



FAN SELECTION And PERFORMANCE

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Job Name: OSKAR ENVIRONMENTAL INC
 Reference: Quote: 168669

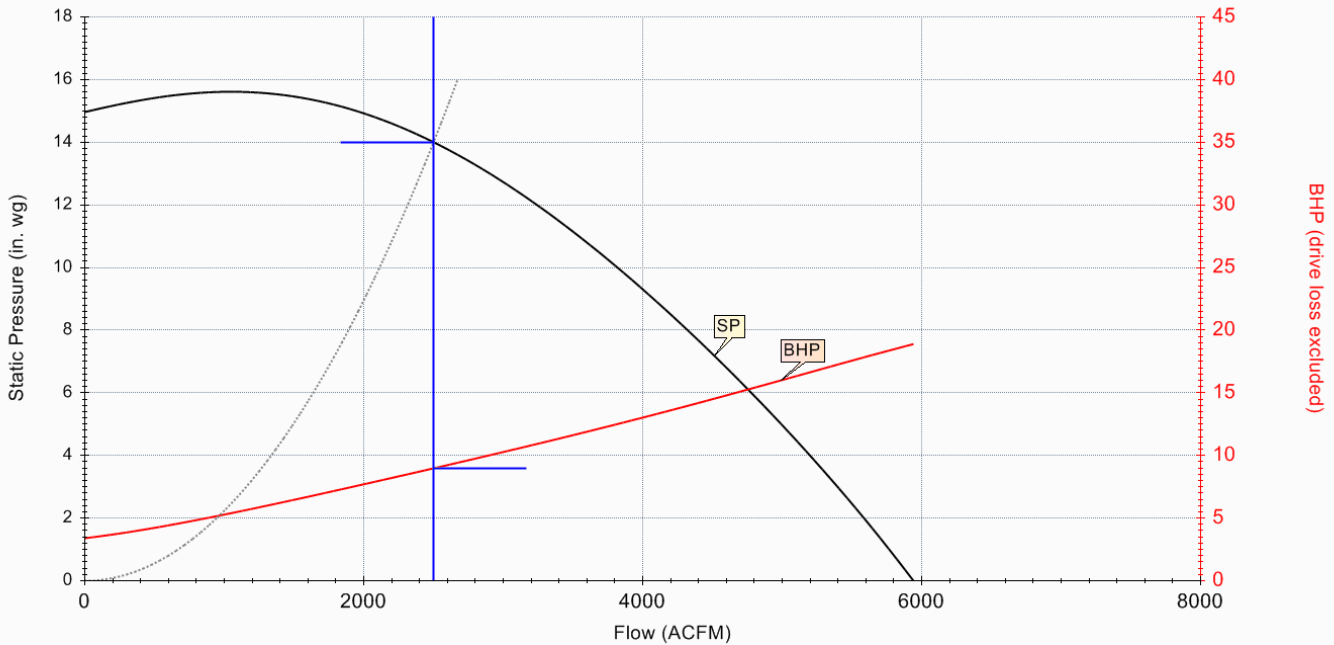
Operating Requirements

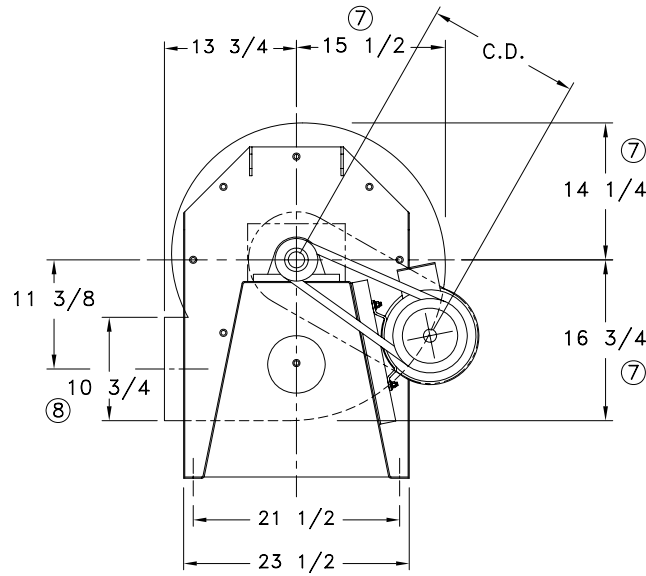
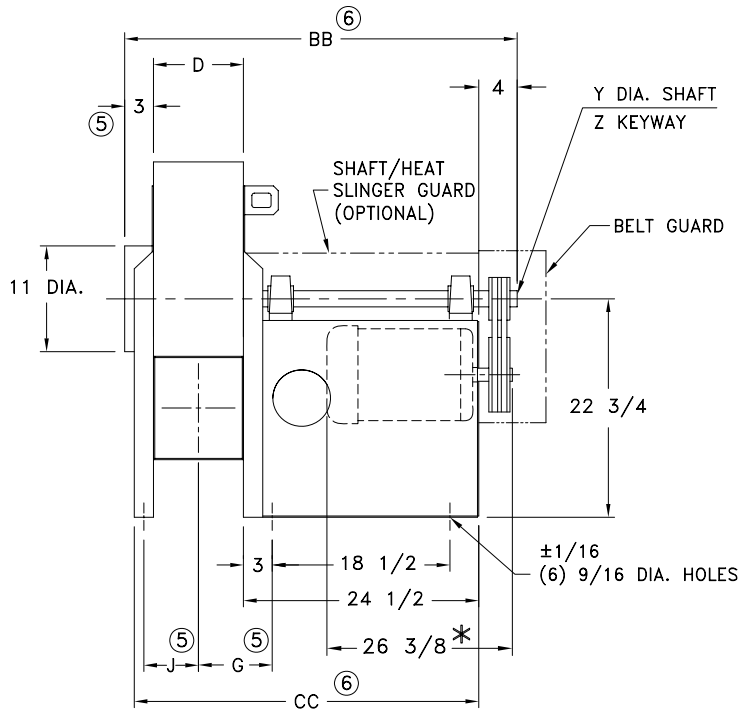
Volume, ACFM	2,500
Static Pressure, in. wg	14.0
Density, lb./ft. ³	0.075
Operating Temperature, °F	70
AMCA Arrangement No.	9
Motor Frequency, Hz	60
Start-Up Temperature, °F	70

Fan Selection and Specifications

Model	RBE-11	
Fan RPM	2,736	
Wheel Description	Open Radial	
Wheel Width, %	95%	
Wheel Diameter, in.	19.13	
Inlet Diameter, in.	11.00	
Outlet Velocity, ft./min.	3,883	
Fan BHP	9.0	Suggested Motor HP: 10.0
Static Efficiency, %	61.3%	
Cold Start BHP	9.0	
Construction Class	Series 25	

Cincinnati Fan Model RBE-11 with Open Radial Wheel (95% Width) @ 2,736 RPM
 Rating Point: 2,500 ACFM @ 14.0 in. wg SP, 0.075 lb./ft.³ Density, 9.0 BHP





ARR. 9R, CLOCKWISE ROTATION, BOTTOM HORIZONTAL DISCHARGE SHOWN

C.D. BELT CENTER DISTANCE

MOTOR FRAME SIZE	MIN.	MAX.
56-145T	12 $\frac{7}{8}$	14 $\frac{3}{8}$
182T-184T	14 $\frac{9}{16}$	16 $\frac{1}{16}$
213T-215T	15 $\frac{13}{16}$	17 $\frac{11}{16}$
254T-256T	17 $\frac{1}{2}$	19 $\frac{11}{16}$
284T-286T	17 $\frac{13}{16}$	19 $\frac{3}{16}$ ♦

♦ MAX. ALLOWABLE CENTER DISTANCE WITH MOTOR ON LEFT.

