge.

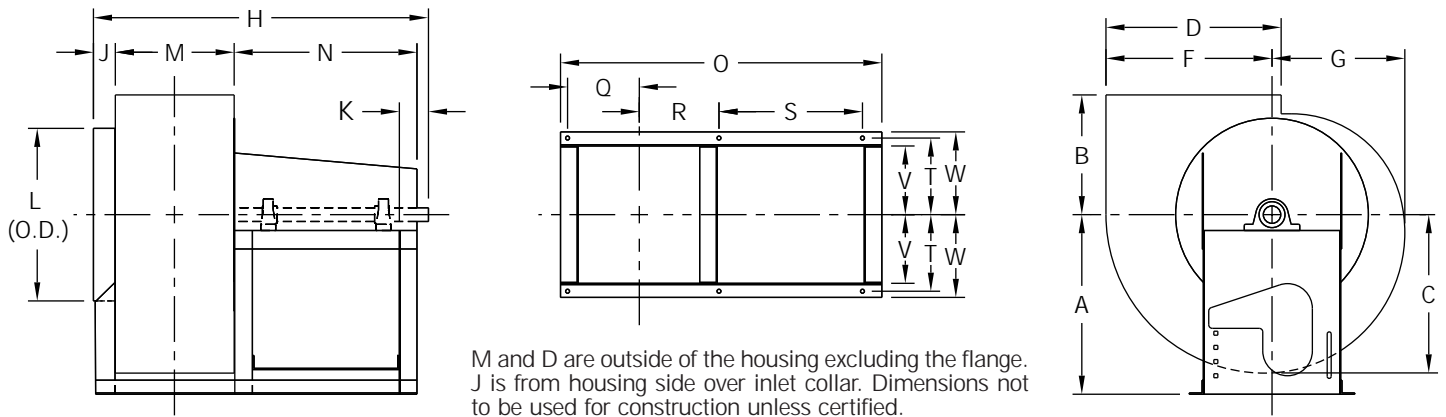
DIMENSIONS [INCHES]					
Size	I.D.	B.C.	O.D.	Holes	
				No.	Diameter
12	13 1/2	14 5/8	15 1/2	8	7/16
15	16 3/8	17 7/8	19 3/8	8	7/16
18	20	21 3/4	23	16	9/16
20	21 3/4	23 1/2	24 3/4	16	9/16
22	24 3/8	26 1/8	27 3/8	16	9/16
24	26 7/8	29 1/8	30 7/8	16	9/16
27	29 1/2	31 3/4	33 1/2	16	9/16
30	32 7/8	35 1/8	36 7/8	16	9/16
33	36 1/8	38 3/8	40 1/8	16	9/16
36	40 1/8	42 3/8	44 1/8	16	9/16

MATERIAL SPECIFICATIONS

Size	Housing		Pedestal		Platform		Drive plate	Inlet hanger	Base angles	Wheels						Shaft dia.	Brgs. †	Bare fan wt. •
	Sides	Scroll	Sides	Ends	Motor	Bearing				AcustaFoil		BC		PLR				
										Wts.	WR ²	Wt.	WR ²	Wt.	WR ²			
12	14	16	12	12	7	10	12	10	1 1/2 x 1 1/2 x 3/16	8*	2	NA	NA	15	2	1 7/16	A	145
15	14	16	12	12	7	10	12	10	1 1/2 x 1 1/2 x 3/16	12*	3	NA	NA	21	5	1 7/16	A	195
18	14	14	12	12	7	7	10	10	2 x 2 x 3/16	31	11	36	12	32	11	1 11/16	A	300
20	14	14	10	10	7	7	10	10	2 x 2 x 3/16	38	15	49	20	41	17	1 11/16	A	350
22	14	14	10	10	7	7	10	10	2 x 2 x 3/16	45	23	68	31	50	26	1 5/16	A	425
24	12	14	10	10	1/4	7	10	10	2 x 2 x 3/16	70	39	88	49	67	37	1 5/16	A	535
27	12	14	10	7	1/4	7	10	10	3 x 2 x 3/16	89	64	103	72	89	63	1 5/16	B	645
30	12	14	10	7	1/4	7	10	10	3 x 2 x 3/16	100	90	125	111	106	96	1 5/16	B	720
33	12	14	10	7	1/4	7	10	10	3 x 2 x 3/16	118	123	146	151	125	134	2 3/16	C	940
36	12	12	10	7	1/4	7	7	10	3 x 2 x 3/16	175	232	204	267	179	235	2 3/16	C	1130

* Aluminum wheels. † **nyb** reserves the right to substitute bearings of equal or greater rating. Bearings: A = Link Belt P3U-200 series ball bearings. B = Sealmaster SPM series ball bearings. C = Sealmaster MPD series ball bearings. • Approximate shipping weight in pounds. NA = Not Available.

