MATERIAL SPECIFICATIONS [INCHES, POUNDS, WR² IN LB.-FT.²]

BC-15 FANS

Size	Shaft diameter		Bearings		Wheel		Bare fan weight		
	Arr. 1/9	Arr. 8	Arr. 1/9	Arr. 8	Weight	WR²	Arr. 1/9	Arr. 4	Arr. 8
24	1 15/16	1 11/16	D	B	99	57	708	657	1020
27	1 15/16	1 15/16	D	B	115	82	827	766	1320
30	1 15/16	1 15/16	D	B	137	122	1082	1083	1904
33	2 3/16	2 3/16	D	B	181	192	1367	1390	2250
36	2 7/16	2 7/16	D	B	223	286	1672	1471	2317
40	2 11/16	2 15/16	D	B	310	436	2022	1864	2884
44	2 11/16	2 11/16	D	B	397	726	2434	2090	3301
49	3 7/16	2 15/16	D	B	497	1155	2944	2610	4326
54	3 15/16	3 7/16	D	C	727	1841	3861	—	4893
60	3 15/16	3 15/16	D	E	973	3209	4708	—	6468
66	4 7/16	3 15/16	E	E	1327	5682	5986	—	7558
73	4 7/16	4 7/16	E	E	1573	8379	7350	—	9703

BC-20 FANS

Size	Shaft diameter		Bearings		Wheel		Bare fan weight		
	Arr. 1	Arr. 8	Arr. 1	Arr. 8	Weight	WR²	Arr. 1	Arr. 4	Arr. 8
24	1 15/16	2 3/16	D	C	99	57	763	712	1117
27	2 3/16	1 15/16	D	B	115	82	902	831	1385
30	2 3/16	1 15/16	D	B	137	122	1217	1208	2029
33	2 7/16	2 3/16	D	B	181	192	1539	1545	2405
36	2 11/16	2 7/16	D	B	223	286	1887	1666	2512
40	2 15/16	2 15/16	D	B	310	436	2280	2107	3127
44	3 7/16	3 7/16	D	C	397	726	2793	2380	3786
49	3 7/16	3 15/16	D	E	497	1155	3299	2965	4882
54	3 15/16	3 7/16	D	C	727	1841	4306	—	5338
60	3 15/16	3 15/16	D	E	973	3209	5253	—	7013
66	4 7/16	4 7/16	E	E	1327	5682	6646	—	8406
73	4 7/16	4 15/16	E	E	1576	8379	8128	—	10594
80	—	4 15/16	—	E	2091	12832	—	—	12788
89	—	5 7/16	—	E	2445	18638	—	—	15136

BC-30 FANS

Size	Shaft diameter		Bearings		Wheel		Bare fan weight		
	Arr. 1	Arr. 8	Arr. 1	Arr. 8	Weight	WR²	Arr. 1	Arr. 4	Arr. 8
24	2 3/16	2 3/16	E	C	108	65	812	729	1134
27	2 7/16	2 11/16	E	C	145	93	981	869	1512
30	2 11/16	1 15/16	E	B	169	140	1325	—	2065
33	2 11/16	2 3/16	E	B	196	199	1615	—	2425
36	3 7/16	2 7/16	E	B	249	328	2066	1697	2543
40	3 7/16	2 15/16	E	B	333	493	2443	2135	3155
44	3 15/16	3 7/16	E	C	432	830	2992	2422	3828
49	3 15/16	3 15/16	E	E	536	1294	3504	3010	4927
54	4 7/16	4 7/16	E	E	782	2032	4636	—	5601
60	4 15/16	4 15/16	E	E	1114	3732	5782	—	7448
66	4 15/16	4 7/16	E	E	1448	6379	6886	—	8535
73	5 7/16	5 7/16	E	E	1734	9743	8499	—	10846
80	—	6	—	E	2422	15378	—	—	13582
89	—	6 7/16	—	E	2846	22402	—	—	15969

