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ENGINEERING SUPPLEMENT  
ES-133  
June 2007

**ARRANGEMENT 9 SINGLE-WIDTH ACOUSTAFOIL® /PLR FANS  
V-BELT DRIVE  
Minimum-Maximum Center-to-Center Distances [in inches]**

- All belt center distances shown are in inches.
- For belt center distances or specific drive information for motor frame sizes not shown below, consult **nyb**.
- Consult nyb for assistance calculating minimum Arrangement 1 belt center distances.
- Consult the product bulletin to determine minimum/maximum motor size capability.

**Class I and II Fans with Standard TEFC and ODP Motors**

Size	Motor Frame Size																							
	56			143T-145T			182T-184T			213T-215T			254T-256T			284T-286T			324T-326T			364T-365T		
	Mini-mum	Maximum		Mini-mum	Maximum		Mini-mum	Maximum		Mini-mum	Maximum		Mini-mum	Maximum		Mini-mum	Maximum		Mini-mum	Maximum		Mini-mum	Maximum	
	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
12	13.1	14.7	14.8	13.2	--	14.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	14.5	17.1	17.3	14.6	16.0	17.2	16.2	--	17.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	15.1	19.6	19.6	15.2	18.7	19.5	16.7	19.2	20.0	17.9	--	20.5	--	--	--	--	--	--	--	--	--	--	--	--
22	16.3	23.7	23.7	16.3	22.5	23.6	17.9	22.9	23.9	19.0	21.7	24.3	20.5	22.3	24.7	21.4	--	25.1	--	--	--	--	--	--
24	17.5	26.4	26.4	17.5	25.2	26.3	19.1	25.5	26.6	20.2	24.2	26.9	21.6	24.7	27.3	22.5	24.3	27.7	--	--	--	--	--	--
27	18.2	29.0	29.0	18.3	27.6	28.8	19.8	27.9	29.1	20.9	26.4	29.3	22.4	26.8	29.6	23.3	26.3	29.8	24.9	26.8	30.6	--	--	--
30	18.4	31.2	31.2	18.4	30.2	31.0	19.9	30.4	31.4	21.1	28.6	31.4	22.6	28.9	31.6	23.4	28.3	31.8	25.1	28.5	32.8	26.3	27.9	33.0
33	--	--	--	--	--	--	22.2	34.3	35.2	23.4	32.5	35.2	24.8	32.8	35.4	25.7	32.1	35.5	27.3	32.3	36.7	28.5	31.5	36.9
36	--	--	--	--	--	--	--	--	--	23.2	36.4	39.5	24.7	36.5	39.6	25.6	35.6	39.6	27.2	35.5	40.4	28.4	34.4	40.6

**Class I and II Fans with Explosion-Proof Motors**

Size	Motor Frame Size																							
	56			143T-145T			182T-184T			213T-215T			254T-256T			284T-286T			324T-326T			364T-365T		
	Mini-mum	Maximum		Mini-mum	Maximum		Mini-mum	Maximum		Mini-mum	Maximum		Mini-mum	Maximum		Mini-mum	Maximum		Mini-mum	Maximum		Mini-mum	Maximum	
	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
12	13.1	13.9	14.8	13.2	--	14.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	14.5	16.2	17.3	14.6	15.2	17.2	16.2	--	17.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	15.1	18.9	19.6	15.2	17.6	19.5	16.7	18.2	20.0	17.9	--	20.5	--	--	--	--	--	--	--	--	--	--	--	--
22	16.3	22.7	23.7	16.3	21.3	23.6	17.9	21.7	23.9	19.0	21.2	24.3	20.5	21.9	24.7	21.4	--	25.1	--	--	--	--	--	--
24	17.5	25.4	26.4	17.5	24.0	26.3	19.1	24.3	26.6	20.2	23.7	26.9	21.6	24.2	27.3	22.5	--	27.7	--	--	--	--	--	--
27	18.2	27.8	29.0	18.3	26.3	28.8	19.8	26.6	29.1	20.9	25.8	29.3	22.4	26.3	29.6	23.3	24.9	29.8	24.9	25.9	30.6	--	--	--
30	18.4	30.4	31.2	18.4	28.8	31.0	19.9	29.0	31.4	21.1	28.0	31.4	22.6	28.4	31.6	23.4	26.6	31.8	25.1	27.4	32.8	26.3	27.5	33.0
33	--	--	--	--	--	--	22.2	32.9	35.2	23.4	31.9	35.2	24.8	32.2	35.4	25.7	30.4	35.5	27.3	31.1	36.7	28.5	31.1	36.9
36	--	--	--	--	--	--	--	--	--	23.2	36.4	39.5	24.7	35.9	39.6	25.6	33.7	39.6	27.2	34.2	40.4	28.4	33.9	40.6

**Class III Fans**

Size	Motor Frame Size																							
	56		143T	145T		182T	184T		213T	215T		254T	256T		284T	286T		324T	326T		364T	365T		
18	13.7	--	19.8	13.7	--	18.9	16.0	--	19.1	16.7	--	18.8	18.8	--	20.1	--	--	--	--	--	--	--		
22	15.1	--	24.1	15.1	--	23.1	16.7	--	23.1	18.0	--	22.7	20.6	--	22.9	--	--	--	--	--	--	--		
24	16.3	--	26.8	16.3	--	25.9	17.9	--	25.8	19.3	--	25.3	20.8	--	25.3	21.8	--	25.4	--	--	--	--		
27	17.7	--	29.7	17.7	--	28.7	19.3	--	28.7	20.6	--	28.1	22.1	--	28.1	23.1	--	28.1	24.9	--	27.7	--		
30	18.9	--	33.1	18.9	--	32.1	20.5	--	32.0	21.8	--	31.4	23.3	--	31.3	24.3	--	31.2	26.1	--	30.7	27.4	--	29.8
33	20.0	--	36.4	19.8	--	35.4	21.5	--	35.2	22.8	--	34.7	24.3	--	34.3	25.3	--	34.2	27.2	--	33.5	28.4	--	32.5
36	15.1	--	28.9	15.1	--	28.5	16.8	--	28.0	18.2	--	27.7	19.8	--	27.2	20.8	--	27.2	22.2	--	26.1	24.8	--	26.7

**All Classes (Fan Sizes 40-73)**

Size	Motor Frame Size																				
	143T	145T		182T	184T		213T	215T		254T	256T		284T	286T		324T	326T		364T	365T	
40	15.0	--	30.9	16.8	--	30.5	18.1	--	30.0	19.8	--	29.5	20.8	--	29.5	22.8	--	28.2	24.1	--	29.7
44	15.0	--	34.0	16.8	--	33.5	18.1	--	33.0	19.8	--	32.5	20.8	--	32.3	22.7	--	31.0	24.1	--	28.7
49	16.2	--	37.2	17.9	--	36.5	19.3	--	35.8	20.9	--	35.6	22.0	--	35.4	23.8	--	34.0	25.3	--	31.3
54	17.5	--	41.2	19.3	--	40.6	20.6	--	39.8	22.3	--	39.0	23.3	--	39.4	25.2	--	38.0	26.6	--	35.0
60	20.0	--	44.6	21.8	--	44.0	23.0	--	43.3	24.8	--	43.0	25.8	--	42.7	27.7	--	41.2	29.1	--	38.4
66	17.6	--	48.8	19.3	--	48.0	20.7	--	47.2	22.3	--	46.4	23.4	--	46.4	25.2	--	29.0	26.6	--	41.8
73	--	--	--	21.7	--	54.4	23.0	--	53.5	24.7	--	52.7	25.7	--	52.5	27.6	--	51.2	29.0	--	49.8