

CENTRAL FAN CO.

NEW ENGLAND'S LARGEST

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PRICE \$3.00

CATALOG #38

GENERAL INFORMATION

ASSUME: Air @ sea level (.075 lb/ft³), 70°F, 50% RH, 29.92 in. Hg. This is STP condition.

BASIC FAN LAWS

Volume varies directly as speed:	$\text{New CFM} = \text{Old CFM} \times \left(\frac{\text{New RPM}}{\text{Old RPM}}\right)$
Horsepower varies as cube of speed:	$\text{New HP} = \text{Old HP} \times \left(\frac{\text{New RPM}}{\text{Old RPM}}\right)^3$
Pressure varies as square of volume:	$\text{New SP} = \text{Old SP} \times \left(\frac{\text{New CFM}}{\text{Old CFM}}\right)^2$
Horsepower varies as cube of volume:	$\text{New HP} = \text{Old HP} \times \left(\frac{\text{New CFM}}{\text{Old CFM}}\right)^3$

VENTILATION OF HOODS & BOOTHS

Process	Type of Hood	Capture Velocity FPM
Kitchen Ranges	Canopy Hood	75-250
	Island Hood	100-150
	Updraft	200-250
Plating Tanks	Canopy Hoods	150-250
	Slotted Sides	1500-2000
Steam Tanks	Canopy Hood	75-150
Paint Spraying	Open Front Booth	100
Furnaces	Canopy Hood	100-200
	Enclosed Booth	150-250
Laboratory Booth	Open Front Booth	75-125

KITCHEN RANGE HOODS

- CFM required is length x width (in feet) x velocity as per above table.
(Depth of hood does not enter into calculations)
- Hood should extend approximately 12 inches beyond front and sides of range. Depth should be two feet or more to accommodate bursts of smoke.
- Duct velocity can be 500 to 2000 FPM.
- Two smaller ventilators are recommended in place of one for more flexible operation and also to provide ventilation should one fan fail.
Recommended ventilators for kitchen range hoods are radial blade and backward curve blowers.
- U.L. classification YZHW and NFPA 96 provide more detail.

STATIC PRESSURE LOSSES (in. H₂O)

No. of Elbows	Duct Length			Grease Filter	
	10'	20'	30'	2" Mesh	Baffle
0	.13	.17	.21	.25	.55
1	.31	.35	.39	.25	.55
2	.49	.53	.57	.25	.55

Based on average duct velocity of 1700 FPM.

SUPPLY OR MAKE-UP AIR

Unnecessary loss of summer air conditioning or winter heating can be avoided if 80-90% of exhaust air is supplied at or near the exhaust hood. Make-up air appropriately introduced into the exhaust hood need not be treated.

MOTOR RPM CHANGES & HP REQUIRED

1750 to 3500 RPM = 8 x HP
 1140 to 1750 RPM = 3.6 x HP
 850 to 1140 RPM = 2.4 x HP

NOISE, SOUND RATINGS, & SONES

Typical Sound Levels

Sones	dB	Source
	140	500,000 CFM blower
	120	Threshold of feeling
150	110	15,000 CFM blower elevated train; chipping hammer, loud street noise
90	90*	Noisy factory; highway auto
38	80	Shouting; noisy gathering
10	60	Average factory; Average restaurant
9	50	Average office
1	40	Quiet home: average auditorium Quiet conversation
	30	Whisper
	10	Sound proof room Threshold of human audibility
	0	

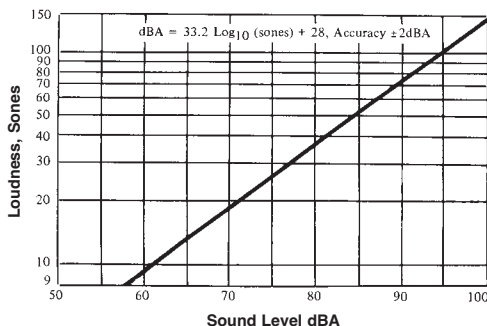
*Max. permissible noise per 8 hr.-day

Although fan noise is a function of a multitude of factors the principal sources are (a) air turbulence (b) mechanical and (c) vibration. Generally the quietest fan is also the most mechanically efficient. Because a given fan location characteristics dictate audible noise, fan dBA cannot be guaranteed. However, relative noise levels of fans can be suitable for considering one fan versus another.

The SONE number used in this catalog is a mathematically derived loudness (sound pressure) value as heard by the human ear 5 feet from the inlet of the noise source in free air (no ducts). Under these conditions, 10 SONES is twice as loud as 5 SONES; or 20 SONES is 1/2 as loud as 40 SONES. Thus, SONE NUMBERS can be used as guides for fan selection.

Where noise is a critical factor a more detailed, scientific analysis of the noise source and its surroundings would be desirable. However, lined ducts, especially near the fan, provide ample sound attenuation for most clean air situations. Also, to double the loudness (SONES) of a given fan, 13 more of the same fan must be added.

ROOM SONES dBA CORRELATION



VELOCITY PRESSURES (At Std. Density .075#/Ft.³)

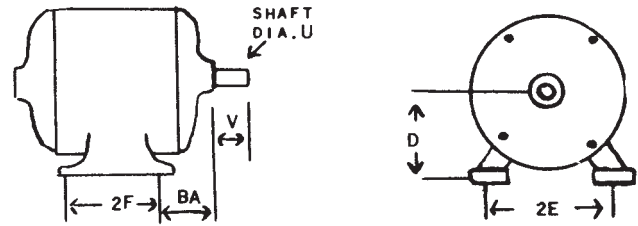
VEL. FPM	VP In. Water	VEL. FPM	VP In. Water
1800	.202	4400	1.21
2000	.249	4600	1.32
2200	.302	4800	1.44
2400	.359	5000	1.56
2600	.421	5200	1.69
2800	.489	5400	1.82
3000	.561	5600	1.96
3200	.638	5800	2.10
3400	.721	6000	2.24
3600	.808	6200	2.40
3800	.900	6400	2.72
4000	.998	6600	2.72
4200	1.10	6800	2.88

Recommended Ventilation Requirements

Classification	Max. occupant Load, (persons per 1000ft. ²)	CFM per person or area
Education		
Auditorium	150	15
Classroom	50	15
Locker Room		0.5 cfm/ft. ²
Training Shops		0.5 cfm/ft. ²
Restaurant		
Lounge	100	30
Dining Room	70	15
Offices		
Conference Room	50	20
Office Space	7	20
Reception	60	20
Public Spaces		
Locker Rooms		0.5 cfm/ft. ²
Public Restrooms		50 cfm/closet or urinal
Parking Garage		0.75 cfm/ft. ²
Smoking Lounges	70	60
Specialty Shops		
Auto Service Stations		1.5/ft. ²
Beauty Salons		0.6 cfm/ft. ²
Clothing Stores		0.30 cfm/ft. ²
Nail Salons		0.6 cfm/ft. ²
Pet Shops		1.0 cfm/ft. ²
Supermarkets	8	15
Hazardous Locations		
Battery Charging Room		1.0 cfm/ft. ²
Crawl Space		0.2 cfm/ft. ²
Electrical Room		0.6 cfm/ft. ²
Flammable & Combustible Materials		1.0 cfm/ft. ²
		150 cfm min.
Gas Storage Rooms		1.0 cfm/ft. ²
Hazardous Material Storage		1.0 cfm/ft. ²
Sports & Facilities		
Ball Rooms	100	25
Gymnasiums	30	20
Ice Rinks		0.5 cfm/ft. ²
Swimming Pools		0.5 cfm/ft. ²
Workrooms		
Darkrooms		1.0 cfm/ft. ²
Duplicating, Printing		0.5 cfm/ft. ²

MOTOR INFORMATION

Follow all local electrical and safety codes, as well as the National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).



NEMA MOTOR FRAME DIMENSIONS-INCHES

TYPE OF MOTOR USUALLY REQUIRED

The great majority of small motors (1/2 HP & smaller) are 115 volts single phase.

Sizes of 3/4 to 1 1/2 are fairly divided between 208/230 volts single phase and 208 to 550 volts 3 phase.

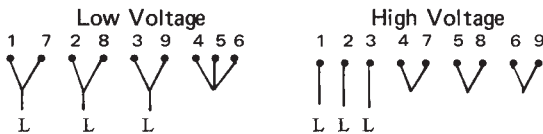
Sizes of 2 HP and larger are generally three phase as they are less expensive and less troublesome than single phase motors.

HP	1750 RPM	1750 Frame Size*	U Shaft Dia.	D Shaft Height	V Shaft Len.	2F Parallel To Shaft	2E Across Shaft	BA To First Bolt Hole
1/8-1/2	1/20	42	3/8	2 5/8	1 1/8	1 3/4	3 1/2 slot	2 1/16
3/4-2	1/12-1/8	48	1/2	3	1 1/2	2 1/4	4 1/4 slot	2 1/2
	1/2-1 1/2	56	5/8	3 1/2	1 7/8	3	4 7/8 slot	2 3/4
1 1/2	1	143T	7/8	3 1/2	2 1/4	4	5 1/2	2 1/4
3	2	145T	7/8	3 1/2	2 1/4	5	5 1/2	2 1/4
5	3	182T	1 1/8	4 1/2	2 3/4	4 1/2	7 1/2	2 3/4
5-7 1/2	5	184T	1 1/8	4 1/2	2 3/4	5 1/2	7 1/2	2 3/4
10	7 1/2	213T	1 3/8	5 1/4	3 3/8	5 1/2	8 1/2	3 1/2
15	10	215T	1 3/8	5 1/4	3 3/8	7	8 1/2	3 1/2
20	15	254T	1 5/8	6 1/4	4	8 1/4	10	4 1/4
25	20	256T	1 5/8	6 1/4	4	10	10	4 1/4
30	25	284T	1 7/8	7	4 1/2	9 1/2	11	4 3/4
40	30	286T	1 7/8	7	4 1/2	11	11	4 3/4

Frames without 'T' (preceding smaller size shaft). *3500 RPM motors are smaller.

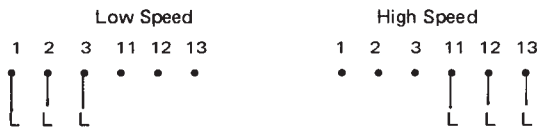
3 PHASE CONNECTION DIAGRAMS

ONE SPEED - DUAL VOLTAGE



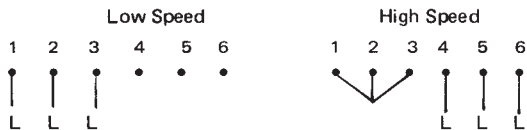
TWO SPEED - TWO WINDINGS - SINGLE VOLTAGE

Generally 1800 - 1200 RPM



TWO SPEED - ONE WINDING - SINGLE VOLTAGE

Generally 1800 - 900 RPM



EFFECT OF VOLTAGE IMBALANCE

A small voltage imbalance between phases will cause an abnormal temperature rise and abnormal current. For example, temperature & current will rise 6-10 times the voltage difference. Notify the power company if voltage exceeds 1% (2 volts at 200v).

APPROXIMATE MOTOR AMPS-1750 RPM*

HP	1 Phase		3 Phase			
	115V	230V	200V	230V	460V	575V
1/8	3.0	1.5	.9	.8	.40	.32
1/4	4.0	2.0	1.1	1.0	.50	.40
3/8	5.2	2.6	1.6	1.4	.70	.56
1/2	7.0	3.5	2.3	2.0	1.0	.80
3/4	10.4	5.2	3.2	2.8	1.4	1.1
1	13.0	6.5	4.3	3.8	1.9	1.5
1 1/2	19.0	9.5	5.7	5.0	2.5	2.0
2	24.0	12.0	7.1	6.2	3.1	2.5
3	34.0	17.0	10.8	9.4	4.7	3.8
5	52.0	26.0	16.0	14.0	7.0	5.6
7 1/2	76.0	38.0	24.0	21.0	11.5	8.4
10	90.0	45.0	30.0	26.0	13.0	10.0
15			46.0	40.0	20.0	16.0
20			57.0	50.0	25.0	20.0
25			76.0	66.0	33.0	26.0
30			85.0	74.0	38.0	30.0

For 3600 RPM motors multiply by .90

*60 Hertz

For 1140 RPM motors multiply by 1.1

Starting amps are approximately five times running amps. Fuses must be large enough to carry this current. Delayed action fuses of only 25% above rated current may be substituted for better protection.

NEMA VOLTAGE VARIATIONS*

Nameplate Rating	Suitable for line voltages
200/400	208,220 or 440
220/440	208,220,230 or 440,460
230/460	208,220,230,240 or 440,460,480
550 or 575	550 to 600

NEMA ratings are plus or minus 10% of nameplate.

*60 Hertz

Variations are suitable for fan or blower duty or other easy to start applications only.

CENTRAL-AIRE® Model K Exhaust Fans

HEAVY DUTY-GENERAL PURPOSE-DIRECT DRIVE-ENCLOSED MOTOR



General purpose exhaust fans for most small areas.

IMMEDIATE DELIVERY

Quiet operating general purpose fans for ventilation of most small areas where the usual low pressure conditions exist. *For long duct runs use a centrifugal blower.*

Suitable for use in restaurants, bars, clubs, laundries, bakeries, barns, stores, offices, industrial plants and electronic equipment cooling.

Moderately priced and economical in operation-Built for years of dependable service-Broad deep pitch blades for quiet, high air delivery-Attractive design, Gray green finish. Quality is equal or superior to higher priced fans.

- Thermally protected motors
- Variable speed operation some models
- Ball and sleeve bearings
- Aluminum fan blades
- OSHA type wire guards
- 125°F max. temp. of operation

Available with reverse air flow (suction type) at no extra charge.
Suitable for operation to 125°F—Over 125°F use a centrifugal blower

MODEL K-SINGLE PHASE-115 VOLTS*

Model No.	HP	Variable			115 v. Amps	Speed RPM	APPROXIMATE CFM							Ship Wt.	
		1 Speed S	Speed V	Wall Shutter			Static Pressure (inches H ₂ O)								
							0	.1	1/8	1/4	3/8	1/2	5/8		
K8	1/80	X	X	A8	.6	1550	300	220	190	100	—				7
K10	1/60	X	X	A10	1.0	1550	600	500	450	300	210				12
K12	1/20	X	X	A12	1.4	1550	1000	920	880	700	450				15
K14	1/15	X	X	A14	2.1	1100	1500	1300	1200	1000	720				20
K16	1/6	X	X	A16	2.8	1160	2000	1860	1800	1560	1330				28
*KB16		X	—		30										
K18	1/4	X	—	A18	4.9	1160	2900	2660	2570	2340	2100				29
*KB18		X	—		32										
*KB20	1/4	X	—	A20	3.8	1160	3600	3400	3330	3000	2700				35
*KB24	1/2	X	—	A24	6.5	1160	5800	5500	5200	4600	3700				51

See Page 5 For Fans In This Static Pressure Range

*115/208-230v 1Ø (Ball Bearing)

(v) Variable speed includes Solid State Control

(X) Available Model

•See p.5 for 3Ø Exhaust fans

ACCESSORIES:

Motorized shutter

Chemical resistant coating fan

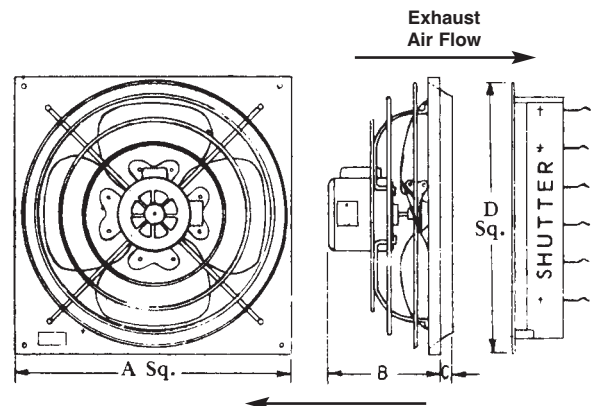
Chemical resistant coating shutter

Model No.	Dimensions (inches)			Shutter D	Min. Hole Round*
	A	B**	C		
K8	10½	5	0	11¼	8
K10	13	5½	0	13	10
K12	16	7½	¾	15	14
K14	18	8	¾	17	16
K16	20	11	1	19	18
KB16	20	13	1	19	18
K18	22	10¾	1	21	20
KB18	22	13	1	21	20
KB20	24	13	1	23	22
KB24	30	13	1½	27	26

Model number indicates fan blade diameter

*Fan and shutter mount over the hole

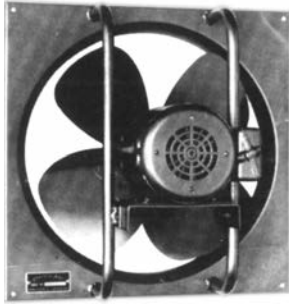
**Add 2" for suction fan configuration



Reverse (suction) air flow requires motorized shutter with #C10 switch
See page 8

CENTRAL-AIRE® Model P Exhaust Fans

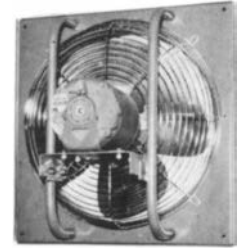
SPECIAL PURPOSE—DIRECT DRIVE—HIGH PERFORMANCE



For applications with special requirements

Features include extra high outputs at higher static pressures, larger sizes, 3 phase and explosion proof motors.

- Sturdy construction for years of heavy duty service
- Fans may be mounted in any position
- Open drip proof Ball Bearing motors-1 & 2 Speed
- Totally enclosed Ball Bearing motors-1 & 2 Speed
- Explosion proof fans include non-sparking blade and Class I Group D, Class II Group F and G motors (See below "caution")
Explosion proof motors are single speed only



Fan with safety guard.

All fans available with reverse air flow (suction type).
Suitable for use to 125°F-Over 125°F use a centrifugal blower.

SINGLE PHASE: 115 VOLTS‡ 3 PHASE: 208, 230, 460 VOLTS

Model No.	HP	With Open Motor			With Enclosed Motor			Expl. Proof*		RPM	CFM Static Pressure (inches water)					
		1 Phase‡		3 Phase	1 Phase		3 Phase	1 Phase	3 Phase		0	1/8	1/4	3/8	1/2	5/8
		1 Speed	2 Speed	1 Speed	1 Speed	2 Speed	1 Speed	1 Speed	1 Speed							
P10	1/25	X	X(v)	—	X	X(v)	—	—	—	1500	800	700	480	400	300	—
P12	1/6	X	X	X	X	X	X	X	X	1750	1470	1350	1200	900	—	—
P14	1/4	X	X	X	X	X	X	X	X	1750	2300	2100	1950	1600	1500	1400
P16A	1/6	X	—	X	X	—	—	X	—	1140	2000	1800	1500	1100	800	—
P16B	1/3	X	X	X	X	X	X	X	X	1750	3150	3050	2800	2600	2300	2000
P18A	1/6	X	—	X	X	—	—	X	—	1140	2900	2600	2200	1700	1500	1300
P18B	1/2	X	X	X	X	X	X	X	X	1750	4300	4000	3800	3400	3100	2800
P20A	1/4	X	—	X	X	—	—	X	X	1140	3600	3300	3000	2700	2400	2000
P20B	3/4	X	X	X	X	—	X	X	X	1750	6000	5800	5600	5300	5000	4700
P24A	1/2	X	—	—	X	—	—	—	—	800	4800	4600	3900	2900	1800	1000
P24B	1/2	X	X	X	X	—	X	X	X	1140	6000	5800	5500	4500	3800	3400
P24C	3/4	X	—	X	X	—	X	—	—	1140	8000	6900	6200	5700	5500	5000
P30B	1 1/2	—	—	X	—	—	X	—	—	1140	11000	10500	10000	9500	9000	8100

(v) Variable speed includes solid state control (X) Available Model
*Incl. Non-sparking blade

Caution:

Explosion Proof motors and non-sparking blades are usually required in operating environments where explosive or ignitable gases or dust are present. Proper motor selection requires full understanding of U.L. and N.E.C. code designations. Article 500 (N.E.C.) covers the requirements for electrical equipment and wiring. *Equipment selection and wiring is a customer (user) responsibility. Motors and impellers misapplied in hazardous environments are dangerous to personnel and property.*

Examples of some hazardous materials:

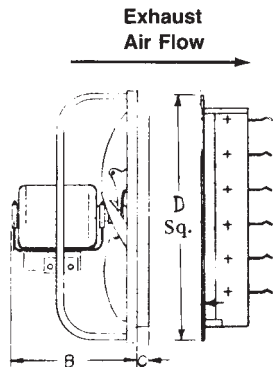
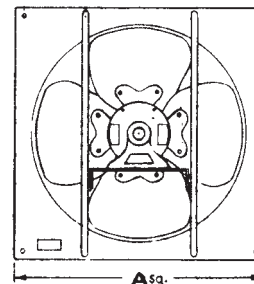
Class I (Gases, Vapors)	
Group A-	Acetylene.
Group B-	Butadiene, ethylene oxide, hydrogen, propylene oxide.
Group C-	Acetaldehyde, cyclopropane, diethyl ether, ethylene, isoprene.
Group D-	Acetone, acrylonitrile, ammonia, benzene, butane, ethylene dichloride, gasoline, hexane, methane, methanol, naphtha, propane, propylene, styrene, toluene, vinyl acetate, vinyl chloride, xylene.
Note: A motor rated for Class I, Group D should not be used in the presence of Group A,B or C substances; and a Class II, Group F & G motor should not be used with Group E substances.	
Class II (Combustibles Dusts)	
Group E-	Aluminum, magnesium and other metal dusts with similar characteristics.
Group F-	Carbon black, coke or coal dust.
Group G-	Flour, starch or grain dust.

Additionally, all hazardous location motors carry a "T code" which identifies the maximum motor surface temp. (operating and burnout) which must be correlated with the "minimum ignition temp." of the hazardous substance.

Accessories:

Model No.	Wall Shutter	Inlet Guard	Chem. Res. Coating*
P10	X	X	X
P12	X	X	X
P14	X	X	X
P16	X	X	X
P18	X	X	X
P20	X	X	X
P24	X	X	X
P30	X	X	X

*Fan only. See page 8 for shutter coating.



Model No.	Dimensions (inches)				Opening Nec. (Round)	Approx. Wt. (Lbs.)
	A	B	C	D		
P10	13	10	0	13	10	25
P12	16	11	3/4	15	14	30
P14	18	12	1	17	16	35
P16	20	13	1	19	18	45
P18	22	13	1 1/2	21	20	50
P20	24	13	1 1/2	23	22	60
P24	30	14	1 1/2	27	26	80
P30	36	15	2	33	32	110

Model number indicates fan blade diameter.

PHONE: (781) 393-4456
1-800-937-4326
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CATALOG #38
www.centralfan.com

CENTRAL FAN CO., INC.
3890 MYSTIC VALLEY PKWY.
MEDFORD, MA 02155

CENTRAL-AIRE® Model R Exhaust Fans

ALL PURPOSE—BELT DRIVE—RUGGED WELDED CONSTRUCTION



All purpose exhaust fans for most large areas.

All Purpose-Belt Drive-Rugged Welded Construction

An all purpose high performance fan suitable for ventilation of most large areas requiring dependable ventilation.

Large selection of speeds and motors to choose from to cover a wide range of commercial and industrial requirements.

Recommended for ventilation of stores, halls, offices, restaurants, garages, barns, air conditioning equipment rooms and all types of industrial buildings.

Moderately priced yet built for years of dependable service.

IMPORTANT FEATURES

- Quiet operation-High air output-Slow speed.
- Flexible choice of speeds and motors available.
- Easy and economical motor replacement if necessary.
- Ball Bearing throughout-motor & fan.
- Generously sized belt drive for trouble free operation.
- Heavy duty propellers, designed for low static and high air volume...either exhaust or suction.
- Not designed for motor reversing operations.

WARNING:
OSHA guards recommended
when installing fan within
7' of floor.
SEE page 7

SPECIFY EXHAUST
OR SUCTION

WITH OPEN MOTOR-WHEN ORDERING: SPECIFY LINE VOLTAGE AND PHASE

Model	HP	Single Phase		Three Phase		Wall Shutter	Approx. Fan RPM	Tip Speed FPM	Noise Rating	CFM						
		1 Speed S	2 Speed M	1 Speed T	2 Speed R					0	Static Pressure (inches water)					
R24	B	1/4	X	X	X	-	540	3390	A	4800	3900					
	C*	1/8	X	X	X	-	600	3770	A	5300	4600	3100				
	D	1/2	X	X	X	X	690	4335	B	6000	5400	4300	2800			
	E	3/4	X	X	X	X	750	4710	C	7000	6400	5600	3800	3100		
	F	1	X	X	X	X	850	5300	D	8000	7500	6800	5400	4300	3600	
R30	C	1/8	X	X	X	-	460	3770	A	7000	5700					
	D*	1/2	X	X	X	X	480	4080	A	8000	6900	4600				
	E	3/4	X	X	X	X	530	4710	B	9000	8100	6500	4200			
	F	1	X	X	X	X	570	5100	C	10000	9200	8000	5400	4400		
	G	1 1/2	X	-	X	X	640	5890	D	12000	11300	10300	8200	6500	5300	
R36	D	1/2	X	X	X	X	480	3770	A	10000	8200					
	E*	3/4	X	X	X	X	600	4712	B	12000	10300	6900				
	F	1	X	X	X	X	620	5655	B	14000	12600	10100	6400			
	G	1 1/2	X	-	X	X	700	6597	C	16000	14700	12800	8600	7100		
	H	2	X	-	X	X	760	7540	D	18000	17000	15500	12200	9800	7900	
R42	E	3/4	X	X	X	X	400	3848	A	16000	13100					
	F*	1	X	X	X	X	480	4398	B	18000	15400	10400				
	G	1 1/2	X	-	X	X	520	5497	B	20000	18000	14400	9200			
	H	2	X	-	X	X	600	6322	C	22000	20200	17600	11900	9700		
	J	3	X	-	X	X	670	7147	D	25000	23500	21500	17000	13500	11000	
R48	F	1	X	X	X	X	400	3770	A	21000	17200					
	G*	1 1/2	X	-	X	X	460	4712	B	24000	20600	13900				
	H	2	X	-	X	X	500	5684	B	26000	23400	16200	13200			
	J	3	X	-	X	X	580	6597	C	30000	27600	24000	16200	13200		
	K	5	-	-	X	X	650	8167	D	36000	33800	30900	24500	19500	16000	
R54	G	1 1/2	X	-	X	X	300	4241	A	27000	23200	15600				
	H*	2	X	-	X	X	350	4948	B	30000	27000	21600	13800			
	J	3	X	-	X	X	420	5655	B	35000	32200	28000	18900	15400		
	K	5	-	-	X	X	500	6361	C	42000	39500	36000	28500	22000	18500	
R60	H	2	X	-	X	X	270	4271	A	34000	30600	24500	18600			
	J*	3	X	-	X	X	300	4712	B	41000	37000	32800	22100	18000		
	K	5	-	-	X	X	375	5890	B	48000	45000	41000	34000	27000	22000	
	L	7 1/2	-	-	X	X	470	6744	C	55000	53000	49000	44000	38000	33000	

*Recommended for most commercial and industrial applications. See page 10 for motor controls.

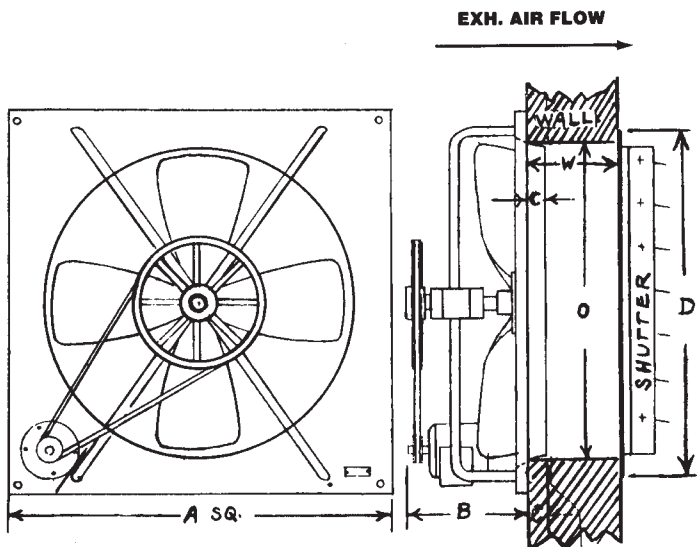
(X) Available models

NOISE RATING

Applications	Rating
Residences, Churches, Schools, Libraries	A
Stores, Offices, Hall, Restaurants	A or B
Laundries, Bakeries, Bowling Alleys	B or C
Very noisy locations	B,C, D

Dimensions & Accessories:
See next page

CENTRAL-AIRE® Model R Exhaust Fans



DIMENSIONS (INCHES)

Model No.	Panel Sq. A	Approx. Depth B*	C	Shutter (Sq.) D	Opening Req. (Rd.) O*	Min. Wall W**	Approx. Wt. Lb.
R 24	30	14	1½	27	26	6	70-100
R 30	36	15	2	33	32	7	90-120
R 36	42	16	2¼	39	38	8	100-140
R 42	48	17	2½	45	44	10	130-150
R 48	54	18	2¼	51	50	12	160-200
R 54	60	27	2	57	56	14	270-320
R 60	66	27	2	63	62	16	390-470

Model number indicates fan blade diameter.

* Allows venturi penetration of wall.

** Shutter blades will flutter if fan blade is too close to shutter.

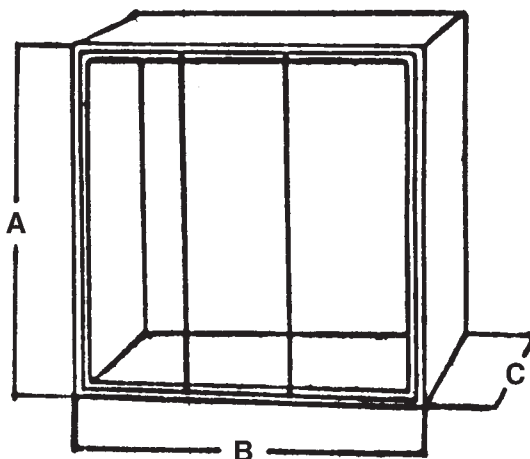
"W" dimension must be increased for higher RPM or where quieter operation is desired.

