

# ARRANGEMENT 4/4F/4H/4V ENGINEERING AND SELECTION

CHART III ALTITUDE [ft.] CORRECTIONS		CHART IV TEMPERATURE CORRECTIONS		CHART V RAREFICATION CORRECTIONS		CHART VII MAXIMUM WHEEL SAFE SPEEDS [RPM]† ACOUSTAFOIL AND PLR AT 70°F. [100% WIDTH]							
Alt.	Factor	Temp. °F.	Factor	Neg. inlet pressure "WG	Factor	Size	Class II		Class III		Class IV		
							AcF	PLR	AcF	PLR	AcF	PLR	
0	1.00	-25	.82										
500	1.02	0	.87	15	1.04	10*	4900	5195	NA	NA	NA	NA	
1000	1.04			20	1.05	12*	4900	4270	NA	NA	NA	NA	
1500	1.06	20	.91	25	1.07	13*	4330	3800	NA	NA	NA	NA	
2000	1.08	40	.94	30	1.08	15*	3800	3360	NA	NA	NA	NA	
2500	1.10			35	1.09	16	3385	3090	4100	3830	NA	NA	
3000	1.12	60	.98	40	1.11	18	3005	2735	3790	3525	OA	OA	
3500	1.14	70	1.00	45	1.12	20	2780	2510	3510	3200	3895	3895	
4000	1.16			50	1.14	22	2570	2305	3240	2900	3520	3520	
4500	1.18	80	1.02	<b>CHART VI TEMP. DERATES FOR WHEEL SAFE SPEEDS</b>		24	2335	2090	2940	2635	3205	3205	
5000	1.20	100	1.06			27	2010	1850	2530	2325	2905	2905	
5500	1.22					30	1805	1665	2275	2095	OA	OA	
6000	1.25	120	1.09			Temp. °F.	Wheel Material	33	1650	1515	2080	1905	OA
7000	1.30	140	1.13		Steel	Alum.	36	1450	1360	1825	1715	2145	2145
8000	1.35			70	1.00	1.00	40	1315	1235	1655	1555	1945	1945
9000	1.40	160	1.17	120	0.99	0.99	44	1190	1120	1495	1410	1800	1800
10000	1.45	180	1.21	180	0.98	0.98	49	1105	1020	1395	1280	1600	1600

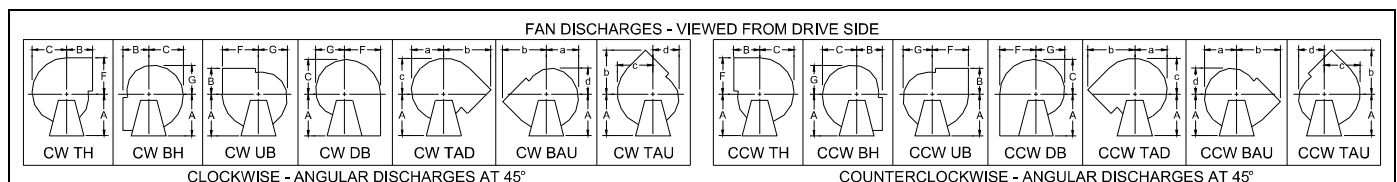
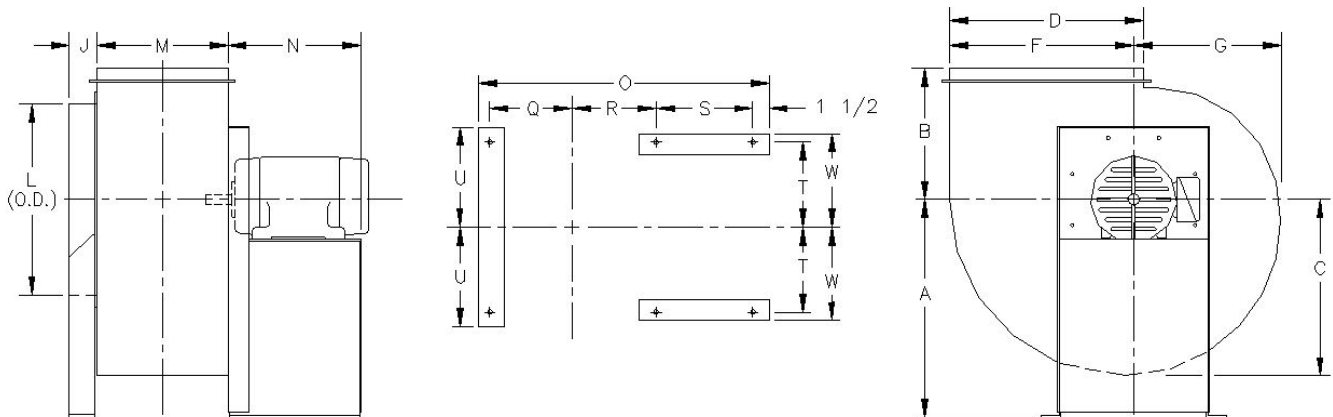
† Maximum safe speeds apply only to wheels operated at or below stated temperature and free of material build-up, corrosion or wear.

