Material Specifications

Dimensions in inches. Weights in pounds. WR^2 in lb.-ft.^{2}. Tolerance: ±1/8″

Size	No. of blades	Wheel weight	Wheel WR^2	Bushing type	Shaft diameter	Bearings	Approximate bare fan weight				Housing gauge
							9-D & 9-V	9-M	9-S	9-R†	
12-06-06	6	9.8	0.8	P1	1 3/16	A	120	135	130	185	10
14-06-06	6	10.3	1.0	P1	1 3/16	B	135	155	145	210	10
14-08-08	8	12.5	1.5	P1	1 7/16	C	170	190	180	245	10
16-08-09	9	13.5	2.0	P1	1 7/16	C	185	210	200	280	10
16-12-12	12	22.8	4.8	P1	1 7/16	C	230	255	240	320	10
18-08-09	9	14.0	2.3	P1	1 7/16	C	225	255	240	325	10
18-12-12	12	25.5	6.8	P1	1 11/16	C	265	295	280	365	10
21-08-09	9	15.0	3.0	P1	1 11/16	C	260	295	275	375	10
21-12-12	12	27.8	8.8	P1	1 11/16	C	300	340	320	415	10
21-16-16	16	57.0	24.5	Q1	1 11/16	C	325	365	345	440	10
24-12-09	9	28.3	10.0	P1	1 11/16	C	310	350	325	455	10
24-16-12	12	58.5	29.0	Q1	1 11/16	C	365	410	385	515	10
27-12-09	9	30.0	12.3	P1	1 11/16	C	330	380	345	495	10
27-16-12	12	65.0	37.8	Q1	1 15/16	C	410	460	425	570	10
27-20-16	16	91.0	68.0	Q1	1 15/16	C	435	490	455	600	10
29-12-09	9	31.3	13.5	P1	1 15/16*	C	365	425	385	545	10
29-16-12	12	66.5	42.5	Q1	2 3/16	C	465	525	485	640	10
29-20-16	16	94.5	75.0	Q1	2 3/16	C	495	555	510	670	10
32-16-09	9	68.5	47.5	Q1	2 3/16	C	485	550	500	700	10
32-20-12	12	106.5	90.0	Q1	2 3/16	C	575	640	590	790	10
36-16-09	9	74.5	61.0	Q1	2 3/16	C	530	600	545	790	10
36-20-12	12	116.0	115	Q1	2 3/16	C	655	735	680	920	10
36-26-15	15	232.5	268	R1	2 3/16	C	780	860	800	1040	10
38-16-09	9	70.0	62.0	Q1	2 3/16	C	630	740	650	920	7
38-20-12	12	120.0	123	Q1	2 7/16	C	810	935	835	1105	7
38-26-15	15	205.5	250	R1	2 7/16	C	900	1025	920	1190	7
42-20-09	9	131.0	141	Q1	2 11/16	C	900	1035	920	1235	7
42-26-12	12	245.5	324	R1	2 11/16	C	1125	1270	1150	1465	7
48-20-09	9	122.0	147	Q1	2 11/16	C	965	1135	990	1370	7
48-26-12	12	258.5	394	R1	2 11/16	C	1220	1395	1245	1625	7
54-26-09	9	245.5	399	R1	2 11/16	C	1310	1520	1360	1810	7
60-26-09	9	260.0	460	R1	2 11/16	C	1455	1715	1505	2035	7

* Shaft diameter at bearings is 1 15/16″ with a 1 11/16″ turndown at the wheel for the P1 bushing.

Bearing types: A–Standard D-Lok B-Medium D-LOK C–Link-Belt 22400 Series. All Sizes:Flange bearings

Bearings: For fan sizes 12-06-06 through 21-08-09 both bearings are fixed. For fans sizes 21-12-12 through 60-26-09, the non-drive bearing is fixed and the drive bearing is expansion.

nyb reserves the right to substitute bearings of equal quality. Wheel weight includes bushing.

†9R weights are for fan and curb cap. Does not include weights for stack hood and weather cover.