OSHA COMPLIANT FAN GUARD

20 gauge galvanized steel panels, expanded metal grille. Bolt together guards shipped unassembled (mounting hardware included). Heavy gauge panels bolt together to form housing. Grille fastens to housing with screws supplied. Guard can be mounted directly to fan frame or wall.

GUARD DIMENSIONS

Model No.	A	B	Depth C	Ship Wt.
R 24	30	30	20	35
R 30	36	36	20	40
R 36	42	42	30	60
R 42	48	48	30	90
R 48	54	54	32	120
R 54	60	60	34	200
R 60	66	66	37	256



ACCESSORIES

Model	Inlet Guard	Motorized Shutters		Chem. Resis. Coating		Motor* Disconnect Switch	Two** Speed Controls
		115 or 230 V	#440V	Fan and Motor	Automatic Shutter		
R 24	X	X	X	X	X	X	X
R 30	X	X	X	X	X	X	X
R 36	X	X	X	X	X	X	X
R 42	X	X	X	X	X	X	X
R 48	X	X	X	X	X	X	X
R 54	X	X	X	X	X	X	X
R 60	X	X	X	X	X	X	X

440V uses 115/230V motor with a transformer.

* Mounted to fan panel.

** All without overload protection.

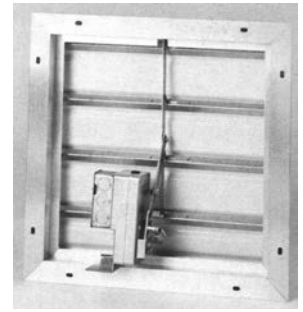
Model A Aluminum Wall Shutters



Model A

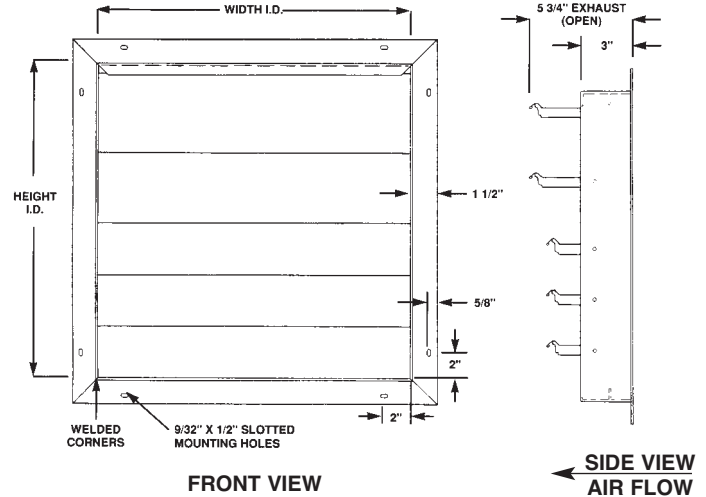
AUTOMATIC-MOTORIZED-CHAIN OPERATED EXTRA HEAVY DUTY FRAMES FOR DIMENSIONAL STABILITY

- Frame is .080 x 1.50 extruded aluminum with mill finish & welded corners.
- Aluminum blades are 26 gauge with 20 gauge galvanized reinforcement strip across top of blade & felt seal on leading edge of blade for quiet closing.
- Stainless steel bearings and pivot pins for extended life.
- **POSITIVE ACTION MOTORIZED SHUTTERS:** Motor is securely bolted to frame. Special linkage operates center rod for uniform and positive operation.
- **CHAIN OPERATED:** For manual operation; coil spring positive closing.
- * **SPRING OPEN – POWER CLOSE** For use in elevator rooms that require venting with loss of power.



Model A Motorized

Model No.	Nominal Dim. (Sq.) I.D.		FPM Max CFM	Automatic Gravity Operated			Motorized 115 or 230 V. 440 ≠		Chain Operated	Spring Open Power Close
	A	B		X	X	X	X			
A 8*	8	11	1150	X	-	-	X	X	X	
A 10	10	13	1800	X	X	X	X	X	X	
A 12	12	15	2600	X	X	X	X	X	X	
A 14	14	17	3500	X	X	X	X	X	X	
A 16	16	19	4600	X	X	X	X	X	X	
A 18	18	21	5850	X	X	X	X	X	X	
A 20	20	23	7200	X	X	X	X	X	X	
A 24	24	27	10400	X	X	X	X	X	X	
A 30	30	33	16250	X	X	X	X	X	X	
A 36	36	39	23400	X	X	X	X	X	X	
A 42	42	45	31850	X	X	X	X	X	X	
A 48	48	51	41600	X	X	X	X	X	X	
A 54	54	57	52650	X	X	X	X	X	X	
A 60	60	63	65000	X	X	X	X	X	X	



*Steel frame with 1 5/8" flange....this size only Maximum UPS ship size is A36, B36
≠ 440V uses 115/230V motor with a transformer (X) Available models

Also available

PROTECTIVE COATING

Air Dry PVC Coating
Models A,B or BS

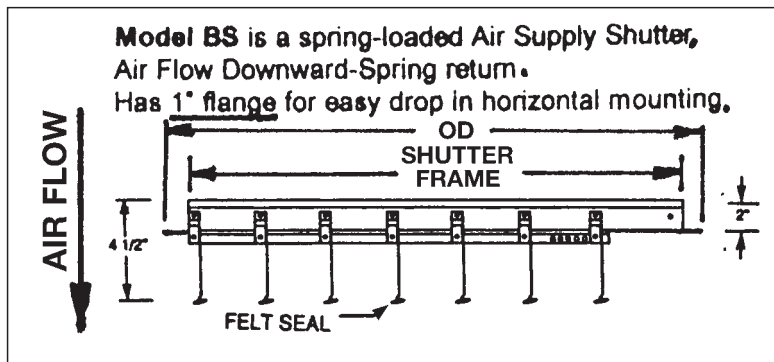
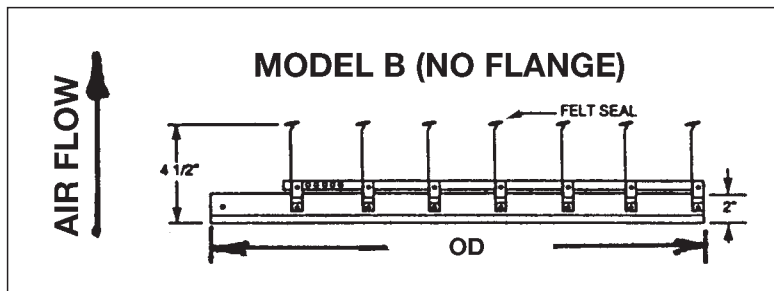
DELAY SWITCH....MOUNTED ON SHUTTER

Motorized shutter will not open against substantial fan induced air flow. Delay switch should be used to allow shutter to open fully before fan becomes operational. For 1Ø or 3Ø applications.

Delay Switch Model C10

Model B Roof Fan Shutters

Flange-less steel frame-Felted aluminum blades-Can be used inside ducts. Opens in direction of air flow. Curb drop in type to prevent backdraft when roof fan is not running. Sized to fit onto shelf of roof curb.



Model No.	Nominal O.D. +0 - 1/8 (Square)	To 1500 FPM Max. CFM	Automatic Gravity Operated			Motorized 115 or 230 V. #440V		
			X	X	X	X	X	X
B 9	9	800	X	X	X	X	X	X
B 10	10	900	X	X	X	X	X	X
B 12	12	1300	X	X	X	X	X	X
B 14	14	1800	X	X	X	X	X	X
B 15	15	2100	X	X	X	X	X	X
B 16	16	2400	X	X	X	X	X	X
B 18	18	3100	X	X	X	X	X	X
B 20	20	3900	X	X	X	X	X	X
B 22	22	4800	X	X	X	X	X	X
B 24	24	5700	X	X	X	X	X	X
B 28	28	7800	X	X	X	X	X	X
B 30	30	9000	X	X	X	X	X	X
B 32	32	10000	X	X	X	X	X	X
B 36	36	13000	X	X	X	X	X	X
B 39	39	15000	X	X	X	X	X	X
B 42	42	17900	X	X	X	X	X	X
BS 18	20	3100	X	-	-	-	-	-
BS 22	24	4800	X	-	-	-	-	-
BS 26	28	7000	X	-	-	-	-	-
BS 30	32 1/2	9000	X	-	-	-	-	-
BS 37	39 1/2	14000	X	-	-	-	-	-

(X) Available models #440V use 115/230V motor with a transformer

STATIONARY LOUVERS

- Extruded .080" aluminum frame construction, with .063" blades.
- Drainable blades-falling water is drained to the side, removing cascading water droplets from the air stream.
- Mitered corners for dimensional stability.
- Expanded 3/4" screen interior mounted. (insect screen optional)
- 1 1/2" flange is standard (channel frame optional).
- Standard mill finish (optional Baked Enamel, Kynar, Anodized).
- 4" deep frame (6" Available).

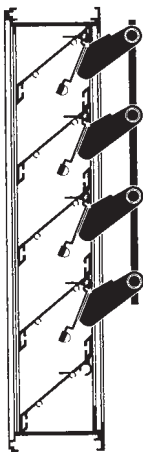
IN STOCK SIZES

Stock No.	Nominal Size* (in.)	Free Area (ft ²)	Intake CFM**	Ship Wt. Lbs.
S61	12 x 12	0.33	260	9
S62	14 x 14	0.45	360	10
S63	16 x 16	0.60	480	12
S64	18 x 18	0.69	550	14
S66	24 x 24	1.52	1200	21
S67	30 x 30	2.66	2100	29
S68	36 x 36	4.12	3300	40

*Suggested hole size (Louver dimension w/o flange 1/4" less)
 Max. single section 60" x 60". For larger sizes use multiple sections.

**max. cfm before water penetration begins (800 FPM).

Other sizes and shapes, etc. **Special Order**



CUSTOM ORDER LOUVERS AND DAMPERS

COMBINATION LOUVERS

- Combination louvers integrate stationary blade and adjustable blade construction in a single frame.
- All the features and options of stationary models.
- Blade edge gaskets.
- Rear mounted exposed linkage.
- Wide variety of manual, electric or pneumatic operators.
- Custom made to order maximum single size is 72" W x 96" H.

For larger sizes use multiple sections.

BACKDRAFT DAMPERS

- .050 aluminum construction.
- Synthetic bearings.
- Vinyl blade seals.
- Full 90 degree operation.
- Flange and channel models available.
- Intake and exhaust installations.
- Vertical and horizontal models.
- Custom made to order maximum single size is 40" W x 48" H.

For larger sizes use multiple sections.

CONTROL DAMPERS



- Available in 13 ga. aluminum and 16 ga. steel construction.
- Opposed blade and Parallel blade models.
- PVC foam gasketed blades.
- Low leakage models with stainless steel jam seals.
- Concealed end linkage.
- Wide variety of manual, electric or pneumatic operators and operator accessories.
- Custom made to order.



Motor Controls for Fans & Blowers

SINGLE SPEED CONTROLS



Fig. A

Manual Type	Cat. No.	Phase	Maximum HP			Nema Size	Poles	Fig.	Dimensions		
			115V	230	460				H	W	D
Without Overload	6810-G	1	2	2	—	1	2	A	4	2¼	2½
	7810-GD	3	—	7½	10	1	3	A	4	2¼	2½
Exp. Prf.	6810-E	1	1	2	—	00	1	B	6¾	3½	4¾
Exp. Prf.	7810-E	3	—	7½	10	00	3	B	6¾	3½	4¾



Fig. B

TWO SPEED CONTROLS

Without Overload Protection	Cat. No.	Phase	Maximum HP			Nema Size	Poles	Fig.	Dimensions		
			115V	230	460				H	W	D
Without Overload Protection	C61	1	½	½	—	00	1	C	4¼	2½	2
	C62		¾	¾	—	00	2	C	4¼	2½	2¾
	27940		1	1	—	00	2	C	4¼	2¾	2½
Without Overload Protection	JV2	3 (1 Wdg.)	—	3	3	1	3	D	8	3	3½
	JV5		—	5	5	1	3	D	8	3	3½



Fig. C

LINE VOLTAGE THERMOSTATS (1Ø)								
Model	Type	Max HP		Max Motor Amps		Temp °F		Switch Type
		115V	230V	115V	230V	Range	Diff	
C73	Heat/Cooling	¾	1½	13.8	10	50-90	2°	SPST
C74	Cooling (Attic)	¾	1½	13.8	10	90-130	15°	SPST
C74A	Cooling (Attic)	—	—	4.4	—	50-120	15°	SPST
C76A	Heat/Cooling	¾	1½	13.8	10	40-110	3°	SPDT
C77*	Heat/Cooling	—	—	16	8	30-110	3°	SPDT/SPDT

*2-stage (2speed or 2 motors).

SOLID STATE VARIABLE CONTROL		
(Shaded Pole or Perm. Cap. Motors)		
SINGLE PHASE		
Model No.	Volts	Amps
C64	120	6
C65	120	10
C75	230	6
277V	277	6
C64-3	(3-wire control for constant 115v)	
C65-3	(3-wire control for constant 115v)	

MOTOR DISCONNECT SWITCHES

HP	Single Phase		Three Phase	
	1 Sp.	2 Sp.	1 Sp.	2 Sp.
¾	X	X	X	X
1-2	X	X	X	X
3	X	—	X	X
5	—	—	X	X
7½-10	—	—	X*	—

* 460V-550V only (X) Available



Fig. D

INPUT POWER SAVING (RPM CONTROL)

A significant reduction in energy consumption is realized when centrifugal fan speeds are reduced only slightly. In applications where maximum demand volume is not constant (VAV Systems), RPM control with inverters (variable frequency) could result in considerable reduction in power consumption. (Fan power demand varies with RPM³)

Analysis of each fan application will determine the suitability of various volume control methods (Dampers, inlet vanes & inverters). Inverters available special order.

BALDOR
A MEMBER OF THE ABB GROUP

ACB330

AC Micro Drive

1/2 thru 3 Hp	230 Vac	1 Phase - 50/60 Hz
1/2 thru 15 Hp	230 Vac	3 Phase - 50/60 Hz
1/2 thru 30 Hp	460 Vac	3 Phase - 50/60 Hz



Applications: Variable torque, constant torque or constant horsepower applications. New installations, replacements and original equipment manufactures (OEM).

Features: Volts per Hertz or Sensorless Vector Control with peak overload capacity of 150% and PID capability. Flexible mounting options with IP20 enclosure as standard and NEMA 1 option kit. Removable keypad with operator interface and local speed control. Programming by Groups makes it easy to navigate and find parameters. A quick start assistant enables users to program and start using the drive in minutes without need for a User Manual. Built-in braking transistor allows connection to remote braking resistor for enhanced performance needs.

Residential Attic Fans

Fan size selected should be capable of changing the entire volume of a home in approximately two minutes. (Do not include the attic space unless used for living.)

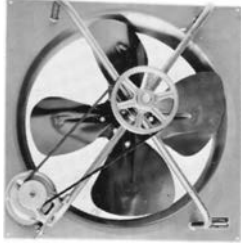
An average size home will require a 30 inch fan.

Operation with a time switch is recommended. Turn fan on for hours desired and forget it. Fan shuts off automatically.

Time switch installs in single gang switch box. Two speed operation affords additional flexibility. Two speed & timer switches in double gang box.

IMPORTANT FEATURES

- Slow speed belt driven for quietness
- Ball bearing fan & motor-permanently lubricated
- Compact construction with no unnecessary weight
- Two types to choose from
- Single phase-115 Volts ODP

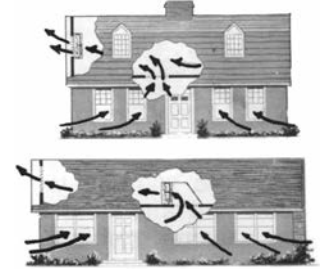


Atlas Wall Fans

Recommended for their quietness of operation. For attic window or wall installation in homes with reasonably air tight attics. Two smaller fans may be used if space is not available for one large fan.

Fan installs against wall opening on the inside and the shutters on the outside. Shutters close automatically when the fan stops, keeping rain, wind and insects out.

Ceiling opening may be used as an access to the attic if ceiling shutters are placed on the attic floor unfastened.



FAN				White Motorized			DIMENSIONS (inches)			Wt. Lb.				
Model No.	HP	1 Speed S	2 Speed M	Wall Shutter	Ceiling Shutter*	Two Speed Switch	Fan RPM	Air CFM	Volume of home (Cubic ft.)		Fan O.D. Sq.	Fan Depth	Wall Opening Rd.	Wall Shutter O.D. Sq.
R24B	1/4	X	X	A24	EM24	X	540	4800	9600	30	14	26	27	60
R30C	1/3	X	X	A30	EM30	X	480	7000	14000	36	15	32	33	70
R36D	1/2	X	X	A36	EM36	X	400	10000	20000	42	16	38	39	90
R42E	3/4	X	X	A42	EM42	X	350	16000	32000	48	17	44	45	110

*Motorized ceiling shutters are recommended if attic space is not air tight. Ceiling shutter dimensions are shown with Lay Down Fans. See page 7 for safety guards.
(X) Available models Twelve hour timer switch available.



Atlas Lay-Down Fans

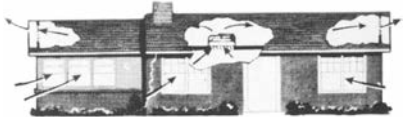
Easily installed-Simply cut hole in attic floor over hallway, Lay Down fan over this opening on top of sound absorbing plastic strips and install shutter on ceiling below.

Sufficient vent area must be provided to let the hot air out of the attic through louvers on wall, vents under the eaves, or in ridge.

Aluminum shutters fit flush with ceiling.

Fan may be pulled up through ceiling opening.

Most economical installation is ceiling shutter not motorized.



FAN				Gravity		Dimensions (Inches)			Min. Vent Area Req. (Sq. in.)	Fan Wt. Lb.				
Model No.	HP	1 Speed S	2 Speed M	White Ceiling Shutter*	Two Speed Switch	Fan RPM	Air CFM	Volume of home (Cubic Ft.)			Fan O.D.(Sq.)	Fan Height	Shutter Flange O.D.	Ceiling Opening
RS24B	1/4	X	X	E24	X	500	4500	9000	30	14	26	24	884	60
RS30B	1/4	X	X	E30	X	400	6500	13000	36	15	32	30	1248	70
RS36C	1/3	X	X	E36	X	340	9000	18000	42	16	38	36	1728	80
RS42C	1/2	X	X	E42	X	280	12000	24000	48	17	44	42	2300	90

See page 7 for safety guards. *Baked white enamel (X) Available models Twelve hour timer switch available.

Central-Aire Attic Cooling Fans

FOR COOLING HOT ATTICS & REDUCING AIR CONDITIONING COSTS



For easy to install sidewall installation.

Complete with shutter and adjustable thermostat.

Safety inlet guard.

Lifetime lubricated quiet motors.

Model	Blade Dia.	Max. attic floor area Sq. Feet*	CFM	HP	Amp.	RPM	Fan O.D. (Sq.)	Opening Nec. (Sq.)**	Ship Wt. Lb.
K12AF	12"	1000	1000	1/20	1.4	1500	16"	13"	16
K14AF	14"	1500	1500	1/15	2.1	1100	18"	15"	20
K16AF	16"	2000	2000	1/8	2.4	1100	20"	17"	28

Recommended setting for thermostat is 100 Degrees. (Shuts off at approx. 90)

*1 CFM per ft² of attic for summer venting.

**Recommended air intake area is exhaust CFM ÷ 300 = req. ft²

Optional humidistat 120V 7.5 amps (max.)

adjustable setting **Model PH**



PHONE: (781) 393-4456
1-800-937-4326
FAX: (781) 396-4581

CATALOG #38
www.centralfan.com

CENTRAL FAN CO., INC.
3890 MYSTIC VALLEY PKWY.
MEDFORD, MA 02155

DRAFT INDUCER SELECTION TABLE

TJERNLUND AUTO-DRAFT INDUCERS assure positive draft when restricted boilers and furnaces, poor chimneys or negative pressures in building prevent proper exhaust of combustion gas. The Venturi action of Tjernlund Auto-Draft Inducers starts air moving up the stack instantly, keeps it moving smoothly. These units are adaptable to all heating systems. They are quick and easy to install and completely automatic in operation. Tjernlund's unique design and careful construction makes them trouble-free and reduces maintenance to a minimum. The Vari-Draft Control permits adjustment to the individual job requirement.

NOTE:

- Inputs shown above are believed to be maximum capacities for inducers, when mounted on pipe sizes shown for ordinary jobs where a moderate amount of mechanical induced draft is required.
- Consideration is given to typically higher static pressure requirements for larger installations, for the type of fuel burned, and for the type of draft control installed.
- Where pressure requirements are unknown, or believed to be unusually severe, ask for complete performance curves or consult factory.

DUCT BOOSTER® MODEL DB-2

The Tjernlund Duct Booster® is the ORIGINAL money saving and energy efficient residential booster fan. It increases the comfort level in hard to heat or cool areas. No need to adjust the whole house thermostat or install auxiliary heating or cooling equipment. Fits round or flat forced air heating/cooling ductwork. DB-2 features: easy installation, durability, economical price and manual or automatic operation. Boosts air flow up to 275 CFM (8" duct).

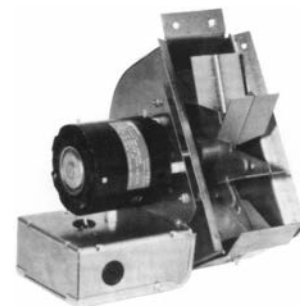
CLEAN AIR ONLY

DO NOT USE IN FLUE



DB-2 DUCT BOOSTER

Model No.	Pipe Size In.	Gas Firing With Draft Hood			Gas Firing With Bar. Draft Control			Oil Firing With Bar. Draft Control		
		Heater BTU Input	270°F		Heater BTU Input	390°F		Heater BTU Input	530°F	
			Flue S.P.	Gas CFM		Flue S.P.	Gas CFM		Flue S.P.	Gas CFM
DJ-3	3	69000	.034	48	72000	.047	36	58000	.048	33
	4	105000	.042	72	109000	.053	55	92000	.057	48
	5	111000	.043	72	104000	.052	52	74000	.052	39
	6	100000	.041	68	34000	.042	17	25000	.035	13
D-3	5	270000	.063	190	330000	.085	166	295000	.092	163
	6	356000	.073	246	377000	.090	190	300000	.093	169
	7	360000	.075	259	330000	.085	166	230000	.080	118
	8	320000	.068	217	222000	.075	110	123000	.065	65
I	8	900000	.125	590	1200000	.143	603	1100000	.147	566
	9	1110000	.135	765	1330000	.150	653	1100000	.148	566
	10	1250000	.140	850	1260000	.145	615	840000	.136	440
	12	1030000	.128	710	710000	.115	357	400000	.100	211
IL	9	1460000	.145	1010	1970000	.175	989	1700000	.180	900
	10	2080000	.170	1370	2460000	.185	1240	1900000	.180	1010
	12	1920000	.160	1325	2230000	.182	1120	1500000	.170	789
	14	1840000	.159	1270	1470000	.158	740	825000	.135	453
	16	900000	.120	620	650000	.113	340	350000	.095	184
	18	650000	.099	450	440000	.095	220	200000	.075	106
XL	16	4000000	.250	2760	4000000	.260	2010	3300000	.230	1763
	18	3900000	.240	2650	3250000	.240	1660	2100000	.190	1103
	20	2800000	.195	1935	2100000	.175	1079	1200000	.150	626
	24	1500000	.150	1035	1100000	.125	527	503000	.110	266
HD	20	5300000	.290	3690	5200000	.270	2440	3600000	.240	1870
	24	3500000	.220	2415	3750000	.220	1680	2900000	.218	1550



MODEL D-3



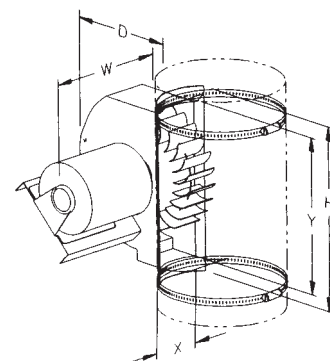
MODEL I

Model PS 1505 Proving Switch (Available as accessory. Recommended)

Detects failure of motor or impeller & shuts off unit. (@ negative 0.05" w.c.)

Universal Control UC-1

Used in conjunction with PS1505 eliminates control circuit compatibility issues. The UC-1 interlocks with dry contacts, 24VAC or 115V appliance control systems. Simply connect the PS1505 to UC-1 and select the system voltage required. Adjustable pre and post purge is also available. UC-1 can replace any relay or timer/relay previously installed.



"H" - OVERALL HEIGHT
"D" - OVERALL DEPTH
"W" - OVERALL WIDTH
"X" - PIPE SLOT WIDTH
"Y" - PIPE SLOT HEIGHT

Model No.	Volts	HZ	RPM	Watts	Amps	Therm Prot.	Unit Dimensions (in)			Slot		Ship Wt.			
							H	W	D	X	Y				
DJ-3	115	60	1550	35	.43*	—	7½	8½	5⅞	2⅝	7⅝	8 lbs.			
D-3	115	60	1550	74	.96	YES	9⅞	9½	7	3⅞	8⅝	10 lbs.			
I	115	60	1725	¾HP	5.4	YES	14½	13½	8¾	4	12¾	31 lbs.			
IL							17	14¾	10	4½	15	34 lbs.			
XL	115	60	1725	¾HP	10.8	YES	18⅞	18½	10½	5⅞	16¾	53 lbs.			
	230						208	230	460	60	1725	2 HP	6.3	6.4	NO

* Impedance protected



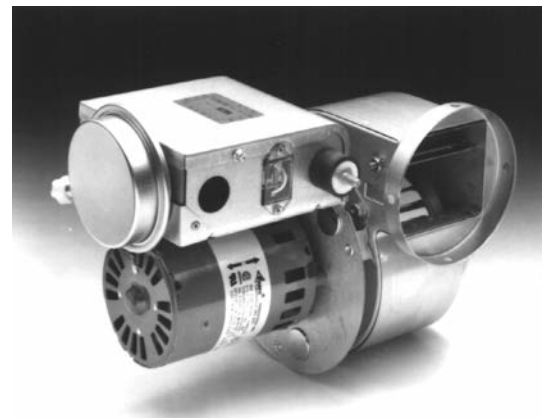
TJERNLUND PRODUCTS, INC.®

SIDE WALL VENTING

See P. 13 for make-up (combustion) air devices

FLUE GAS TEMP 600°F MAX. @ POWER VENTER

(DO NOT USE ON CONDENSING FURNACES)

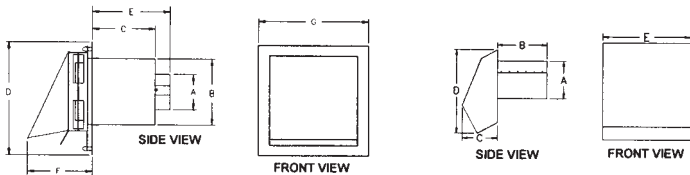


HS-Series with Universal Control (UC-1)

For all your gas and oil sidewall power venting needs. The UC-1 interlocks with dry contact 24VAC or 115V appliance control systems. UC-1 can replace any relay or timer/relay previously installed. Adjustable pre & post purge, prover switch circuit and LED status diagnostics indicators are all included. Accessories available for multiple appliance control. (HSJ not recommended for oil).

Model Numbers	Inlet/Outlet Dia.	Vent Pipe	BTU/HR Input	Maximum Pipe Length (FT) At Stack Temp		
				Gas Fired		Oil Fired
				300°F	400°F	
HSJ 115V 1.76 amps	4"	4"	50,000	100'	100'	Not Recommended
			75,000	100'	100'	
			100,000 125,000	100'	100'	
HS1 115V 1.76 amps	4"	4"	150,000	100'	60'	35'
			200,000	87'	57'	27'
			250,000 300,000	40'	12'	—
		6"	150,000	100'	100'	100'
			200,000	100'	100'	100'
			250,000 300,000	100'	92'	—
HS2 115V 2.0 amps	6"	6"	350,000	100'	100'	100'
			400,000	100'	100'	100'
			450,000	100'	100'	67'
		8"	500,000	100'	72'	—
			550,000	94'	—	—
			600,000	15'	—	—
		8"	350,000	100'	100'	100'
			400,000	100'	100'	100'
			450,000	100'	100'	100'
500,000	100'		100'	—		
550,000	100'		—	—		
600,000	67'		—	—		

Model Numbers	Inlet Outlet Dia.	Vent Pipe Dia.	BTU/HR Input	Maximum Pipe Length (FT) At Stack Temp	
				100% Dilution 300°F Gas Fired Atmospheric With Draft Hood Or Draft Diverter	25% Dilution 400°F Gas Fired Power Burner With Barometric Draft Control
				HS-3 115 VAC 1/4 HP 3.2 AMP	8"
500,000	100'	100'			
600,000 700,000	100'	100'			
10"	450,000	100'	100'		
	500,000	100'	100'		
	600,000 700,000	100'	100'		
HS-4 115 VAC 1/8 HP 6.3 AMP	8"	8"	700,000	100'	100'
			800,000	100'	100'
			900,000	100'	100'
			1,000,000	70'	100'
			1,100,000	32'	100'
			1,200,000	5'	100'
		10"	700,000	100'	100'
			800,000	100'	100'
			900,000	100'	100'
			1,000,000	100'	100'
			1,100,000	97'	100'
			1,200,000	14'	100'
HS-5 115/208/230 VAC 1 HP 6.2 AMP @ 208 6.3 AMP @ 230 13.1 AMP @ 115	10"	10"	1,200,000	100'	100'
			1,400,000	100'	100'
			1,600,000	100'	100'
		12"	1,825,000	29'	100'
			1,200,000	100'	100'
			1,400,000	100'	100'
		14"	1,600,000	100'	100'
			1,825,000	72'	100'
			1,200,000	100'	100'



VH1-3-4-6

VH1-8-10

HIGH TEMPERATURE VENT HOOD

NOTE: INSTALLATION MUST COMPLY WITH APPLICABLE CODES.

