

Air Circulators

Air Circulator Selection Guide

STEP 1: DETERMINE REQUIRED CIRCULATOR TYPE USING THE SELECTION CRITERIA BELOW

	Industrial Circulator	Washdown	Hazardous Location	Automotive Circulator
Environment	Dirty/Humid	Food Processing	Chemicals	Dirty/Humid
Motor	Totally Enclosed	Totally Enclosed	Totally Enclosed	Totally Enclosed
Bearing	Ball/Sleeve	Ball	Ball	Ball
Switch	Pull Chain	—	—	Rocker
Color	Industrial Gray	White/Zinc	Zinc/Gray	Safety Yellow
Certifications	UL/CSA/AMCA Air	UL/CSA/AMCA Air	AMCA Air	UL/CSA/AMCA Air
Hinged Guard	No	No	No	Yes
Oscillating Available	Yes	No	No	No

STEP 2: DETERMINE THE AIR VELOCITY REQUIRED FOR YOUR APPLICATION

Light Activity

- Assembly, table work, customer service, etc.
- 200-400 FPM (Feet Per Minute)

Heavy Activity

- Manufacturing, warehouse, millwork, etc.
- 500-700 FPM (Feet Per Minute)

STEP 3: DETERMINE THE DISTANCE BETWEEN THE FAN AND TARGET OF THE AIRFLOW

STEP 4: SELECT THE CIRCULATOR USING THE CHART BELOW

Blade Dia. (In.)	HP	Distance From Fan (Ft.)			Velocity Profile	Stock No.
		20	40	60		
Industrial Circulator						
20	1/4	417/265	201/120	—/—	A	3IND20B1Q
20	1/4	417/265	201/120	—/—	A	3IND20B1R
20	1/4	417/265	201/120	—/—	A	3IND20B1E
24	1/4	517/313	187/167	132/49	B	3IND24B1Q
24	1/4	517/313	187/167	132/49	B	3IND24B1R
24	1/4	517/313	187/167	132/49	B	3IND24B1E
30	1/2	769/667	341/319	233/161	C	3IND30D1Q
30	1/2	769/667	341/319	233/161	C	3IND30D1R
30	1/2	769/667	341/319	233/161	C	3IND30D1E
Industrial Oscillating Circulator						
20	1/4	400/350	190/180	90/85	D	3IND20B1A
24	1/4	410/325	185/145	80/60	E	3IND24B1A
30	1/2	710/650	340/310	175/160	F	3IND30D1A
3-Phase						
24	1/4	585	275	155	H	3IND24B7G
30	1/2	750	310	180	J	3IND30D7G
208 Volt						
24	1/4	445	290	95	G	3SPC24B4G
30	1/2	750	310	180	I	3SPC30D4G
277 Volt						
24	1/4	445	290	95	G	3SPC24B5G
30	1/2	750	310	180	I	3SPC30D5G
Washdown						
20	1/4	580	240	155	U	3SPC20B2G
24	1/3	735	245	170	V	3SPC24C2G
30	1/2	750	310	180	J	3SPC30D2G
Hazardous						
24	1/4	520	280	200	W	3SPC24BLG
30	3/4	835	385	295	X	3SPC30ELG
Premium Yellow Circulator						
24	1/4	520/365	265/185	120/85	Y	3YLW24B1H
30	1/4	615/330	320	140	Z	3YLW30B1H

Air Circulators

Special Purpose Circulators

Yellow Air Circulator™ Heads

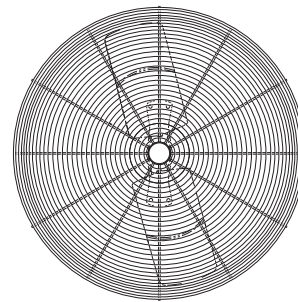
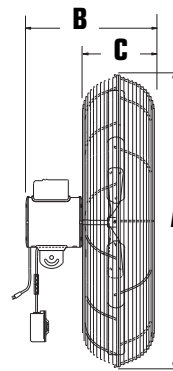
Designed for energy efficient operations in a variety of industrial applications including automotive, industrial and general manufacturing operations. This fan was specifically designed using state-of-the-art computational fluid dynamics and finite element analysis to optimize the CFM/watt, energy efficiency measurement.