\* Sizes 10-15 AcustaFoil wheels are aluminum.

NA - Not Available

OA - On Application

## ARR. 4 DIMENSIONS [INCHES] Not to be used for construction unless certified.



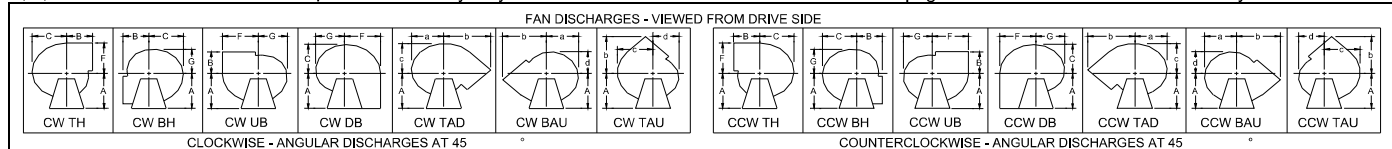
Down Blast and Top Angular Down discharge positions must be evaluated for clearance of accessories such as outlet damper, etc. Consult **nyb** with specific details.

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

# ARR. 4 DIMENSIONS [INCHES] Not to be used for construction unless certified.

Size	Frame	A	B #	B TAD	B DB	C	D	F	G	J	L CL. 2	L CL. 3/4	M†	N								
10	56	12	8 1/2	10 1/2	12	10 1/8	11 1/4	10 5/8	8 1/2	2 1/2	10 1/2	-	8 1/8	9 7/8								
	143/5T 182T	13																				
12	56	15 1/2	10	13	15 1/2	12 3/8	13 5/8	13	10 3/8	2 1/8	13 1/2	-	9 3/8	10 7/8								
	143/5T 182/4T	16 1/2																				
13	56	15 1/2	11	15	15 1/2	13 5/8	15 1/8	14 1/4	11 3/8	2 1/8	14 7/8	-	10 3/8	10 7/8								
	143/5T 182/4T	16 1/2																				
15	143/5T	17 1/2	12	16	17 1/2	15 1/8	16 3/4	15 7/8	12 5/8	3 1/8	16 1/2	-	11 3/8	13 1/8								
	182/4T	18 1/2			18 1/2																	
	213/5T	19 1/4			19 1/4																	
16	143/5T	19 1/4	13	17	19 1/4	16 5/8	18 1/2	17 1/2	14	3 1/8	18 5/8	19	12 1/4	13 1/8								
	182/4T	20 1/4			20 1/4																	
	213/5T	21			21									18 3/8	20 1/2	19 3/8	15 3/8	3 1/8	20	20 3/4	13 7/8	18 3/8
	254/6T																					
18	143/5T	21 1/4	14	18	21 1/4	18 3/8	20 1/2	19 3/8	15 3/8	3 1/8	20	20 3/4	13 7/8	18 3/8								
	182/4T	22			22																	
	213/5T	23			23																	
	254/6T	23 3/4			23 3/4																	
284/6T 284/6TTS																						
20	182/4T	23 1/4	15 1/2	19 1/2	23 1/4	20 3/8	22 1/2	21 3/8	17	3 1/8	22 3/8	22 1/2	15	18 3/8								
	213/5T	24			24																	
	254/6T	25			25																	
	284/6T	25 3/4			25 3/4																	
	284/6TTS																					
324TS	23 1/4	23 1/4	18 3/8																			
22	182/4T	25 1/2	17	21	25 1/2	22 1/2	24 7/8	23 5/8	18 3/4	3 1/8	24 1/2	25 1/8	16 7/8	18 3/8								
	213/5T	26 1/4			26 1/4																	
	254/6T	27 1/4			27 1/4																	
	284/6T	28			28																	
	284/6TTS																					
324/6TTS 364TS	26	26	20 1/2 21 3/8																			
24	184T	28	19	23	28	24 3/4	27 3/8	26	20 5/8	4 1/8	27	27 5/8	18 1/2	18 3/8								
	213/5T	29			29																	
	254/6T	29 3/4			29 3/4																	
	284/6T																					
	284/6TTS	28 5/8			28 5/8									20 1/2 21 3/8								
324/6TTS 364/5TTS																						
27 Cl. 2	184T	30 1/2	20 1/2	24 1/2	30 1/2	27 1/4	30 1/4	28 5/8	22 3/4	4 1/8	30	30 1/4	20 3/8	18 3/8								
	213/5T	31 1/2			31 1/2																	
	254/6T	32 1/4			32 1/4																	
	284/6T 324/6T																					
27 Cl. 3/4	324/6T	31 1/8	20 1/2	24 1/2	31 1/8	27 1/4	30 1/4	28 5/8	22 3/4	4 1/8	30	30 1/4	20 3/8	20 1/8 20 1/2 21 3/8 23 5/8								
	324/6TTS																					
	364/5TTS																					
	404/5TTS																					
30	254/6T	33 3/4	22 1/2	26 1/2	33 3/4	30 1/4	33 1/2	31 3/4	25 3/8	4 1/8	33	33 5/8	22 5/8	20 1/8								
	284/6T	34 1/2			34 1/2																	
	324/6T	35 1/2			35 1/2																	
33	254/6T	37 3/4	24 1/2	28 1/2	37 3/4	33 3/8	36 7/8	35	28	4 1/8	36 1/2	36 7/8	24 7/8	20 1/8								
	284/6T	38 1/2			38 1/2																	
	324/6T	39 1/2			39 1/2																	
	364/5T	37 3/4			37 3/4									21 3/8								
36 Cl. 2	284/6T	42	29	33	42	36 7/8	40 3/4	38 3/4	30 7/8	5	40	-	27	19								
	324/6T												27 1/2	20 1/2								
	364/5T												21 3/8									