Model	Dimensions							Rough-In Dimensions	Ship Wt. Lbs.
	A Dia.	B	C	D	E	F	G		
VH1-3	3"	6 1/4" sq.	8 1/2"	10"	10"	5 1/4"	7 3/4"	6 3/4" sq.	4
VH1-4	4"	7 1/2" sq.	7 1/2"	13"	8 3/4"	7 3/8"	11"	8" sq.	7
VH1-6	6"	8 1/2" dia.	7 1/2"	12"	9 1/2"	10 1/2"	10"	9" dia.	6
VH1-8	8"	15 1/2"	9"	18 3/4"	20"	—	—	8 1/2" dia	12
VH1-10	10"	15 1/2"	9"	18 3/4"	20"	—	—	10 1/2" dia	13

Accessory Controls

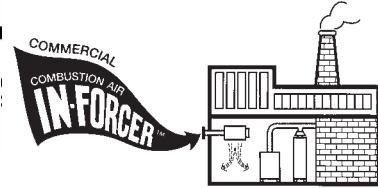
Model	Description
MAC-1E	To interlock 1 additional appliance
MAC-4E	To interlock 3-5 additional appliances
WHK-E	To interlock a millivolt water heater

Water Heater Vent Kit

Water heaters rated at 60,000 BTU/hr. or less can be vented by the **VP-2**. Water heaters rated from 60,000 to 120,000 BTU/hr. can be vented by the **VP-3**. Both packages come complete except for the pipe.



Tjernlund Products, Inc.



A cost effective way to ensure adequate combustion air for maximum performance of heating appliances. The IN-FORCER can be ducted up to 100 ft. allowing isolated mechanical rooms to be supplied with outdoor combustion air. Optional control panel allows interlock with up to 4 additional appliances.

Where the IN-FORCER supplies combustion and dilution air each appliance must be electrically interlocked and supplied at the rate of 50 CFM per 100,000 Btu/hr.

IN-FORCER MODEL APPLICATION CHART

Model	Motor Amps	BTU/HR Input	Gas Atmospheric		Gas Power Burner With Barometric		Oil Flame Retention With Barometric		Gas Power Burner		
			Max Duct Length in Equiv. Feet	Rigid Duct Diameter In Inches	Max Duct Length in Equiv. Feet	Rigid Duct Diameter In Inches	Max Duct Length in Equiv. Feet	Rigid Duct Diameter In Inches	Max Duct Length in Equiv. Feet	Rigid Duct Diameter In Inches	
PAI-3*	1.26 Amps 115v	150,000	100	6	100	6	100	6	100	6	PAI-3
		200,000	100	6	100	6	100	6	100	6	
		250,000	100	6	100	6	100	6	100	6	
		275,000	100	8	100	6	100	6	100	6	
PAI-4*	1.5 Amps 115v	300,000	100	8	100	6	100	6	100	6	PAI-3
		350,000	100	8	100	6	100	6	100	6	
		400,000	100	8	100	8	100	6	100	6	
		450,000	52	10	100	8	100	6	100	6	
PAI-5*	5.4 Amps 115v	500,000	100	10	100	8	100	8	98	6	PAI-4
		550,000	100	10	100	8	100	8	100	8	
		600,000	100	10	100	10	100	8	100	8	
		650,000	100	10	100	10	100	8	100	8	
		700,000	100	10	100	10	100	8	100	8	
PAI-6*	5.8 Amps 115v	775,000	100	10	100	10	95	10	100	8	PAI-5
		850,000	100	10	100	10	100	10	100	10	
		900,000	100	10	100	10	100	10	100	10	
		950,000	100	10	100	10	100	10	100	10	
		1,000,000	100	10	100	10	100	10	100	10	
PAI-7*	12.6 Amps 115v 6.3/6.2 Amps 208/230	1,200,000	100	10	100	10	100	10	100	10	PAI-6
		1,300,000	95	10	100	10	100	10	100	10	
		1,400,000	100	12	100	10	100	10	100	10	
		1,500,000	100	12	100	10	100	10	100	10	
		1,600,000	100	12	100	10	100	10	100	10	
		1,700,000	100	12	100	10	100	10	100	10	
		1,800,000	100	12	100	12	100	10	100	10	
		1,900,000	100	12	100	12	100	10	100	10	
		2,000,000	100	12	100	12	100	10	100	10	
		2,100,000	98	12	100	12	100	10	100	10	
2,200,000			100	12	100	10	100	10	PAI-7		
2,300,000			100	12	100	10	100	10			
2,400,000			100	12	100	12	100	10			
2,500,000			100	12	100	12	100	10			
2,600,000			100	12	100	12	100	12			
2,700,000			100	12	100	12	100	12			
2,800,000			100	12	100	12	100	12			
2,900,000		Not Applicable	98	12	100	12	100	12			
3,000,000					100	12	100	12			
3,100,000					100	12	100	12			
3,200,000					100	12	100	12			
3,300,000					100	12	100	12			
3,400,000					100	12	100	12			
3,500,000					100	12	100	12			
3,600,000					100	12	100	12			
3,700,000					100	12	100	12			

Multiple IN-FORCERS may be installed for capacities larger than shown on chart. IN-FORCERS may be roof or wall mounted.

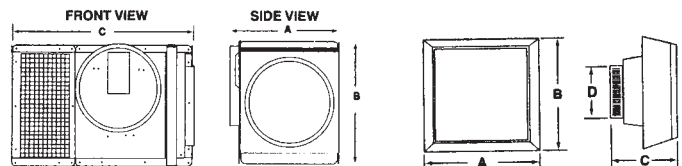
*Universal Control Model UC-1

The UC-1 interlocks mechanical draft and combustion air systems with gas/oil fired heating equipment. It can be activated by an 18-130 VAC heater control signal, pressure switch or relay using a 5 VAC control supplied by dry contacts. **A UC-1 is needed with all PAI systems.**

Accessory Controls

Model	Description
MAC-1E	To interlock 1 additional appliance
MAC-4E	To interlock 3-5 additional appliances
WHK-E	To interlock a millivolt water heater

DIMENSIONS



	UNIT SIZE			
	A	B	C	IN/OUTLET
PAI-3	12"	9-1/2"	20"	6"
PAI-4	12"	9-1/2"	20"	8"
PAI-5	13-3/4"	15-1/4"	24-1/4"	10"
PAI-6	13-3/4"	15-1/4"	24-1/4"	10"
PAI-7	16-5/8"	18"	32"	12"

	HOODS			
	A	B	C	D
PAI-3	14"	14"	8-1/4"	6"
PAI-4	17-1/2"	17-1/2"	10-3/4"	8"
PAI-5	24-1/2"	24-1/2"	10-1/2"	10"
PAI-6	24-1/2"	24-1/2"	10-1/2"	10"
PAI-7	31"	31"	11"	12"

Direct Drive Centrifugal Fans

FOR GENERAL VENTILATION SYSTEMS INCLUDING RANGE HOOD EXHAUST

All fans by Fantech utilize unique external rotor motors. The motors totally enclosed design allows the fan to operate in high moisture, lint and dust laden air. The motors are permanent split capacitor with automatic reset thermal overload protection and sealed ball bearings. All motors and impellers are designed as one integral unit for excellent motor heat dissipation, even at a low RPM. Air stream temperature to 140°F and 100% speed controllable.



Fantech™



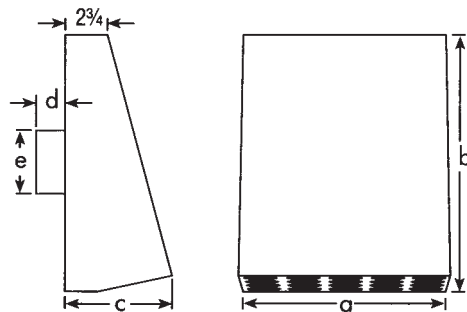
RVF Series Wall Mount

- Simple to install no extras are needed
- Galvanized steel housing with Baked Enamel finish
- Housing removable for easy access to motor and wiring
- Variable speed controllable



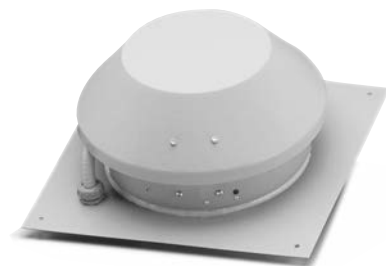
Model	120V 1Ø		CFM @ S.P. (inches of H ₂ O)								Ship Wt. Lbs.
	RPM	Amps	.1	.2	.4	.6	.8	1.0	1.2	1.4	
RVF4XL	2700	.84	180	172	154	136	118	91	57	28	10
RVF6XL	3000	1.46	360	346	315	285	258	213	164	92	14
RVF8XL	2900	1.42	410	392	348	312	282	235	180	128	14

Speed Control **Model No. C64** (See below for dampers.)



Dimensions In.

Model	a	b	c	d	e
RVF4XL	10 $\frac{1}{4}$	13	6	1 $\frac{1}{4}$	4
RVF6XL	14 $\frac{1}{4}$	17	6	1 $\frac{1}{2}$	6
RVF8XL	14 $\frac{1}{4}$	17	6	1 $\frac{1}{2}$	8



RE Series Roof or Wall Mount

- Suitable for pitched roof or wall mounting
- Galvanized steel housing with Baked Powder Coat finish
- Cover easily removable for access to motor and wiring
- Variable speed controllable



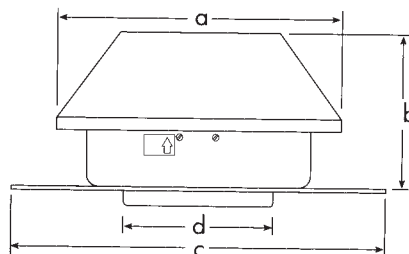
Model	120v 1Ø			CFM @ S.P. (Inches of H ₂ O)							Ship Wt. Lbs.
	RPM	Amps	Sonest†	0	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{2}$	2	
RE6	2700	.80	*7.5	227	199	184	169	134	106	51	14
RE8XL	2800	1.40	*8.9	409	356	331	307	259	212	130	19
RE10XL	3250	3.60	¹ 16.4	753	721	705	690	656	622	548	31

Speed Control **Model No. C64**

† The sound ratings shown are loudness values in fan sones at 5ft. (1.5m) in hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical fan sone levels.

* Sone value shown was calculated at 0.5" (static pressure in inches W.G.).

¹ Sone value shown was calculated at 0.75" (static pressure in inches W.G.).



Dimensions In.

Model	a	b	c	d
RE6	13 $\frac{15}{16}$	6 $\frac{1}{4}$	15 $\frac{1}{2}$	6
RE8XL	16 $\frac{9}{16}$	6	20	8
RE10XL	20 $\frac{13}{16}$	11 $\frac{1}{2}$	20	10

DAMPERS Spring Loaded Butterfly	
Dia. (in.)	Model
4	RSK4
5	RSK5
6	RSK6
8	RSK8
10	RSK10
12	RSK12
14	RSK14
16	RSK16
18	RSK18



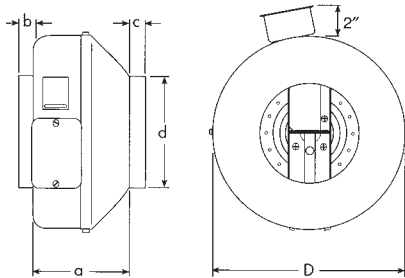
FG Series In-Line Mount

FOR GENERAL VENTILATION APPLICATIONS

- Galvanized steel housing with Baked Powder finish
- Mounting bracket included for ease of installation
- External wiring box for ease of connection
- Auto thermal



Model	Duct	RPM	120V 1Ø AMPS	CFM @ S.P. (Inches of H ₂ O)									Ship Wt. Lbs.
				0	.1	.2	.4	.6	.8	1.	1¼	1½	
FG4XL	4"	2750	.66	170	160	150	134	119	103	86	63	40	8
FG5XL	5"	2700	.68	220	205	190	160	135	112	91	66	41	8
FG6XL	6"	2900	1.48	483	466	450	409	369	329	289	243	201	12
FG8XL	8"	2950	1.45	502	486	470	428	388	351	313	266	218	13
FG10XL	10"	3100	1.96	589	574	560	531	503	472	441	400	355	14
FG12XL	12"	2900	3.01	940	910	880	819	746	670	596	505	425	21



Dimensions In.

Model	a	b	c	d	D
FG4XL	7	1	1	4	9¾
FG5XL	6	1	1	5	9¾
FG6XL	6½	1	1	6	13½
FG8XL	6	1½	1½	8	13½
FG10XL	5¾	1½	1	10	13¾
FG12XL	8¼	1½	1¾	12	16



DB 10 DRYER BOOSTER SWITCH

Allows FR110 or RVF4 to be used as booster fan for residential clothes dryers. The automatic pressure switch turns fan off and on in 5 minute cycles only when dryer is running. Allows fans to be used on runs up to 80' and 6 elbows of 4" rigid duct. (120v only)

PB100 BATH FAN

100 CFM fan, ceiling grille and grille housing with damper. Uses 4" duct.

PB190 PREMIUM BATH FAN

190 CFM fan, ceiling grille and grille housing with damper. Uses 6" duct.

Home Ventilating Institute guidelines recommend one CFM per square foot for bathrooms 100 ft² and under. Over 100 ft² use 50 CFM/fixture, i.e., 1 toilet, 1 shower, 1 tub = 150 CFM.

FR Series In-Line Mount

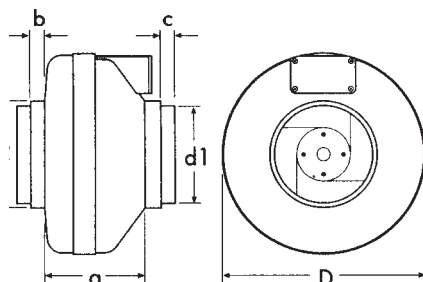
FOR HOSTILE ENVIRONMENT VENTILATION

- Housing manufactured of thermoplastic resin
- **UL listed for outdoor use or wet locations**
- Waterproof gasket on wiring box
- Mounting bracket included
- Auto thermal



DO NOT USE IN COMBUSTIBLE ATMOSPHERE

Model	Duct	RPM	120V 1Ø amps	CFM @ S.P. (Inches of H ₂ O)							Ship Wt. Lbs.
				0	.2	.4	.6	.8	1.0	1.5	
FR110	4"	2900	.72	167	150	133	113	88	63	-	7
FR140	6"	2850	.53	214	190	162	132	99	46	-	7
FR160	6"	2750	1.14	289	260	233	206	179	154	89	8
FR225	8"	3100	1.35	429	400	366	332	297	260	168	11
FR250	10"	2850	2.04	649	600	553	506	454	403	294	13

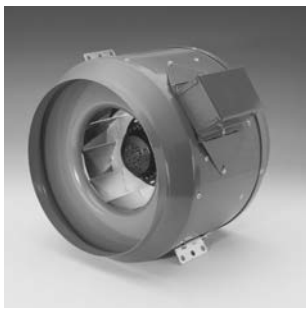


Dimensions In.

Model	a	b	c	d1	d2	D
FR110	6½	¾	¾	4	5	9½
FR140	5¾	1	¾	6	6¼	11¾
FR160	5¾	1	¾	6	6¼	11¾
FR225	6¼	1½	1½	8	10	13¼
FR250	6¼	1½	-	-	10	13¼

Accessories:

	4"	5"	6"	8"	10"	12"
Speed Control	C64	C64	C64	C64	C64	C64
Backdraft Damper	RSK4	RSK5	RSK6	RSK8	RSK10	RSK12
Mounting Clamps	FC4	FC5	FC6	FC8	FC10	FC12



FKD Series In-Line Centrifugal Fans

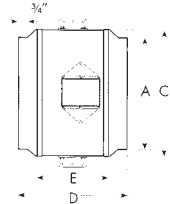
- Backward curve mixed flow fan impeller
- 100% Speed controllable ball bearing 115V motor with overload protection
- Galvanized heavy gauge housing with baked powdercoat finish
- Inlet and outlet slip type duct connections
- Capable of operation in air stream temperatures up to 140°F
- Terminal box prewired
- UL approved



Model	RPM	120V Amps+	Sones*	CFM @ S.P. (INCHES H ₂ O)								Ship Wt. Lbs
				¼	⅜	½	¾	1	1¼	1½	2	
FKD 8XL	2700	2.99	14.1	761	720	680	595	499	393	286		20
FKD 10XL	2850	4.84	21.0	1187	1147	1100	1006	911	810	696	460	25
FKD 12XL	1700	4.80	18.7	1832	1746	1649	1423	1066	606			44
FKD 14XL	1550	7.12	19.9	2416	2303	2180	1936	1662	1294	843		54
FKD 16XL	1600	12.40	25.0	4014	3880	3743	3452	3137	2794	2379	1242	84
FKD 18XL	1700	3.75**	32.0	5995	5874	5754	5500	5199	4909	4602	3703	108

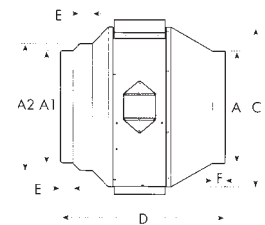
*The sound ratings shown are loudness values in fan sones at 5 ft. in hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A: free inlet fan sone levels @ ½" W.G. Dampers see pg. 15. **FKD18XL 230/460V 3PH (amps shown are for 460V)

FKD 8XL-10XL



Model	Dimensions (inches)						
	A	A1	A2	C	D	E	F
FKD8XL	8	—	—	12½	15½	7	—
FKD10XL	10	—	—	14	15	8	—
FKD12XL	12	12	14	17⅞	18⅞	7⅞	1⅝
FKD14XL	14	14	16	19¾	20¼	1½	1⅝
FKD16XL	16	16	18	22½	23¼	1¼	1⅝
FKD18XL	18	18	20	22¼	29¼	2	1¾

FKD 12XL-14XL-16XL-18XL



FSD Series In-Line Centrifugal Fans



- Backward curve mixed flow fan impeller
- 100% Speed controllable ball bearing 115V motor with overload protection
- Galvanized heavy gauge housing with baked powdercoat finish
- Inlet and outlet "ductmate" type duct connections
- Capable of operation in air stream temperatures up to 140°F
- Terminal box prewired
- UL approved

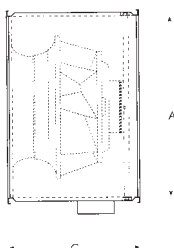


Model	RPM	120V Amps+	Sones*	CFM @ S.P. (INCHES H ₂ O)								Ship Wt. Lbs
				¼	⅜	½	¾	1	1¼	1½	2	
FSD 18	1700	4.80	12.4	2237	2126	1987	1644	1180	658			65
FSD 20	1600	6.36	14.1	2921	2766	2605	2241	1829	1341	815		81
FSD 22	1600	15.00	21.0	4918	4766	4605	4282	3865	3337	2716	1308	111
FSD 26	1700	3.82**	27.0	6644	6473	6317	5981	5608	5177	4681	3469	134

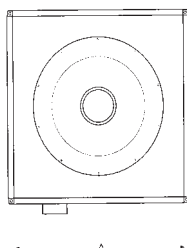
+Amperages are maximum for the given RPM. **FSD26 230/460V/3ø Amps shown are for 460V.

*The sound ratings shown are loudness values in fan sones at 5 ft. in hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A: free inlet fan sone levels @ ½" W.G. FSD26 is @¾" W.G.

Side View



Inlet View



Model	Dimensions (inches)	
	A sq.	C sq.
FSD18	17⅝	15¾
FSD 20	19¾	17¾
FSD 22	21½	19
FSD 26	26	20

Note: Flanges extend ⅞" beyond the "A" dimension

Speed Controls

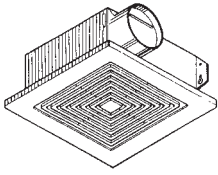
Model	Max. Amps
C64	6
C65	10
C66	15

Additional Accessories:
Backdraft Dampers Pg. 8
Vibration Isolators Pg. 39

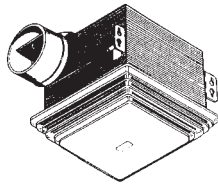
Ask About
Quantity Discounts



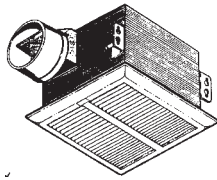
BATHROOM FANS



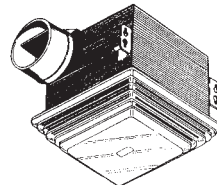
688



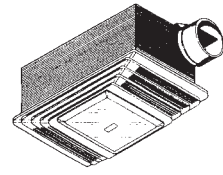
671, 676, 684



HD50, HD80



679



655



AMCA CERTIFIED

CEILING OR WALL MOUNTING - With backdraft damper - Plastic grille

All 115V. AC Type	Model	Control†	CFM	Noise Level Sones	Round Outlet Inches	For Area Sq. Ft.	Amp	Housing Size			Grille Size	Ship Wt. Lbs.
								L	W	H		
Bathroom fans	Economy	688*	50	4.0	3	45	.9	7½	7¼	3⅝	9¼ x 9	5
	Deluxe	671*	70	6.0	3	65	1.15	7½	7¼	3⅝	9¼ x 9	5
	Premium	684*	80	2.5	4	75	.5	8¼	8	5¾	11½ x 10⅝	8
	Premium	676*	110	4.0	4	100	1.3	8¼	8	5¾	11½ x 10⅝	8
Commercial Duty continuous operation	HD 50*	C64	50	1.5	4	45	.4	8¼	8	5¾	10¼ x 10¼	7
	HD 80*	C64	80	2.5	4	75	.5	8¼	8	5¾	10¼ x 10¼	7
Fan with Light (100 watt)	679*	#68	70	3.5	4	65	2.	8¼	8	5¾	11½ x 9⅝	8
Fan with Light & Heat (1300w.)	655	#66	70	4.0	4	65	12.8	14	8¼	5¾	15¾ x 10⅝	14

Model 655 has separate blower for heater. *U.L. listed for use in tub/shower enclosure with GFCI wiring. Metal grille for 671, 676, 684, 688 available.
†Optional model MHR control (see p.19)



QTR80, QTR110



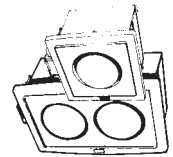
QTXE150



QTR110L



750



162, 164

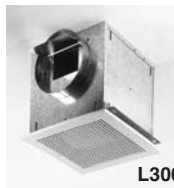
All 115V. AC Type	Model	Control**	CFM	Noise Level Sones	Round Outlet Inches	For Area Sq. Ft.	Amp	Housing Size			Grille Size	Ship Wt. Lbs.
								L	W	H		
Fan Only	QTR80*	C64	80	1.0	4	75	.7	11¼	10⅝	7⅝	13 x 14	12.4
Fan Only	QTR110*	C64	110	1.5	4	100	.9				13 x 14	12.4
Fan Only	QTXE150*	C64	150	1.4	6	140	.5				14 x 15	13.2
Fan w/Light/Nite Light	QTR110L*	#67	110	1.5	4	100	1.8				12⅝ x 14	13.8
Fan w/Light/Nite Light	750*	#67	100	3.5	4	95	1.9	9	9	9	15 Rd.	12
Fan & 250 w. Infrared bulb (1 bulb)	162†	#68	70	3.0	4	65	3.5	12½	11½	5¾	10½ x 10	8
	164†	#68	70	3.0	4	65	5.5	18½	12	6½	10½ x 16	10

*U.L. listed for use in tub/shower enclosure with GFCI branch wiring. **Optional model MHR control (see page 19) †R40 Infrared bulbs not included.

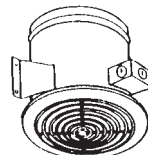
Broan Kitchen & Bathroom Fans



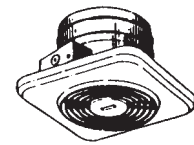
502, 503



L300KMG



673

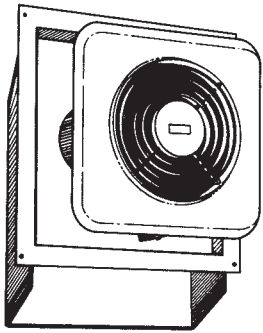


504, 505

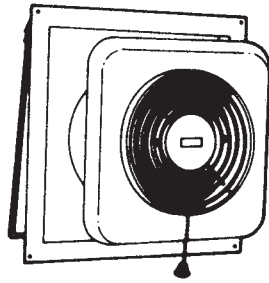
All 115V. AC Type	Model	CFM	Noise Level Sones	Outlet Size Inches	Fan Size Dia.	Amp.	Housing Size			White Polymer Grille Size†	Ship Wt. Lbs.
							L	W	H		
Wall or Ceiling Mount	503	160	5.5	3¼ x 10	8	1.7	14	12	3¼	11½ sq.	10
	502	270	7.0	3¼ x 10	10	1.7	16¾	13⅝	3¼	13½ sq.	12
	L300KMG*	286	2.8	8	Blower	2.7	12¼	12¼	11¼	14 x 14	25
Ceiling Mount only (No dampers)	673	60	4.0	6¼	6	1.0	6¼ dia. X 5⅝			8 dia.	4
	505	180	4.5	8¼	8	1.5	8¼ dia. X 7			11¼ sq.	8
	504	350	6.5	10¼	10	1.7	10¼ dia. X 7			13½ sq.	10

No. C64 variable speed control for all fans shown above. No. 472 damper with reducer to 8" for Model 504 †Metal grille for models 502, 503, 504, 505 available.
*Suitable for use above cooking surface. Motor is thermally protected for higher temp., galv. steel impeller, metal grille. Dishwasher safe aluminum mesh filter LAF1 (12" x 12" p. 19)

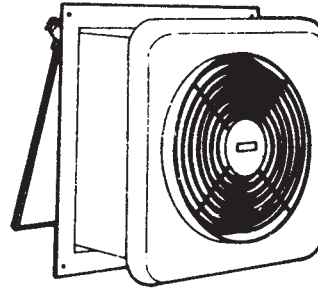
BROAN WALL FANS



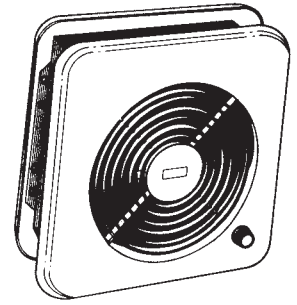
508, 509



506, 507



12C



510, 511

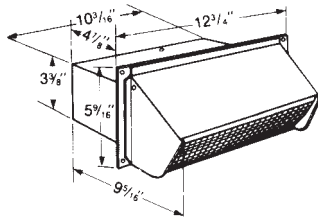
With backdraft dampers - Unbreakable white polymer grilles (paintable)**

All 115V AC Type	Model	Control*	CFM	Noise Level Sones	Blade Dia.	RPM	Amp.	For Wall Thickness	Hole Required Dia.	Grille Size Sq.	Ship Wt. Lb.
Exterior weatherhood	509	C64	180	5.0	8	1500	1.5	4½ to 9½	9"	11¼	11
	508	C64	270	6.0	10	1500	1.7	4½ to 9½	11"	13½	16
Chain-operated w/outside door	507	C64	250	5.0	8	1500	1.5	4½ to 9½	9"	11¼	11
	506	C64	480	6.5	10	1500	1.7	4½ to 9½	11"	13½	13
Motor-door	12C	C64-3	380	4.5	10	1500	1.7	5 to 10	12" Sq.	13½	20
Room to room thru wall	511	(on fan)	180	3.5	8	1500	1.5	3 to 5½	12" Sq.	13½	8
	510	(on fan)	380	5.5	10	1500	1.7	3 to 5½	12" Sq.	13½	9

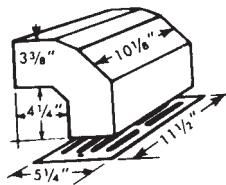
**Optional metal grille available for 12C, 506, 507, 508, 509

*Optional model MHR control (see below) electronic delay switch.

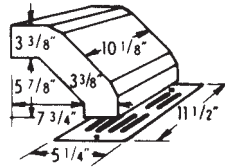
ACCESSORIES



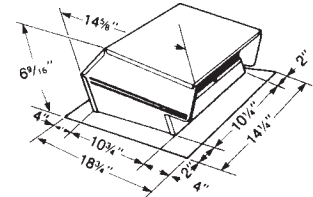
WALL CAP
Spring Loaded Damper
Black Enamel Finish
Model 639



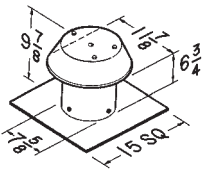
SHORT EAVE ELBOW
Damper & Grille
Black Enamel Finish
Model 430



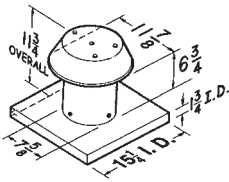
LONG EAVE ELBOW
Damper & Grille
Black Enamel Finish
Model 431



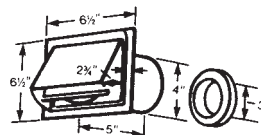
ROOF CAP
Damper & Bird Screen
Black Enamel Finish
Model 634
Model 644 (Alum.)



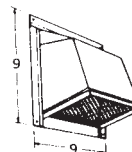
Flat roof installation
Aluminum - natural finish
Built-in screen
Model 611



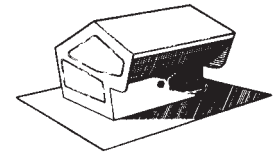
Curb mount installation
Aluminum - natural finish
Built-in screen
Model 611CM



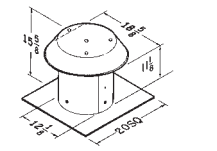
3" or 4" **WALL CAP**
Damper
Aluminum
Model 885AL



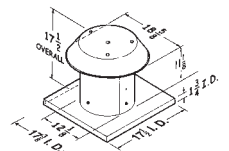
6", 7" or 8" **WALL CAP**
Damper & Bird Screen
Aluminum
Model 641 (6")
Model 643 (8")
(No screen)



ROOF CAP
3" or 4" Duct
Damper & Bird Screen
Black Enamel Finish
Model 636



Flat roof installation
Aluminum - natural finish
Built-in screen
Model 612



Curb mount installation
Aluminum - natural finish
Built-in screen
Model 612CM

TRANSITIONS

Duct Transition	Model
3¼" x 10" to 6"	411
3¼" x 10" to 7"	412
3¼" x 10" to 8"	413

Washable Filters

Model
8" φ Aluminum (fits 505 & 509)
10" φ Aluminum (fits 12C, 504, 508, 510 & 511)
LAF1 12" x 12" (fits L300KMG)

SWITCHES

Model	Timers	Model	Control
C71-5	5 min.	C64	Vari-speed-
C71-15	15 min.	C64-3	For Model 12C
C71-60	60 min.	66	For Model 655
C72	12 hr. (+ hold)	68	For Model 679, 162, 164
		67	For QTR110L, 750

Model MHR: Electronic Fan-Light-Time Delay Control
120v 7.5 amp (fans) 120v 10.0 amp (heaters) 500 w. (lamps)
Adjustable timer allows fan operation after light switched off.



