

SPECIFICATIONS AND DIMENSIONS

WHEEL WEIGHTS (lbs.) and INERTIA (WR ² = lbs-ft ²)														
Fan Model	Wheel Size (Ref.)	Blade O.D. (Inches)	AcF				PLR						BC	
			Class II		Class III		Class II		Class III		Class IV†		Class II	
			Weight	WR ²	Weight	WR ²	Weight	WR ²	Weight	WR ²	Weight	WR ²	Weight	WR ²
101	12	12 1/2	8	2	NA	NA	15	1	NA	NA	NA	NA	NA	NA
121	13	13 3/4	10	3	NA	NA	18	3	NA	NA	NA	NA	NA	NA
131	15	15 1/4	12	3	NA	NA	21	4	NA	NA	NA	NA	NA	NA
151	16	16 3/4	26	6	27	7	26	6	26	7	NA	NA	NA	NA
161	18	18 1/4	35	10	40	11	36	10	41	11	NA	NA	39	11
181	20	20 1/8	40	15	44	15	44	17	52	18	45	10	50	19
201	22	22 1/4	53	23	54	24	56	25	59	27	55	25	62	28
221	24	24 1/2	72	37	NA	NA	69	34	NA	NA	NA	NA	87	46
241	27	27	82	52	NA	NA	89	58	NA	NA	NA	NA	100	66
271	30	30	99	83	NA	NA	111	95	NA	NA	NA	NA	119	101
301	33	33	112	115	NA	NA	130	138	138	147	NA	NA	136	141

NA - Not Available.

† For stainless steel construction of Models 181 and 201 Class III PLR Square Fans, a Class IV PLR wheel must be substituted for standard Class III wheel to achieve maximum safe speed of 3600 RPM. Contact **nyb**.

OUTLET FLANGE DIMENSIONS (Inches)												
Fan Model	A	B	C	D	M	X	Area (ft ²)	Holes/Flange†		Hole Dia.	Pattern Type	
								Sides	Top/Bottom			
101	12 1/16	10 7/8	11/16	9 13/16	8 5/8	20 5/16	0.59	2	2	9/16	3	
121	14 1/4	12 3/4	11/16	12	10 1/2	24 9/16	0.89	3	3		1	
131	15 3/8	14	11/16	13 1/8	11 3/4	26 7/8	1.08	3	3		1	
151	17 5/8	16 1/16	7/8	14 5/8	13 1/16	30 1/16	1.33	4	3		2	
161	18 13/16	17 3/8	7/8	15 13/16	14 3/8	32 15/16	1.60	4	4		3	
181	20 13/16	18 7/8	7/8	17 13/16	15 7/8	36 1/4	1.96	4	4		3	
201	22 7/16	20 3/8	7/8	19 7/16	17 3/8	39 5/8	2.35	5	4		4	
221	24 5/8	22 3/8	7/8	21 5/8	19 3/8	43 7/8	2.91	5	5		1	
241	26 13/16	24 5/16	7/8	23 13/16	21 5/16	48 1/8	3.52	6	5		2	
271	30 1/4	27 1/2	1 1/8	26 1/4	23 1/2	53 3/8	4.28	7	6		4	
301	33 3/16	30 1/8	1 1/8	29 3/16	26 1/8	59	5.30	7	7	1		

‡ Typical center-to-center distance on holes is 4".

Tolerance: ±1/8"