#For TH, BH, UB, BAU, and TAU. DB fan discharge is extended to floor line. Standard outlet flange is supplied. J is from housing side over inlet collar. Tolerance ± 1/8" D, L, and M are outside dimensions. † Dimensions may vary with narrow-width construction. See Chart II on page 6 for motor frame size limitations by size and class.



Down Blast and Top Angular Down discharge positions must be evaluated for clearance of accessories such as outlet damper, etc. Consult nyb with specific details.

# ARR. 4 DIMENSIONS [INCHES] Not to be used for construction unless certified.

Size	Frame	O† CI 2	O† CI 3/4	Q† CI 2	Q† CI 3/4	R†	S	T	U	W	a	b BAU/TAU	b TAD	c	d	Base holes
10	56 143/5T 182T	21*	--	53/4*	--	63/8	57/8	6	7 1/8*	63/4	91/2	135/8	15	101/2	75/8	9/16
12	56 143/5T 182/4T	231/4*	-	63/8*	--	7	67/8	71/2	85/8*	81/4	115/8	161/4	183/8	127/8	91/4	9/16
13	143/5T 182/4T	241/4*	-	67/8*	--	71/2	67/8	71/2	85/8*	81/4	125/8	177/8	203/4	141/8	101/4	9/16
15	143/5T 182/4T 213/5T	271/2*	-	73/8*	--	8	91/8	83/4	101/2*	91/2	141/8	193/4	221/2	153/4	113/8	9/16
16	143/5T 182/4T 213/5T 254/6T	283/8	281/2	77/8	8	81/2	91/8	83/4	101/2	91/2	151/2	215/8	241/2	171/4	121/2	9/16
		333/4	333/4				143/8									
18	143/5T 182/4T 213/5T 254/6T 284/6T 284/6TS	351/4	353/8	85/8	83/4	91/4	143/8	103/8	111/2	111/8	171/4	235/8	261/2	191/8	137/8	9/16
20	182/4T 213/5T 254/6T 284/6T 284/6TS 324TS	363/8	361/2	91/4	93/8	97/8	143/8	103/8	111/2	111/8	187/8	261/8	29	211/8	151/4	9/16
		-	381/2	-	91/4		161/8	93/8	111/8	101/4						
22	182/4T 213/5T 254/6T 284/6T 284/6TS 324/6TS 364TS	381/4	383/8	101/8	101/4	103/4	143/8	103/8	111/2	111/8	21	283/4	311/2	231/4	163/4	9/16
		-	403/8	-			161/8	107/8	125/8	113/4						
24	184T 213/5T 254/6T 284/6T 284/6TS 324/6TS 364/5TS	397/8	40	11	111/8	115/8	143/8	121/4	131/2	131/2	231/8	317/8	345/8	255/8	181/2	3/4
		-	43	-	111/2		161/8		143/8							
27 Cl. 2	184T 213/5T 254/6T 284/6T 324/6T	413/4	417/8	117/8	12	121/2	143/8	135/8	147/8	147/8	253/8	343/4	371/2	281/4	203/8	3/4
		433/8	-		--		157/8									
27 Cl. 3/4	324/6T 324/6TS 364/5TS 404/5TS	-	447/8	-	121/2	121/2	161/8	151/2	151/2	151/2	151/2	151/2	151/2	151/2	151/2	151/2
		-	453/4		-		17									
30	254/6T 284/6T 324/6T	455/8	453/4	13	131/8	133/4	157/8	143/4	16	16	281/4	383/8	411/4	313/8	225/8	3/4
		-	501/4	-	143/4	17	16	181/4	171/4							
36 Cl. 2	284/6T 324/6T 364/5T	491/4	-	153/16	--	157/8	145/8	171/2	19	19	343/8	477/8	477/8	381/4	271/2	3/4
		511/4		157/16		161/8	17									
		521/8														