L100
L150
L200
L250
L300



LOWEST SOUND LEVELS IN THE INDUSTRY



L400
L500
L700



L900
L1500

- Attractive white grille blends with any decor.
- Specially designed resilient motor mount helps eliminate vibration
- Low RPM motors are permanently lubricated and thermally protected.
- Rugged 20 ga. steel housing with 1/2" acoustic insulation.
- Automatic backdraft damper located within duct connector.
- 8 position adjustable mounting brackets permit installation flexibility.
- Available in ceiling or in-line models.
- Air volume may be varied with speed control.
- Available in 240 vac (Special order).



Ceiling Model	In-Line Model	CFM* static press. (in water)					Sones @ 1/10"	Motor		Outlet Size (in.)	Housing (In.)			Grille Molded Plastic (P) Enameled Steel (S)	Wt. Lbs.
		0	1/4	3/8	1/2	3/4		Max. RPM	120v Amps		L	W	H		
L100 L150	L100L L150L	136 181	93 141	80 132	65 124	12 94	.8 1.4	640 710	1.1 1.3	6 Dia.	12 1/4	12 1/4	11 3/4	14 x 14 (P)**	23
L200 L250 L300	L200L L250L L300L	231 272 312	196 250 303	186 242 296	177 233 287	144 201 254	1.8 2.3 2.9	740 830 905	1.8 2.1 2.6	8 Dia.	12 1/4	12 1/4	11 3/4	14 x 14 (P)**	23
L400 L500 L700	L400L L500L L700L	480 538 722	388 491 667	344 463 640	299 434 607	182 339 534	2.4 3.1 4.6	735 810 960	1.4 2.2 2.9	4 1/2 x 18 1/2	21 1/2	12 1/4	11 3/4	23 1/4 x 14 (S)	34
L900 L1500	L900L L1500L	918 1578	877 1438	842 1371	793 1285	636 1103	4.0 8.4	650 955	3.0 5.0	8 x 12	22	18	18	23 3/8 x 19 3/8 (S)	64

*CFM is reduced slightly on in-line models

**Metal Grille L100-L300 Available at extra charge

High Volume Cabinet Ventilators



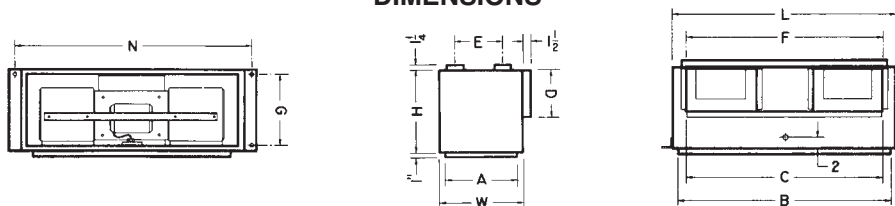
L2000L
L3500EXL
(shown with optional grille and damper kit)

- Designed for continuous operation.
- May be installed in ceiling or wall.
- Shipped in horizontal discharge - convertible to vertical discharge.
- May be converted to ceiling fan with grille kit.
- Air volume may be varied with speed control. (see below)
- L2000 is 115v; L3500EXL is 230v 1Ø



Model	CFM static press. (in water)							Sones @ 1/10"	Motor			Wt. Lbs.
	0	1/8	1/4	3/8	1/2	3/4	1.0		RPM	Volts	Amps	
L2000L	1891	1791	1657	1508	1347	808	-	9.8	965	115	5.8	89
L3500EXL	3608	3452	3278	3073	2893	2429	1693	14.8	1105	230	5.4	144

DIMENSIONS



Model	Inlet		Outlet		Outside Dimensions			Mounting Hole Spacing				Grille	
	A	B	C	D	H	W	L	E	F	G	N	Width	Length
L2000L	12 3/8	35 3/4	33 3/4	7 3/4	14 5/8	14 5/8	38	7 3/4	33 3/4	12 5/8	39 5/8	16 1/4	39 5/8
L3500EXL	14 1/2	43 1/2	41 3/8	9 3/4	16 3/4	16 3/4	45 3/4	10 1/4	41 3/4	12 5/8	47 3/8	18 3/8	47 1/4

ACCESSORIES

Speed Controls
C64 (L100-L900)
C65 (L1500-L2000L)
C75 (L3500EXL) 230V

Wall Caps
641 - 6"
643 - 8"
613 - 12"

Damper Kit
D100 (L2000)
D101 (L3500EXL)

Grille Kit
G102 (L2000L)
G103 (L3500EXL)

Radiation Dampers
RD1 L100-L300
RD2 L400-L700
RD3 L900 & L1500

Duct Transition
423 - 4 1/2" x 18" to 10" (L400-500-700)
T81212 - 8" x 12" to 12" (L900-1500)

Roof Jacks
634 - 8"
437 - 12"

Brick vent
BV8 - 7 3/4" x 8 5/8" x 4"
BV12 - 7 3/4" x 12" x 4"
BV16 - 7 3/4" x 15 5/8" x 4"

DRYER BOOSTER FANS



Tjernlund Products, Inc.

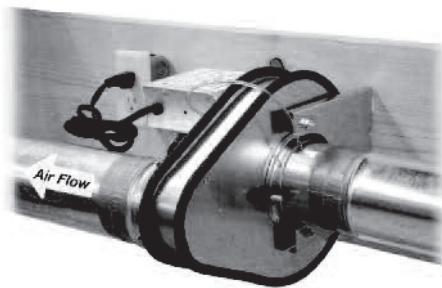


Reduce drying times up to 50% in long or convoluted duct runs with the Dryer Duct Booster®

The Dryer Duct Booster maintains proper exhaust velocities in duct runs up to 100 equivalent feet, optimizing dryer performance.

• For equivalent feet 90° elbows equal 5 feet and 45° elbows equal 2.5 feet.

Dryer Duct Booster® fans can be installed in any mounting orientation



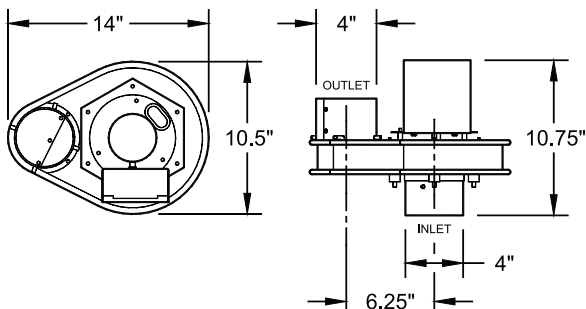
Horizontally Mounted



Vertically Mounted

Model	Voltage	Watts	Amps	CFM
LB1	120 VAC	50	0.5	160

Dimensions



Fantech

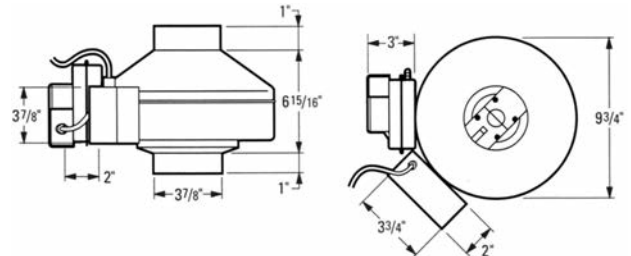


DBF4XL Metal Dryer Booster

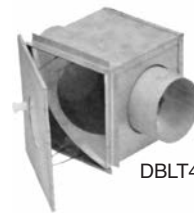
Tap into the power of this dryer booster fan which can be used on duct runs up to 130 feet. Includes fan with galvanized steel housing, automatic pressure sensing switch, mounting bracket, hardware and 5½ foot power cord with plug. Pressure switch activates fan when dryer comes on.

Exhaust Fan Performance

Fan Model	Max Watts	Max Amps	CFM 0" Ps	CFM .2" Ps	CFM .4" Ps	CFM .6" Ps	CFM .8" Ps	CFM 1.0" Ps	Duct Dia
DBF4XL	83	0.73	170	150	134	119	103	86	4"



ACCESSORIES



DBLT4



DB10

DBLT4 Lint Trap

Paintable galvanized metal lint trap for dryer boosting applications. Use when duct length between dryer and booster fan is less than 15 feet. Fits 4-inch duct. Features pull out door with view window, removable lint filter for easy cleaning and ½" flange for flush mount installation.

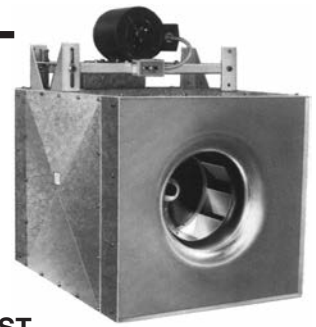
DB10 Pressure Switch

Automatic pressure switch can be used with a Fantech RVF4XL Exterior Mount Fan for dryer boost applications. The automatic switch directs power to the fan in consecutive five minute cycles, effectively providing continuous boost as long as the dryer is on. Switch suitable for 115 volt supply. 3.8 amp rating.

Centri Master[®] IN-LINE CENTRIFUGAL



Direct drive or belt drive available
 Galvanized steel construction
 Aluminum airfoil impeller—non-overloading
 Bearing assembly L-10 life of 200,000 hours
 Operation to 200°F on belt drive applications; 140°F direct drive
 Versatile . . . mounts in any position . . . square in/out
 Easy access to all parts without disconnection of duct
 AMCA Type B spark resistant construction



SEE PP. 17, 23, 24, 25 FOR OTHER IN-LINE FANS

NOT FOR GREASE EXHAUST

DIRECT DRIVE	Model No.	HP	Single Phase		Three Phase		Accessories	@ 1/4" Sonet	Fan RPM	Approx. CFM							Ship Wt.
			1 Speed S	2 Speed M	1 Speed T	2 Speed R				Static Pressure (inches of water)							
										0	1/8	1/4	3/8	1/2	3/4	1	
DIRECT DRIVE	XD100	1/10	X	X(V)	-	-	Vib. Isol.	3.0	1050	460	350						
										570	480	380	230				
DIRECT DRIVE	XD120 B C	1/8 1/8	X X	-	-	-	Vib. Isol.	4.4	955	890	805	650				O.V. =.571 CFM	
										1068	995	910	730				
										1635	1590	1540	1490	1450	1290	860	

‡Maximum RPM shown with the standard one speed motor. For all lower RPMs add solid state speed controller. V=control included (X) Available models

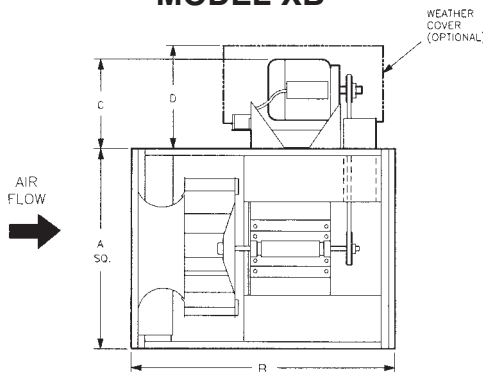
Belt Drive	Model No.	HP	S	M	T	R	Accessories	@ 1/2" Sonet	Fan RPM	1/4	1/2	3/4	1	1 1/2	2	2 1/2	Ship Wt.			
																		Approx. CFM		
Belt Drive	XB9	1/8	X	-	-	-	Supp. Brkt. w/Isol.	11.7	1878	675	525	325	180			O.V. = 1.0 CFM	48			
							Drive Cover	14.0	2274	875	700	600	450	150						
							Chemical	16.7	2524	990	875	750	625	450	150					
							Resist. Coat	21.0	2933	1100	1000	975	875	675	500	260				
	XB120	1/4	X	X	X	-	-	Supp. Brkt. w/Isol.	13	1570	1360	1235	930				O.V. = .571 CFM	100		
								Drive Cover	15	1725	1515	1410	1250	760						
								Chemical	18	2060	1845	1760	1670	1545	740					
								Resist. Coat	21	2335	2110	2040	1965	1880	1580	720	680			
	XB137	1/2	X	X	X	-	-	Supp. Brkt. w/Isol.	12	1365	1790	1490	1275				O.V. = .421 CFM	155		
								Drive Cover	14	1605	2195	1945	1705	1530						
								Chemical	18	1830	2560	2360	2120	1930	1500					
								Resistant	21	2060	2920	2755	2555	2350	2045	1350				
XB161	1 1/2	X	-	-	-	-	Coating	26	2310	3310	3170	3010	2825	2485	2240	1550		170		
							Supp. Brkt. w/Isol.	12	1210	2710	2485	2165					O.V. = .291 CFM			
							Drive Cover	14	1365	3095	2930	2680	2375							
							Chemical	17	1570	3600	3470	3300	3070	2160						
XB200	2	X	-	-	-	-	Resistant	20	1710	3940	3825	3690	3510	3055	1445			230		
							Coating	24	1865	4320	4215	4100	3960	3580	3030	1155				
							Supp. Brkt. w/Isol.	13	985	4285	3830	3375	1890						O.V. = .184 CFM	
							Drive Cover	14	1055	4590	4215	3815	3160							
XB245	3	X	-	-	-	-	Chemical	18	1250	5560	5250	4930	4590	3155				330		
							Resistant	23	1410	6350	6080	5800	5510	4885	3030					
							Coating	27	1525	6910	6660	6400	6140	5590	4870	2305				
							Supp. Brkt. w/Isol.	12	735	6210	5675	4130							O.V. = .119 CFM	
XB300	5	X	-	-	-	-	Drive Cover	16	855	7375	6940	6435	5060					450		
							Chemical	19	965	8425	8045	7645	7160							
							Resistant	25	1100	9700	9370	9055	8680	7600						
							Coating	34	1295	11530	11250	10970	10860	10070	9180	5613				
XB300	7 1/2	X	-	-	-	-	Supp. Brkt. w/Isol.	13	595	8340	7255	5560					O.V. = .082 CFM	600		
							Drive Cover	16	670	9610	8720	7665	5570							
							Chemical	20	775	11340	10690	9800	8880	5870						
							Resistant	23	875	12960	12370	11700	10925	9080						
							Coating	30	1010	15125	14625	14090	13500	12150	10470	5665				

(X) Available models Disconnect switches (p. 43)

Backdraft dampers, see p. 8.

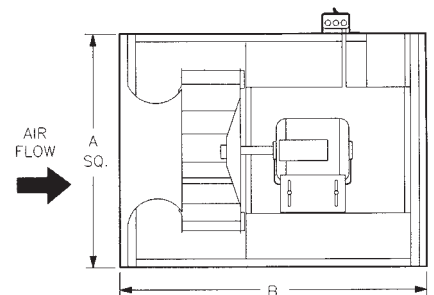
DIMENSIONS

MODEL XB

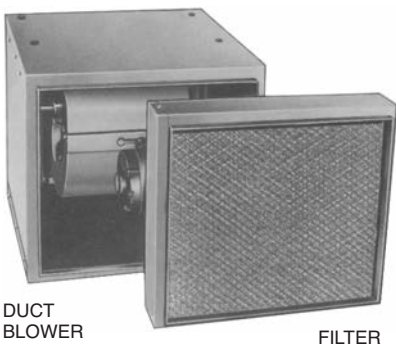


Model (Direct)	A	B			Impeller Size
XD100	14	18 ⁹ / ₁₆			9 ⁷ / ₈
XD120	17 ⁷ / ₈	24 ⁷ / ₈			11 ¹⁵ / ₁₆
Model (Belt)	A	B	C Max	D Max	Impeller Size
XB9	14	18 ¹ / ₂	12	14	10 ³ / ₁₆
XB120	17 ⁷ / ₈	24 ⁷ / ₈	11 ³ / ₁₆	15 ¹ / ₄	11 ¹⁵ / ₁₆
XB137	20 ¹ / ₂	28 ¹ / ₂	11 ³ / ₁₆	15 ¹ / ₄	13 ¹ / ₁₆
XB161	24 ¹ / ₄	32 ¹¹ / ₁₆	13 ¹¹ / ₁₆	18 ¹ / ₂	16 ¹ / ₂
XB200	30	39 ³ / ₄	13 ¹¹ / ₁₆	18 ¹ / ₂	20
XB245	36 ³ / ₄	48 ¹ / ₁₆	13 ¹¹ / ₁₆	18 ¹ / ₂	24 ¹ / ₂
XB300	45	58 ⁷ / ₁₆	16 ³ / ₈	20	30
XB365	54 ³ / ₄	71 ¹ / ₁₆	16 ³ / ₈	20	36 ¹ / ₂

MODEL XD



Duct Blower and Duct Filter

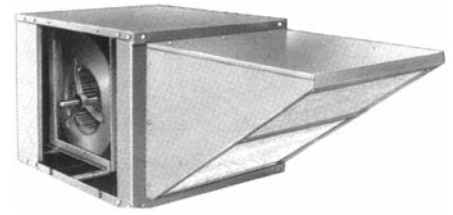


DUCT BLOWER

FILTER

All-purpose indoor cabinet blower with optional compact filter.

- Install in any position-ball bearing blower
- Insulated cabinet for quiet operation
- Drawer type filter rack for easy maintenance
- Access panels on both sides



OUTDOOR DUCT BLOWER WITH HOOD AND WEATHER RESISTANT CABINET

For outdoor installation use heavy duty, weather resistant 9200 models.

Model No.	HP	Single Speed	Static Pressure (inches water)*														Ship Wt. Lbs.								
			10	30	CFM	O.V. FPM	1/8"		1/4"		1/2"		3/4"		1"			1 1/2"		2"		2 1/2"			
		S	T			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP		
207	A	1/8	X	-	400	759	567	.02	737	.04	1019	.07	1257	.11	1448	.15	1761	.24	2020	.37	2242	.42	70		
	B	1/4	X	X	600	1139	822	.07	822	.05	1051	.12	1255	.16	1437	.20	1777	.32	2051	.45	2286	.58			
	C	1/2	X	X	800	1519	975	.14	975	.14	1134	.18	1308	.24	1473	.30	1768	.41	2038	.58	2292	.71			
	D	3/4	X	X	1000	1899	1073	.21	1149	.24	1272	.29	1400	.35	1540	.43	1809	.57	2053	.70					
	E	1	X	X	1300	2409	1469	.43	1414	.48	1526	.67	1618	.92	1713	.69									80
209/9209	B	1/8	X	X	800	951	468	.06	581	.07	786	.12	974	.19	1130	.26	1379	.41	1578	.56	1751	.72	80		
	C	1/4	X	X	1000	1189	534	.09	625	.12	802	.17	964	.23	1118	.31	1384	.48	1590	.67					
	D	1/2	X	X	1200	1427	613	.15	682	.18	834	.24	979	.30	1115	.38	1371	.56							
	E	3/4	X	X	1400	1665	696	.23	750	.26	881	.33	1009	.40	1132	.48									
	F	1	X	X	1600	1902	782	.34	828	.37	936	.44	1050	.52	1162	.60									90
210/9210	B	1/8	X	X	1000	964	422	.06	531	.09	713	.15	869	.23	998	.31	1210	.47	1387	.66			90		
	C	1/4	X	X	1200	1157	470	.10	559	.13	728	.20	873	.28	1005	.40	1221	.55							
	D	1/2	X	X	1400	1350	525	.15	593	.18	749	.26	886	.34	1009	.43	1229	.65							
	E	3/4	X	X	1600	1543	582	.22	640	.25	770	.33	905	.42	1021	.52									
	F	1	X	X	1800	1736	642	.29	693	.33	807	.41	928	.51	1040	.62									100
212/9212	C	1/2	X	X	1600	1097	423	.12	507	.17	658	.26	786	.35	905	.47	1106	.72	1276	.99	1420	1.27	115		
	D	3/4	X	X	2000	1371	489	.21	559	.26	690	.37	809	.49	915	.61	1108	.88	1279	1.19					
	E	1	X	X	2400	1646	562	.35	620	.40	734	.53	840	.66	941	.79	1118	1.08	1278	1.40					
	F	1 1/2	X	X	2800	1920	640	.53	687	.59	786	.73	882	.88	973	1.03	1142	1.35							
	G	2	X	X	3200	2194	721	.78	758	.83	846	.99	932	1.16	1015	1.35									150
215/9215	E	3/4	X	X	2000	974	323	.15	399	.21	529	.34	631	.49	716	.63	856	.96	971	1.30	1071	1.65	170		
	F	1	X	X	2500	1217	372	.26	432	.33	546	.46	650	.64	736	.83	879	1.19	998	1.58	1101	2.0			
	G	1 1/2	X	X	3000	1461	431	.42	471	.49	575	.66	667	.81	754	1.09	899	1.48	1020	1.92	1125	2.37			
	H	2	X	X	3500	1704	491	.59	523	.72	608	.91	693	1.10	771	1.27	918	1.80	1039	2.31	1146	2.81			
	J	3	X	X	4000	1948	553	.94	580	1.02	646	1.22	725	1.44	798	1.65	935	2.14	1058	2.74					240
218/9218	F	1	X	X	4000	1297	302	.40	351	.50	448	.74	526	.97	610	1.28	754	1.93	868	2.62	967	3.32	275		
	G	1 1/2	X	X	4500	1461	328	.55	373	.66	460	.92	538	1.18	605	1.44	752	2.10	871	2.96	971	3.75			
	H	2	X	X	5000	1621	356	.72	395	.83	473	1.11	551	1.41	615	1.69	746	2.39	869	3.22	973	4.03			
	J	3	X	X	5500	1785	384	.94	420	1.06	491	1.35	563	1.68	630	2.00	741	2.65	864	3.58	972	4.51			
	K	5	-	X	6000	1945	413	1.19	445	1.32	510	1.61	575	1.95	641	2.32	750	3.00	857	3.79	969	4.82			
					6500	2110	442	1.50	471	1.65	532	1.94	592	2.45	653	2.7	765	3.45	858	4.20					
					7000	2270	472	1.83	499	1.98	555	2.28	611	2.66	666	3.07	777	3.91	868	4.69					
					7600	2464	508	2.31	533	2.48	584	2.81	635	3.18	687	3.61	791	4.53							330

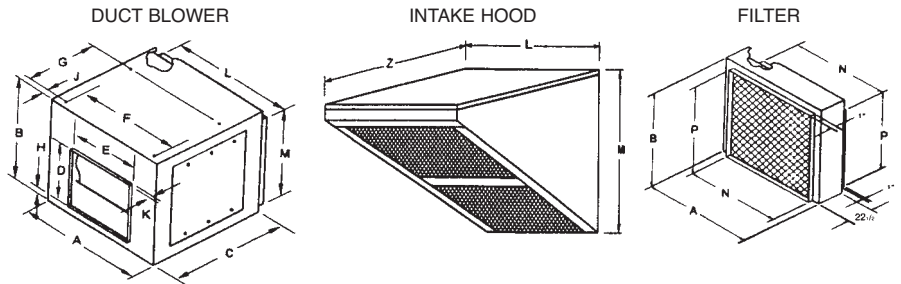
*Static pressure reduction on blowers designed for higher pressure could result in motor overload.
(X) Available models

ACCESSORIES: Vibration hangers Aluminum mesh filters Intake hood (includes filter)

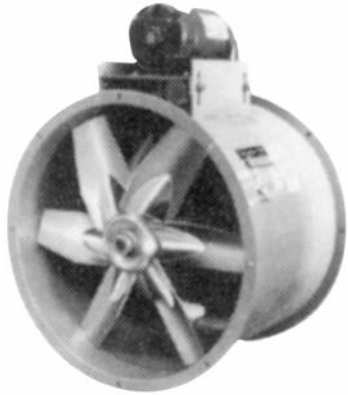
Aluminum Mesh Filter	Intake Hood	
Model	S.P.*	Model**
F207	.171	-
F209	.124	H09
F210	.124	H10
F212	.241	H12
F215	.182	H15
F218	.241	H18

*S.P. drop @ max. CFM shown above. **Incl. Filters.

SEE P. 45 FOR ROOF MOUNTED, SIDE INTAKE AIR SUPPLY UNITS



Model	Duct Blower Dimension														Filter Dimensions				
	Width A	Ht. B	Length C	Outlet D	E	F	G	H	J	K	Inlet L	M	Z	A	B	Inlet N	P	Filter Size	
207	18	15 3/8	23	8 1/4	9 3/16	14 1/2	9 5/8	1 1/4	1 1/4	7/8	15 7/8	13 3/8	-	17 3/4	15 3/8	16	13 1/2	14 1/8 x 16 5/8	
209	21	18	23	10 1/4	11 13/16	17 1/2	11 3/4	1 1/4	1 3/4	7/8	19	16	21	21	18	19 1/8	16 1/8	16 3/4 x 19 7/8	
210	22 1/4	20	24 3/4	11 3/8	13 1/8	18 3/4	13 3/8	1 1/4	1 3/4	7/8	20 1/4	18	26	22 1/4	20	20 3/8	18 1/8	18 3/4 x 21 1/8	
212	27	23	27 1/2	13 7/16	15 5/8	23 1/2	16 1/8	1 1/4	1 3/4	7/8	25	21	31	27	23	25 1/8	21 1/8	21 3/4 x 25 7/8	
215	33 1/2	28	32	15 7/8	18 5/8	28	19 1/2	2 5/8	1 3/4	7/8	30 1/2	25	34	32 1/2	26 3/4	30 5/8	25 1/8	25 3/4 x 31	
218	41 1/2	34	44	19 5/8	22 5/8	35	24	3 3/4	1 3/4	1 1/8	35 3/8	31 5/8	40	37	33 1/4	35 1/4	31 1/2	32 1/4 x 35 7/8	



Tubemaster

BELT DRIVE TUBEAXIAL FANS



- Heavy duty all welded aluminum propeller
- Permanently lubricated ball bearings
- Maximum operating temperature to 200° F*
- Tough acrylic epoxy finish
- Designed to operate in any position

Note: Axial fans running at relatively high tip speeds tend to be noisy. Describe installation when ordering if fan noise is a potential problem.

Important: Duct must not be sharply reduced or turned near fan inlet or discharge.

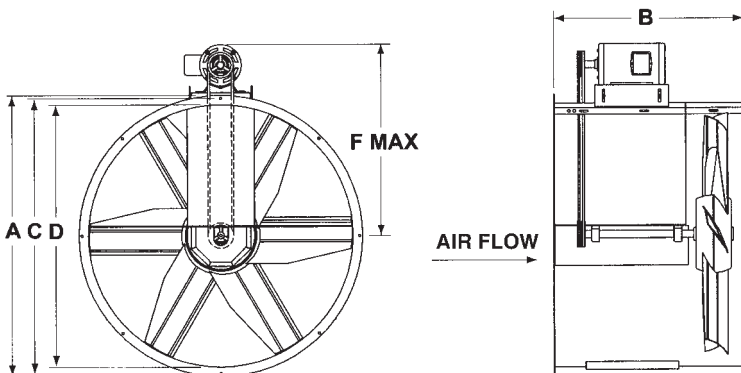
Model No.	HP	1 Phase S	3 Phase T	Approx. Fan RPM	Approx. CFM						Est. Ship Wt.
					Static pressure (inches water)						
					0	¼	⅓	½	¾	1	
HA12	C ½	X	X	2320	1970	1790	1670	1520			49
	D ½	X	X	2680	2270	2120	2030	1930	1660		51
	E ¾	X	X	3070	2600	2470	2400	2330	2130	1870	54
HA16	C ½	X	X	1976	2994	2613	2353	1929			67
	D ½	X	X	2267	3435	3121	2919	2683			69
	E ¾	X	X	2600	3940	3666	3525	3337	2871		72
	F 1	X	X	2855	4326	4077	3952	3806	3463	2924	73
HA18	D ½	X	X	1730	4060	3660	3440	3160	2000		74
	E ¾	X	X	1980	4640	4270	4080	3880	3370		77
	F 1	X	X	2180	5120	4800	4640	4450	4050		78
	G 1½	X	X	2495	5860	5580	5450	5300	4980	4600	88
HA24	E ¾	X	X	1250	6750	5950	5520	5000			114
	F 1	X	X	1375	7450	6750	6360	5910	4650		115
	G 1½	X	X	1570	8500	7900	7600	7250	6450		125
	H 2	X	X	1730	9350	8800	8520	8250	7950	7630	134
	J 3	X	X	1980	10660	10220	9970	9720	9200	8600	151
HA30	F 1	X	X	942	10000	8800	8050	7050			229
	G 1½	X	X	1078	11500	10450	9850	9100	6700		239
	H 2	X	X	1187	12600	11750	11250	10650	9150		248
	J 3	X	X	1358	14450	13700	13250	12800	11700	10250	265
	K 5	-	X	1610	17120	16440	16070	15680	14890	13980	279
HA36	G 1½	X	X	799	14550	12900	11900	10400			284
	H 2	X	X	880	16050	14500	13700	12650	7800		293
	J 3	X	X	1007	18350	17000	16300	15500	11700	10250	310
	K 5	-	X	1193	21750	20600	20100	19400	18100	16450	324
HA42	H 2	X	X	683	19650	17250	15750	13700			564
	J 3	X	X	781	22500	20400	19250	17900	13800		581
	K 5	-	X	926	26650	25000	24000	23000	20750	17700	595
	L 7½	-	X	1060	30500	29100	28300	27600	25900	23800	646
	M 10	-	X	1170	33550	32240	31520	30780	29260	27530	666

ACCESSORIES

Size	Companion Flanges	Drive Cover	Belt Guard	Access Door	Chem. resist. Coat*	Disc. Sw.
HA12	X	X	X	X	X	X
HA16	X	X	X	X	X	X
HA18	X	X	X	X	X	X
HA24	X	X	X	X	X	X
HA30	X	X	X	X	X	X
HA36	X	X	X	X	X	X
HA42	X	X	X	X	X	X

*See page 38 for coatings
(X) Available accessories

(X) Available models *High Heat models available sizes 16-42 for temps up to 350° (Special order)



DIMENSIONS (INCHES)

Model	A	B	C	D	F
HA12	14.69	12.00	13.44	12.19	17.00
HA16	18.75	16.50	17.50	16.06	19.00
HA18	21.13	16.50	19.88	18.44	20.50
HA24	27.00	18.00	25.75	24.38	24.00
HA30	33.75	24.00	32.25	30.50	29.00
HA36	39.75	29.00	38.25	36.50	32.00
HA42	45.75	32.00	44.25	42.50	37.00

Dimensions are shown in inches.