BC-40 FANS

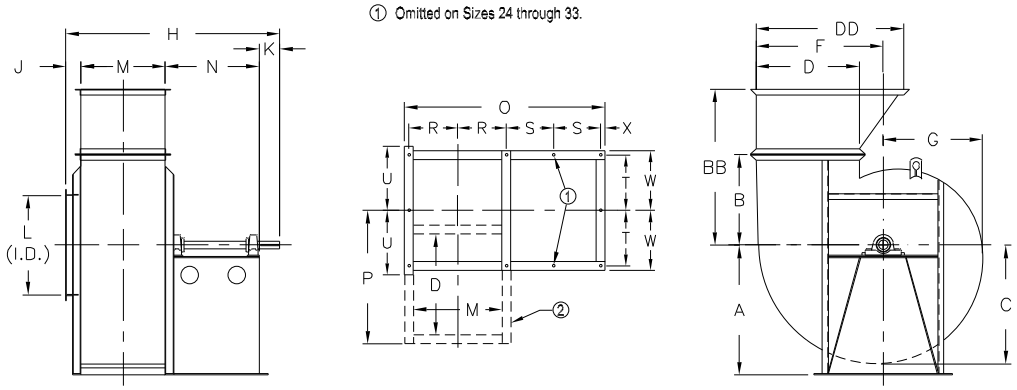
Size	Shaft diameter		Bearings		Wheel		Bare fan weight		
	Arr. 1	Arr. 8	Arr. 1	Arr. 8	Weight	WR²	Arr. 1	Arr. 4	Arr. 8
24	2 7/16	2 3/16	C	C	133	68	881	746	1151
27	2 11/16	2 11/16	C	C	153	98	1041	869	1503
30	2 15/16	2 15/16	C	C	185	148	1418	1256	2235
33	2 15/16	3 7/16	C	C	215	215	1711	1579	2663
36	3 7/16	—	C	—	305	357	2167	—	—
40	3 15/16	2 15/16	E	B	382	573	2556	—	3198
44	—	3 7/16	—	C	462	950	—	2446	3852
49	—	3 15/16	—	E	576	1386	—	3043	4960
54	—	4 7/16	—	E	824	2187	—	—	5636
60	—	4 15/16	—	E	1094	4116	—	—	7420
66	—	4 7/16	—	E	1475	6443	—	—	8554
73	—	5 7/16	—	E	1844	10076	—	—	10862
80	—	6	—	E	2422	15378	—	—	13572
89	—	6 7/16	—	E	2846	22402	—	—	15958

*nyb reserves the right to substitute bearings of equal ratings.

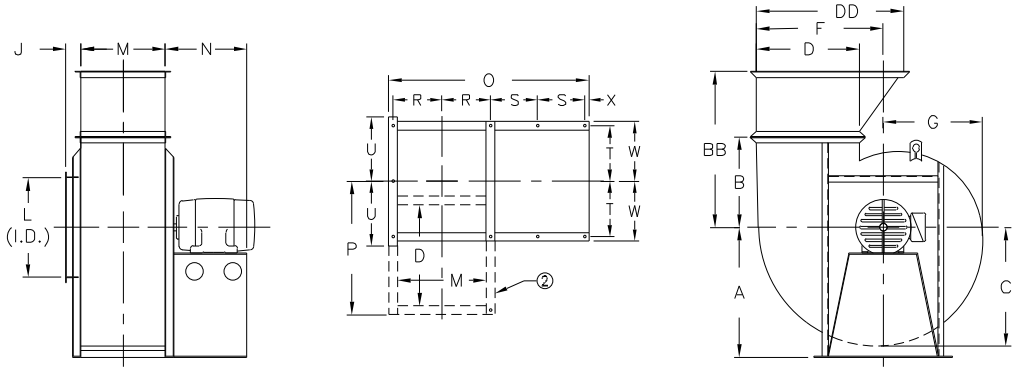
Bearing types: B- Medium Duty Ball, Concentric Lock
C- Heavy Duty Ball, Concentric Lock
D- Spherical Roller, Concentric Lock
E- Split Housing Spherical Roller, Adapter Mount

DRAWINGS Dimensions not to be used for construction unless certified.