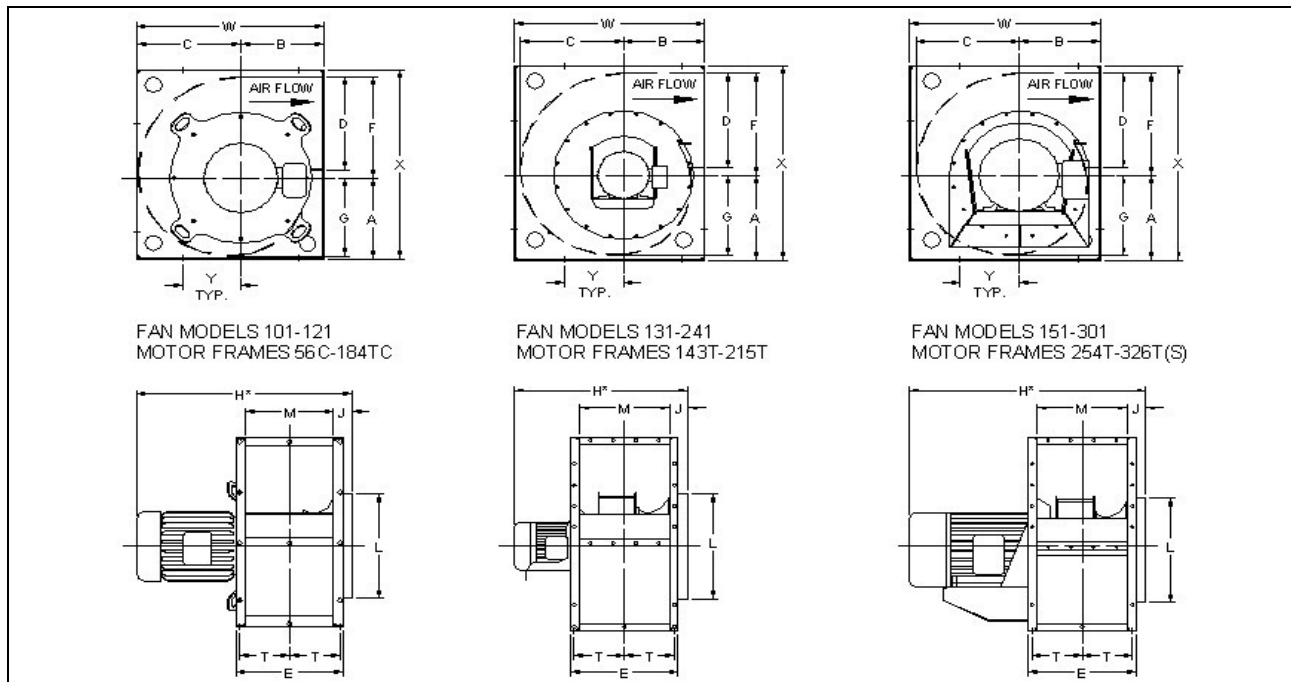
INLET FLANGE DIMENSIONS* (Inches)							
Fan Model	I.D.	B.C.	O.D.	Area (ft ²)	Holes/Slots		
					No.	Size	
101	10 3/4	11 7/8	13	0.63	8	9/16 Dia.	
121	13 3/8	14 13/16	16 3/16	0.98		1/2 x 11/16	
131	14 3/4	16 3/16	18 3/16	1.19		1/2 x 13/16	
151	16 3/8	18	19 3/8	1.46		1/2 x 5/8	
161	18 1/2	19 7/8	21 1/4	1.87		1/2 x 3/4	
181	19 7/8	22	23 3/16	2.15	16	9/16 x 13/16	
201	22 7/16	23 13/16	25 3/16	2.75		9/16 x 27/32	
221	24 3/8	26 1/8	27 3/8	3.24		9/16 Dia.	
241	26 7/8	29 1/16	31 3/16	3.94		9/16 x 5/8	
271	29 7/8	32	34 3/16	4.87		9/16 x 25/32	
301	32 7/8	35 1/4	37 3/16	5.89	9/16 x 11/16		

* Models 101 through 161 - Bolt holes are on centerlines.

Tolerance: ±1/8"

Models 181 Through 301 - Bolt holes straddle centerlines.

DIMENSIONS [inches] AND SPECIFICATIONS



FAN MODELS 101-121
MOTOR FRAMES 56C-184TC

FAN MODELS 131-241
MOTOR FRAMES 143T-215T

FAN MODELS 151-301
MOTOR FRAMES 254T-326T(S)