MATERIAL SPECIFICATIONS

Dimensions in inches. Tolerance: ±1/8"

MOTOR SIZE CAPABILITY

Size	Maximum C-[N-W]	Maximum frame size
12-06-06	16 3/8	213T
14-06-06	16 3/4	215T
14-08-08	19	256T
16-08-09	18 3/8	256T
16-12-12	22 1/8	324T
18-08-09	22 5/8	324T
18-12-12	24 1/8	364T
21-08-09	22 5/8	326T
21-12-12	24 1/8	364T
21-16-16	24 1/8	364T
24-12-09	22 5/8	324T
24-16-12	24 1/8	364T
27-12-09	22 5/8	326T
27-16-12	24 1/8	365T
27-20-16	25	365T
29-12-09	24 5/8	364T
29-16-12	27 5/8	405T
29-20-16	27 5/8	405T
32-16-09	25 1/4	364T
32-20-12	27 5/8	405T
36-16-09	25 1/4	365T
36-20-12	31 5/8	405T
36-26-15	32 7/8	405T
38-16-09	27 5/8	405T
38-20-12	36 1/8	445T
38-26-15	36 1/8	445T
42-20-09	34 7/8	405T
42-26-12	38 7/8	445T
48-20-09	34 3/8	445T
48-26-12	38 3/8	445T
54-26-09	41 7/8	445T
60-26-09	44 1/2	445T

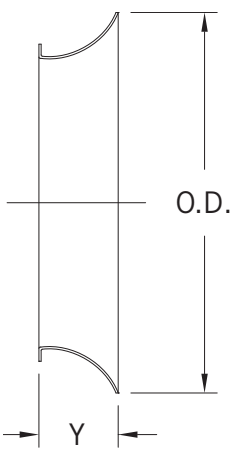
Maximum frame sizes are listed per size.

FAN FLANGE DIMENSIONS

Size	Flange gauge	Fan ID	Bolting circle	Flange OD	Flange Slots*	
					No.	Size
12-06-06	7	12 3/16	13 15/16	15 1/2	8	7/16 x 13/16
14-06-06	7	14 3/16	15 15/16	17 1/2	8	7/16 x 13/16
14-08-08	7	14 3/16	15 15/16	17 1/2	8	7/16 x 13/16
16-08-09	7	16 1/4	18	19 5/8	8	7/16 x 13/16
16-12-12	7	16 1/4	18	19 5/8	8	7/16 x 13/16
18-08-09	7	18 1/4	20	21 5/8	8	7/16 x 13/16
18-12-12	7	18 1/4	20	21 5/8	8	7/16 x 13/16
21-08-09	7	21 3/16	23	24 5/8	8	7/16 x 13/16
21-12-12	7	21 3/16	23	24 5/8	8	7/16 x 13/16
21-16-16	7	21 3/16	23	24 5/8	8	7/16 x 13/16
24-12-09	7	24 3/8	26 1/8	27 3/4	8	7/16 x 13/16
24-16-12	7	24 3/8	26 1/8	27 3/4	8	7/16 x 13/16
27-12-09	7	27 3/8	29 1/8	30 3/4	8	7/16 x 13/16
27-16-12	7	27 3/8	29 1/8	30 3/4	8	7/16 x 13/16
27-20-16	7	27 3/8	29 1/8	30 3/4	8	7/16 x 13/16
29-12-09	7	29 3/16	31	32 5/8	16	7/16 x 13/16
29-16-12	7	29 3/16	31	32 5/8	16	7/16 x 13/16
29-20-16	7	29 3/16	31	32 5/8	16	7/16 x 13/16
32-16-09	7	32 1/2	34 1/4	35 7/8	16	7/16 x 13/16
32-20-12	7	32 1/2	34 1/4	35 7/8	16	7/16 x 13/16
36-16-09	7	36 1/2	38 5/16	41	16	7/16 x 13/16
36-20-12	7	36 1/2	38 5/16	41	16	7/16 x 13/16
36-26-15	7	36 1/2	38 5/16	41	16	7/16 x 13/16
38-16-09	1/4"	38	40 1/4	42 1/2	16	9/16 x 1
38-20-12	1/4"	38	40 1/4	42 1/2	16	9/16 x 1
38-26-15	1/4"	38	40 1/4	42 1/2	16	9/16 x 1
42-20-09	1/4"	42 3/4	45	47 1/4	16	9/16 x 1
42-26-12	1/4"	42 3/4	45	47 1/4	16	9/16 x 1
48-20-09	1/4"	48 3/4	51	53 3/8	16	9/16 x 1
48-26-12	1/4"	48 3/4	51	53 3/8	16	9/16 x 1
54-26-09	1/4"	55	57 7/16	59 5/8	16	9/16 x 1
60-26-09	1/4"	61	63 7/16	65 5/8	16	9/16 x 1

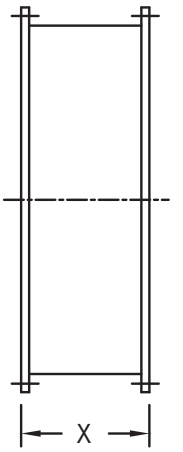
*Slots spaced equally, straddling centerline.