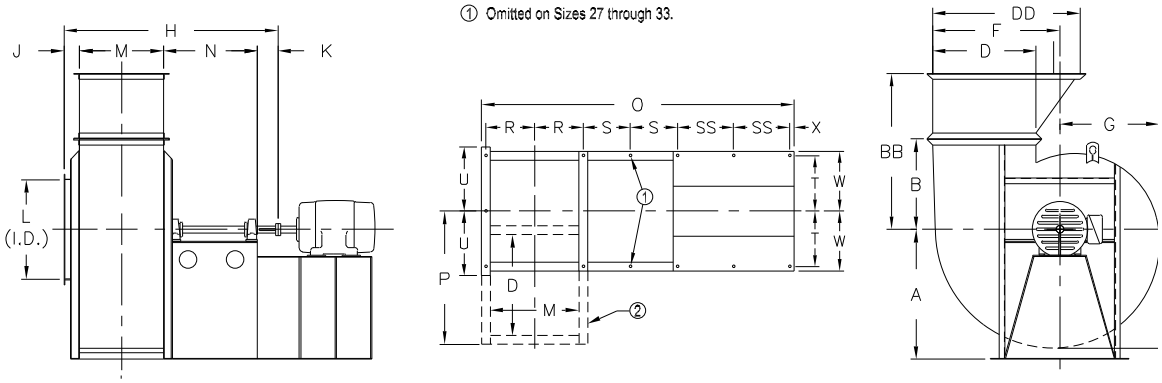
ARRANGEMENT 1/9



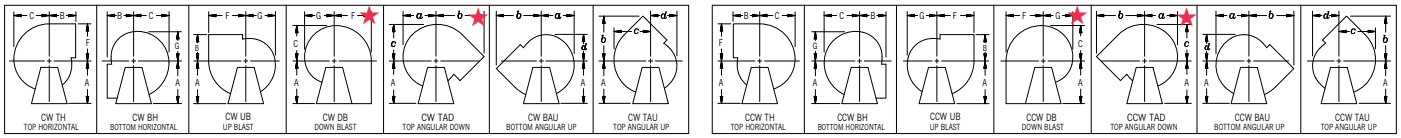
ARRANGEMENT 4



ARRANGEMENT 8



② Base bars form flanged outlet on Down Blast.
M, D, and DD are outside housing dimensions. J is from housing side over inlet. L is inside diameter.



★Down Blast and Top Angular Down discharge positions must be evaluated for clearance of accessories such as a unitary base, outlet damper, evase, ect. Consult **nyb** with specific details.

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

DIMENSIONS [INCHES] Not to be used for construction unless certified.