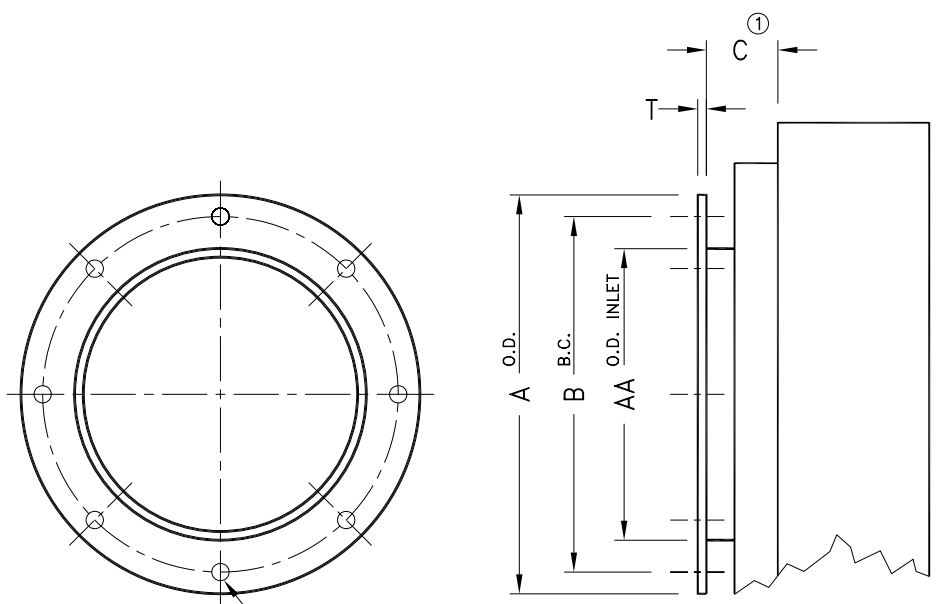
% FLOW	D	G	J	BB	CC	WEIGHT		
						SERIES 18	SERIES 25	SERIES 32
						⑤	⑤	⑥
100%	9 $\frac{3}{8}$	7 $\frac{11}{16}$	5 $\frac{11}{16}$	40 $\frac{7}{8}$	35 $\frac{7}{8}$	325	335	385
95%	8 $\frac{5}{8}$	7 $\frac{5}{16}$	5 $\frac{5}{16}$	40 $\frac{1}{8}$	35 $\frac{1}{8}$	323	333	382
90%	8	7	5	39 $\frac{1}{2}$	34 $\frac{1}{2}$	321	331	379
85%	7 $\frac{1}{2}$	6 $\frac{3}{4}$	4 $\frac{3}{4}$	39	34	319	329	376
80%	7 $\frac{1}{8}$	6 $\frac{9}{16}$	4 $\frac{9}{16}$	38 $\frac{5}{8}$	33 $\frac{5}{8}$	317	327	373
75%	6 $\frac{11}{16}$	6 $\frac{11}{32}$	4 $\frac{11}{32}$	38 $\frac{3}{16}$	33 $\frac{3}{16}$	315	325	370
70%	6 $\frac{5}{16}$	6 $\frac{5}{32}$	4 $\frac{5}{32}$	37 $\frac{13}{16}$	32 $\frac{13}{16}$	313	323	367
65%	5 $\frac{15}{16}$	5 $\frac{31}{32}$	3 $\frac{31}{32}$	37 $\frac{7}{16}$	32 $\frac{7}{16}$	311	321	364
60%	5 $\frac{5}{8}$	5 $\frac{13}{16}$	3 $\frac{13}{16}$	37 $\frac{1}{8}$	32 $\frac{1}{8}$	309	319	361
55%	5 $\frac{3}{8}$	5 $\frac{11}{16}$	3 $\frac{11}{16}$	36 $\frac{7}{8}$	31 $\frac{7}{8}$	307	317	358
50%	5 $\frac{3}{16}$	5 $\frac{19}{32}$	3 $\frac{19}{32}$	36 $\frac{11}{16}$	31 $\frac{11}{16}$	305	315	355

SERIES	Y SHAFT DIA.	Z KEYWAY	MOTOR FRAME
18	1 $\frac{11}{16}$	$\frac{3}{8}$	145T-256T
25	1 $\frac{15}{16}$	$\frac{1}{2}$	213T-286T
32			254T-286T