Features and specifications

- Circulator heads are shipped pre-wired and assembled for quick and easy installation
- 1/4 HP, totally enclosed air over (TEAO), two speed automatic thermal reset protection, 60 Hz, 115V motor comes with 6 ft., 3-conductor grounded power cord
- Stamped aluminum propeller designed for maximum operating efficiency with the motor (24" size: three-blade propeller; 30" size: two-blade propeller)
- Polyester powder coated wire guards comply with OSHA Standard 1910.212, 1/2" max. opening requirement
- 3 Position drop cord switch ships standard (High/Off/Low)
- Optional 15 ft. extension cord for switch to mount fan on wall or ceiling (3CAS01EC)
- Circulator is UL Listed and CSA Certified when used in conjunction with the recommended Air Circulator mounting accessories
- U.S. pat No. 5,795,133

Accessories (available separately)

- For more information, see Air Circulator Accessories.
- Floor pedestal.
- Wall/ceiling bracket.
- I-Beam mount.



Fantech, Inc. and Systemair Mfg. Inc. certify that the Special Purpose Circulators shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

Model No.	Prop. Dia. (In.)	Dimensions (In.)			Guard Dia. (In.)	CFM	HP	RPM	Watts	Oper. Amps	Ship Wt. (lbs.)	Vel Chart	Thrust	lbf/watt	Volts/Hz
		A	B	C											
3YLW24B1H	24	33	14-1/4	8-1/8	33	5635/4435	1/4	1140/886	226/163	2.0/1.5	48	Y	3.20/1.98	0.014/0.012	115/60
3YLW30B1H	30	33	14-1/4	8-1/8	33	7477/4470	1/4	1109/630	269/163	1.9/1.4	48	Z	3.59/1.28	0.013/0.008	115/60

NOTE: AMCA certified rating seal applies to airflow rate at free delivery only. Speed (RPM) shown is nominal. Performance is based on actual speed of test.

Air Circulators

Air Velocity/Axial Throw Profiles

The air velocity profiles shown below are graphical illustrations of how far a circulator will move the air and the speed of the airflow expressed in feet per minute (FPM).

Industrial Air Circulators

Chart A

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	Distance from Fan (Ft.)		
			40	60	80	
3IND20B1E	20"	High/Low	417/265	201/120	—/—	—/—
3IND20B1Q	20"	High/Low	417/265	201/120	—/—	—/—
3IND20B1R	20"	High/Low	417/265	201/120	—/—	—/—

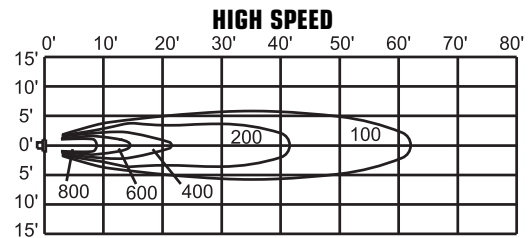


Chart B

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	Distance from Fan (Ft.)		
			40	60	80	
3IND24B1E	24"	High/Low	517/313	187/167	132/49	—/—
3IND24B1Q	24"	High/Low	517/313	187/167	132/49	—/—
3IND24B1R	24"	High/Low	517/313	187/167	132/49	—/—

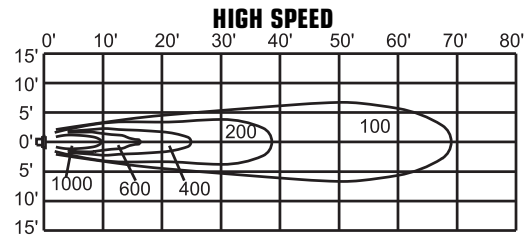


Chart C

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	Distance from Fan (Ft.)		
			40	60	80	
3IND30D1E	30"	High/Low	769/667	341/319	233/161	—/—
3IND30D1Q	30"	High/Low	769/667	341/319	233/161	—/—
3IND24D1R	30"	High/Low	769/667	341/319	233/161	—/—