RADIAL BLADE BLOWERS

DIRECT DRIVE - ARRANGEMENT 4



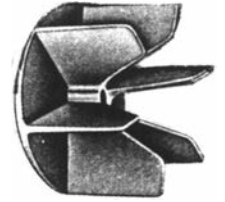
CW-BH Blower

Recommended for small kitchen hoods where grease filters may or may not be used-also for air containing dirt, dust, lint or other foreign material.

Wheels-Constructed with straight radial blades of heavy cast aluminum-Self cleaning.

Dynamically balanced, Spark resistant. Suitable for 250°F. Max.

CLOCKWISE ROTATION-bottom horizontal discharge is furnished unless otherwise specified. Discharge position and rotation can be changed. Rotation is as viewed from motor end. (See page 31.)



ASSEMBLED AND TESTED-WITH BALL BEARING MOTOR WHEN ORDERING: INCLUDE PHASE, VOLTS, ROTATION & DISCHARGE

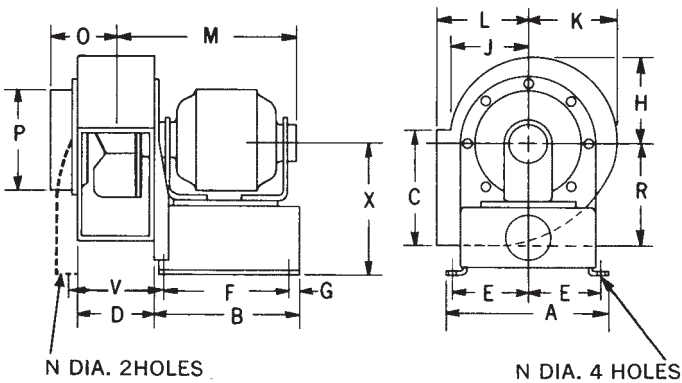
Model No.	HP	115/230V SINGLE PHASE		THREE PHASE		RPM	CFM										Ship Wt. Lb.	
		1 Spd.	2 Spd.	1 Spd.	2 Spd.		Static pressure (inches water)											
		S	M	T	R		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2		
KE 8	1/8	X	X	X	-	1750	493	448	396	334	93							35
KE 9	1/4	X	X	X	-	1750	848	788	724	655	462							40
KE 11	1/2	X	X	X	X	1750	1524	1457	1386	1309	1134	916	617	97				60
KE 12	1	X	X	X	X	1750	2400	2331	2257	2179	2007	1807	1564	1252	812	166		120
KE 14	2	X	-	X	X	1750	3307	3221	3134	3046	2863	2664	2438	2164	1786	1181		150

(X) Available models

ACCESSORIES

Blower Model	Vibration Pads	Drive Cover	Chemical Resistant Coating	Shutter to fit Discharge	Disc. Switch
KE 8	X	X	X	X	X
KE 9	X	X	X	X	X
KE 11	X	X	X	X	X
KE 12	X	X	X	X	X
KE 14	X	X	X	X*	X

*Square...Model A14 shutter (p. 8.) (X) Available accessories



$$\text{Outlet Velocity (FPM)} = \frac{\text{CFM}}{\text{Area (Sq. Ft.)}}$$

Tip Speed (FPM)
At 1750 RPM = 458 x Dia. (in.)

Construction is of 16 gauge steel housings and bases—Arc welded for rigidity.

Finish is Dark Gray baked polyester.

Blower Dimensions

Certified Dimension Prints furnished upon request

Model No.	Wheel	Bore*	OUTLET										INLET							
			A	B	C	D	E	F	G	H	J	K	L	M*	N	O	P	R	V	X
KE-8	7 3/4 x 4	1/2	11	8	8 1/4	5 3/8	5	7	1/2	6	4 5/8	6 3/4	6 7/8	10 3/4	3/8	3 3/4	8	8	-	8 1/2
KE-9	9 x 5	1/2	12 1/2	8	10 3/4	6 1/2	5 5/8	7	1/2	6 3/4	5 5/8	7 3/4	7 1/8	11 3/4	3/8	4 5/16	9	9 1/4	-	9 3/8
KE-11	10 1/2 x 5 3/8	5/8	14 3/4	9	11 3/4	8	6 7/8	7 1/2	3/4	8	6 3/4	9 1/8	8 1/8	13 1/4	3/8	5 1/16	10	10 3/4	-	11 3/4
KE-12	12 1/2 x 7 1/2	5/8	16 3/8	10 1/2	13 1/4	9 3/8	7 3/8	8 3/4	7/8	10 1/8	8 1/2	11 1/2	10 1/2	15 3/16	9/16	6 3/8	13 1/4	13 1/4	11 1/8	17
KE-14	13 1/2 x 8 1/2	7/8	17 5/8	10 1/2	14 5/8	10 3/4	8	8 3/4	7/8	11 1/8	9 3/8	12 5/8	11 3/8	16 3/4	9/16	7	14 1/2	14 5/8	12 1/4	17

*Bore & "M" varies with frame.

Peerless

AMCA CERTIFIED

Pressure Blowers

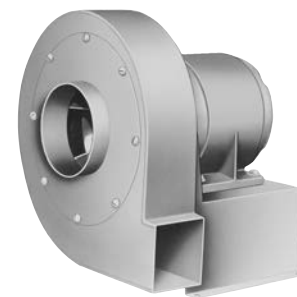
DIRECT DRIVE - ARRANGEMENT 4



Pressure blowers are generally used on industrial applications for small high pressure exhaust systems where air is laden with dust or grit and also for supplying high pressure air for conveying and cooking. Not suitable for heavy, coarse material. See p. 34.

WHEELS—Constructed with straight radial blades of heavy cast aluminum for self cleaning features, dynamically balanced and designed for efficient operation—Spark resistant. Suitable for 250°F Max.

CLOCKWISE ROTATION—Bottom Horizontal discharge is furnished unless otherwise specified. Discharge position and rotation can be changed. Rotation is as viewed from motor end. (See p.31.)



CW-BH Blower

ASSEMBLED AND TESTED - WITH BALL BEARING MOTOR WHEN ORDERING: INCLUDE PHASE, VOLTS, ROTATION AND DISCHARGE

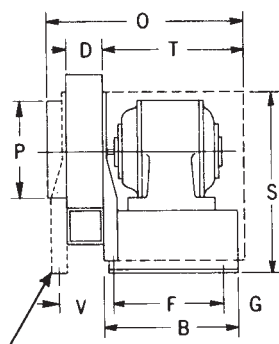
Model No.	HP	With Standard Open Motor		RPM	CFM												Ship Wt. Lb.
		1 Phase*	3 Phase		Static pressure (inches water)												
		S	T		1	2	3	4	5	6	7	8	9	10	11	12	
PW 8	1/8	X	X	3500	256	216	165	70									35
PW 9	1/8	X	X	3500	445	399	346	282	195								40
PW 11	1	X	X	3500	746	692	635	575	508	431	329						65
PW 12	2	X	X	3500	1145	1090	1033	974	911	842	765	672	549				80
PW 14	5	-	X	3500	2037	1952	1866	1777	1685	1587	1482	1367	1236	1081	874	474	135

*Single phase is 115V or 230V (X) Available models

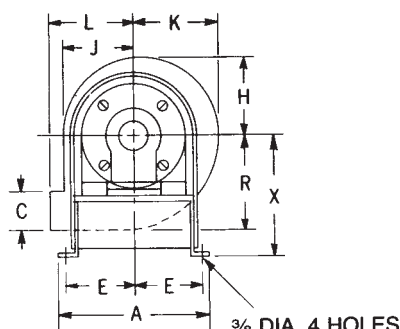
ACCESSORIES

Model	Special Motor				Vibration Pads	Drive Cover	Chemical Resistant Coating	Disc. Switch
	Enclosed		Exp. Proof†					
	1Ø	3Ø	1Ø	3Ø				
PW 8	X	X	X	-	X	X	X	X
PW 9	X	X	X	-	X	X	X	X
PW 11	X	X	X	X	X	X	X	X
PW 12	-	X	-	X	X	X	X	X
PW 14	-	X	-	X	X	X	X	X

†See p. 5 for motor description (X) Available accessories



3/8 DIA. 2 HOLES (PW-14)



3/8 DIA. 4 HOLES

$$\text{Outlet Velocity (FPM)} = \frac{\text{CFM}}{\text{Area (Sq. Ft.)}}$$

$$\text{Vel. Press.} = \left[\frac{\text{OV}}{4005} \right]^2$$

Tip Speed (FPM)
At 3500 RPM = 916 x Dia. (in.)

Construction is of 16 gauge steel housings and bases—Arc welded for rigidity.

Finish is Dark Gray baked polyester.

Blower Dimensions

Certified Dimension Prints furnished upon request

Blower	Wheel	Bore*	OUTLET													INLET				
			A	B	C	D	E	F	G	H	J	K	L	O	P	R	X	S	T	V
PW-8	7 3/4 x 2 1/4	1/2	11	8	3	3	5	7	1/2	5 3/8	4 7/8	5 7/8	5 7/8	16	4	6 5/8	8 1/2	13 1/8	12	-
PW-9	9 x 2 3/4	1/2	12 1/2	8	3 1/2	3 1/2	5 5/8	7	1/2	6 3/8	5 3/4	6 3/8	6 3/4	20 3/4	5	7 1/2	9 3/8	14 5/8	16	-
PW-11	10 5/8 x 3	5/8	14 3/4	9	4	3 1/2	6 7/8	7 1/2	3/4	7 1/4	6 1/2	8	7 5/8	20 3/4	6	8 5/8	11 3/4	18 1/4	16	-
PW-12	12 1/2 x 3	7/8	17	8	5	4	8	6 1/2	3/4	8 1/4	7 1/2	9	9 5/8	20 1/8	7	10	10 5/8	18 3/8	15	-
PW-14	13 1/2 x 4 3/8	1 1/8	17 5/8	11 1/4	7 1/8	5 3/4	8	9 1/16	1	10 1/2	9 5/8	11 3/8	11	22	8	11 1/2	12 5/8	21 1/2	15	7 1/4

*Could vary depending on motor frame size used.

PHONE: (781) 393-4456
1-800-937-4326
FAX: (781) 396-4581

CATALOG #38
www.centralfan.com

CENTRAL FAN CO., INC.
3890 MYSTIC VALLEY PKWY.
MEDFORD, MA 02155

DIRECT DRIVE UTILITY BLOWERS

FORWARD CURVE WHEELS - SINGLE INLET - ARRANGEMENT 4



CW-BH Blower

For general ventilation where duct systems are required. Compact, easy to mount and quiet in operation, these blowers are designed to deliver large volumes of air economically. Ideal for wash rooms, boiler rooms, restaurants, and small hood exhaust.

Note: Low static pressure systems may overload certain motors. Where this condition exists, increase the static pressure with duct work, dampers, etc.

CLOCKWISE ROTATION—Bottom horizontal discharge (as shown in photo) furnished unless otherwise specified. DISCHARGE POSITION easily changed to any one of eight different positions. Rotation as viewed from the motor end. (See page 31.)

Suitable for temperatures to 250°F. (500° with slinger)

Wheels are steel construction. Available with spark resistant aluminum wheels.

ASSEMBLED & TESTED: With Open Ball Bearing Motor.

Model	HP	120v Single Phase			3 Phase	RPM	CFM								Ship Wt.		
		1 Speed		2 Speed			1 Speed	Static Pressure (inches water)									
		S	M	T				0	1/8	1/4	3/8	1/2	5/8	3/4		1	1 1/4
D5 A	1/8	X	X	X	1750	184	169	144	112	60							25
D6 A	1/8	X	-	-	1140	390	330	250	100								25
	1/8	X	X	X	1750	595	560	515	470	420	365	300					25
D8 A	1/8	X	-	-	1140	760	680	620	535	430							40
	1/8	X	X	X	1750	1150	1085	1050	1005	960	915	865	750	580			40
D9 C	1/4	X	X(v)	X	850	875	835	780	680	470							70
		X	X(v)	X	1140	1180	1160	1125	1090	1035	965	855					
D11 E	1/2	X	X	X	850	1520	1380	1290	1145	1010	860						80
		X	X	X	1140	2060	1970	1870	1800	1710	1605	1500	1290	1020			

(V) = Variable speed includes solid state control (X) Available models

HIGH SPEED UTILITY BLOWERS

For high static pressure applications such as garage monoxide systems, electronic cooling and installations requiring extra long duct lengths.

Model No.	HP	115/230V SINGLE PHASE		THREE PHASE		RPM	CFM								Ship Wt. Lb.				
		1 Spd. 2 Spd.		1 Spd. 2 Spd.			Static pressure (inches water)												
		S	M	T	R		1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4		2 1/2	2 3/4		
D**	1/2	X	X	X	X	1750	X	1020	895	810	733	615						60	
D9 E	3/4	X	X	X	X	1750	X	X	X	1550	1445	1290	1100					70	
		X	X	X	-		1720	1675	1620	1550	1445	1290	1100					80	
D11 G	1	X	X	X	-	1750	X	X	X	X	1465	1425	1280	1120	910			100	
	1 1/2	X	-	X	-		X	X	X	1900	1840	1730	1600	1450	1280	1040			110
	2	X	-	X	X		X	X	X	2500	2415	2240	2130	1990	1850	1660			120

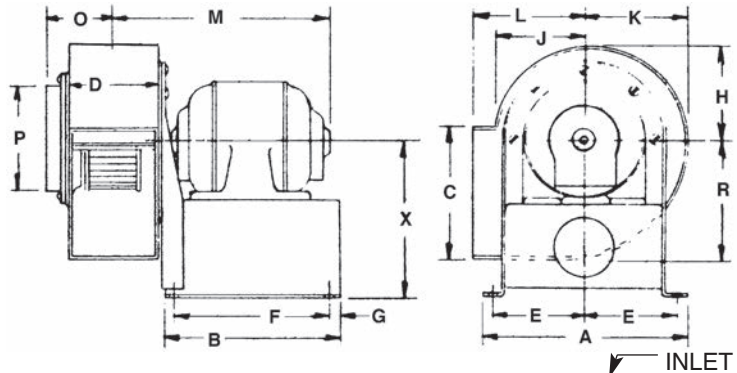
**D9D Not available spark resistant or CCW. X = Low S.P. will cause motor overload. (X) Available models

EXTRAS

Model No.	Drive Cover	Vib. Pads	Spark Resist. Wheel	Shutter to fit Disch.	Chemical Resist. Slinger	XP Motor†
D5	X	X	X	X*	X	X
D6	X	X	X	X*	X	X
D8	X	X	X	X	X	X
D9	X	X	X	X	X	X
D11	X	X	X	X	X	X

*Square...Model A8 (Page 8) †See p. 5 for motor description (X) Available accessories

SEE PAGES 36, 37, 38 FOR SOLID PVC BLOWERS



BLOWER DIMENSIONS

Model No.	Wheel	A	B	C	D	E	F	G	H	J	K	L	M*	N	O	P	R	X
D5	4 3/4 x 2 1/2	8 3/8	7	5 1/8	3 3/8	3 3/4	6	1/2	3 1/2	3 3/8	3 3/4	4 1/8	11 1/2	3/8	2 3/4	4	4 5/8	5 1/4
D6	6 1/4 x 3	9 3/8	8	7 3/8	4 1/4	4 1/4	7	1/2	5	4	6	5	11 7/8	3/8	3 1/8	6	7 1/8	8 1/2
D8	7 3/4 x 3 7/8	11	8	8 1/4	5 3/8	5	7	1/2	6	4 5/8	6 3/4	6 7/8	12 1/2	3/8	3 3/4	8	8	8 1/2
D9†	9 x 4 1/2†	12 1/8	8	10 3/4	6 1/2	5 5/8	7	1/2	6 3/4	5 5/8	7 3/4	7 1/8	13 1/4	3/8	4 3/8	9	9 1/4	9 7/8
D11 E,H	10 5/8 x 5 1/4	14 3/4	11 1/2	11 3/4	8	6 7/8	10	3/4	8	6 3/4	9 1/8	8 1/8	15 1/2	3/8	5	10	10 3/4	11 3/4
D11 F G	10 5/8 x 3 10 5/8 x 4				5 7/8													

*M varies with motor frame size †D9, C, E, F wheel = 9 x 4 1/2 D9D wheel = 9 x 3 (cw steel only)

BELT DRIVE UTILITY BLOWERS

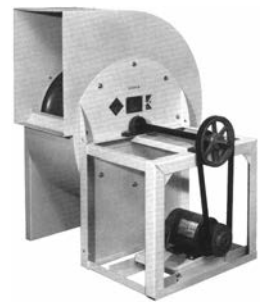
Recommended for clean air ventilation where static pressures do not vary over a wide range. Use backward curved blowers (next page) where system conditions vary or pressure not known.

Not recommended for kitchen hood exhaust.

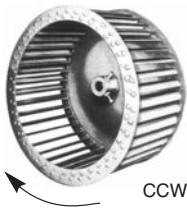
Wheel rotation and discharge position - page 31

Blower dimensions - page 31

BLOWER DIMENSIONS PAGE 31



CCW-TH Blower



CCW



SIZES SHOWN ARE NORMAL STOCK. OTHER SIZES ALSO AVAILABLE.

Model No.	HP	115/230v SINGLE PHASE		THREE PHASE		@ 1/4" S.P.		See Note Below for CFM vs. RPM vs. S.P. Relationship								Ship Wt.
		1 Speed S	2 Speed M	1 Speed T	2 Speed R	Blower RPM*	O.V. FPM	Approx. CFM*								
								Static pressure (inches water)								
8	A 1/8	X	-	-	-	1200	2200	650	590	560	500	O.V. = 3.38 x CFM			60	
	B 1/4	X	X	X	-	1300	2700	800	700	650	600	500				
	C 1/2	X	X	X	-	1400	2900	850	800	750	700	650	500			
	D 3/4	X	X	X	-	1600	3400	1000	950	900	850	800	750	650		
	E 1	X	X	X	-	1800	4000	1200	1150	1100	1050	950	900	800		750
9	A 1/8	X	-	-	-	800	1700	800	750	650	600	O.V. = 2.14 X CFM			65	
	B 1/4	X	X	X	-	900	2000	950	875	800	750					
	C 1/2	X	X	X	-	1000	2200	1050	1000	950	850	750				
	D 3/4	X	X	X	-	1200	2600	1200	1150	1100	1000	950	900			
	E 1	X	X	X	-	1400	3000	1400	1350	1300	1250	1200	1100	1000		900
11	B 1/4	X	X	X	-	700	1700	1100	1050	950	800	O.V. = 1.57 X CFM			75	
	C 1/2	X	X	X	-	800	2000	1300	1200	1100	1000					
	D 3/4	X	X	X	X	900	2400	1500	1400	1250	1200	1050				
	E 1	X	X	X	X	1100	2700	1700	1600	1550	1500	1350				
	F 1	X	X	X	X	1200	3100	2000	1900	1800	1700	1600	1500	1300		
12	C 1/2	X	X	X	-	600	1900	1650	1500	1300	1150	O.V. = 1.17 X CFM			140	
	D 3/4	X	X	X	X	700	2200	1900	1750	1650	1500	1200				
	E 1	X	X	X	X	800	2600	2200	2100	2000	1900	1700	1400			
	F 1	X	X	X	X	900	2900	2500	2400	2200	2150	2000	1700	1500		
	G 1 1/2	X	-	X	X	1000	3400	2900	2800	2700	2600	2500	2300	2000		1800
15	D 1/2	X	X	X	X	500	2000	2500	2350	2100	1900	O.V. = .78 X CFM			180	
	E 3/4	X	X	X	X	600	2300	2900	2800	2700	2400	2000				
	F 1	X	X	X	X	700	2600	3300	3200	3000	2800	2500	2100			
	G 1 1/2	X	-	X	X	800	2900	3700	3600	3500	3400	3100	2800	2400		
	H 2	X	-	X	X	900	3300	4200	4100	3800	3700	3500	3300	3000		2700
18	E 3/4	X	X	X	X	400	1900	3600	3400	3200	2800	O.V. = .53 X CFM			265	
	F 1	X	X	X	X	500	2200	4100	3800	3600	3400	2800				
	G 1 1/2	X	-	X	X	550	2500	4700	4500	4300	4100	3600	3200			
	H 2	X	-	X	X	600	2800	5300	5000	4800	4700	4200	3800	3500		
	J 3	X	-	X	X	700	3100	5800	5700	5600	5500	5300	4900	4500		4100
20	E 3/4	X	X	X	X	350	1900	4300	4000	3500	3000	O.V. = .43 X CFM			300	
	F 1	X	X	X	X	400	2100	4800	4500	4200	3700					
	G 1 1/2	X	-	X	X	450	2400	5600	5300	5000	4700	3900				
	H 2	X	-	X	X	500	2700	6200	6000	5700	5300	4800	4000			
	J 3	X	-	X	X	550	3100	7200	7000	6700	6500	6000	5500	4800		4100
22	F 1	X	X	X	X	350	2000	5600	5000	4700	4200	O.V. = .35 X CFM			400	
	G 1 1/2	X	-	X	X	400	2400	6700	6200	5600	5200	4600				
	H 2	X	-	X	X	425	2600	7300	6800	6400	6200	5400				
	J 3	X	-	X	X	475	3000	8500	8000	7600	7400	6700	6200	5200		
	K 5	-	-	X	X	500	3200	9000	9000	9000	9000	8400	7800	7400		7000
24	F 1	X	X	X	X	300	1900	6600	5900	5200	4200	O.V. = .29 X CFM			460	
	G 1 1/2	X	-	X	X	350	2200	7700	7200	6600	5900	5100				
	H 2	X	-	X	X	400	2500	8800	8300	7600	6900	6000	5000			
	J 3	X	-	X	X	450	2900	10000	9600	9000	8500	7500	6000	5800		
	K 5	-	-	X	X	500	3500	12000	11600	11100	10500	9800	8900	7800		6500

*Exhibited blower RPM (above) relates to 1/4" static pressure performance only. Higher RPM are necessary to yield the performance shown at higher static pressures. Low static pressure can result in motor overload on blowers designed to operate at higher static pressures.

AMCA CLASSIFICATION FOR SPARK RESISTANT CONSTRUCTION

TYPE A
All parts of the fan in contact with the air or gas being handled shall be made of nonferrous material. Steps must also be taken to assure that the impeller, bearings, and shaft are adequately attached and/or restrained to prevent a lateral or axial shift in these components.

Model	Weather Cover	Vib. Isolators	Disch. Shutter	Access Door	Drain	Chem. Resist. Coat ^o	Spark Resist.		Heat Slinger 500°F	Disc. Switch
							B†	C		
8	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X	X
22	X	X	X	X	X	X	X	X	X	X
24	X	X	X	X	X	X	X	X	X	X

NOT AVAILABLE See Page 30 for Backward Curve

†Max temp. for Type "B" = 250°F. Blower Dimensions: (Page 31) °Coatings described p. 38 (X) Available accessories

TYPE B
The fan shall have a nonferrous impeller and nonferrous ring about the opening through which the shaft passes. Ferrous hubs, shafts, and hardware are allowed provided construction is such that a shift of impeller or shaft will not permit two ferrous parts of the fan to rub or strike. Steps must also be taken to assure that the impeller, bearings, and shaft are adequately attached and/or restrained to prevent a lateral or axial shift in these components.

TYPE C
The fan shall be so constructed that a shift of the impeller or shaft will not permit two ferrous parts of the fan to rub or strike.

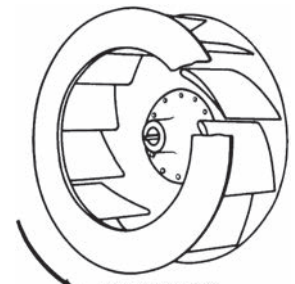
Peerless

AMCA CERTIFIED

ULTRAFAN-PAK

BELT DRIVE UTILITY BLOWERS

NON-OVERLOADING



CW ROTATION
AIR FOIL CONSTR.
STD. FOR SIZE 270
AND LARGER



CW-BH Blower

- Baked polyester finish standard.
- Heavy gauge all welded construction.
- 250°F max. operating temp. (500°F with heat slinger)
- Full class I performance to 5" static pressure...AMCA certified.
- Self-aligning pillow block ball bearings with grease fitting (100,000 hrs.)
- Available in CW or CCW rotation and eight different discharge positions. (see next page)
- Suitable for kitchen hood exhaust, dirt laden air, or where system pressures may vary or are unknown.
- UL762 Model available (special order)

Model No.	HP	SINGLE PHASE		THREE PHASE		@½" S.P.		Approx. CFM*										
		1 Speed S	2 Speed M	1 Speed T	2 Speed R	Blower RPM	O.V. FPM	Static pressure (inches water)										
								½	¾	1	1½	2	2½	3	3½	4	4½	5
105	C	1/3	X	X	X	-	2069	2100	1300	1200	1100	900	700					
	D	1/2	X	X	X	X	2474	2500	1600	1500	1400	1300	1000	800	1500 CFM Max. @ 5"			
	E	3/4	X	X	X	X	2890	3000	1900	1800	1700	1600	1400	1300	1000	800	2 HP**	
	F	1	X	X	X	X	3167	3300	2100	2000	1900	1800	1700	1500	1400	1200		
122	D	1/2	X	X	X	X	1744	2300	2000	1800	1700	1400	1200					
	E	3/4	X	X	X	X	1964	2700	2300	2200	2100	1900	1600	1300	2000 CFM Max. @ 5"			
	F	1	X	X	X	X	2187	3000	2600	2500	2400	2200	2000	1700	1500	3 HP**		
	G	1½	X	-	X	X	2484	3500	3000	2900	2800	2600	2500	2300	2100	1800		
135	D	1/2	X	X	X	X	1454	2100	2200	2100	1900	1400						
	E	3/4	X	X	X	X	1666	2500	2600	2500	2300	2000	1600	2400 CFM Max. @ 5"				
	F	1	X	X	X	X	1886	2900	3000	2800	2700	2400	2100	1700	3 HP**			
	G	1½	X	-	X	X	2107	3300	3400	3300	3200	3000	2700	2500	2200			
150	E	3/4	X	X	X	X	1490	2400	3100	2800	2600	2100	1700					
	F	1	X	X	X	X	1652	2700	3500	3200	3000	2600	2200	3000 CFM Max. @ 5"				
	G	1½	X	-	X	X	1900	3200	4100	3900	3700	3300	3000	2600	2000	5 HP**		
	H	2	X	-	X	X	2106	3600	4600	4400	4200	3900	3500	3300	2900	2500		
165	F	1	X	X	X	X	1391	2500	3900	3600	3300	2800	2100					
	G	1½	X	-	X	X	1604	3000	4600	4400	4100	3600	3200	2700	3500 CFM Max. @ 5"			
	H	2	X	-	X	X	1789	3300	5200	5000	4700	4300	3900	3400	3000	5 HP**		
	J	3	X	-	X	X	2070	3900	6100	5900	5700	5200	4800	4500	4100	3800		
182	F	1	X	X	X	X	1195	2300	4300	3900	3600	3000						
	G	1½	X	-	X	X	1358	2700	5000	4800	4500	3900	3400	4400 CFM Max. @ 5"				
	H	2	X	-	X	X	1501	3000	5600	5400	5200	4900	4200	3600	3000	5 HP**		
	J	3	X	-	X	X	1740	3500	6600	6400	6200	5700	5300	4900	4500	3900		
200	G	1½	X	-	X	X	1169	2500	5700	5400	5000	4300	3400					
	H	2	X	-	X	X	1293	2800	6400	6100	5800	5100	4500	3500	5000 CFM Max. @ 5"			
	J	3	X	-	X	X	1453	3200	7300	7200	7000	6300	6000	5300	4500	5 HP**		
	K	5	-	-	X	X	1759	3900	9000	8800	8600	8200	7700	7300	6800	6200		
222	G	1½	X	-	X	X	954	2300	6500	6100	5600	4500						
	H	2	X	-	X	X	1051	2600	7300	6900	6500	5600	4500	6500 CFM Max. @ 5"				
	J	3	X	-	X	X	1214	3000	8600	8200	7900	7000	6400	5400	7 ½ HP**			
	K	5	-	-	X	X	1418	3600	10200	9800	9700	9300	8700	7900	7300	6300		
245	G	1½	X	-	X	X	810	2100	7300	6600	5900	4500						
	H	2	X	-	X	X	897	2400	8300	7700	7200	5900	7900 CFM Max. @ 5"					
	J	3	X	-	X	X	1035	2800	9800	9300	8900	7700	6600	10 HP**				
	L	7½	-	-	X	X	1419	4000	13900	13500	13000	12300	11600	10800	10000	9300		
270	H	2	X	-	X	X	936	2100	8800	8000	7400	6300	5000					
	J	3	X	-	X	X	1046	2400	10000	9600	9200	8100	7100	6200	9200 CFM Max. @ 5"			
	K	5	-	-	X	X	1261	2900	12300	12000	11300	10600	9500	8800	8100	7300	10 HP**	
	L	7½	-	-	X	X	1448	3400	14300	14000	13600	12900	12000	11000	10500	9600		
300	H	2	X	-	X	X	839	2100	10800	9600	8700	6700						
	J	3	X	-	X	X	980	2500	12900	12000	11000	9400	7400	12000 CFM Max. @ 5"				
	K	5	-	-	X	X	1177	3100	15800	15100	14200	12900	11400	10300	8500	15 HP**		
	L	7½	-	-	X	X	1328	3500	18000	17600	17000	16000	14200	13300	12600	10700		
330	J	3	X	-	X	X	859	2400	15000	13500	12600	10000						
	K	5	-	-	X	X	1053	3000	18800	17200	16100	14300	12300	10000	8200	14000 CFM Max. @ 5"		
	L	7½	-	-	X	X	1213	3500	21900	21000	20000	17700	16000	14400	13000	15 HP**		
	M	10	-	-	X	-	1246	3900	24200	23500	22200	20800	19500	18000	16700	15000		

*CFM Exhibited is max for HP shown. Each model is capable of higher CFM than shown if equipped with larger motors at higher blower RPM. Note max. motor sizes.