INLET BELL DIMENSIONS



Size	Y	O.D.
12	2 1/8	16 3/16
14	2 1/2	18 15/16
16	2 15/16	21 3/4
18	3 3/16	24 1/4
21	3 11/16	28 1/4
24	4 1/16	32 1/8
27	4 11/16	36 3/8
29	5	38 7/8
32	5 3/4	43 1/2
36	6 1/4	48 1/2
38	6 5/8	50 7/8
42	7 1/4	56 3/4
48	8 1/4	64 3/4
54	9 1/8	73
60	10 1/8	81

INLET VANE DAMPER DIMENSIONS



Size	X	
	Type A	Type B
12	9	12
14	9	12
16	9	12
18	10	12
21	10	12
24	10	12
27	10	12
29	10	12
32	10	12
36	10	12
38	10	12
42	11	12
48	11	12
54	11	12
60	12	12

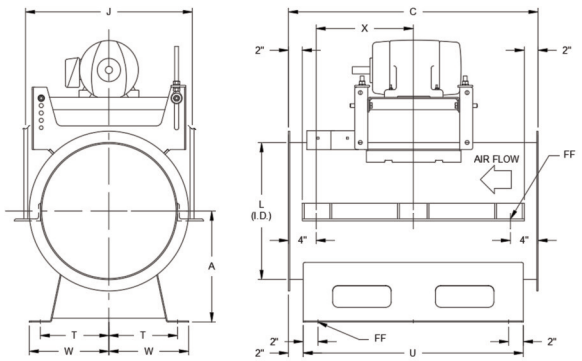
DIMENSIONS

Dimensions should not be used for construction unless certified. See page 3 for available mounting positions. Note motor size capability on page 14. Tolerance: ±1/8".

Size	C	G max*	H	U
12-06-06	26 5/8	27 1/4	48 3/8	22 5/8
14-06-06	27	28 1/4	49 3/4	23
14-08-08	29 1/4	28 1/4	52	25 1/4
16-08-09	29 5/8	29 1/4	53 3/8	25 5/8
16-12-12	33 3/8	33 1/4	57 1/8	29 3/8
18-08-09	33 7/8	34 1/4	59 5/8	29 7/8
18-12-12	35 3/8	38 1/4	61 1/8	31 3/8
21-08-09	33 7/8	35 3/4	62 5/8	29 7/8
21-12-12	36 3/8	39 3/4	65 1/8	32 3/8
21-16-16	36 3/8	39 3/4	65 1/8	32 3/8
24-12-09	34 7/8	37 1/2	70 5/8	30 7/8
24-16-12	36 3/8	41 1/2	72 1/8	32 3/8
27-12-09	34 7/8	39	72 5/8	30 7/8
27-16-12	37 3/8	43	75 1/8	33 3/8
27-20-16	38 1/4	43	76	34 1/4
29-12-09	36 7/8	43	75 5/8	32 7/8
29-16-12	40 7/8	43 3/4	79 5/8	36 7/8
29-20-16	40 7/8	46 1/2	79 5/8	36 7/8
32-16-09	38 1/2	45 1/2	78 3/4	34 1/2
32-20-12	40 7/8	48 1/4	81 1/8	36 7/8
36-16-09	38 1/2	47 1/2	83 3/4	34 1/2
36-20-12	44 7/8	50 1/4	90 1/8	40 7/8
36-26-15	46 1/8	50 1/4	91 3/8	42 1/8
38-16-09	40 7/8	51	87 1/8	36 7/8
38-20-12	49 3/8	54	95 5/8	45 3/8
38-26-15	49 3/8	54	95 5/8	45 3/8
42-20-09	49 1/8	53 1/2	97 3/8	45 1/8
42-26-12	54 1/8	56 1/2	102 3/8	50 1/8
48-20-09	48 5/8	59 1/2	102 7/8	44 5/8
48-26-12	53 5/8	59 1/2	107 7/8	49 5/8
54-26-09	57 1/8	62 1/2	114 3/8	53 1/8
60-26-09	59 3/4	65 1/2	121	56 1/8

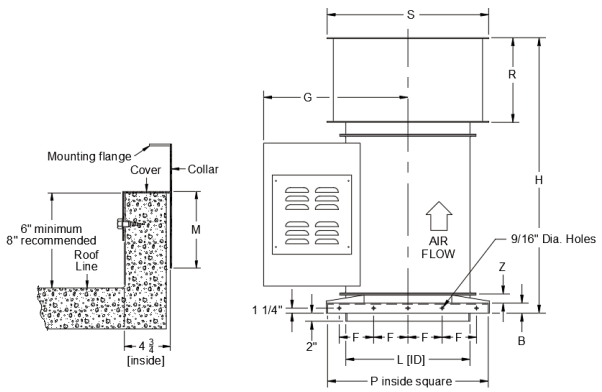
*G max: Weather cover and belt guard will not exceed maximum dimension.