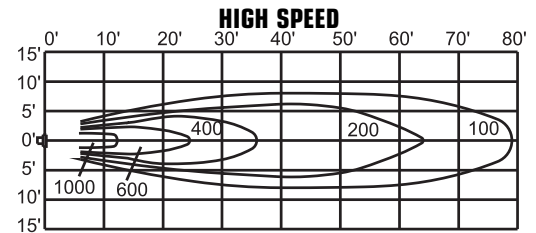


Chart D

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	Distance from Fan (Ft.)		
			40	60	80	
3IND20B1A	20"	High/Low	400/350	190/180	90/85	—/—

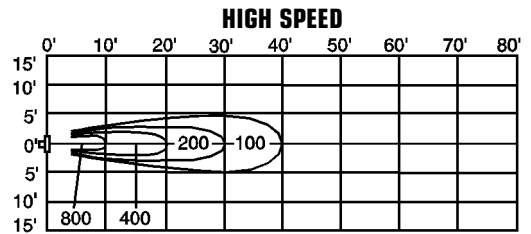
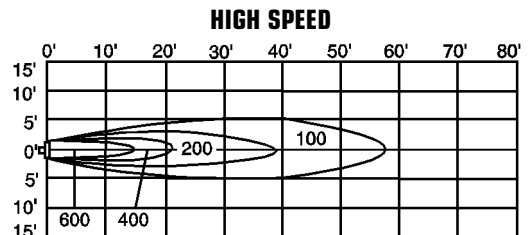


Chart E

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	Distance from Fan (Ft.)		
			40	60	80	
3IND24B1A	24"	High/Low	410/325	185/145	80/60	—/—



Air Circulators

Air Velocity/Axial Throw Profiles

The air velocity profiles shown below are graphical illustrations of how far a circulator will move the air and the speed of the airflow expressed in feet per minute (FPM).

Industrial Air Circulators (Continued)

Chart F

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	40	60	80
3IND30D1A	30"	High/Low	710/650	340/310	175/160	—/—

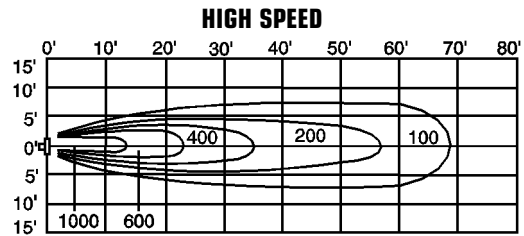


Chart G

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	40	60	80
3SPC24B4G	24"	1725	445	290	95	—
3SPC24B5G	24"	1725	445	290	95	—

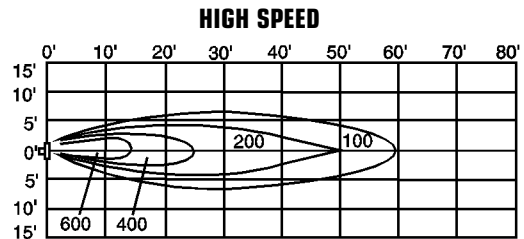


Chart H

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	40	60	80
3IND24B7G	24"	1725	585	275	155	—

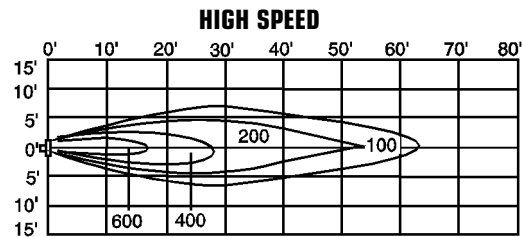


Chart I

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	40	60	80
3SPC30D4G	30"	1075	750	310	180	—
3SPC30D5G	30"	1075	750	310	180	—