GENERAL PURPOSE FAN DIMENSIONS

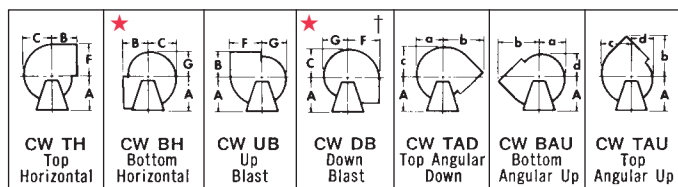


DIMENSIONS [INCHES]													
Size	A	B	C	D	F	G	H	J	K	L	M	N	O
12	15 ¹ / ₂	10	12 ³ / ₈	13 ⁵ / ₈	13	10 ³ / ₈	32	2 ¹ / ₈	2 ¹ / ₂	13 ¹ / ₂	9 ³ / ₈	20	31 ¹ / ₂
15	17 ¹ / ₂	12	15 ¹ / ₈	16 ³ / ₄	15 ⁷ / ₈	12 ⁵ / ₈	37 ¹ / ₂	3 ¹ / ₈	3	16 ¹ / ₂	11 ³ / ₈	22	35 ⁵ / ₈
18	21 ¹ / ₄	14	18 ³ / ₈	20 ¹ / ₂	19 ³ / ₈	15 ³ / ₈	40 ¹ / ₂	3 ¹ / ₈	3 ¹ / ₂	20	13 ⁷ / ₈	22	38 ⁵ / ₈
20	25 ¹ / ₂	15 ¹ / ₂	20 ³ / ₈	22 ¹ / ₂	21 ³ / ₈	17	45 ⁵ / ₈	3 ¹ / ₈	4	22 ³ / ₈	15	26	43 ³ / ₄
22	25 ¹ / ₂	17	22 ¹ / ₂	24 ⁷ / ₈	23 ⁵ / ₈	18 ³ / ₄	47 ⁵ / ₈	3 ¹ / ₈	4	24 ¹ / ₂	16 ⁷ / ₈	26	45 ⁵ / ₈
24	28	19	24 ³ / ₄	27 ³ / ₈	26	20 ³ / ₄	50 ³ / ₄	4 ¹ / ₂	4 ¹ / ₂	27	18 ¹ / ₂	26	47 ³ / ₄
27	32 ¹ / ₂	20 ¹ / ₂	27 ¹ / ₄	30 ¹ / ₄	28 ⁵ / ₈	22 ³ / ₄	54	4 ¹ / ₂	5	30	20 ³ / ₈	26 ⁷ / ₈	50 ¹ / ₂
30	32 ¹ / ₂	22 ¹ / ₂	30 ¹ / ₄	33 ¹ / ₂	31 ³ / ₄	25 ³ / ₈	56 ³ / ₄	4 ¹ / ₂	5 ¹ / ₂	33	22 ⁵ / ₈	26 ⁷ / ₈	52 ³ / ₄
33	39 ¹ / ₂	24 ¹ / ₂	33 ³ / ₈	36 ⁷ / ₈	35	27 ⁷ / ₈	62 ¹ / ₂	4 ¹ / ₂	6	36 ¹ / ₂	24 ⁷ / ₈	29 ⁷ / ₈	58
36	39 ¹ / ₂	29	36 ⁷ / ₈	40 ³ / ₄	38 ³ / ₄	30 ⁷ / ₈	66 ¹ / ₈	5	6	40	27 ¹ / ₂	30	60 ³ / ₄