\*O, Q, and U dimension is given if inlet hanger option is selected. DB fan discharge is extended to floor line. Standard outlet flange is supplied. Tolerance ± 1/8"  
 † Dimensions may vary with narrow-width construction. See Chart II on page 6 for motor frame size limitations by size and class.

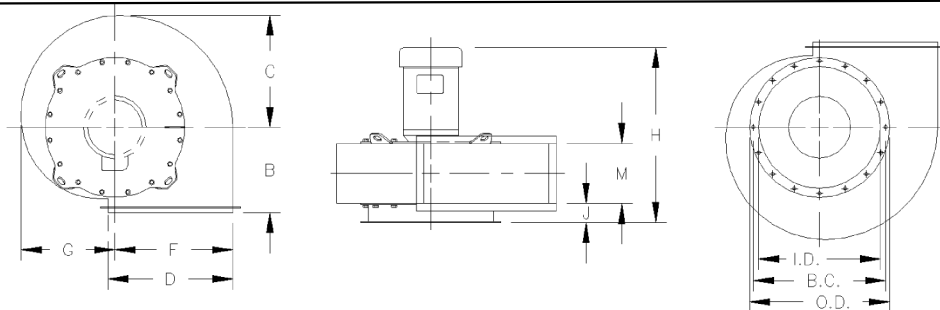
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**ARR. 4 DIMENSIONS [INCHES]** Not to be used for construction unless certified.