ARRANGEMENTS 1, 4, 8 AND 9

Size	A							B		BB		C	D	DD	F	G	L	M	P
	TH	TAD	BH	BAU	UB	TAU	DB	*	TAD	*	TAD								
24	21 1/4	21 1/4	30 1/8	30 1/8	23 3/4	23 3/4	19 1/4	19 1/4	28 1/4	44 1/8	69	21 1/4	26 5/16	40 5/16	26 1/16	18 11/16	26 7/8	19 1/2	29 1/16
27	23 1/8	23 1/8	32 3/4	32 3/4	25 7/8	25 7/8	21 1/4	21 3/16	30 15/16	48 15/16	76 11/16	23 3/8	29	44 5/8	28 11/16	20 5/8	29 1/2	21 1/2	31 11/16
30	25 1/2	25 1/2	35 7/8	35 7/8	28 1/2	28 1/2	23 1/2	23 1/2	34 1/4	54 3/8	85 1/4	26	32 1/4	49 11/16	31 7/8	22 15/16	32 7/8	23 7/8	34 7/8
33	27 3/4	27 3/4	39 1/8	39 1/8	31 1/8	31 1/8	25 7/8	25 7/8	37 1/8	59 3/4	93 5/8	28 9/16	35 7/16	54 13/16	35 1/16	25 3/16	36 1/8	26 3/8	39 1/16
36	30 3/8	30 3/8	42 3/4	42 3/4	34 1/8	34 1/8	28 5/8	28 5/8	40 5/8	66 1/8	103 5/8	31 5/8	39 3/16	60 1 1/16	38 3/4	27 7/8	40 1/8	29 1/8	42 3/4
40	33 1/4	33 1/4	46 3/4	46 3/4	37 3/8	37 3/8	31 5/8	31 9/16	44 9/16	72 15/16	114 5/16	34 13/16	43 1/8	66 7/8	42 11/16	30 1 1/16	43 7/8	32 1/8	46 11/16
44	36 1/2	36 1/2	51 1/4	51 1/4	41	41	34 7/8	34 7/8	49 3/8	80 5/8	126 3/8	38 1/2	47 5/8	73 7/8	47 3/16	33 15/16	48 7/8	35 1/2	51 3/16
49	39 7/8	39 7/8	56 1/2	56 1/2	44 7/8	44 7/8	38 1/2	38 7/16	53 7/16	88 13/16	139 3/16	42 5/16	52 3/8	81 9/16	51 15/16	37 5/16	53 7/8	39	55 15/16
54	43 7/8	43 7/8	62	62	49 3/8	49 3/8	42 1/2	42 1/2	58 1/2	98 1/4	154	46 13/16	57 15/16	90 3/16	57 1/2	41 5/16	59 3/8	43 1/4	62 1/2
60	48 1/8	48 1/8	68 1/8	68 1/8	54 3/8	54 3/8	47	47	64	108 5/8	170 1/4	51 13/16	64	99 1 1/16	63 9/16	45 5/8	66 1/8	47 3/4	68 9/16
66	52 3/4	52 3/4	74 3/8	74 3/8	59 1/2	59 1/2	51 3/4	51 3/4	70 1/4	119 5/8	187 1/2	56 15/16	70 3/8	109 1 1/16	69 7/8	50 3/16	72 5/8	52 5/8	74 7/8
73	58	58	81 3/4	81 3/4	65 1/2	65 1/2	57 1/4	57 3/16	76 3/16	132 3/16	207 3/16	62 15/16	77 13/16	121 3/16	77 1/4	55 1/2	80 5/8	58 1/8	82 1/4
80	63 7/8	63 7/8	90	90	72 1/8	72 1/8	63 3/8	63 5/16	82 13/16	146 5/16	229 5/16	69 5/8	86	134	85 7/16	61 3/8	88 5/8	64 3/8	90 7/16
89	70 1/8	70 1/8	98 5/8	98 5/8	79 1/4	79 1/4	69 3/4	69 3/4	89 1/4	161 1/4	252 3/4	76 11/16	94 3/4	147 1 1/16	94 1/8	67 9/16	97 5/8	70 7/8	99 1/8

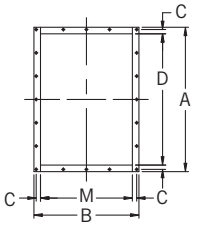
NA – Not available. * For TH, BH, UB, BAU and TAU discharges. For DB discharge, use A dimension for B.