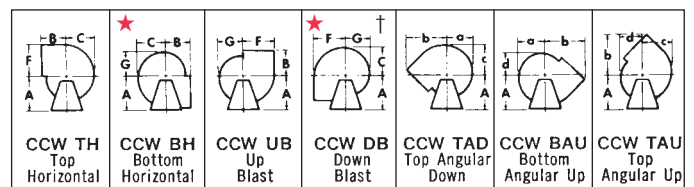
Size	Q	R	S	T	V	W	a	b	c	d	Shaft		Base holes
											Dia.	Keyway	
12	6 ¹ / ₈	6 ⁵ / ₈	16 ³ / ₈	7 ³ / ₈	6 ¹ / ₂	8	11 ⁵ / ₈	16 ¹ / ₄	12 ⁷ / ₈	9 ¹ / ₄	17 ¹ / ₁₆	3/8 X 3/16	9/16
15	7 ¹ / ₄	7 ⁵ / ₈	18 ³ / ₈	8 ⁷ / ₈	8	9 ¹ / ₂	14 ¹ / ₈	19 ³ / ₄	15 ³ / ₄	11 ³ / ₈	17 ¹ / ₁₆	3/8 X 3/16	9/16
18	8 ⁵ / ₈	9 ³ / ₈	17 ³ / ₈	9 ³ / ₈	8 ¹ / ₄	10 ¹ / ₄	17 ¹ / ₄	23 ⁵ / ₈	19 ¹ / ₈	13 ⁷ / ₈	11 ¹ / ₁₆	3/8 X 3/16	9/16
20	9 ¹ / ₄	10 ³ / ₈	20 ³ / ₈	10 ⁷ / ₈	9 ³ / ₄	11 ³ / ₄	18 ⁷ / ₈	26 ¹ / ₈	21 ¹ / ₈	15	11 ¹ / ₁₆	3/8 X 3/16	9/16
22	10 ¹ / ₄	11 ³ / ₈	20 ³ / ₈	10 ⁷ / ₈	9 ³ / ₄	11 ³ / ₄	21	28 ³ / ₄	23 ¹ / ₄	16 ³ / ₄	11 ⁵ / ₁₆	1/2 X 1/4	9/16
24	11 ¹ / ₂	12 ³ / ₈	19 ⁷ / ₈	12 ¹ / ₄	11	13	23 ¹ / ₈	31 ⁷ / ₈	25 ⁵ / ₈	18 ¹ / ₂	11 ⁵ / ₁₆	1/2 X 1/4	3/4
27	12 ¹ / ₂	13 ³ / ₈	20 ³ / ₄	13 ⁵ / ₈	11 ³ / ₄	14 ³ / ₄	25 ³ / ₈	34 ³ / ₄	28 ¹ / ₄	20 ³ / ₈	11 ⁵ / ₁₆	1/2 X 1/4	3/4
30	13 ⁵ / ₈	14 ¹ / ₂	20 ³ / ₄	13 ⁵ / ₈	11 ³ / ₄	14 ³ / ₄	28 ¹ / ₄	38 ³ / ₈	31 ³ / ₈	22 ⁵ / ₈	11 ⁵ / ₁₆	1/2 X 1/4	3/4
33	14 ³ / ₄	15 ⁵ / ₈	23 ³ / ₄	16	14	17	31 ¹ / ₈	42 ¹ / ₈	34 ⁵ / ₈	25 ¹ / ₄	2 ³ / ₁₆	1/2 X 1/4	3/4
36	16 ¹ / ₈	17	23 ³ / ₄	16	14	17	34 ³ / ₈	47 ⁷ / ₈	38 ¹ / ₄	27 ¹ / ₂	2 ³ / ₁₆	1/2 X 1/4	3/4

Tolerance: ± 1/16"

FAN DISCHARGES — VIEWED FROM DRIVE SIDE



Clockwise—angular discharges at 45°



Counterclockwise—angular discharges at 45°

- ★ Sizes 22 through 36 may require removal of base angle and housing brace on outlet side to convert Bottom Horizontal or Down Blast discharge in the field. Size 30 and Size 36 with flanged outlet require a 1 1/2" minimum shim on Bottom Horizontal discharge.
- † Down Blast fans with flanged outlets can only be equipped with a partial outlet flange so as to clear structures.

The New York Blower Company has a policy of continuous product development and reserves the right to change designs and specifications without notice.