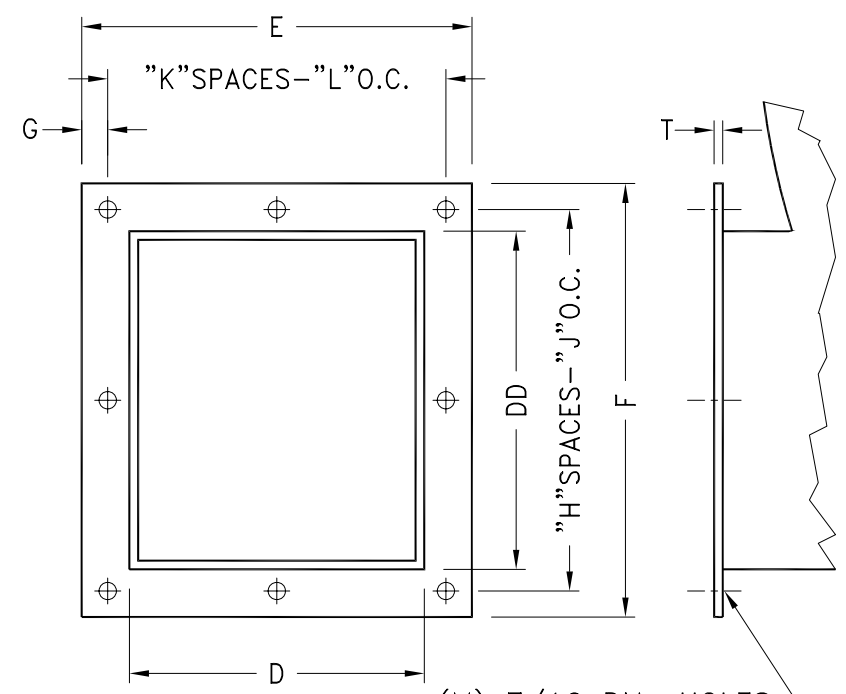
NOTES:

- FANS ARE REVERSIBLE AND ROTATABLE IN 45° INCREMENTS.
- FAN SHAFTS ARE TREATED WITH A RUST INHIBITIVE COATING.
- BELT GUARD IS STANDARD ON ARR. 9.
- ARR. 1 PROVIDED WITHOUT MOTOR, MOTOR SLIDE BASE, BELT GUARD AND DRIVE.
- ADD 1/8" FOR AMCA "C" CONSTRUCTION FANS AND/OR DOWN BLAST DISCHARGE POSITION.
- ADD 1/4" FOR AMCA "C" CONSTRUCTION FANS AND/OR DOWN BLAST DISCHARGE POSITION.
- ADD 1/16" FOR HEAVY DUTY HOUSING.
- ADD 1/8" FOR HEAVY DUTY HOUSING.

* MAXIMUM ALLOWABLE MOTOR LENGTH WITH STANDARD BASE.
 ** WEIGHT DOES NOT INCLUDE MOTOR, DRIVE, OR OPTIONS.