Size	R	U	W	a	b		c	d	H	J	K		N	O	S	T	X	Base holes
					BAU/TAU	TAD			Arr. 1		Arr. 1	Arr. 8	Arr. 1/8	Arr. 1	Arr. 1/8		Arr. 1	
24	11 1/4	18	15 1/2	19 15/16	32	38 1/2	22 9/16	17 7/16	47 1/8	4 5/8	5	5 1/2	18	43 1/4	17 3/4	14	1 1/2	3/4"
27	12 1/4	19 3/8	16 7/8	22	35 1/4	42 1/4	24 7/8	19 1/4	51 5/8	4 5/8	5 1/2	6	20	47 1/4	19 3/4	15 3/8	1 1/2	3/4"
30	13 7/16	21 1/4	18 7/8	24 1/2	39 3/16	46 3/4	27 11/16	21 7/16	56 1/2	4 5/8	6	6	22	51 5/8	21 3/4	17 3/8	1 1/2	3/4"
33	15 3/16	23	21	26 7/8	43 1/16	51 1/8	30 7/16	23 1/2	62	5 1/8	6 1/2	6	24	58 1/8	23 3/4	19	2	3/4"
36	16 9/16	25	22 1/2	29 3/4	47 5/8	56 1/8	33 5/8	26	68 3/8	5 1/8	7 1/8	6	27	63 7/8	13 3/8	20 1/2	2	1"
40	18 1/16	27 1/8	23 1/4	32 3/4	52 1/2	61 3/4	37 1/16	28 5/8	74 7/8	5 1/8	7 5/8	7	30	69 3/4	14 13/16	21 1/4	2	1"
44	19 3/4	29 5/8	25	36 3/16	58	68 3/8	40 15/16	31 5/8	81 3/4	5 1/8	8 1/8	7	33	76 1/8	16 5/16	23	2	1"
49	21 1/2	32 1/4	26	39 13/16	63 7/8	74 1/2	45 1/16	34 13/16	88 3/4	5 1/8	8 5/8	7	36	82 5/8	17 13/16	24	2	1"
54	24 1/8	35 1/4	29 1/2	44 1/16	70 11/16	82	49 13/16	38 1/2	97 7/8	5 5/8	9	7	40	92 7/8	19 13/16	27	2 1/2	1"
60	26 3/8	38 1/2	31 1/2	48 11/16	78 3/16	90 1/4	55 1/8	42 9/16	107 7/8	5 5/8	9 1/2	8	45	102 3/8	22 5/16	29	2 1/2	1"
66	28 13/16	42	33 1/2	53 9/16	86	99 1/8	60 9/16	46 13/16	117 1/8	5 5/8	9 7/8	8	49	111 1/4	24 5/16	31	2 1/2	1"
73	31 9/16	46	35 1/2	59 3/16	95 1/16	108 1/2	67	51 3/4	127 5/8	5 5/8	9 7/8	8	54	121 3/4	26 13/16	33	2 1/2	1"
80	34 11/16	50 1/2	42 1/2	65 1/2	105 3/16	119	74 1/16	57 3/16	—	5 5/8	—	8	60	—	29 13/16	40	—	1"
89	37 15/16	55 1/8	47 1/2	72 1/8	115 7/8	129 3/4	81 5/8	63 1/16	—	5 5/8	—	9	67	—	33 5/16	45	—	1"

NA – Not available. † Dimensions will vary with narrow-width construction. Tolerance: ± 1/8"

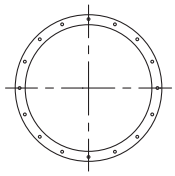
FLANGED OUTLET AND EVASE

1. Mounted flush with edge of housing outlet.
2. Furnished as standard with holes 4" centers from centerline.



FLANGED INLET

Furnished as standard with holes starting on vertical centerline.



DIMENSIONS [INCHES]