Size	Cl.	Motor Frame	A				B		C	D	F	G	H	J	L		M																
			TH, TAD	BH, BAU	UB, TAU	DB	*	TAD							Cl. 2	Cl. 3,4	Cl. 2	Cl. 3,4															
36 (Cl. 3,4)	3	324T	33	42	39	29	29	41 <sup>3</sup> / <sub>4</sub>	36 <sup>7</sup> / <sub>8</sub>	40 <sup>3</sup> / <sub>4</sub>	38 <sup>3</sup> / <sub>4</sub>	30 <sup>7</sup> / <sub>8</sub>	5	--	41	-	27 <sup>1</sup> / <sub>2</sub>																
		326T																52 <sup>1</sup> / <sub>2</sub>	54														
	3,4	364T																53 <sup>3</sup> / <sub>4</sub>	57														
		365T																54 <sup>3</sup> / <sub>4</sub>															
	3,4	404T																55 <sup>1</sup> / <sub>2</sub>	57														
		405T																57															
40	2	324T	36	46	43	31	31	45 <sup>1</sup> / <sub>4</sub>	40 <sup>3</sup> / <sub>4</sub>	44 <sup>7</sup> / <sub>8</sub>	42 <sup>3</sup> / <sub>4</sub>	34 <sup>1</sup> / <sub>8</sub>	5	44 <sup>3</sup> / <sub>4</sub>	44 <sup>3</sup> / <sub>4</sub>	29 <sup>7</sup> / <sub>8</sub>	--																
		326T																53 <sup>3</sup> / <sub>8</sub>	56 <sup>7</sup> / <sub>8</sub>														
	2-4	364T														56 <sup>5</sup> / <sub>8</sub>	-	30 <sup>3</sup> / <sub>8</sub>															
		365T														57 <sup>5</sup> / <sub>8</sub>																	
		404T														58 <sup>3</sup> / <sub>8</sub>																	
		405T														59 <sup>7</sup> / <sub>8</sub>																	
	3,4	444T														62 <sup>5</sup> / <sub>8</sub>	-	30 <sup>3</sup> / <sub>8</sub>															
		445T														64 <sup>5</sup> / <sub>8</sub>																	
		44														2			364T	40	50	47	33 <sup>1</sup> / <sub>2</sub>	33 <sup>1</sup> / <sub>2</sub>	45	49 <sup>5</sup> / <sub>8</sub>	47 <sup>1</sup> / <sub>4</sub>	37 <sup>3</sup> / <sub>4</sub>	5	49 <sup>3</sup> / <sub>4</sub>	49 <sup>3</sup> / <sub>4</sub>	33	--
																			365T														
2-4	404T	61 <sup>1</sup> / <sub>2</sub>	-	33 <sup>1</sup> / <sub>2</sub>																													
	405T	63																															
	444T	65 <sup>3</sup> / <sub>4</sub>																															
	445T	67 <sup>3</sup> / <sub>4</sub>																															
3,4	447T	71 <sup>1</sup> / <sub>4</sub>	-	33 <sup>1</sup> / <sub>2</sub>																													
	49	2			404T	43 <sup>1</sup> / <sub>2</sub>	55	51 <sup>1</sup> / <sub>2</sub>	36	36	53 <sup>1</sup> / <sub>4</sub>	49 <sup>1</sup> / <sub>2</sub>	54 <sup>5</sup> / <sub>8</sub>	52	41 <sup>1</sup> / <sub>2</sub>	5	54 <sup>3</sup> / <sub>4</sub>	54 <sup>3</sup> / <sub>4</sub>	35 <sup>3</sup> / <sub>8</sub>													--	
					405T																												64 <sup>7</sup> / <sub>8</sub>
	2-4	444T			69 <sup>1</sup> / <sub>8</sub>														-													36 <sup>7</sup> / <sub>8</sub>	
445T		71 <sup>1</sup> / <sub>8</sub>																															
3,4	447T	74 <sup>5</sup> / <sub>8</sub>	-	36 <sup>7</sup> / <sub>8</sub>																													