(N) 7/16 DIA. HOLES
INLET FLANGE

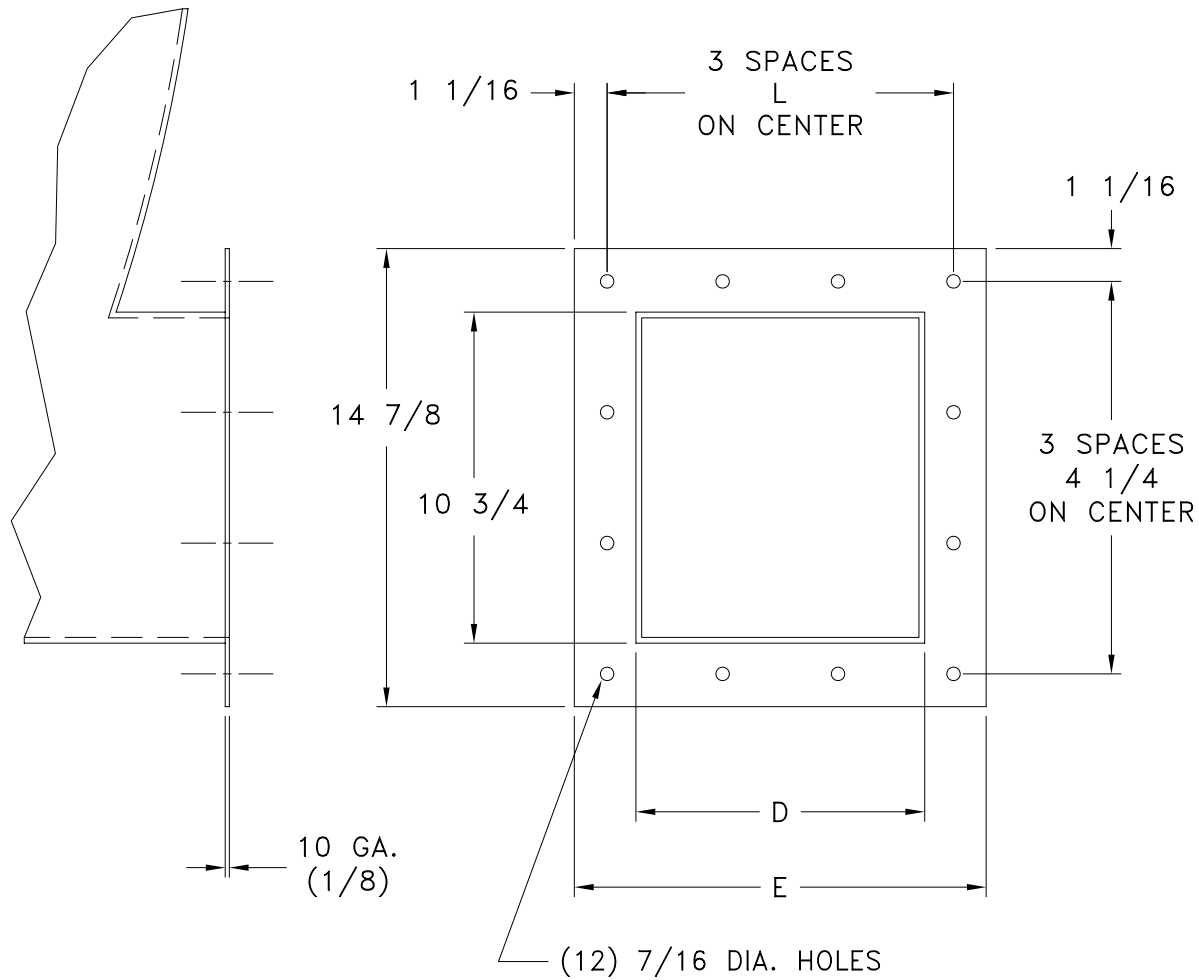


(M) 7/16 DIA. HOLES
DISCHARGE FLANGE *

* NOT AVAILABLE ON ANY MODEL FOR DOWNBLAST OR BOTTOM ANGULAR DOWN, OR RBE-7 TOP ANGULAR DOWN DISCHARGE POSITION.

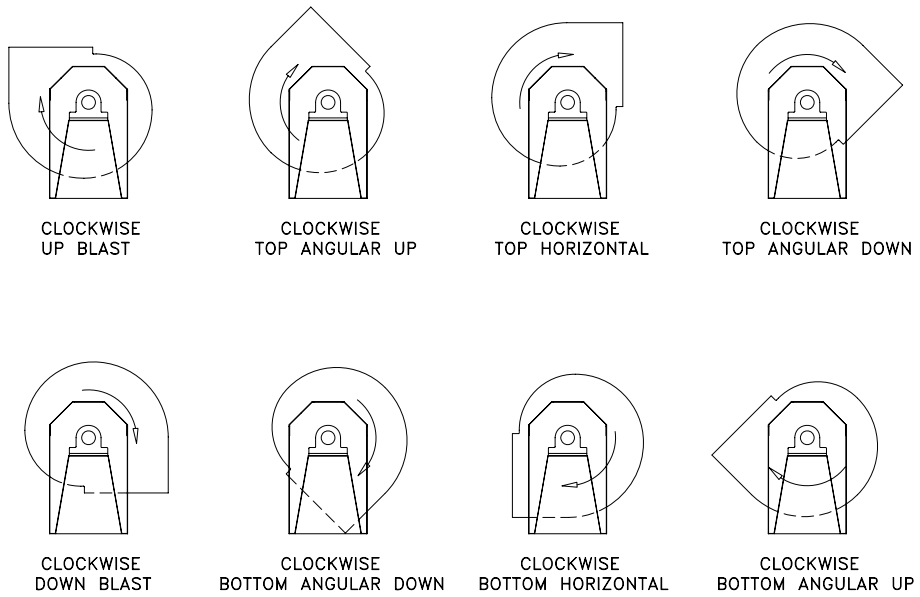
MODEL	INLET						DISCHARGE									
	A	B	C ^①	AA	N	T	D	E	F	G	H	J	K	L	M	DD
RBE-7	9-3/8	8-1/2	3	7	8	1/8	6-1/8	10-1/8	10-3/4	1	2	4-3/8	2	4-1/16	8	6-3/4
RBE-9	11-5/8	10-5/8	3	9	8	1/8	7-5/8	11-5/8	12-3/4	1	2	5-3/8	2	4-13/16	8	8-3/4
RBE-11	13-7/8	12-3/4	3	11	8	1/8	9-3/8	13-3/8	14-7/8	1-1/16	3	4-1/4	3	3-3/4	12	10-3/4
RBE-13	16-1/8	15	3	13	8	1/8	11	15	16-11/16	1-1/32	3	4-7/8	3	4-5/16	12	12-3/4
RBE-15	18-1/8	17	3	15	8	1/8	12-3/4	16-3/4	18-5/8	1-1/16	4	4-1/8	3	4-7/8	14	14-1/2
RBE-17	20-1/8	19	3	17	8	1/8	14-3/8	18-3/8	20-5/8	1-1/16	4	4-5/8	4	4-1/16	16	16-1/2
RBE-19	22-1/8	21	4	19	8	1/8	15-7/8	19-7/8	22-3/8	1-1/16	4	5-1/16	4	4-7/16	16	18-3/8
RBE-21	24-1/2	22-1/2	5	21	12	3/16	17-3/4	21-3/4	24-11/32	1	5	4-15/32	4	4-15/16	18	20-5/16