ARRANGEMENTS 9-M, 9-S, AND 9-D

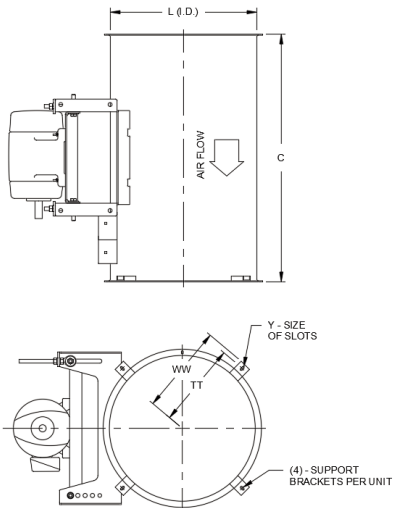


ARRANGEMENT 9-R

[roof-mounted] with optional exhaust-type stack hood.



ARRANGEMENT 9-V



DIMENSIONS [INCHES]

Size	A	B	E	F	FF*	J	L	M	P	R	S	T	TT	W	WW	X	Y	Z
12	11	2 1/2	2	4 1/2	9/16	16 3/16	12 3/16	4 1/2	22	14	19 1/8	6 1/4	9 3/8	7 3/4	10 5/8	—	9/16x1	2
14	12 1/2	2 1/2	2	4 1/2	9/16	18 3/16	14 3/16	4 1/2	24	15	7 1/4	14 1/2	10 3/8	8 3/4	11 5/8	—	9/16x1	2
16	13 1/2	2 1/2	2	5	9/16	20 1/4	16 1/4	4 1/2	26 1/8	16	8 5/16	16 5/8	11 1/2	9 13/16	12 3/4	—	9/16x1	2
18	15	2 1/2	2	5 1/2	9/16	22	18 1/4	4 1/2	28	18	9 5/16	18 5/8	12 1/2	10 13/16	13 3/4	—	9/16x1	2
21	16 1/2	2 1/2	2	6	9/16	24 15/16	21 3/16	4 1/2	31	21	10 13/16	21 5/8	13 7/8	12 5/16	15 1/8	—	9/16x1	2
24	18 1/2	2 1/2	2	7	9/16	28 1/8	24 3/8	4 1/2	34 1/8	23	12 3/8	24 3/4	15 1/2	13 7/8	16 3/4	—	9/16x1	2
27	20 1/2	2 1/2	2	8	9/16	31 1/8	27 3/8	4 1/2	37 1/8	25	13 7/8	27 3/4	17	15 3/8	18 1/4	—	9/16x1	2
29	22	2 1/2	2	8 1/2	9/16	32 15/16	29 3/16	4 1/2	39 1/2	26	14 13/16	29 5/8	18 3/4	16 5/16	20 1/4	—	3/4x1 1/2	2
32	23 1/2	3	2	9	9/16	36 1/4	32 1/2	5	41 5/8	26	16 7/16	32 7/8	20 3/8	17 15/16	21 7/8	—	3/4x1 1/2	3
36	26	3	2	10 1/2	9/16	40 1/4	36 1/2	5	46 1/4	31	19	38	22 3/8	20 1/2	23 7/8	—	3/4x1 1/2	3
38	27 1/2	3	2	11 1/4	9/16	41 7/8	38	5	49 1/2	32	19 3/4	39 1/2	23 1/8	21 1/4	24 5/8	—	3/4x1 1/2	3
42	30	3	2	12	3/4	46 5/8	42 3/4	5	52 5/8	34	22 1/8	44 1/4	25 1/2	23 5/8	27	—	3/4x1 1/2	3
48	33 1/2	3	2	13	3/4	52 5/8	48 3/4	5	58 5/8	40	25 3/16	50 3/8	28 1/2	26 11/16	30	—	3/4x1 1/2	3
54	37 1/2	3	2	14	3/4	59 7/8	55	5	64 7/8	43	28 5/16	56 5/8	32 1/4	29 13/16	33 3/4	24 9/16	1x2	3
60	41 1/2	3	2	14 1/2	3/4	65 7/8	61	5	70 7/8	47	31 5/16	62 5/8	35 1/4	32 13/16	36 3/4	25 7/8	1x2	3

*FF: Mounting hole size; Sizes 12-48 use two holes per side; Sizes 54 and 60 use three holes per side.

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