Model	A	B	C	D	E	F	G	J*	L▲	M	T	W	X	Y
101	8 5/8	8 1/2	10 1/8	9 13/16	10 7/8	10 11/16	8 7/16	1 13/16	10 7/8	8 5/8	5	18 13/16	20 5/16	5 11/16
121	10 1/2	10	12 3/4	12	12 3/4	13 3/16	10 3/16	2 3/16	13 1/2	10 1/2	6	22 1/2	24 9/16	7
131	11 9/16	11	13 9/16	13 1/8	14	14 3/8	11 3/8	2 3/16	14 7/8	11 3/4	6 9/16	24 3/4	26 7/8	8 5/6
151	12 3/4	12	15 1/8	14 5/8	16 1/16	15 15/16	12 5/8	2 3/16	16 1/2	13 1/16	7 7/16	27 1/4	30 1/16	8 9/16
161	14	13	16 7/16	15 13/16	17 3/8	17 9/16	13 3/8	2 3/4	18 5/8	14 3/8	8 1/16	29 3/4	32 15/16	9 3/8
181	15 7/16	14 1/4	18 3/16	17 13/16	18 7/8	19 7/16	15 5/16	2 3/4	20	15 7/8	8 13/16	32 3/4	36 1/4	10 3/8
201	17	15 1/2	19 7/8	19 7/16	20 3/8	21 1/4	16 13/16	2 3/4	22 9/16	17 3/8	9 9/16	35 7/8	39 5/8	11 3/4
221	18 7/8	17	22 1/8	21 5/8	22 3/8	23 5/8	18 5/8	2 3/4	24 1/2	19 3/8	10 9/16	39 9/16	43 7/8	13 1/4
241	20 3/4	18 1/2	24 1/2	23 13/16	24 5/16	26	20 1/2	2 3/4	27	21 5/16	11 9/16	43 5/16	48 1/8	14 3/4
271	22 7/8	20 1/4	26 3/4	26 1/4	27 1/2	28 5/8	22 7/16	2 3/4	30	23 1/2	12 7/8	47 1/2	53 3/8	16 1/2
301	25 5/16	22 1/4	29 11/16	29 3/16	30 1/8	31 13/16	24 7/8	2 13/16	33	26 1/8	14 3/16	52 1/2	59	18 1/2

● Note: Inlet flange increases the "J" dimension by 3/16". ▲ "L" dimension is O.D. of inlet collar. Tolerance: ±1/8"

Model	Motor Frame	H	Bare Fan Weight (lbs.)	Model	Motor Frame	H	Bare Fan Weight (lbs.)	Model	Motor Frame	H	Bare Fan Weight (lbs.)
101	56C	20 5/8	76	161	143/5T	28 1/16	222	201	284/6TS	42 1/2	372
	143/5TC	23	76		182/4T	28 9/16	222		324/6TS	45 1/4	372
121	143/5TC	25 1/8	112		213/5T	32 7/8	222	221	213/5T	37 15/16	454
	182/4TC	25 13/16	112		254/6T	37 11/16	245		254/6T	42 3/4	492
131	143/5T	25 15/16	145	181	182/4T	30 1/8	295	241	213/5T	39 7/8	544
	182/4T	26 1/8	145		213/5T	34 7/16	295		254/6T	44 11/16	567
	213/5T	30 7/16	145		254/6T	39 3/16	317	271	254/6T	45 1/8	722
151	143/5T	26 15/16	195		284/6TS	41	317		284/6T	47 5/8	722
	182/4T	27 7/16	195	201	182/4T	31 5/8	342	284/6T	50 3/8	916	
	213/5T	31 3/4	195		213/5T	35 15/16	342	324/6T	53 1/8	916	
	254/6T	35 13/16	222	254/6T	40	372					

Tolerance: ±1/8"

WHEEL MAXIMUM SAFE SPEEDS (RPM)							
Fan Model	Wheel Size (Reference)	AcF		PLR*			BC
		Class II	Class III	Class II	Class III	Class IV	Class II
101	12	4,800	NA	4,185	NA	NA	NA
121	13	4,250	NA	3,730	NA	NA	NA
131	15	3,740	NA	3,305	NA	NA	NA
151	16	3,420	4,145	3,125	3,870	NA	NA
161	18	3,260	4,110	2,970	3,825	NA	2,970
181	20	2,955	3,730	2,670	3,600	4,140	2,670
201	22	2,740	3,600	2,460	3,600	3,750	2,460
221	24	2,505	NA	2,245	NA	NA	2,245
241	27	2,160	NA	1,990	NA	NA	1,990
271	30	1,935	NA	1,785	NA	NA	1,785
301	33	1,755	NA	1,605	2,025	NA	1,605

NA - Not Available.

* Maximum safe speeds for Models 181 and 201 Class III PLR wheels apply to standard carbon steel and aluminum wheels only. Stainless steel wheels require Class IV wheel construction to achieve 3600 RPM operating speed.