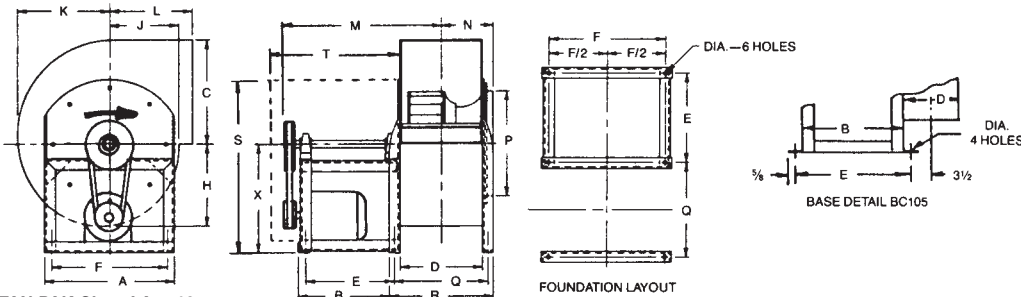
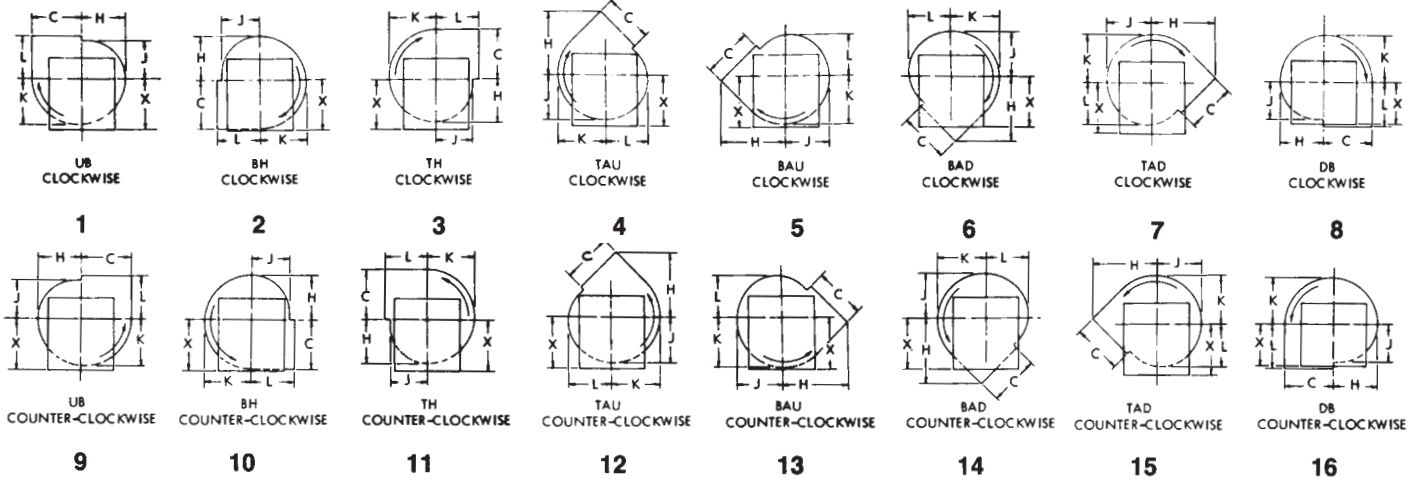
**Max. motor size 2-speed switches - page 10. (X) Available models

Model	Weather Cover	Vib. Isolators	Disch. Shutter	Max. CFM* (75% F.A.)	Access Door	Drain	Chem. Resist. Coat**	Spark Resist.‡		Heat Slinger	Disc. Switch	Blower with Motor	
								B	C			Ship Wt.	HP
105	X	X	X	1400	X	X	X	X	X	X	X	100	1
122	X	X	X	1900	X	X	X	X	X	X	X	190	1½
135	X	X	X	2300	X	X	X	X	X	X	X	210	1½
150	X	X	X	2800	X	X	X	X	X	X	X	230	2
165	X	X	X	2900	X	X	X	X	X	X	X	280	3
182	X	X	X	3500	X	X	X	X	X	X	X	350	3
200	X	X	X	4300	X	X	X	X	X	X	X	480	5
222	X	X	X	5200	X	X	X	X	X	X	X	480	5
245	X	X	X	6300	X	X	X	X	X	X	X	620	7½
270	X	X	X	7700	X	X	X	X	X	X	X	720	7½
300	X	X	X	9400	X	X	X	X	X	X	X	820	7½
330	X	X	X	9500	X	X	X	X	X	X	X	1100	10

*When centrifugal fan outlet velocities exceed 2000 ft/min. shutters and other fittings should be located at least 2½ duct diameters of straight duct from the blower discharge. Unpredictable shutter performance will result if the shutter is on the blower discharge. Blower performance is enhanced by a properly designed expander (evasé) mounted on the discharge. Shutters (and other fittings) should be installed downstream of the evasé.

**See p. 38 for coatings and pp. 36 and 37 for PVC and FRP blowers. ‡See p. 29 for spark resistant construction. (X) Available accessories

Blower Rotation & Discharge Designation (viewed from drive side)



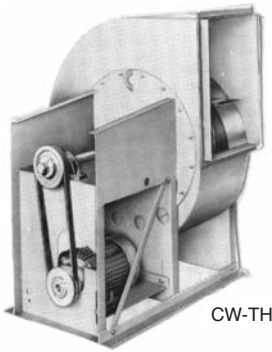
Peerless ULTRAFAN-PAK Class I Arr. 10

DIMENSIONS

Size FC	Size BC	Wheel Dia.	Shaft Dia. CL. 1	TH, DB, BH, UB Straight Disch.								BAU, TAU, TAD, BAD Angular Disch.								M	N	P	Q	R	S	T	V	X	Max. Motor Frame Size
				A	B	C	D	E	F	H	J	K	L	H	J	K	L												
8	7	7	3/4	9	13	8	5	14	7	6	4	6	6	10	6	7	5	20	3	8	-	-	18	18½	7/16	12	145T		
9	9	9	3/4	10	13	10	6	14	8	6	5	7	7	11	7	8	6	20	4	9	-	-	18	18½	7/16	12	145T		
105	10½	10½	3/4	12	13	11	8	14	10	7	6	9	8	13	8	9	7	19	6	12	-	-	20½	17	7/16	14	145T		
11	10½	10½	3/4	12	13	11	8	14	10	7	6	9	8	13	8	9	7	21	5	10	-	-	20½	17	7/16	14	145T		
12	122	12	1	16	13½	13	9	13½	14	10	8½	11½	10½	16½	10	12½	9	23	6	13	11	12	25	20	1/2	17	182T		
135	13½	1	1	17	13½	14	10	13½	16	11	9	12	11	18	11	13	10	24	7	14	12	13	25	20	1/2	17	182T		
15	150	15	1	19	15½	16	11	15½	17	12	10	14	12	20	13	15	11	26	7	16	13	14	27	22	1/2	17	182T		
165	16½	1	1	21	15	17	13	15½	19	13	11	15	13	21	14	16	12	27	8	17	14	17	30	22	1/2	19	184T		
18	182	18	1	23	17	19	14	17½	21	15	12	17	14	24	16	18	13	30	9	19	15	18	33	25	1/2	21	184T		
20	200	20	1	25	17	21	15	17	23	16	13	18	15	26	17	20	14	31	10	21	17	20	36	25	1/2	23	213T		
22	222	22	1	27	16	24	17	17	25	18	15	20	17	29	19	22	16	32	10	23	19	22	39	26	1/2	26	213T		
24	245	24	1	30	16	26	19	16	23	20	16	23	19	32	21	24	18	33	11	26	21	24	42	26	1/2	27	215T		
270	27	1	33	16	29	21	16	16	26	22	18	25	21	35	23	27	20	34	12	29	23	26	47	26	1/2	30	215T		
300	30	1	36	16	32	23	16	16	29	24	20	28	23	39	26	30	22	36	13	32	26	28	51	27	1/2	33	254T		
330	33	1	39	21	35	25	21	21	33	27	22	30	25	43	28	33	24	41	15	35	28	31	58	30	7/8	38	254T		

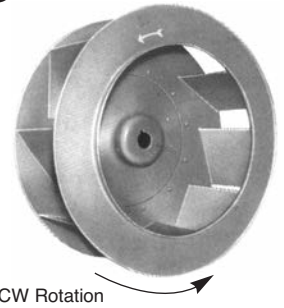
NOTE: Letters "C" and "D" are outside housing dimensions.

nyb New York General Purpose Blowers



BACKWARD CURVE - BELT DRIVE - SINGLE INLET - ARRANGEMENT 10

- **FULL AMCA CLASS II CONSTRUCTION—**
Rugged heavy gauge steel construction for dependable, trouble free heavy duty service.
- **AIRSTREAM TEMPERATURES TO 650°F—**
Heat slingers for temperature > 200°F
Sizes 12 and 15 require PLR wheel > 200°F
- **CHOICE OF TWO WHEEL DESIGNS — BOTH STOCKED**
Acoustafoil-airfoil blade is quieter and more efficient for relatively clean air
PLR-flat BC blade for particulate and moisture laden air.
- **STABLE PERFORMANCE FOR VAV SYSTEMS—**
Acoustafoil wheel yields stable pressure curve from wide open to completely closed off.
- **Motors are standard ODP**



CW Rotation

SEE P.33 FOR BLOWER DIMENSIONS

Performance data exhibited depict typical maximum CFM at designated motor HP. Complete AMCA certified data are available.

Model No.	HP	SINGLE PHASE		THREE PHASE		@ 2" S.P.		Model AcF Approx. CFM										
		1 Speed S	2 Speed M	1 Speed T	2 Speed R*	Blower RPM	O.V.F.M.	Static Pressure (inches water)										
								1/2	1	1 1/2	2	2 1/2	3	4	5	6	8	
123	3/4	X	X	X	-	2118	1163	1800	1500	1250	1000							
	1	X	-	X	-	2454	1686	2150	1900	1700	1450	1200	1000					
	1 1/2	X	-	X	-	3013	2442	2700	2500	2300	2100	1900	1700	1300	700			
	2	X	-	X	-	3453	2965	3100	2900	2700	2550	2400	2200	1850	1500	1000		
	3	X	-	X	-	4072	3663	-	3450	3300	3150	3000	2850	2550	2250	2000	1200	
153	1 1/2	X	X	X	X	1768	1240	2850	2400	2000	1600	1200	700					
	2	X	-	X	X	2162	1977	3500	3250	2900	2550	2200	1900	1100				
	3	X	-	X	X	2478	2481	4100	3800	3500	3250	2900	2550	2000	1300			
	5	X	-	X	X	2919	3140	-	4600	4300	4050	3800	3500	3000	2500	2000		
	7 1/2	X	-	X	-	3547	4031	-	-	5400	5200	4950	4750	4300	3850	3450	2550	
183	1 1/2	X	-	X	X	1488	1563	4600	4000	3600	3000	2400	1700					
	2	X	-	X	X	1673	1979	5400	4800	4300	3800	3350	2900	1500				
	3	X	-	X	X	2018	2656	6400	5900	5500	5100	4700	4300	3400	2200	1100		
	5	X	-	X	-	2432	3411	-	7300	6900	6550	6200	5900	5550	5200	4500	1700	
	7 1/2	X	-	X	-	2831	4115	-	-	-	7900	7600	7300	6700	6100	5500	4100	
223	2	X	-	X	X	1203	1509	6800	5900	5100	4300	3400	2300					
	3	X	-	X	X	1419	2105	8100	7400	6700	6000	5300	4500	2600	1000			
	5	-	-	X	X	1718	2807	9900	9300	8600	8000	7500	6900	5600	4200	2600		
	7 1/2	-	-	X	X	2019	3474	-	11000	10400	9900	9350	8850	7800	6800	5600	2800	
	10	-	-	X	-	2247	3965	-	-	11800	11300	10800	10300	9400	8500	7500	5200	
272	3	X	-	X	X	916	1623	10500	9300	8100	6800	5300	3000					
	5	-	-	X	X	1069	2339	12900	11800	10900	9800	8800	7600	4500				
	7 1/2	-	-	X	X	1230	2936	15100	14100	13200	12300	11500	10600	8700	6000			
	10	-	-	X	-	1362	3389	16900	16000	15100	14200	13500	12800	11000	9200	6800		
	15	-	-	X	-	1579	4105	-	18700	18000	17200	16500	15800	14400	13000	11500	7500	
302	5	-	-	X	X	903	2070	14600	13000	12000	10700	9000	7200					
	7 1/2	-	-	X	X	1035	2650	17200	16000	14800	13700	12500	11000					
	10	-	-	X	-	1148	3095	19000	18000	17000	16000	15000	13800	11500	8200			
	15	-	-	X	-	1466	4255	-	-	22800	22000	21000	20000	18500	17000	15000	10000	
	20	-	-	X	-	1573	4642	-	-	25000	24000	23500	22500	21000	19500	18000	14000	
332	7 1/2	-	-	X	X	872	2332	19000	17500	16000	14600	13000	11500					
	10	-	-	X	-	955	2716	21000	19700	18500	17000	16000	14500	11500				
	15	-	-	X	-	1105	3355	-	-	22000	21000	20000	19000	16500	14000	9000		
	20	-	-	X	-	1223	3834	-	-	25000	24000	23000	22000	20000	18000	15500		
	25	-	-	X	-	1324	4233	-	-	-	26500	25500	24500	22500	21000	18500	13000	
30	-	-	X	-	-	-	-	-	-	-	27500	26500	25000	23000	21500	17000		

*2 speed - 1 winding (X) Available models

ACCESSORIES

AcF Model	Drive Cover	Set of Vib. Pads	Disch. Shutter	Access Door	Drain	Chem. Resist. Coating*	Spark Resist. ‡		Disc. Switch	Heat Slinger	Bare Wt.
							B	C			
123	X	X	X	X	X	X	X	X	X	X	145
153	X	X	X	X	X	X	X	X	X	X	195
183	X	X	X	X	X	X	X	X	X	X	300
223	X	X	X	X	X	X	X	X	X	X	425
272	X	X	X	X	X	X	X	X	X	X	645
302	X	X	X	X	X	X	X	X	X	X	720
332	X	X	X	X	X	X	X	X	X	X	940

See page 33 for blower dimensions. Solid PVC and FRP blowers pp. 36 and 37. *Blower coatings p.38. ‡See p. 29 for description (X) Available accessories

AMCA Spark Resist Options

TYPE B: Blower equipped with Aluminum wheel and shaft ring. (Not suitable for abrasive or 200°F plus. Use Type C.)

TYPE C: Blower equipped with non-ferrous inlet cone, non-ferrous rubbing blocks, and ring at housing opening thru which shaft passes.

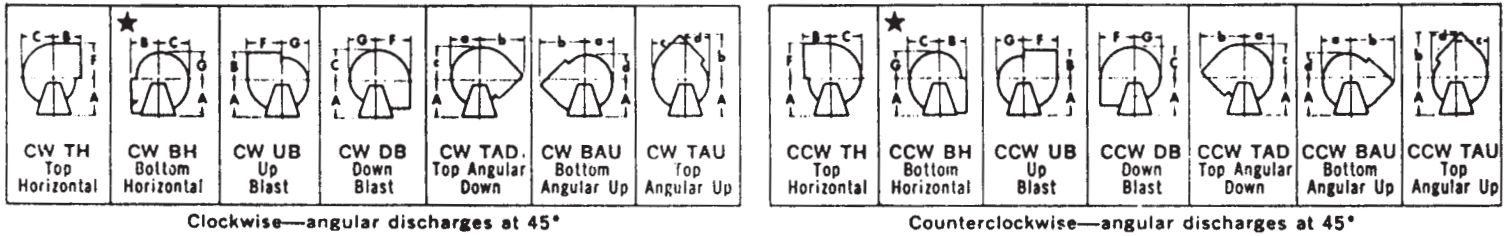
See p. 29 for AMCA spark resist. options.

SEE P. 33 FOR AVAILABLE DISCHARGE POSITIONS

nyb New York General Purpose Blower

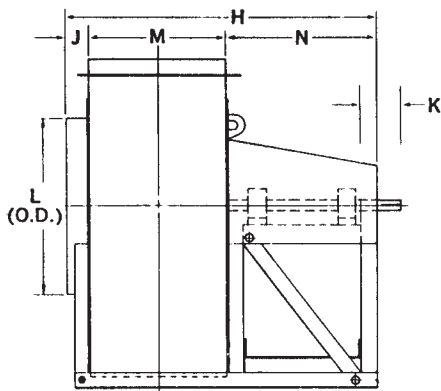
BACKWARD CURVE - BELT DRIVE - SINGLE INLET - ARRANGEMENT 10

AVAILABLE FAN DISCHARGES - VIEWED FROM DRIVE SIDE

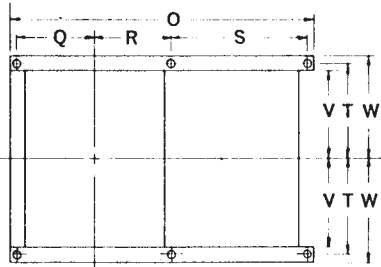


★ Sizes 22 through 36 may require removal of base angle and housing brace on outlet side to convert to Bottom Horizontal discharge in the field. Sizes 30 and 36 with flanged outlet require a 1½-inch minimum shim on Bottom Horizontal discharge.

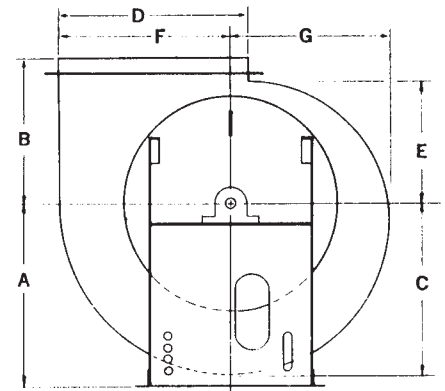
NEW YORK GEN. PURPOSE BLOWER - CLASS 2 -ARR. 10 - PLR WHEEL AND ACOUSTAFOIL WHEEL



CLOCKWISE UP BLAST



L is O.D. of collar. M and D are outside of the housing excluding the flange. J is from housing side over inlet collar. Dimensions not to be used for construction unless certified.



CLOCKWISE UP BLAST

DIMENSIONS (INCHES)

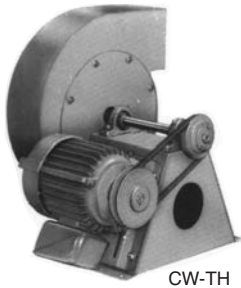
Model	OUTLET							INLET						OUTLET	
	A	B	C	D	E	F	G	H	J	K	L	M	N	O	Q
12	15½	10	12¾	13¾	7⅞	13	10¾	31⅜	2½	2½	13½	9¾	19⅛	31½	6⅛
15	17½	12	15½	16¾	9¾	15⅞	12¾	36⅞	3¾	3	16½	11¾	21⅛	35⅞	7¼
18	21¼	14	18½	20½	11¾	19¾	15½	38⅛	3¾	3½	20	13¾	21⅛	38⅞	8¾
22	25½	17	22½	24¾	14¾	23⅞	18¾	45⅞	3¾	4	24½	16¾	26	45⅞	10¼
27	32½	20½	27¼	30¾	17¾	28¾	22¾	51¼	4¾	5	30	20¾	26¾	50½	12½
30	32½	22½	30¾	33½	19¾	31¾	25¾	53½	4¾	5½	33	22¾	26¾	52¼	13¾
33	39½	24½	33¾	36¾	21¼	35	28	58¾	4¾	6	36½	24¾	29¾	58	14¾

Model	R	S	T	V	W	a	b	c	d	Shaft		Base holes	Bare fan weight*	Maximum motor frame**	
										Dia.	Keyway			Open	TE
12	6⅝	16⅜	7⅜	6½	8	11⅝	16¼	12⅞	9¼	1⅞	¾ x ¾	⅞	145	184T	184T
15	7⅞	18⅜	8⅞	8	9½	14⅞	19¼	15¾	11⅞	1⅞	¾ x ¾	⅞	195	215T	215T
18	9⅞	17⅞	9⅞	8¼	10¼	17¼	23⅞	19⅞	13⅞	1⅞	¾ x ¾	⅞	300	215T	215T
22	11⅞	20⅞	10⅞	9¾	11¼	21	28¼	23¼	16¾	1⅞	½ x ¼	⅞	425	256T	254T
27	13⅞	20⅞	13⅞	11¼	14¾	25⅞	34¼	28¼	20⅞	1⅞	½ x ¼	¾	645	284T	254T
30	14½	20¾	13⅞	11¼	14¾	28¼	38⅞	31⅞	22⅞	1⅞	½ x ¼	¾	720	284T	254T
33	15⅞	23¾	16	14	17	31⅞	42⅞	34⅞	25¼	2⅞	½ x ¼	¾	940	324T	286T

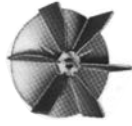
*Approximate shipping weight in lbs. Model no. is approx. wheel dia. **These maxima can be exceeded on most model sizes. . . with special assembly techniques

Tolerance: ± 1/16"

nyb NEW YORK G.I. BLOWERS



CW-TH



(NICKEL-ALUMINUM BRONZE)

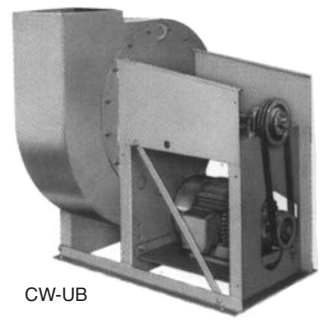
GENERAL INDUSTRIAL - BELT DRIVEN - FLAT RADIAL WHEELS

INDUSTRIAL AIR-MOVING APPLICATIONS

- Dust Collection
- Pneumatic Conveying
- Moisture blow-off
- Combustion air
- Heat recovery
- Incinerators
- Oven and dryer exhaust



LS WHEEL (STEEL)



CW-UB

Compact Models 85, 106, 126 Arrangement 9

Flat radial-blade design best for material-conveying applications with airstreams containing coarse material or heavy dust and particulate.

Models 85, 106, 126 - With nickel-aluminum bronze wheel 180°F Max. temp. (300° with heat slinger)

Model 144 & up - With steel wheels Type LS 200°F Max. temp. (600° with heat slinger)

Models 144 & Larger Series 20 Arrangement 10

AMCA CERTIFIED

AMCA CERTIFIED

ASSEMBLED & TESTED- WITH OPEN BALL BEARING MOTOR & ADJUSTABLE SHEAVE DRIVE

Compact Model No.	HP	1 PHASE		3 PHASE		Fan RPM**	CFM @ Static Pressure (in. water)										Ship Wt. Lbs.
		1 SPD S	2 SPD M	1 SPD T	2 SPD R		1/4	1/2	1	2	3	4	6	8	10		
85	1/4	X	NOT AVAILABLE	X	NOT AVAILABLE	-	330	300	230	145	60	(Max. safe RPM = 4800 @ 70°F)					60
	1/2	X		X		3360	380	351	310	230	145	60	-	-	-		
	3/4	X		X		3585	470	465	415	345	270	220	60	-	-	-	
	1	X		X		4050	556	530	505	465	392	345	235	-	-	-	
106	1/2	X	NOT AVAILABLE	X	NOT AVAILABLE	2780	740	695	640	520	420	(RPM Max. = 4600 @ 70°F)					75
	3/4	X		X		3000	880	850	790	670	560	300	122	180	-	-	
	1	X		X		3250	1000	1000	920	810	700	620	500	350	250	-	
	1 1/2	X		X		3580	1200	1100	1050	970	900	830	710	575	465	-	
126	2	X	NOT AVAILABLE	X	NOT AVAILABLE	3890	-	-	1200	1100	1040	960	860	750	630	-	90
	3	X		X		2400	1140	1100	1000	840	700	580	280	-	-	100	
	1	X		X		2520	1270	1250	1160	990	870	750	490	200	-	-	
	1 1/2	X		X		2830	-	1400	1380	1240	1100	990	780	600	360	-	
126	2	X	NOT AVAILABLE	X	NOT AVAILABLE	3000	-	-	-	1400	1300	1210	1000	790	640	-	100
	3	X		X		3300	-	-	-	1400	1300	1210	1000	790	640	-	
	1 1/2	X		X		3300	-	-	-	1400	1300	1210	1000	790	640	-	
	2	X		X		3300	-	-	-	1400	1300	1210	1000	790	640	-	

Series 20 Model No.	HP	1 PHASE		3 PHASE		Fan RPM**	CFM @ Static Pressure (in. water)										Ship Wt. Lbs.
		1 SPD S	2 SPD M	1 SPD T	2 SPD R		2	4	6	8	10	14	16	18	22		
144	1	X	X	X	X	2000	1120	770	420	(Max. RPM @ 70°F = 4600)					180		
	1 1/2	X	-	X	X	2110	1460	1050	774	500							
	2	X	-	X	X	2360	1710	1300	1035	775	517						
	3	X	-	X	X	2510	2100	1710	1440	1200	950	518					
174	5	X	-	X	X	2870	2500	2300	2050	1720	1530	1200	1020	800	430	225	
	1 1/2	X	-	X	X	1680	1750	1200	720	(Max. RPM @ 70°F = 3745)					235		
	2	X	-	X	X	1751	2150	1520	1100	635							
	3	X	-	X	X	1900	2660	2140	1600	1250	880						
194	5	X	-	X	X	2150	3400	2850	2400	2050	1750	1100	760				330
	7 1/2	X	-	X	X	2400	3800	3600	3100	2750	2440	1800	1600	1300	750	330	
	1 1/2	X	-	X	X	1446	1975	1250	700	(Max. RPM @ 70°F = 3114)					365		
	2	X	-	X	X	1504	2350	1650	1100	600							
224	3	-	-	X	X	1618	2850	2250	1700	1250	800						
	5	-	-	X	X	1822	3600	3100	2600	2100	1700	950					
	7 1/2	-	-	X	X	2021	4200	3800	3400	2900	2500	2100	1800	1400	450		
	10	-	-	X	X	1220	2750	1800	1100	(Max. RPM @ 70°F = 2635)					500		
264	3	X	-	X	X	1070	3850	2700	1700								
	5	-	-	X	X	1150	5200	3950	3000	2200	1300						
	7 1/2	-	-	X	X	1270	6300	5300	4300	3400	2700	1240					
	10	-	-	X	X	1375	7100	6340	5280	4500	3720	2400	1760				
294	15	-	-	X	X	1490	8000	7200	6800	6050	5250	3950	3380	2860	1736	720	
	5	-	-	X	-	970	6030	4400	2900	2080	(Max. RPM @ 70°F = 1995)					890	
	7 1/2	-	-	X	-	1060	7400	6000	4600	3400	2500						
	10	-	-	X	-	1130	8400	7260	5900	4700	3800	2100					
294	15	-	-	X	-	1250	9800	9100	7800	6678	5700	3940	3180	2500	890		
	20	-	-	X	-	1320	11000	10000	9200	8480	7300	5460	4700	4100	2600	990	

**Fan RPM listed will result in CFM shown @ 4" S.P. Other CFM exhibited are maxima at corresponding S.P. and motor HP, and will require other RPM.

‡ One winding (X) Available models

ACCESSORIES

Model	Drive Cover	Vib. Isolators	Drain Fitting in Housing	Bolted Access Door	Bare Blower	TYPE C Spark Resist.	Heat Slinger	Chemical Resistant Coating†	Inlet Flange	Outlet Flange	Disc. Switch
85	X	X	X	X	X	*	X	X	-	-	X
106	X	X	X	X	X	*	X	X	-	-	X
126	X	X	X	X	X	*	X	X	-	-	X
144	X	X	X	X	X	X	X	X	X	X	X
174	X	X	X	X	X	X	X	X	X	X	X
194	X	X	X	X	X	X	X	X	X	X	X
224	X	X	X	X	X	X	X	X	X	X	X
264	X	X	X	X	X	X	X	X	X	X	X
294	X	X	X	X	X	X	X	X	X	X	X

AMCA Spark Resistant Options

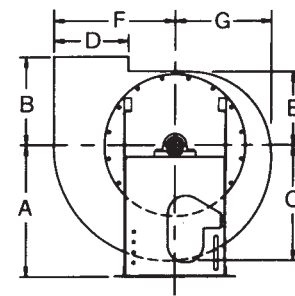
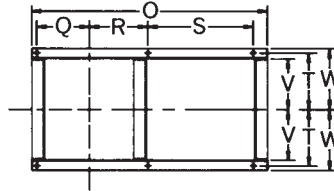
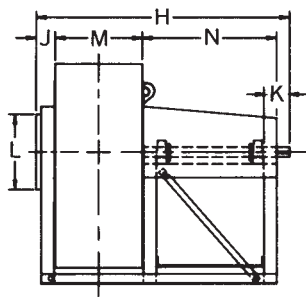
TYPE B: Blower equipped with non-ferrous wheel and shaft ring. (Not suitable for abrasives or 200°F plus. Use Type C.)