Size	Cl.	Motor Frame	N	O	Q	R	S	T	U	V	W	a	b		c	d	Base holes															
													BAU/TAU	TAD																		
36 (Cl. 3,4)	3	324T	20	53 <sup>1</sup> / <sub>2</sub>	15 <sup>15</sup> / <sub>16</sub>	15 <sup>1</sup> / <sub>4</sub>	10	17 <sup>1</sup> / <sub>2</sub>	24 <sup>1</sup> / <sub>2</sub>	16	19	34 <sup>3</sup> / <sub>8</sub>	47 <sup>7</sup> / <sub>8</sub>	57 <sup>1</sup> / <sub>4</sub>	38 <sup>1</sup> / <sub>4</sub>	27 <sup>1</sup> / <sub>2</sub>	7 <sup>7</sup> / <sub>8</sub>															
		326T	21 <sup>1</sup> / <sub>2</sub>	55														10 <sup>3</sup> / <sub>4</sub>														
	3,4	364T	21 <sup>1</sup> / <sub>4</sub>	54 <sup>3</sup> / <sub>4</sub>														10 <sup>5</sup> / <sub>8</sub>														
		365T	22 <sup>1</sup> / <sub>4</sub>	55 <sup>3</sup> / <sub>4</sub>														11 <sup>1</sup> / <sub>8</sub>														
	3,4	404T	23	56 <sup>1</sup> / <sub>2</sub>														11 <sup>1</sup> / <sub>2</sub>														
		405T	24 <sup>1</sup> / <sub>2</sub>	58														12 <sup>1</sup> / <sub>4</sub>														
40	2	324T	20	56 <sup>3</sup> / <sub>8</sub>	16 <sup>7</sup> / <sub>16</sub>	16 <sup>7</sup> / <sub>16</sub>	10	19	26 <sup>1</sup> / <sub>4</sub>	17 <sup>1</sup> / <sub>2</sub>	20 <sup>1</sup> / <sub>2</sub>	38	52 <sup>1</sup> / <sub>8</sub>	62 <sup>1</sup> / <sub>4</sub>	42 <sup>1</sup> / <sub>8</sub>	30	7 <sup>7</sup> / <sub>8</sub>															
		326T	21 <sup>1</sup> / <sub>2</sub>	57 <sup>7</sup> / <sub>8</sub>														10 <sup>3</sup> / <sub>4</sub>														
	2-4	364T	21 <sup>1</sup> / <sub>4</sub>	57 <sup>5</sup> / <sub>8</sub>														10 <sup>5</sup> / <sub>8</sub>														
		365T	22 <sup>1</sup> / <sub>4</sub>	58 <sup>5</sup> / <sub>8</sub>														11 <sup>1</sup> / <sub>8</sub>														
		404T	23	59 <sup>3</sup> / <sub>8</sub>														11 <sup>1</sup> / <sub>2</sub>														
		405T	24 <sup>1</sup> / <sub>2</sub>	60 <sup>7</sup> / <sub>8</sub>														12 <sup>1</sup> / <sub>4</sub>														
	3,4	444T	27 <sup>1</sup> / <sub>4</sub>	63 <sup>5</sup> / <sub>8</sub>														13 <sup>5</sup> / <sub>8</sub>														
		445T	29 <sup>1</sup> / <sub>4</sub>	65 <sup>5</sup> / <sub>8</sub>														14 <sup>5</sup> / <sub>8</sub>														
		44	2	364T														21 <sup>1</sup> / <sub>4</sub>	60 <sup>3</sup> / <sub>4</sub>	18 <sup>1</sup> / <sub>4</sub>	18 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>2</sub>	21	28 <sup>3</sup> / <sub>4</sub>	19 <sup>1</sup> / <sub>2</sub>	22 <sup>1</sup> / <sub>2</sub>	42	57	68	46 <sup>1</sup> / <sub>2</sub>	33 <sup>5</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>
				365T														22 <sup>1</sup> / <sub>4</sub>	61 <sup>3</sup> / <sub>4</sub>													
2-4	404T	23	62 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>2</sub>																												
	405T	24 <sup>1</sup> / <sub>2</sub>	64	12 <sup>1</sup> / <sub>4</sub>																												
	444T	27 <sup>1</sup> / <sub>4</sub>	66 <sup>3</sup> / <sub>4</sub>	13 <sup>5</sup> / <sub>8</sub>																												
	445T	29 <sup>1</sup> / <sub>4</sub>	68 <sup>3</sup> / <sub>4</sub>	14 <sup>5</sup> / <sub>8</sub>																												
3,4	447T	32 <sup>3</sup> / <sub>4</sub>	72 <sup>1</sup> / <sub>4</sub>	16 <sup>3</sup> / <sub>8</sub>																												
	49	2	404T	23	65 <sup>7</sup> / <sub>8</sub>	19 <sup>3</sup> / <sub>16</sub>	19 <sup>3</sup> / <sub>16</sub>	11 <sup>1</sup> / <sub>2</sub>	23	31 <sup>1</sup> / <sub>4</sub>	21 <sup>1</sup> / <sub>2</sub>	24 <sup>1</sup> / <sub>2</sub>	46 <sup>1</sup> / <sub>8</sub>	62 <sup>1</sup> / <sub>4</sub>	74 <sup>3</sup> / <sub>8</sub>	51 <sup>1</sup> / <sub>4</sub>	36 <sup>1</sup> / <sub>2</sub>	7 <sup>7</sup> / <sub>8</sub>														
			405T	24 <sup>1</sup> / <sub>2</sub>	67 <sup>3</sup> / <sub>8</sub>														12 <sup>1</sup> / <sub>4</sub>													
	2-4	444T	27 <sup>1</sup> / <sub>4</sub>	70 <sup>1</sup> / <sub>8</sub>	13 <sup>5</sup> / <sub>8</sub>																											
445T		29 <sup>1</sup> / <sub>4</sub>	72 <sup>1</sup> / <sub>8</sub>	14 <sup>5</sup> / <sub>8</sub>																												
3,4	447T	32 <sup>3</sup> / <sub>4</sub>	75 <sup>5</sup> / <sub>8</sub>	16 <sup>3</sup> / <sub>8</sub>																												