Model	A		B†	C	D	M†	Standard holes			
							Sides		†Top/ bottom	Size
	Fan	Evase					Fan	Evase		
24	28 13/16	43 1/4	22	3/4	26 5/16	19 1/2	9	13	5	7/16
27	31 1/2	47 5/8	24	3/4	29	21 1/2	9	13	5	7/16
30	34 3/4	52 5/8	26 3/8	3/4	32 1/4	23 7/8	9	15	5	7/16
33	38 7/16	58	29 3/8	7/8	35 7/16	26 3/8	11	15	7	7/16
36	42 3/16	63 3/4	32 1/8	7/8	39 3/16	29 1/8	11	17	7	7/16
40	46 1/8	70	35 1/8	7/8	43 1/8	32 1/8	13	19	7	7/16
44	50 5/8	77	38 1/2	7/8	47 5/8	35 1/2	13	21	9	7/16
49	56 3/8	85 5/8	43	1 1/8	52 3/8	39	15	23	9	9/16
54	61 15/16	94 1/4	47 1/4	1 1/8	57 15/16	43 1/4	17	23	11	9/16
60	68	103 3/4	51 3/4	1 1/8	64	47 3/4	17	27	11	9/16
66	74 3/8	113 3/4	56 5/8	1 1/8	70 3/8	52 5/8	19	29	13	9/16
73	81 13/16	125 1/4	62 1/8	1 1/8	77 13/16	58 1/8	21	33	15	9/16
80	90	138 1/8	68 3/8	1 1/8	86	64 3/8	23	35	15	9/16
89	98 3/4	151 3/4	74 7/8	1 1/8	94 3/4	70 7/8	25	39	17	9/16

†Dimensions may vary with narrow-width construction. Tolerance: ± 1/8"

DIMENSIONS [INCHES]

Model	Inside diameter	Bolt circle	Outside diameter	Standard holes	
				Number	Diameter
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
40	43 7/8	46 1/8	47 7/8	24	9/16
44	48 7/8	51 1/8	52 7/8	24	9/16
49	53 7/8	56 1/8	57 7/8	24	9/16
54	59 3/8	61 5/8	63 3/8	24	9/16
60	66 1/8	68 3/8	70 1/8	32	9/16
66	72 5/8	74 7/8	76 5/8	32	9/16
73	80 5/8	82 7/8	84 5/8	32	9/16
80	88 5/8	90 7/8	92 5/8	32	9/16
89	97 5/8	99 7/8	101 5/8	32	9/16

Tolerance: ± 1/8"

DIMENSIONS [INCHES] Not to be used for construction unless certified.

DIMENSIONS [INCHES] Arr. 4 and 8

Size	Frame size	N		O†		S		SS	Base holes	
		Arr. 4	Arr. 8	Arr. 4	Arr. 8	Arr. 4	Arr. 8	Arr. 8	Arr. 4	Arr. 8
24	213T	—		—	60 5/8	—		8 5/16		
	215T	—		—	62 1/8	—		9 1/16		
	254T	15 5/8		40 7/8	65 3/4	7 11/16		10 7/8		
	324TS	20		45 1/8	69 3/4	9 13/16		12 7/8		
	326TS	21 1/2	18	46 5/8	71 1/4	10 9/16	17 5/8	13 5/8	7-3/4	11-3/4
	364TS	21 1/4		43 3/4	71 1/8	8 7/8		13 9/16		
	365TS	22 1/4		44 3/4	72 1/8	9 3/8		14 1/16		
	404TS	23		45 1/2	73 3/8	9 3/4		15 1/8		
	405TS	24 1/4		47	74 7/8	10 1/2		15 7/8		
27	254T	15 5/8		42 7/8	70 1/4	7 11/16		11 1/8		
	256T	17 3/8		44 5/8	72	8 9/16		12		
	364TS	21 1/4		45 3/4	75 5/8	8 7/8		13 13/16		
	365TS	22 1/4		46 3/4	76 5/8	9 3/8		14 5/16		
	404TS	23	20	47 1/2	77 7/8	9 3/4	19 5/8	15 3/8	7-3/4	11-3/4
	405TS	24 1/2		49	79 3/8	10 1/2		16 1/8		
	444TS	27 1/4		51 3/4	82 1/2	11 7/8		17 11/16		
	445TS	29 1/4		53 3/4	84 1/2	12 7/8		18 11/16		
	447TS	32 3/4		57 1/4	88	14 5/8		20 7/16		
30	284T	17 3/8		47	77	8 9/16		12 5/16		
	286T	18 7/8		48 1/2	78 1/2	9 5/16		13 1/16		
	324T	20		49 1/2	78 5/8	9 13/16		13 1/8		
	444TS	27 1/4	22	54 1/8	86 7/8	11 7/8	21 5/8	17 11/16	7-3/4	11-3/4
	445TS	29 1/4		56 1/8	88 7/8	12 7/8		18 11/16		
	447TS	32 3/4		59 5/8	92 3/8	14 5/8		20 7/16		
	449TS	37 3/4		64 5/8	97 3/8	17 1/8		22 15/16		
33	324T	20		54	85 5/8	9 13/16		13 5/8		
	326T	21 1/2		55 1/2	87 1/8	10 9/16		14 3/8		
	364T	21 1/4		51 5/8	87 5/8	8 5/8		14 5/8		
	445TS	29 1/4	24	59 5/8	94 3/8	12 7/8	23 5/8	18 3/16	7-3/4	11-3/4
	447TS	32 3/4		63 1/8	97 7/8	14 5/8		19 15/16		
	449TS	37 3/4		68 1/8	102 7/8	17 1/8		22 7/16		