① ADD 1/8 FOR AMCA "C" CONSTRUCTION FANS AND/OR DOWNBLAST AND BOTTOM ANGULAR DOWN DISCHARGE POSITIONS.

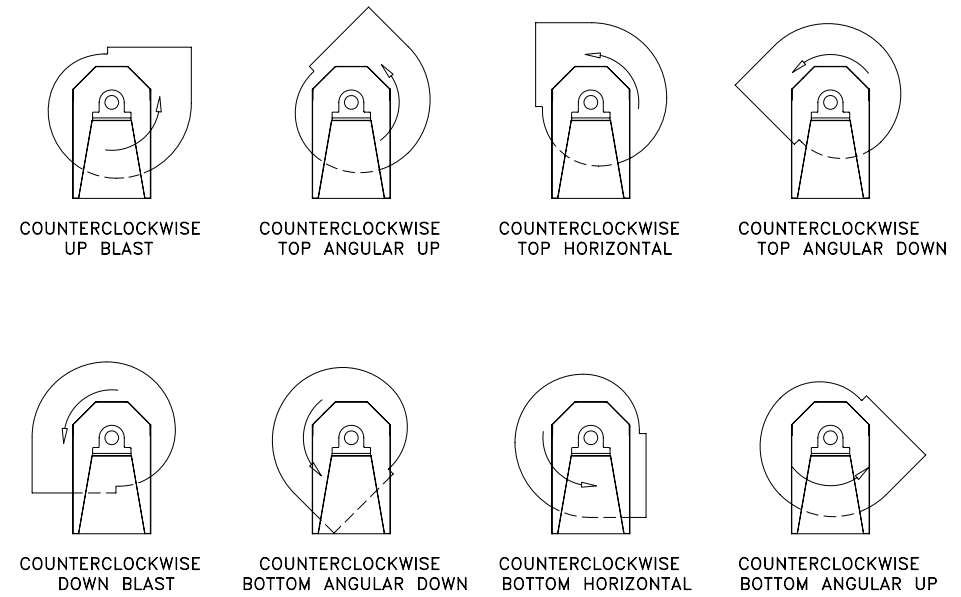


% WIDTH	D	E	L
110	10-11/16	14-11/16	4-3/16
100	9-3/8	13-3/8	3-3/4
95	8-5/8	12-5/8	3-1/2
90	8	12	3-9/32
85	7-1/2	11-1/2	3-1/8
80	7-1/8	11-1/8	3
75	6-11/16	10-11/16	2-7/8
70	6-5/16	10-5/16	2-3/4
65	5-15/16	9-15/16	2-5/8
60	5-5/8	9-5/8	2-1/2
55	5-3/8	9-7/16	2-7/16
50	5-3/16	9-1/4	2-3/8
45	5	9-1/16	2-5/16
40	4-13/16	8-7/8	2-1/4

CLOCKWISE ROTATION



COUNTERCLOCKWISE ROTATION



- NOTES:
1. DIRECTION OF ROTATION IS DETERMINED FROM DRIVE SIDE OF FAN.
 2. SAME AS AMCA STANDARD 99-2406-83.