# ARR. 4F/4H/4V DIMENSIONS [INCHES] Not to be used for construction unless certified.



Size	Frame	B	C	D	F	G	H†		J‡	M
							with Flange	Flush Mount		
10	143/145TC	8 1/2	10 3/16	11 5/16	10 11/16	8 9/16	22 1/4	19 3/4	2 1/2	8 1/8
12	143/145TC 182/184TC	10	12 3/8	13 3/4	13	10 3/8	23 1/8 26 1/8	21 24	2 1/8	9 3/8
13	143/145TC 182/184TC	11	13 5/8	15 3/16	14 5/16	11 7/16	24 1/8 27 1/8	22 25		10 3/8
15	143/145TC 182/184TC 213/215TC	12	15 1/8	16 7/8	15 7/8	12 11/16	26 1/8 29 1/8 30 3/8	23 26 27 1/4	3 1/8	11 3/8
16	143/145TC 182/184TC 213/215TC 254/256TC	13	16 3/4	18 1/2	17 9/16	14 1/16	27 30 31 1/4 35 3/8	23 7/8 26 7/8 28 1/8 32 1/4		12 1/4
18	143/145TC 182/184TC 213/215TC 254/256TC 284/286TC&TSC	14	18 1/2	20 7/16	19 7/16	15 1/2	28 5/8 31 5/8 32 7/8 36 1/2 40 1/2	25 1/2 28 1/2 29 3/4 33 3/8 37 3/8		13 7/8
20	182/184TC 213/215TC 254/256TC 284/286TC&TSC	15 1/2	20 7/16	22 1/2	21 7/16	17 1/8	32 3/4 34 37 5/8 41 5/8	29 5/8 30 7/8 34 1/2 38 1/2		15
22	182/184TC 213/215TC 254/256TC 284/286TC&TSC 324/326TC	17	22 9/16	24 13/16	23 11/16	18 7/8	34 5/8 35 7/8 39 1/2 43 1/2 46 1/2	31 1/2 32 3/4 36 3/8 40 3/8 43 3/8	4 1/8	16 7/8
24	213/215TC 254/256TC 284/286TC&TSC 324/326TC	19	24 13/16	27 5/16	26 1/16	20 3/4	38 1/2 42 1/8 46 1/8 48 1/8	34 3/8 38 42 44		18 1/2
27	213/215TC 254/256TC 284/286TC 324/326TC	20 1/2	27 5/16	30 3/16	28 11/16	22 7/8	40 3/8 44 48 50	36 1/4 39 7/8 43 7/8 45 7/8		20 3/8
30	254/256TC 284/286TC 324/326TC	22 1/2	30 7/16	33 7/16	31 15/16	25 1/2	46 1/4 50 1/4 52 1/4	42 1/8 46 1/8 48 1/8	22 5/8	
33	254/256TC 284/286TC 324/326TC	24 1/2	33 1/2	36 13/16	35 1/8	28 1/16	48 1/2 52 1/2 54 1/2	44 3/8 48 3/8 50 3/8	24 7/8	

† For reference only; will vary across motor manufacturers.

‡ For Arr. 4H/4V fans only.

INLET DIMENSIONS	Size	Flanged Inlet (Standard) 4H/4V				Flush Mount 4F			
		I.D.	B.C.	O.D.	Hole*		B.C.	Hole**	
					Qty.	Dia.		Qty.	Dia.
	10	10 5/16	11 7/8	12 7/8	8	7/16	14 1/4	7	7/16
	12	13 1/2	14 5/8	15 1/2			16 7/8		
	13	14 13/16	15 7/8	16 13/16			18 3/8		
	15	16 3/8	17 7/8	19 3/8			20 1/8		
	16	18 1/4	19 5/8	21 1/4			22		
	18	20	21 3/4	23	16	9/16	24 1/2	15	9/16
	20	21 3/4	23 1/2	24 3/4			26 1/4		
	22	24 3/8	26 1/8	27 3/8			28 7/8		
	24	26 7/8	29 1/8	30 7/8			32 1/2		
	27	29 1/2	31 3/4	33 1/2			35 1/8	16	3/4
	30	32 7/8	35 1/8	36 7/8			38 1/2		
	33	36 1/8	38 3/8	40 1/8			41 3/4		

\*Holes on centerlines.

\*\*Sizes 10-16 holes straddle centerlines. Sizes 18-33 holes on centerlines.