DIMENSIONS [INCHES] Arr. 4 and 8

Size	Frame size	N		O†		S		SS	Base holes
		Arr. 4	Arr. 8	Arr. 4	Arr. 8	Arr. 4	Arr. 8	Arr. 8	Arr. 4
36	364T	21 1/4	27	54 3/8	93 3/8	8 5/8	13 5/16	14 5/8	7-1
	365T	22 1/4		55 3/8	94 3/8	9 1/8		15 1/8	
	404T	23		56 1/8	96 1/2	9 1/2		16 3/8	
	405T	24 1/4		57 5/8	98	10 1/4		17 1/8	
40	444T	27 1/4	30	63 3/8	108 7/8	11 5/8	14 13/16	19 9/16	7-1
	445T	29 1/4		65 3/8	110 7/8	12 5/8		20 9/16	
44	364T	21 1/4	33	60 3/4	106 3/4	8 5/8	16 5/16	15 1/8	7-1
	365T	22 1/4		61 3/4	107 3/4	9 1/8		15 5/8	
	404T	23		62 1/2	109 7/8	9 1/2		16 7/8	
	405T	24 1/2		64	111 3/8	10 1/4		17 5/8	
	444T	27 1/4		66 3/4	115 1/4	11 5/8		19 9/16	
	445T	29 1/4		68 3/4	117 1/4	12 5/8		20 9/16	
49	404T	23	36	66	116 3/8	9 1/2	17 13/16	16 7/8	7-1
	405T	24 1/2		67 1/2	117 7/8	10 1/4		17 5/8	
	444T	27 1/4		70 1/4	121 3/4	11 5/8		19 9/16	
	445T	29 1/4		72 1/4	123 3/4	12 5/8		20 9/16	
	447T	32 3/4		75 3/4	127 1/4	14 3/8		22 5/16	
	449T	37 3/4		80 3/4	132 1/4	16 7/8		24 13/16	
54	444T	—	40	—	131	—	19 13/16	19 1/16	—
	445T	—		—	133	—		20 1/16	
	447T	—		—	136 1/2	—		21 13/16	
60	447T	—	45	—	147	—	22 5/	22 5/16	—
	449T	—		—	152	—		24 13/16	
66 73 80 89	Sizes 66, 73, 80 and 89 Arr. 8 pedestals are designed per job due to non-NEMA frame size motors.								

COMMITMENT TO TECHNICAL EXCELLENCE

Consistent capital investment has resulted in the most modern production equipment and research facilities in the industry. This has allowed New York Blower to provide an unmatched combination of technology and manufacturing expertise in its products. New York Blower fan designs provide the highest aerodynamic efficiencies compatible with specific systems and gas-stream requirements.

Welding and assembly operations.

LAB

New York Blower's AMCA-accredited laboratory and research center ensure the company performs to the highest standards in product development and research including sound, air performance, vibration, finite element analysis, and speed-testing.