TYPE C: A spark-resistant alloy buffer attached to the housing interior adjacent to the wheel front and back and a buffer at the housing shaft opening. Suitable to 600°F w/slinger. (Series 20 only)

Dimensions p. 35

*Models 85, 106 and 126 are not available as Type C. They are avail. as Type B †See p. 38 for coatings. †Welded to housing (X) Available accessories

**NEW YORK
GEN. INDUSTRIAL
BLOWER
ARR. 10
LS WHEEL
(STEEL)**



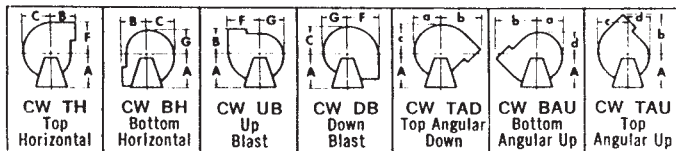
L, M, & D ARE OUTSIDE DIMENSIONS

DIMENSIONS (Inches)

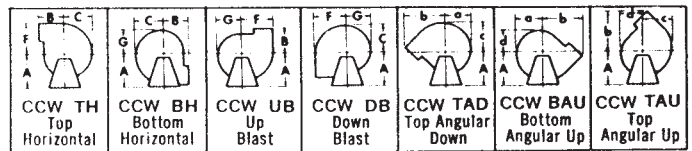
Size	OUTLET										INLET				OUTLET
	A	B	C	D	E	F	G	H	J	K	L	M	N	O	
144	15½	10½	11½	8¾	9¾	12	10¼	30	1½	2½	9	7¾	20	19¾	
174	17½	12½	13½	10½	11½	14½	12¼	34½	1½	3	11	9½	22	21½	
194	21¼	14	16	10¼	11¾	18	13¾	36¾	3½	3½	11	9¾	22	33¾	
224	25½	16½	18¾	13	14	21¼	16¾	41¾	3½	4	13	10¾	26	38¾	
264	28	18½	21¾	15	16½	24½	18¾	44½	4½	4½	15	12¾	26	41½	
294	32½	21	24¾	16½	18¼	27¾	21½	48	4½	5½	17	14	26½	44	
334	39½	23	27¾	18¾	20¾	30¾	23¾	53½	4½	6	19	15½	29¾	48½	
364	39½	25½	30¼	20¾	22½	34¾	26¾	56	5¼	6	21	17¼	30	50¾	

Size	Q	R	S	T	V	W	a	b	c	d	Shaft diameter	Keyway	Base holes
144	—	5¾	16¾	7¾	6½	8	10¾	16	11½	9¾	1⅞	¾ x ⅜	⅞
174	—	6¾	18¾	8¾	8	9½	13¾	19¼	13¾	11½	1⅞	¾ x ⅜	⅞
194	6	7¼	17¾	9¾	8¼	10¼	15	22½	17	13	1⅞	¾ x ⅜	⅞
224	6½	8¼	20¾	10¾	9¾	11¼	17¾	26¾	20	15¼	1⅞	½ x ¼	⅞
264	7¾	9¾	19¾	12¼	11	13	20¼	30¾	23	17½	1⅞	½ x ¼	¾
294	8¾	10¾	20¾	13¾	11¼	14¼	23	34¾	26¾	19¾	1⅞	½ x ¼	¾
334	9¾	11	23¾	16	14	17	25¾	38¾	29¼	22¾	2⅞	½ x ¼	¾
364	10¼	11¾	23¾	16	14	17	28½	42¾	32¼	24¾	2⅞	½ x ¼	¾

COMPACT G.I. FAN DISCHARGES—VIEWED FROM DRIVE SIDE—ARR. 9

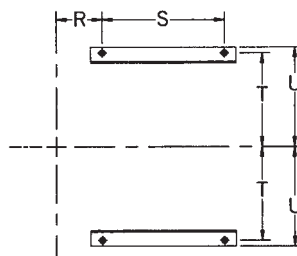
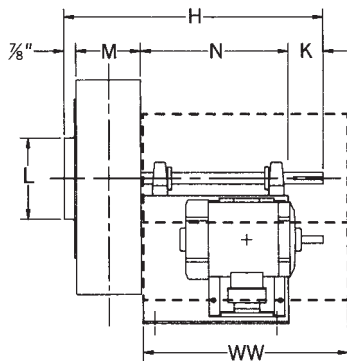


Clockwise—Angular discharges at 45°

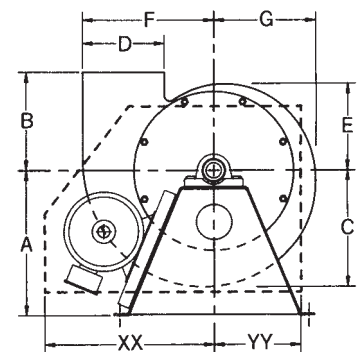


Counterclockwise—Angular discharges at 45°

**NEW YORK COMPACT G.I. BLOWER NICKEL—ALUMINUM—BRONZE RADIAL WHEEL
ARRANGEMENT 9**



"L" (left) motor position is shown.
"R" (right) is opposite hand.
Select motor position so as not to
interfere with outlet connection.



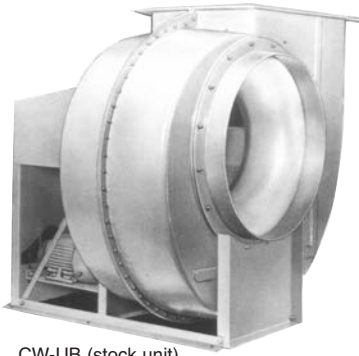
DIMENSIONS (Inches)

Model	OUTLET							INLET		OUTLET							Shaft Dia.			
	A	B	C	D*	E	F	G	H	L*	M*	N	R	S	T	U	a**		b**	c**	d**
85	10½	6	6¾	4¾	5¾	6¾	5¾	17	5	3¾	10¼	3¾	6	6¼	6¼	6¼	9¾	6¾	5¾	1
106	10½	7½	7¾	5¾	6¾	8½	7¼	19	6	5¾	10¼	4¾	6	6¼	6¼	7¾	11¼	8	6¾	1
126	12½	8½	10	7	7½	11¼	8¾	22½	8	5¾	12½	4	10½	8½	8½	9¾	13¾	10½	8½	1

Dimensions should not be used for construction unless certified.

**Angular discharge dimensions. See figure above.

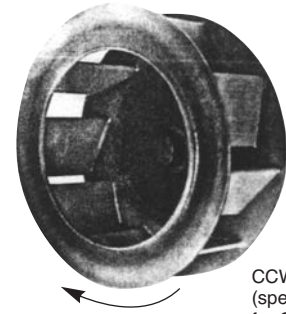
D, L and M are outside dimensions.



CW-UB (stock unit)

Corrosion-Resistant resin construction for use in severe chemical environments

- Fiberglass reinforced plastic construction
- For severe corrosive fumes and aerosols
- Efficient backwardly inclined wheel
- Blower discharge rotatable
- Standard CW wheel rotation is stock unit
- Flanged outlet-slip inlet
- 250°F max. operating temperature
- **WEATHER/DRIVE COVER STD.**



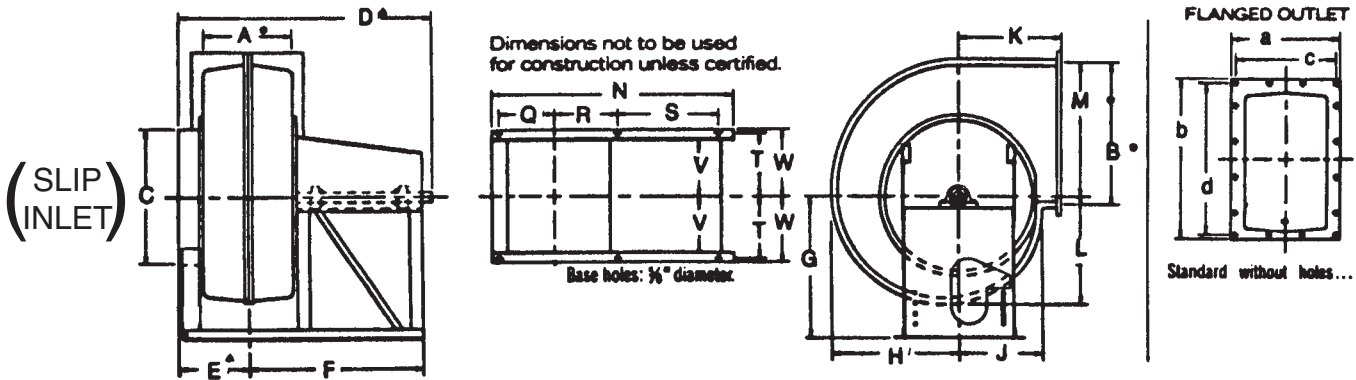
CCW Rotation (special order for CCW units)

NOTE: Sizes 24, 30 & 36 are also available with several week lead time. (See page 37 for other plastic blowers.)

STANDARD MOTORS ARE ODP.

Model No.	HP	SINGLE PHASE		THREE PHASE		@ 1/2" S.P.		CFM						Approx. Ship Wt.			
		1 Speed S	2 Speed M	1 Speed T	2 Speed R	Blower RPM	O.V. FPM	Static Pressure - inches of water			(10" S.P. Max.)						
								1/2	1	1 1/2	2	3	4	5	6		
GFE12	C 1/4	X	X	X	-	1846	1600	1360	1020	765				3800RPM Max @ 70°F			150
	D 1/2	X	X	X	X	2197	1700	1700	1400	1125	850						
	E 3/4	X	X	X	X	2560	2400	2040	1800	1530	1275	850					
	F 1	X	-	X	-	2925	2800	2300	2100	1825	1600	1200	800				
	G 1 1/2	X	-	X	-	3315	3200	2720	2500	2300	2100	1700	1350	950			
	H 2	X	-	X	-	3506	3400	2890	2800	2650	2450	2150	1750	1400	1100		
GFE15	I 3	X	-	X	-	3506	-	2890	2800	2890	2720	2550	2210	2040	1700		
	D 1/2	X	X	X	X	1550	1400	1750	1400	1050	645					200	
	E 3/4	X	X	X	X	1820	1700	2150	1806	1525	1200						
	F 1	X	X	X	X	2090	2000	2450	2125	1875	1550	950					
	G 1 1/2	X	-	X	X	2285	2200	2850	2600	2400	2100	1600	1100				
	H 2	X	-	X	-	2500	2400	3200	2900	2800	2500	2050	1600	1100	600		
GFE18	I 3	X	-	X	-	2950	3000	3750	3550	3300	3100	2700	2400	1950	1550		
	J 5	X	-	X	-	3195	3200	4128	3870	3612	3354	3096	2838	2322			
	K 5	X	-	X	-												
	L 7 1/2	X	-	X	-												
GFE18	M 10	-	-	X	-	2638	4000	2638	-							350	
	E 3/4	X	X	X	X	1220	1600	3150	2500	1950			2900 RPM Max. @ 70°F				
	F 1	X	X	X	X	1350	1900	3600	3000	2500	1920						
	G 1 1/2	X	-	X	X	1575	2300	4300	3800	3300	2880	1900					
	H 2	X	-	X	X	1715	2500	4800	4400	4000	3500	2650	1800				
	I 3	X	-	X	X	1975	2900	5600	5100	4800	4400	3750	3000	2300			
GFE18	J 5	X	-	X	X	2385	3600	6900	6500	6200	5850	5150	4600	4000	3400		
	K 7 1/2	X	-	X	-	2638	4000	7680	7300	7000	6450	5900	5400	4650			
	L 10	-	-	X	-	2638	-	7680	7296	7680	7296	6912	6528	6144			

Optional set of vibration isolators available. (X) Available models



O.D. of inlet collar. Slip inlet only Tolerance ±1/16" *Inside dimensions *Outside dimensions

Size	A*	B*	C*	D	E	F	G	H	J	K	L	M	N	Q
12	9 1/8	13 3/4	13	34 1/8	8 1/2	25	15 1/2	14 1/4	9 3/4	12	12 1/4	13 1/8	32 1/2	5 3/4
15	11 1/8	16 7/8	16	38 5/8	9 1/2	28	17 1/2	17 1/8	12	14 5/8	14 5/8	16 1/8	36 1/2	6 3/4
18	13 3/8	20 3/4	19 1/2	41 3/4	10 3/4	29 3/8	21 1/4	20 3/8	13 3/8	16	17 3/8	19 1/2	38 3/4	8 1/4

Size	R	S	T	V	W	a	b	c	d	Shaft Dia.	Base holes	Bare fan weight	Maximum motor frame	
													Open	TE
12	6 7/8	16 3/8	7 3/8	6 1/2	8	13 1/2	18 3/8	12	16 5/8	1 3/16	5/8	135	184T	184T
15	8 1/8	17 3/8	8 3/8	8	9 1/2	15 1/2	21 1/4	14	19 3/4	1 7/16	5/8	170	215T	215T
18	9 3/4	17 3/8	9 3/8	8 1/4	10 1/4	18	25 1/8	16 5/8	23 3/4	1 11/16	5/8	240	215T	215T

Lab Blowers

DIRECT DRIVE



CCW-UB
Model AA, A

SEE PP. 36, 38 FOR FRP BELT DRIVEN BLOWERS AND A BRIEF LISTING OF SOME CORROSIVE VAPORS AND PROTECTIVE COATINGS FOR METALS.

Lab blowers for corrosion resistance where metal blowers with or without protective coatings prove unsatisfactory. Standard motors are ODP and not exposed to ducted fumes through blower. Max. temp. - 140°F.

Model AA - Polypropylene wheel and PVC housing CCW-UB or CCW-TH

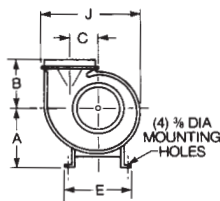
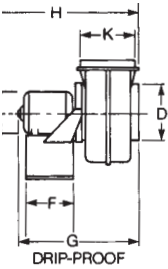
Model A - Polypropylene wheel and FRP housing CCW rotation - any disch.

NOTE: When strong oxidizing acids (nitric, sulfuric, chronic) are present use **Model A** with PVC wheel
PVC wheel is not suitable when vapor phase solvents are present, however.

DO NOT EXPOSE
THESE BLOWERS TO
PERCHLORIC ACID.

Model	HP	RPM	*1 Phase		3 Phase	Motor	CFM @ S.P.					Shp. Wt. Lbs.
			1 SPD S	2 SPD M			T	Cover	0	¼	½	
AA	¼	1725	X	X	X	X	250	225	180			30
A	¼	1725	X	X	X	X	1100	1025	995	800	500	50

(X) Available models *1Ø X.P. models available.

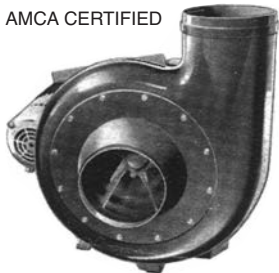


Dimensions

Model	A, in.	B, in.	C, in.	D, in.	INLET			OUTLET		
					E, in.	F, in.	G, in.	J, in.	K, in.	
AA	5½	6½	¾	5½	9	7	13½	11	4½	
A	9½	7¼	4½	8	10½	7¼	17¼	15½	8	

Belt Drive Industrial PVC Blowers Corrosion Resistant Radial Blade Blower

AMCA CERTIFIED

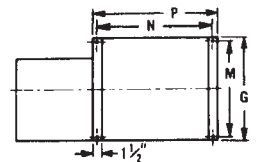
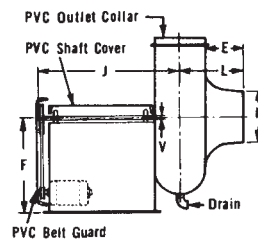
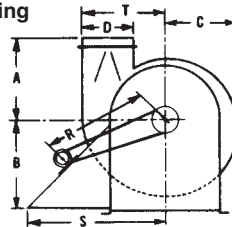


Clockwise Rotation
Upblast Discharge
ARR. #9

SOLID POLYVINYL CHLORIDE HOUSING

- 100% corrosion Resistant to most inorganic chemicals*
- Non-flammable...Self extinguishing
- Operation to 150°F
- Electrical Insulator
- Drain
- Steel Reinforced Wheel
- Belt and shaft guard standard

See p. 36 for FRP blowers



See page 38 for summary of chemical activity
*NOTE: SPECIFY CHEMICAL SUBSTANCE & OPERATING TEMP.

BELT DRIVE WITH TEFC MOTOR*

Model No.	HP	Wheel Dia.	Blwr. RPM @ 1"	1 Phase S	3 Phase T	CFM Static Pressure (inches water)							Approx. Ship Wt. Lbs.
						1	2	3	4	5	6	7	
PVC10	C ¼	10½	1829	X	X	500	400	300	200				175
	D ½		2157	X	X	650	550	450	350	250			
	E ¾	O.V. =	2390	X	X	750	700	600	500	450	350		
	F 1	CFM	2632	X	X	850	800	700	650	550	500		
	G 1½	0.196	3013	X	X	1000	950	850	800	750	650		
PVC14	E ¾	14	1510	X	X	1050	900	700	500			220	
	F 1		1660	X	X	1200	1050	900	700	550	400		
	G 1½	O.V. =	1910	X	X	1450	1300	1150	1000	850	700		550
	H 2	CFM	2068	X	X	1600	1450	1350	1200	1050	950		800
	J 3	0.349	2393	-	X	1900	1750	1650	1550	1400	1300		1000
PVC17	F 1	17½	1175	X	X	1550	1250	900	600			260	
	G 1½		1225	X	X	1850	1600	1350	1050	800			
	H 2	O.V. =	1442	X	X	2100	1850	1600	1350	1100	900		650
	J 3	CFM	1625	-	X	2450	2250	2050	1850	1650	1400		1200
	K 5	0.545	1709	-	X	2600	2600	2600	2500	2300	2100		1900

DIMENSIONS

Model	Model		
	10	14	17
A	10½	14¼	17¼
B	9⅙	12	14⅙
C	8⅙	10⅙	13⅙
D O.D.	6	8	10
E	4	5	6
F	11	14	17
G	14	16	17
J	17	18	19
K O.D.	6	8	10
L	7⅞	9⅙	11⅞
M	12¾	14¾	15¾
N	13¾	16	19½
P	15	17¼	20¾
R Max.	18½	23½	26
S Max.	14½	16⅙	18¾
T	9¾	12½	15½
V	1⅙	1⅙	1⅙

(X) Available models Vibration isolators available

PHONE: (781) 393-4456
1-800-937-4326
FAX: (781) 396-4581

CATALOG #38
www.centralfan.com

CENTRAL FAN CO., INC.
3890 MYSTIC VALLEY PKWY.
MEDFORD, MA 02155

Caution: Use these data as a guide only at 70°F.
Consult the chemical mfr. for complete data.

CHEMICAL RESISTANCE OF POLYVINYL CHLORIDE (PVC) & VINYL ESTER (FRP)

PVC provides FAIR-EXCELLENT protection to base metals exposed to the following chemicals at room temperature:

- | | | | | |
|------------------------------|-------------------|----------------------|----------------------------|---------------------------|
| Acetic acid (dilute) | Aqua regia | • Ethylene glycol | • Mineral oil | • Sodium nitrate |
| Alcohol-methyl ethyl | Barium carbonate | • Ferric chloride | • Naptha | • Sodium sulphate |
| Aluminum chloride | • Beer | • Ferric nitrate | • Nitric acid (dilute) | • Stannous chloride |
| o Aluminum flouride | Benzoic acid | • Ferric sulphate | • Nitrous oxide | • Sulphuric acid (dilute) |
| Aluminum hydroxide | Calcium carbonate | o Flourine | • Oxygen | • Tannic acid |
| • Aluminum nitrate | Calcium chloride | o Formaldehyde | • Perchloric acid (dilute) | Trisodium phos. |
| Aluminum sulphate | Calcium nitrate | o Hydrochloric acid | Phosphoric acid | • Urea |
| Alum | Calcium sulphate | Hydrogen peroxide | Photo solutions | Water-salt |
| • Ammonia gas (<i>Dry</i>) | Caustic | • Hydrogen sulphide | Plating solutions | • Zinc chloride |
| Ammonium chloride | Chlorine | • Kerosene | Propane | • Zinc sulphate |
| • Ammonium carbonate | • Chromic acid | • Lead acetate | o Potassium hydroxide | |
| o Ammonium hydroxide | • Citric acid | Magnesium carbonate | Soda ash | |
| • Ammonium nitrate | Copper sulphate | Magnesium chloride | Sodium chloride | |
| Ammonium sulphate | Crude oil | • Magnesium sulphate | Sodium cyanide | |
| | • Ethyl alcohol | | Sodium hydroxide | |
- Does not actively corrode bare aluminum o Will attack glass in FRP or Vinyl Ester

PVC is ATTACKED to the degree that it does NOT provide adequate protection against the following chemicals at room temperature:

- | | | | | |
|------------------------|-----------------|----------------------|----------------------|-------------------------|
| † • Acetone | • Asphalt | o • Ethers | † Ketones | * Sodium acetate |
| * Alcohol-Amyl, Benzyl | • Benzene | Ethyl acetate | Methyl-Ethyl ketone | * Sodium phosphate |
| o* Ammonia (liquid) | * Bromine | o Ethylene oxide | Methylene chloride | * Stearic acid |
| * Ammonium flouride | * Butane | * Formic acid | * Naphthalene | Sulphate liquors |
| * Ammonium phosphate | * Butyl acetate | * Gasoline | Nitric acid (anhyd.) | * Sulphur dioxide (wet) |
| * • Amyl acetate | * Carbon tet. | * Heptane | o* Phenol | * Toluene |
| * Amyl chloride | * Chloroform | * Hexane | Phosgene | o* Trichlorethylene |
| o* Aniline | Creosote | * Hydrogen phosphide | * Propyl alcohol | * Turpentine |
| | Esters | o* Hydroflouric acid | * Sodium bisulphate | Vinyl acetate |
| | | * Iodine | * Sodium nitrite | * Xylene |
| | | | * Sodium peroxide | |
- Does not actively corrode bare aluminum †Use 316 stainless * Use PVDF o Will attack glass in FRP or Vinyl Ester

Coatings Summary: (Central Fan will apply the following coatings.)

PVC-Sprayed, air dried, multilayer coatings have good-to-excellent resistance to most acids, alkalis and marine exposures. Coatings are flexible, fairly durable, and good to 150°F. The most commonly used protective coating. Unsuitable in most vapor phase organic solvents.

Eisenheiss-Synthetic polyester resin which is sprayed, air dried in multilayer coatings providing tough impermeable coatings good to 150°F. Chemical resistance similar to PVC except notably a slightly better performance when exposed to trichlorethylene, benzene, carbon tet., or gasoline. Does not perform well in hydrogen peroxide.

Heresite-A sprayed phenolic resin coating which provides good resistance to most common solvents, organic and inorganic acids. Not recommended for caustics, alkalis, and oxidizing agents. Good to 120°F. Affords fair resistance to methyl ethyl ketone, methylene chloride, trichlorethylene.

Epoxy-One of the most durable all-purpose coatings which withstands reasonable abrasion and most chemicals.

Baked epoxy-(Factory applied by Peerless on all blowers) effectively protects carbon steel surfaces from normal atmospheric conditions. Is attacked by acids, alkalis, and certain solvents. Can provide effective undercoating. CENTRAL FAN DOES NOT APPLY BAKED EPOXY COATINGS.

NOTE: BECAUSE OF THE INHERENT FRAGILITY OF ALL COATINGS, NO EXPLICIT WARRANTY OF SERVICEABILITY CAN BE MADE.

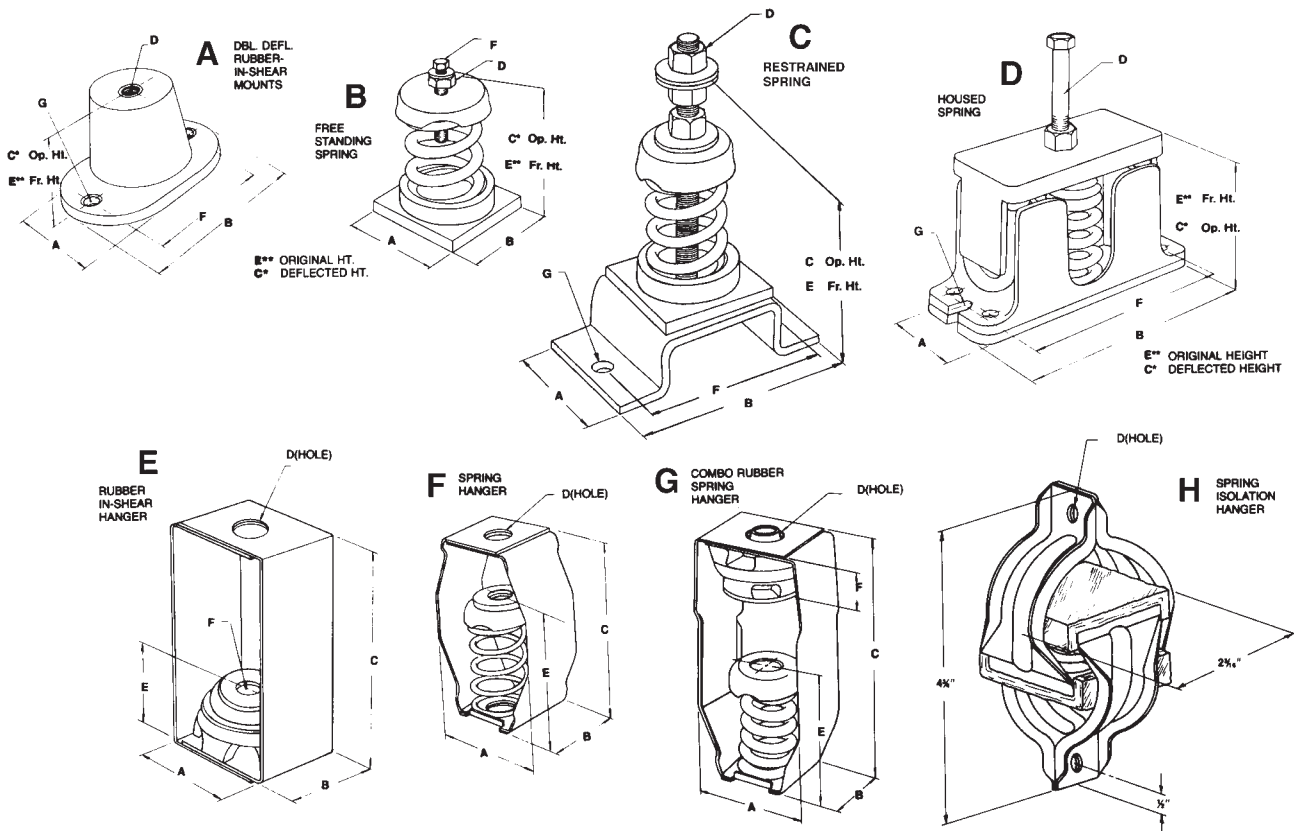
BLOWERS: Rigid PVC has good all-around corrosion resistance and is usually the economic material of choice. However, PVC becomes brittle at sub-zero temperatures and loses its strength above 150°F. Thus, steel reinforcement is used in PVC blower wheels. Do not use FRP above 250°F, or PVDF above 180°F. All are spark resistant (electric insulator). Graphite impregnation into FRP can make it conductive to control static electricity. UV radiation (direct sun) will destroy polypropylene. Although slightly more in initial cost, FRP blowers prove to be more economical where the environment is severe and maximum durability is desired. Polyvinylidene (PVDF) will withstand inorganic acids and bases, organic acids, alcohols, aliphatic and aromatic hydrocarbons and halogenated solvents and halogens (except fluorine).

Isolators for Vibration and Noise Control

The most effective vibration and noise control is obtained when the isolator deflects up to its maximum limit...without exceeding that maximum deflection. For proper selection:

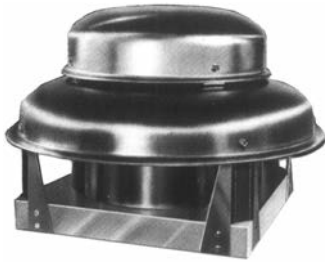
1. Equipment weight - greater deflection (up to max.) provides maximum isolation
2. Equipment RPM - lower than 1200RPM use springs for maximum isolation (Higher RPM's use rubber regardless of substructure)
3. Equipment Location-
 - (a) Rigid sub-structure-use rubber or springs
 - (b) Flexible sub-structure-use springs (such as on upper levels of building)

Fig.	Model Isolator	Color	Cap lbs.	Max. Defl. In.	Spring O.D.	Dimensions (in.)						
						A	B	C	D	E	F	G
A	RD 35	Blue	35	.40	—	1.75	3.13	.85	5/16	1.25	2.37	.34
	RD 70	Red	70	.40	—	1.75	3.13	.85	5/16	1.25	2.37	.34
	RD 135	Blue	135	.50	—	2.37	3.87	1.25	3/8	1.75	3.00	.34
	RD 240	Red	240	.50	—	2.37	3.87	1.25	3/8	1.75	3.00	.34
	RD 375	Black	375	.50	—	2.37	3.87	1.25	3/8	1.75	3.00	.34
B	FDS-35	Blue	35	1.52	1.75	2.63	2.63	3.50	.62	3.88	3/8	—
	FDS-70	Green	70	1.36	1.75	2.63	2.63	3.50	.62	3.88	3/8	—
	FDS-120	Gray	120	1.18	1.75	2.63	2.63	3.50	.62	3.88	3/8	—
	FDS-220	Brown	220	1.10	1.75	2.63	2.63	3.50	.62	3.88	3/8	—
	FDS-370	Orange	370	1.00	1.75	2.63	2.63	3.50	.62	3.88	3/8	—
C	FRS-35	Blue	35	1.52	1.75	3.0	4.75	5.0	.50	5.0	3.75	.44
	FRS-70	Green	70	1.36	1.75	3.0	4.75	5.0	.50	5.0	3.75	.44
	FRS-120	Gray	120	1.18	1.75	3.0	4.75	5.0	.50	5.0	3.75	.44
	FRS-220	Brown	220	1.10	1.75	3.0	4.75	5.0	.50	5.0	3.75	.44
	FRS-375	Orange	370	1.00	1.75	3.0	4.75	5.0	.50	5.0	3.75	.44
D	SL-35	Blue	35	1.52	1.75	2.12	6.12	3.50	3/8	4.00	5.63	.31
	SL-70	Green	70	1.36	1.75	2.12	6.12	3.50	3/8	4.00	5.63	.31
	SL-120	Gray	120	1.18	1.75	2.12	6.12	3.50	3/8	4.00	5.63	.31
	SL-220	Brown	220	1.10	1.75	2.12	6.12	3.50	3/8	4.00	5.63	.31
	SL-370	Orange	370	1.00	1.75	2.12	6.12	3.50	3/8	4.00	5.63	.31
E	RHD-35	Blue	35	.40	—	2.25	2.0	3.0	.421	1.37	.375	—
	RHD-75	Red	75	.40	—	2.25	2.0	3.0	.421	1.37	.375	—
	RHD-120	Green	120	.40	—	2.25	2.0	3.0	.421	1.37	.375	—
	RHD-170	Black	170	.50	—	3.00	2.25	4.5	.656	1.87	.625	—
F	SH-35	Blue	35	1.52	1.75	3.69	2.25	5.25	.88	3.00	—	—
	SH-70	Green	70	1.36	1.75	3.69	2.25	5.25	.88	3.00	—	—
	SH-120	Gray	120	1.18	1.75	3.69	2.25	5.25	.88	3.00	—	—
	SH-220	Brown	220	1.10	1.75	3.69	2.25	5.25	.88	3.00	—	—
	SH-370	Orange	370	1.00	1.75	3.69	2.25	5.25	.88	3.00	—	—
G	SRH-35	Blue	35	1.55	1.75	3.69	2.25	7.38	.75	3.00	1.48	—
	SRH-70	Green	70	1.42	1.75	3.69	2.25	7.38	.75	3.00	1.48	—
	SRH-120	Gray	120	1.29	1.75	3.69	2.25	7.38	.75	3.00	1.48	—
	SRH-220	Brown	220	1.30	1.75	3.69	2.25	7.38	.75	3.00	1.48	—
	SRH-370	Orange	370	1.33	1.75	3.69	2.25	7.38	.75	3.00	1.48	—
H	ARS-30	(For VAV)	30	.50	—	4.75	2.19	.50	.27	—	—	—
	ARS-70	Boxes	70	.50	—	4.75	2.19	.50	.27	—	—	—