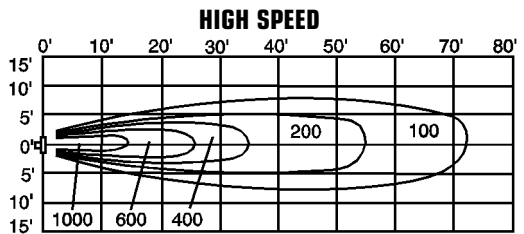
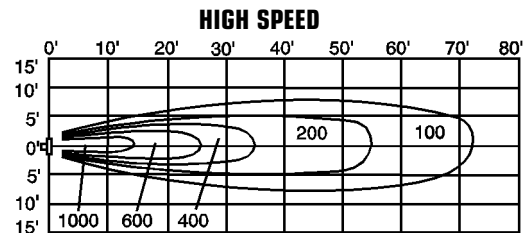


Chart J

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	40	60	80
3IND30D7G	30"	1075	750	310	180	—
3SPC30D2G	30"	1075	750	310	180	—



Air Circulators

Air Velocity/Axial Throw Profiles

The air velocity profiles shown below are graphical illustrations of how far a circulator will move the air and the speed of the airflow expressed in feet per minute (FPM).

High Volume, High Velocity Air Cannons (Continued)

Chart P

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	40	60	80
3HV224C2F	24"	1140	530	350	240	140
3HV224C2C	24"	1140	530	350	240	140

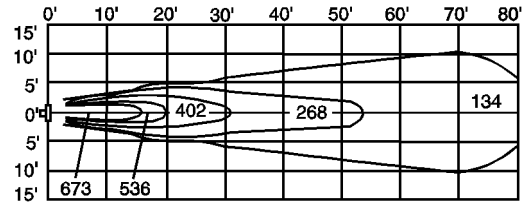


Chart Q

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	40	60	80
3HV224F2F	24"	1725	790	520	360	220
3HV224FYF	24"	1725	790	520	360	220
3HV224F2C	24"	1725	790	520	360	220
3HV224FYC	24"	1725	790	520	360	220

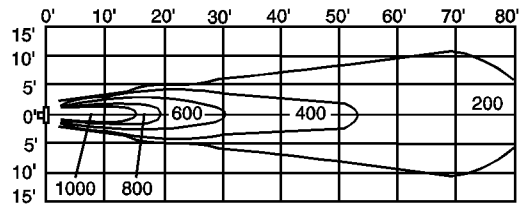


Chart R

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	40	60	80
3HV230H2F	30"	1725	1160	760	520	320
3HV230HYF	30"	1740	1160	760	520	320
3HV230H2C	30"	1725	1160	760	520	320
3HV230HYC	30"	1740	1160	760	520	320

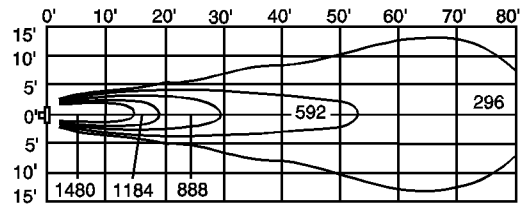


Chart S

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	40	60	80
3HV236F2F	36"	1140	1280	840	580	350
3HV236FYF	36"	1155	1280	840	580	350
3HV236FYC	36"	1155	1280	840	580	350
3HV236F2C	36"	1140	1280	840	580	350

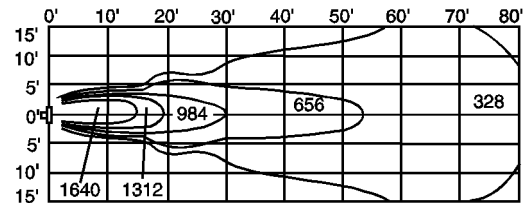
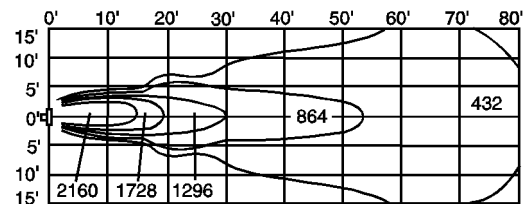


Chart T

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	40	60	80
3HV236HYF	36"	1150	1690	1110	760	460
3HV236HYC	36"	1150	1690	1110	760	460



Air Circulators

Air Velocity/Axial Throw Profiles

The air velocity profiles shown below are graphical illustrations of how far a circulator will move the air and the speed of the airflow expressed in feet per minute (FPM).

Special Purpose Circulators

Chart U

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	40	60	80
3SPC20B2G	20"	1138	580	240	155	75

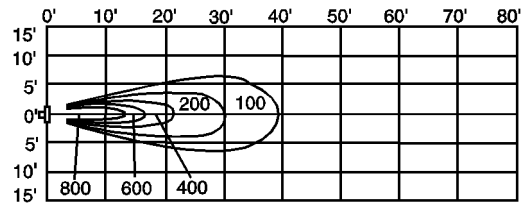


Chart V

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	40	60	80
3SPC24C2G	24"	1718	735	245	170	135

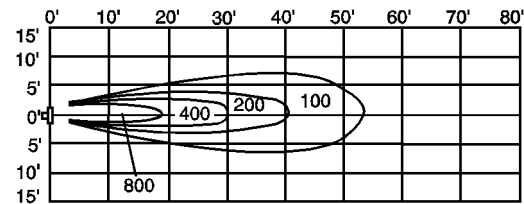


Chart W

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	40	60	80
3SPC24BLG	24"	1176	520	280	200	125

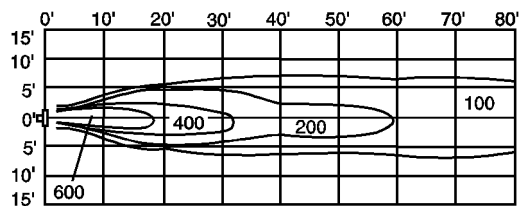


Chart X

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	40	60	80
3SPC30ELG	30"	1150	835	385	295	260

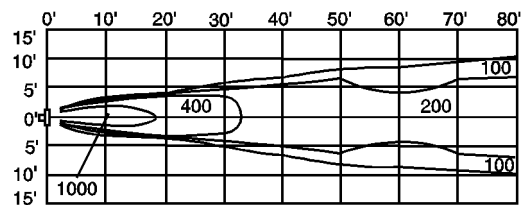
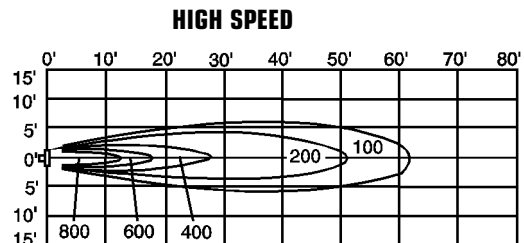


Chart Y

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			10	20	40	60
3YLW24B1H	24"	High/Low	940/660	520/365	265/185	120/85



HIGH SPEED

Air Circulators

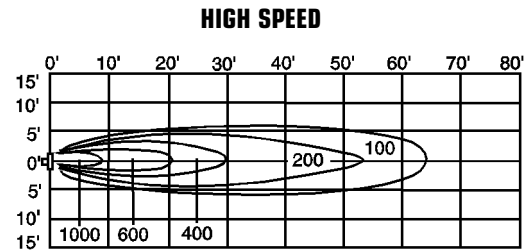
Air Velocity/Axial Throw Profiles

The air velocity profiles shown below are graphical illustrations of how far a circulator will move the air and the speed of the airflow expressed in feet per minute (FPM).

Special Purpose Circulators (Continued)

Chart Z

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			10	20	40	60
3YLW30B1H	30"	High/Low	865/465	615/330	320/—	140/—



High Volume, High Velocity Air Cannons

Chart O

Model No.	Prop. Dia. (In.)	Fan Speed	Air Penetration (FPM)			
			20	40	60	80
3HV218B2F	18"	1725	440	240	100	—
3HV218BYF	18"	1725	440	240	100	—
3HV218B2C	18"	1725	440	240	100	—
3HV218BYC	18"	1725	440	240	100	—