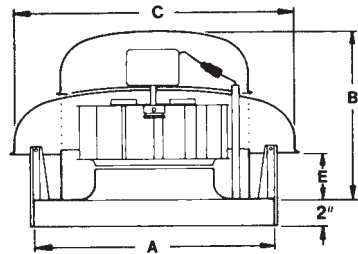
Centri Master[®] Centrifugal Roof Exhausters Direct Driven



- All aluminum construction - compact design
- A non-overloading, aluminum wheel
- Quiet, vibration free motor mountings
- Motor outside exhaust air stream, auto thermal, ODP
- Bird screen
- Galvanized steel frame for strength
- Factory wired with polarized disconnect plug (except explosion resistant motors)
- Electronically commutated motor models available (Special order)
- Hurricane rated models available (Special order)

Roof Model	HP	120v 1 Phase		3 Phase	1750 RPM	120v 1Ø	Drop-in	12" Ht.	RPM	Sones @ 1/4	CFM Static Press. (in. water)						Ship Wt. lbs. (Fan)
		1 Speed S	Var. Sp. M								1 Speed T	XP Motor SX†	Shutter	Curb	0	1/8	
PRN80 3.2 Amps	1/10	X	X(v)	-	-	-	B9	C1312	*1550	7.8	580	496	428	352	254	24	
PRN100 3.2 Amps	1/10	X	X(v)	-	1/2 HP	-	B12	C1512	*1550 1300 1050 850	5.8 4.0 3.0	770 650 520 430	690 550 410 270	610 450 210	520 280	380	27	
PRN110 3.2 Amps	1/10	X	X(v)	-	1/2 HP	-	B12	C1512	*1550 1300 1050 860	11.3 7.6 4.7	1090 910 740 600	990 790 590 420	890 670 400	780 510 270	650 210	27	
PRN126 2.6 Amps	1/4	X	X(v)	-	1/4 HP	-	B16	C2012	*1625 1300 1050	12.0 9.0 6.6	1760 1410 1140	1670 1290 980	1560 980 790	1450 800 540	1320 800 150	1040 680	43
PRN145 5.5 Amps	1/2	X	X(v)	-	1/2 HP	-	B16	C2012	*1625 1300 1050	14.5 10.7 7.6	2540 2030 1640	2420 1880 1460	2300 1730 1270	2180 1580 1030	2060 1400 710	1780 920	1440 46

*Maximum RPM shown obtained with the standard one speed motor. For all other RPMs add solid state speed controller (v) Variable speed w/control. Chemical resistant coating available (X) Available models
† Because of 1725 RPM XP motor, the CFM shown will be increased proportionately.
Expl. Proof motors are single speed only. Disc. sw. extra (Not installed) See p. 10



DIMENSIONS

Model	A*	B	C	E	Shutter O.D.	Curb O.D.	I.D.
PRN 80	13 1/2	9	18 3/4		9	12 1/2	9 1/4
PRN 100, 110	16	13 3/4	21 1/8	3 7/8	12	15 1/4	12
PRN 126, 145	21	16 3/8	27 3/4	4 7/8	16	20	16 3/4

*Outside dimension

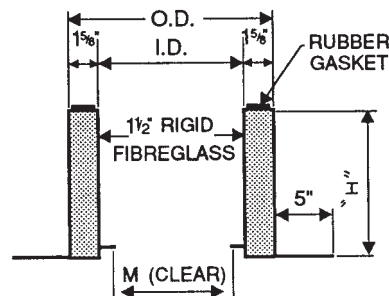
Curb Model No.	Dimensions			Ship Wt.
	O.D.	I.D.	M	
C1312	12 1/2	9 1/4	8	18
C1512	15 1/4	12	10	21
C1912	18 1/2	15 1/4	13 1/2	26
C2012	20	16 3/4	14 1/4	31
C2412	23 1/2	20 1/4	18 3/4	34
C2812	27 1/2	24 1/4	22 1/4	39
C3212	31 1/2	28 1/4	26 1/4	43
C3412	33 1/2	30 1/4	28 1/4	46
C3612	35 1/2	32 1/4	30 1/4	48
C3812	37 1/2	34 1/4	*	50
C4012	39 1/2	36 1/4	34 1/4	52
C4312	43	39 3/4	37 3/4	56
C4612	45 1/2	42 1/4	40 1/4	65
C4912	49	45 3/4	*	69
C5512	55	51 3/4	*	75
C6112	61	57 1/4	*	80

* No shelf

ROOF FAN CURBS AND ADAPTERS

- 18 gauge galv. steel
 - fiberglass insulation
 - neoprene pad
 - continuous welds
 - sturdy shutter shelf
 - self flashing
- Standard height = 12"
(other heights available)

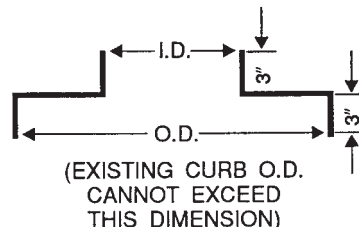
Pitched curbs are special order.



CURB ADAPTERS

- Sturdy...weather tight.
- Continuous welds.
- 18 ga. galv. steel

Adapter permits equal (based on performance) fan replacement without disturbing existing roof curb.
**Many other sizes not shown are in stock.



CURB ADAPTERS**

Model No.	Dimensions	
	A	B
CA 1815	18	15 1/2
CA 1855	18 1/2	15 1/2
CA 1915	19	15 1/2
CA 2015	20 1/2	15 1/2
CA 2118	21	18 1/2
CA 2218	22	18 1/2
CA 2220	22	20 1/2
CA 2515	25	15 1/2
CA 2518	25	18 1/2
CA 2520	25	20 1/2
CA 2820	28	20 1/2
CA 2823	28	23 1/2



Centri Master®

CENTRIFUGAL EXHAUSTERS



ALUMINUM IMPELLER



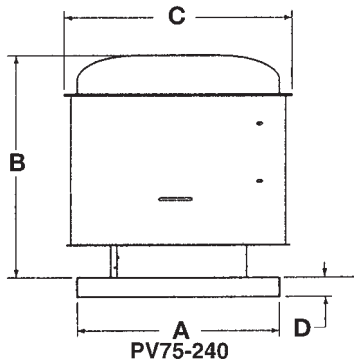
BELT DRIVEN

FEATURES

- Non-overloading aluminum impeller
- Prelubricated, sealed bearings
- Bird screen
- Heavy gauge aluminum housings
- Larger sizes available (Special order)
- Performance certified to 2" static press.
- Motor and drive out of exhaust stream
- Welded 18 ga. galv. insulated curb std. curb ht. = 12" See p. 40 for curb detail.
- Hurricane rated models available (Special order)

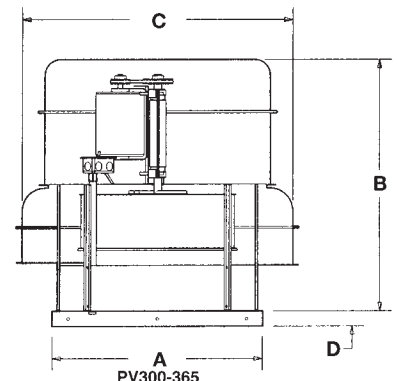
Model No.	HP	SINGLE PHASE		3 PHASE		12" Curb Shutter		Fan RPM	Sones @ 1/4"	CFM							Ship wt. lbs.			
		1 Speed S	2 Speed M	1 Speed T	2 Speed R					Static Pressure (inches H ₂ O)										
											0	1/4	1/2	3/4	1	1 1/2	2			
PV75 A	1/6	X	-	-	-	C2012	B16	1669	8.6	830	730	620	480	140				85		
B	1/4	X	X	-	-			1909	10.7	940	860	770	660	530						
PV100 A	1/6	X	-	-	-	C2012	B16	1625	9.1	1200	1100	850	550	300				85		
B	1/4	X	X	X	-			1869	12.5	1400	1300	1200	1000	700						
C	1/3	X	X	X	-			1993	14.6	1500	1400	1300	1200	1100	600					
PV120 A	1/6	X	-	-	-	C2012	B16	1300	7.8	1440	1270	1050	730				90			
B	1/4	X	X	X	-			1580	10.9	1750	1610	1450	1270	1020						
C	1/3	X	X	X	-			1750	13.4	1940	1810	1680	1520	1345	750					
PV135 B	1/4	X	X	X	-	C2012	B16	1480	11.7	2000	1800	1600	1200	900				93		
C	1/3	X	X	X	-			1616	13.6	2200	2000	1800	1600	1300						
D	1/2	X	X	X	X			1823	17.1	2500	2300	2200	2000	1800	1300	400				
PV150 C	1/3	X	X	X	-	C2412	B20	1185	11.2	2500	2240	1950	1610	1170				111		
D	1/2	X	X	X	X			1365	14.1	2870	2650	2400	2130	1830	730					
E	3/4	X	X	X	X			1555	17.6	3270	3080	2870	2660	2410	1840					
PV165 B	1/4	X	X	X	-	C2412	B20	975	9.1	2700	2200	1700	1100				112			
C	1/3	X	X	X	-			1074	11.4	3000	2500	2100	1600							
D	1/2	X	X	X	X			1244	15.7	3400	3000	2700	2300	1800						
E	3/4	X	X	X	X			1456	19.2	3900	3600	3300	2900	2600	1600					
F	1	X	X	X	X			1584	21	4200	3900	3700	3400	3200	2400	1600				
PV180 D	1/2	X	X	X	X	C2812	B24	830	11.7	4340	3800	3080	1930				206			
E	3/4	X	X	X	X			940	15.6	4920	4440	3920	3100	2020						
F	1	X	X	X	X			1050	19.7	5490	5060	4600	4030	3250						
G	1 1/2	X	-	X	X			1185	22.0	6200	5800	5430	5010	4440	2870					
PV200 D	1/2	X	X	X	X	C2812	B24	798	10.9	4500	3900	2900	1900	1400				207		
E	3/4	X	X	X	X			904	13.9	5100	4600	3700	3000	2100						
F	1	X	X	X	X			1000	16.7	5700	5200	4600	3800	3200						
G	1 1/2	X	-	X	X			1133	20	6500	6000	5500	5000	4200	3000					
H	2	X	-	X	X			1250	23	7100	6700	6300	5800	5200	3800	2100				
PV240 D	1/2	X	X	X	X	C3412	B30	657	10.4	5900	4800	3400	2200				254			
E	3/4	X	X	X	X			758	13.7	6700	5800	4600	3300	2400						
F	1	X	X	X	X			856	17	7400	6700	5600	4500	3300						
G	1 1/2	X	-	X	X			977	21	8500	7800	6900	6100	5000	2600					
H	2	X	-	X	X			1033	23	8800	8300	7800	7200	6500	4600	1000				
PV300 E	3/4	X	X	X	X	C4012	B36	583	15.5	8800	7400	5900	4000				360			
F	1	X	X	X	X			646	18	9800	8400	7000	5500	3400						
G	1 1/2	X	-	X	X			749	21	11000	10000	8800	7400	6000						
H	2	X	-	X	X			814	24	12000	11000	10100	9000	7800	5200					
J	3	X	-	X	X			834	25	-	11300	10600	9900	9200	7500	3900				
PV365 F	1	X	X	X	X	C4612	B42	443	13	12200	10000	7500	4600	2700				422		
G	1 1/2	X	-	X	X			515	16.1	14000	12100	10000	8200	5200						
H	2	X	-	X	X			571	18.7	15500	13700	12000	10000	7900						
J	3	X	-	X	X			658	23	17600	16100	14600	13000	11400	7300					
K	5	-	-	X	X			731	27	19000	18100	17200	16200	15300	12800	10000				

(X) Available models Motor controls p. 10



Model	DIMENSIONS				12" CURB		SHUTTER
	A*	B	C	D	OD	ID	OD
PV 75	21	23 1/2	23 3/4	2	20	16 3/4	16
PV 100	21	23 1/2	23 3/4	2	20	16 3/4	16
PV 120	21	26 3/4	29 1/2	2	20	16 3/4	16
PV 135	21	26 3/4	29 1/2	2	20	16 3/4	16
PV 150	24	31	35	2	23 1/2	20 1/4	20
PV 165	24	31	35	2	23 1/2	20 1/4	20
PV 180	28	35 1/2	39 1/2	2	27 1/2	24 1/4	24
PV 200	28	35 1/2	39 1/2	2	27 1/2	24 1/4	24
PV 240	34	38 1/2	46 1/2	2	33 1/2	30 1/4	30
PV 300	40	37	53	2	39 1/2	36 1/4	36
PV 365	46	46	64	2	45 1/2	42 1/4	42

*Outside dimension



PHONE: (781) 393-4456
1-800-937-4326
FAX: (781) 396-4581

CATALOG #38
www.centrifan.com

CENTRAL FAN CO., INC.
3890 MYSTIC VALLEY PKWY.
MEDFORD, MA 02155



Centri Master®

DIRECT DRIVE

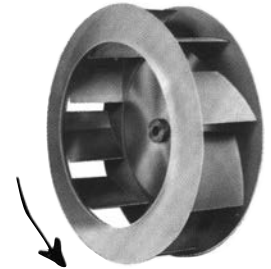
Centrifugal Upblast Ventilators for Commercial Kitchen Exhaust Systems



DIRECT DRIVE

Roof and Wall Mounting

- Non-overloading aluminum backward curved impeller
- Shaded pole or permanent split cap. motors with built-in thermal overload protection and extended life ball bearings
- Safety disconnect switch
- Integral grease trough and drain
- Heavy gauge aluminum housing with extra strength galv. steel base
- Optional solid state variable speed control
- 300°F continuous duty and 600°F flare-up tested
- Bird screen
- Electronically commutated motor models available (Special order)
- Hurricane rated models available (Special order)



ALUMINUM AIRFOIL IMPELLER

IF NFPA 96 COMPLIANCE REQUIRED SEE NOTE BELOW

Model	HP	1 Speed S	Var. Spd. V	(See Note) Shutter* Curb*	Fan RPM	Sones @ 1/4"	CFM								Fan ship wt. lbs.		
							Static Pressure (inches water H ₂ O)										
							0	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"		
PDU080 3.0 amps 115v	1/10	X	X(V)	B9 12" H C1312 28" H* C1328	1600**	9.2	385	368	350	323	253					43	
					1300	7.7	313	292	261								
PDU110 3.0 amps 115v	1/10	X	X(V)	B9 12" H C1312 28" H* C1328	1550**	10.6	1017	951	885	816	731	617	506		43		
					1300	7.6	853	774	693	588	454	270					
					1050	5.5	689	591	468	292							
					860	4.2	564	441	243								
PDU120 2.6 amps 115v	1/4	X	X(V)	B15 12" H C1912 24" H* C1924	1680**	13.6	1753	1689	1611	1522	1433	1295	1155		72		
					1550	13.1	1617	1548	1457	1360	1233	1082					
					1300	9.5	1356	1269	1154	1001							
					1160	8.7	1210	1106	972	770							
PDU135 5.6 amps 115v	1/2	X	X(V)	B15 12" H C1912 24" H* C1924	1695**	19.1	2736	2654	2572	2491	2410	2328	2243	2052	1782	72	
					1550	16.9	2502	2412	2323	2234	2145	2053	1953	1683	1401		
					1330	13.0	2098	1991	1886	1779	1665	1522	1347				
					1050	9.7	1695	1563	1431	1283	1070						
PDU165 6.3/2.9 amps 115/208-230v	1/2	X	X(V)	B20 12" H C2412 18" H* C2418	1160**	18.1	3242	3087	2934	2781	2621	2439	2194	1692		102	
					1050	16.0	2935	2764	2595	2421	2227	1962	1680				
					860	10.7	2404	2196	1986	1725	1385						
												4340	4193	4047	3900		3751
PDU185 6.3/2.9 amps 115/208-230v	1/2	X	X(V)	B24 12" H C2812 18" H* C2818	1160**	17.3	4340	4193	4047	3900	3751	3602	3420		179		
					1050	15.8	3940	3782	3620	3475	3260	3130	2859				
					860	10.9	3269	3138	2889	2773	2424						

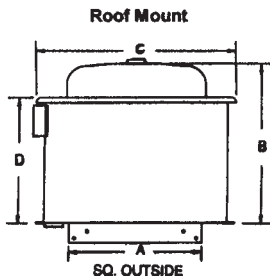
**Max RPM with std. motor. Use variable speed control for other RPM. (V) Variable speed includes solid state control (X) Available models

ACCESSORIES:

- Curb hinge kit
- External grease trough
- Access panel in fan windband
- Wall mount flange
- Chemical Resistant Coating

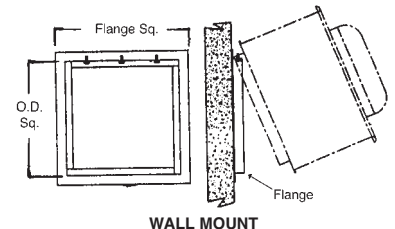
NOTE:

- *NFPA 96 Requires:
 - Min. curb height 18" (disch. > 40" above roof)
 - Fan-curb hinge assembly to allow cleaning fan and duct
 - 500 FPM min. duct velocity
 - External grease trough
 - Prohibits duct damper (shutter)
 - Access panel in fan windband



Model	Dimensions				Curb		Shutter	Wall Flange	
	A*	B	C	D	OD	ID	OD	OD	Flange
PDU110	13 1/2"	16 3/8"	20 5/8"	12 7/8"	12 1/2"	9 1/2"	9	13	17
PDU120	19	19 1/2"	26 3/8"	16 1/2"	18 1/2"	15 1/4"	15	18 1/2"	22 1/2"
PDU135	19	20 7/8"	26 3/8"	16 1/2"	18 1/2"	15 1/4"	15	18 1/2"	22 1/2"
PDU165	24	23 7/8"	30 1/8"	22	23 1/2"	20 1/4"	20	23 1/2"	27 1/2"
PDU185	28	25 3/4"	34 5/8"	22	27 1/2"	24 1/4"	24	27 1/2"	31 1/2"

*Outside dimension





Centri Master®

BELT DRIVE



BELT DRIVE



Centrifugal Upblast Ventilators for Commercial Kitchen Exhaust Systems

Roof and Wall Mounting

- UL LISTED • NFPA 96 COMPLIANCE • AMCA CERTIFIED AIR & SOUND • GREASE COLLECTOR & DRAIN • BIRD SCREEN
- ALUMINUM WHEEL & HOUSING • PRELUBRICATED SEALED BEARINGS • EXTERNAL WIRING BOX
- HURRICANE RATED MODELS AVAILABLE (SPECIAL ORDER)

IF NFPA 96 COMPLIANCE REQUIRED SEE NOTE BELOW

Model No.	HP	1 PHASE		3 PHASE		Curb 12" 18"	Optional Shutter	Fan RPM	Sones @ 1/4"	CFM Static Pressure (in. H ₂ O)						Ship Wt.
		1 Speed S	2 Speed M	1 Speed T	2 Speed R					0	1/4	1/2	3/4	1	1 1/2	
PNU135RG	B 1/4	X	X	X	-	C2412	B20	1400	14.5	2012	1774	1527	1282	882	120	
	C 1/2	X	X	X	-			1550	16.2	2230	2016	1788	1578	1333		
	D 1/2	X	X	X	X	C2418*		1780	17.5	2565	2380	2187	1992	1810		1320
	E 3/4	X	X	X	X			2050	21.0	2950	2790	2630	2455	2290		1960
PNU165RG	C 1/2	X	X	X	-	C2812	B24	1120	13.8	2936	2570	2196	1810	180		
	D 1/2	X	X	X	X			1287	17.0	3377	3064	2728	2417		2063	
	E 3/4	X	X	X	X	C2818*		1480	22.0	3881	3608	3323	3034		2766	2066
	F 1	X	X	X	X			1632	25.0	4400	4100	3750	3390		3050	2600
	G 1 1/2	X	-	X	X	1771		27.0	4708	4487	4277	4071	3866		3300	2700
PNU200RG	D 1/2	X	X	X	X	C2812	B24	948	14.0	4414	3746	3285	2664	1724	240	
	E 3/4	X	X	X	X			1085	17.2	5052	4406	4064	3574	2994		
	F 1	X	X	X	X	C2818*		1194	21.0	5560	4924	4666	4216	3742		2457
	G 1 1/2	X	-	X	X			1360	26.0	6328	5698	5548	5145	4752		3878
	H 2	X	-	X	X	1496		28.0	6966	6332	6263	5897	5532	4807		3918
PNU245RG	E 3/4	X	X	X	X	C3412	B30	725	15.3	5890	5188	4448	3588	290		
	F 1	X	X	X	X			797	17.5	6474	5840	5185	4457		3510	
	G 1 1/2	X	-	X	X	C3418*		913	21.0	7417	6863	6297	5706		5060	2289
	H 2	X	-	X	X			1005	24.0	8164	7660	7150	6632		6074	4780
	J 3	X	-	X	X	1150		27.0	9342	8900	8460	8010	7556		6570	5346
PNU300RG	F 1	X	X	X	X	C4012	B36	596	14.5	9541	7975	6373	5078	415		
	G 1 1/2	X	-	X	X			692	17.3	10652	9515	8215	6910		5701	
	H 2	X	-	X	X	C4018*		760	21.0	11615	10625	9575	8480		7125	
	Roof Only J 3	X	-	X	X			879	26.0	13225	12450	11515	10225		9580	8196
	K 5	-	-	X	X	987		31.0	14622	14131	13619	13055	12444		11262	9904
PNU365RG	G 1 1/2	X	-	X	X	C4612	B42	490	15.2	13750	11810	9914	7700	510		
	H 2	X	-	X	X			548	17.0	15022	13500	11640	9575		8473	
	J 3	X	-	X	X	C4618*		633	23.0	17503	15925	14350	12410		10885	
	Roof Only K 5	-	-	X	X			757	31.0	20500	19390	18175	16750		15479	12450
	L 7 1/2	-	-	X	X	813		35.0	21692	20967	20210	19378	18476		16730	13815

(X) Available models

NOTE:

***NFPA 96 Requires:**

- Min. curb height 18" (disch. > 40" above roof)
- Fan-curb hinge assembly to allow cleaning fan and duct
- 500 FPM min. duct velocity
- External grease trough
- Prohibits duct damper (shutter)
- Access panel in fan windband

ACCESSORIES:

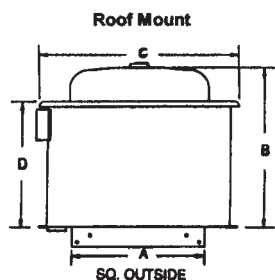
Curb hinge kit
(PNU245 max. for hinge kit)

External grease trough
Wall mount flange
(PNU245 max. size for wall mtg.)
Access panel in fan windband

Motor Disconnect Switches

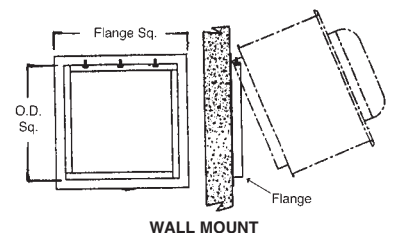
HP	Single Phase		Three Phase	
	1 Sp.	2 Sp.	1 Sp.	2 Sp.
1/2-3/4	X	X	X	X
1-2	X	X	X	X
3	X	-	X	X
5	-	-	X	X
7 1/2-10	-	-	X*	-

*460V-550V only (X) Available



Model	Dimensions				Curb		Shutter	Wall Flange	
	A*	B	C	D	OD	ID	OD	OD	Flange
PNU135	24	27 3/8	33 1/2	22 1/8	23 1/2	20 1/4	20	23 1/2	27 1/2
PNU165	28	26	38	22 1/2	27 1/2	24 1/4	24	27 1/2	31 1/2
PNU200	28	31 1/2	39 3/4	28 3/4	27 1/2	24 1/4	24	27 1/2	31 1/2
PNU245	34	36 1/4	44 3/4	31 1/2	33 1/2	30 1/4	30	33 1/2	37 1/2
PNU300	40	42 1/2	55 3/8	34 1/4	39 1/2	36 1/4	36	-	-
PNU365	46	46	66	41 1/4	45 1/2	42 1/4	42	-	-

*Outside dimension





BELT DRIVE



Centri Master®

Belt Drive



Centrifugal Upblast Ventilators

Roof and Wall Mounting

- Suitable for mounting on roof or wall applications
- Exhausts air containing odors, fumes, grease etc.
- Integral trough and drain allow for drainage of liquids
- Bird screen
- Pre-lubricated sealed ball bearings
- Motor and drive assembly out of exhaust air
- Heavy gauge, aluminum construction - non-overloading wheel
- Welded 18 ga. galv. Insulated curb (std. 12" high) Special curbs page 40.
- Hurricane rated models available (Special order)

KITCHEN EXHAUST FANS
NFPA 96 AND UL YZHW #762
PAGES 42,43

Model No.	HP	1 PHASE		3 PHASE		12" Curb	Shutter	Fan RPM	Sones @ 1/4"	CFM						Ship Wt.			
		1 Speed	2 Speed	1 Speed	2 Speed					0	1/4	Static Pressure (in. H ₂ O)	1	1 1/2	2				
		S	M	T	R														
PNU8RF	B	1/4	X	X	X	-	C2412	B20	2103	11.1	530	485	440	390	350	225	120		
	C	1/8	X	X	X	-			2315	12.6	600	540	500	450	415	330		200	
	D	1/2	X	X	X	X			X	2705	16.1	700	640	600	525	525		450	375
	E	3/4	X	-	X	X			X	3131	19.9	800	750	720	690	660		590	530
PNU135RF	B	1/4	X	X	X	-	C2412	B20	1400	14.5	2012	1774	1527	1282	882	120			
	C	1/8	X	X	X	-			1550	16.2	2230	2016	1788	1578	1333				
	D	1/2	X	X	X	X			X	1780	17.5	2585	2380	2187	1992		1810	1320	
	E	3/4	X	-	X	X			X	2050	21.0	2950	2790	2630	2455		2290	1960	1500
PNU165RF	C	1/8	X	X	X	-	C2812	B24	1120	13.8	2936	2570	2196	1810	180				
	D	1/2	X	X	X	X			1287	17.0	3377	3064	2728	2417		2063			
	E	3/4	X	X	X	X			X	1480	22.0	3881	3608	3323		3034	2766	2066	
	F	1	X	X	X	X			X	1632	25.0	4400	4100	3750		3390	3050	2600	
	G	1 1/2	X	-	X	X			X	1771	27.0	4708	4487	4277		4071	3866	3300	2700
PNU200RF	D	1/2	X	X	X	X	C2812	B24	948	14.0	4414	3746	3285	2664	1724	240			
	E	3/4	X	X	X	X			1085	17.2	5052	4406	4064	3574	2994				
	F	1	X	X	X	X			X	1194	18.2	5560	4924	4666	4216		3742	2457	
	G	1 1/2	X	-	X	X			X	1360	21.0	6328	5698	5548	5145		4752	3878	2645
H	2	X	-	X	X	X	1496	24.0	6332	6615	6263	5897	5532	4807	3918				
PNU245RF	E	3/4	X	X	X	X	C3412	B30	725	15.3	5890	5188	4448	3588	290				
	F	1	X	X	X	X			797	17.5	6474	5840	5185	4457		3510			
	G	1 1/2	X	-	X	X			X	913	21.0	7417	6863	6297		5706	5060	2289	
	H	2	X	-	X	X			X	1005	24.0	8164	7660	7150		6632	6074	4780	
	J	3	X	-	X	X			X	1150	27.0	9342	8900	8460		8010	7556	6570	5346
PNU300RF	F	1	X	X	X	X	C4012	B36	596	14.5	9541	7975	6373	5078	415				
	G	1 1/2	X	-	X	X			692	17.3	10652	9515	8215	6910		5701			
	H	2	X	-	X	X			X	760	21.0	11615	10625	9575		8480	7125		
	J	3	X	-	X	X			X	879	26.0	13225	12450	11515		10225	9580	8196	
K	5	-	-	X	X	X	987	31.0	14622	14131	13619	13055	12444	11262	9904				
PNU365RF	G	1 1/2	X	-	X	X	C4612	B42	490	15.2	13750	11810	9914	7700	510				
	H	2	X	-	X	X			548	17.0	15022	13500	11640	9575		8473			
	J	3	X	-	X	X			633	23.0	17503	15925	14350	12410		10885			
	K	5	-	-	X	X			757	31.0	20500	19390	18175	16750		15479	12450		
	L	7 1/2	-	-	X	X			813	35.0	21692	20967	20210	19378		18476	16730	13815	620

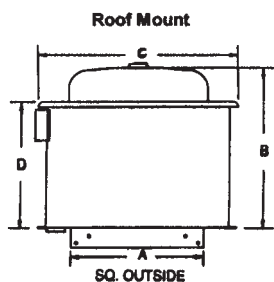
(X) Available models

ACCESSORIES:

- Curb hinge kit (PNU245 max. for hinge kit)
- External grease trough
- Wall mount flange (PNU245 max. size for wall mtg.)
- Chemical resistant coating

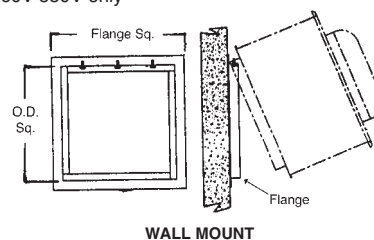
Model	Dimensions				Curb		Shutter	Wall Flange	
	A*	B	C	D	OD	ID	OD	OD	Flange
PNU8	24	27 3/8	33 1/2	22 1/8	23 1/2	20 1/4	20	23 1/2	27 1/2
PNU135	24	27 3/8	33 1/2	22 1/8	23 1/2	20 1/4	20	23 1/2	27 1/2
PNU165	28	26	38	22 1/2	27 1/2	24 1/4	24	27 1/2	31 1/2
PNU200	28	31 1/2	39 3/4	28 3/4	27 1/2	24 1/4	24	27 1/2	31 1/2
PNU245	34	36 1/4	44 3/4	31 1/2	33 1/2	30 1/4	30	33 1/2	37 1/2
PNU300	40	42 1/2	55 3/8	34 1/4	39 1/2	36 1/4	36	-	-
PNU365	46	46	66	41 1/4	45 1/2	42 1/4	42	-	-

*Outside dimension

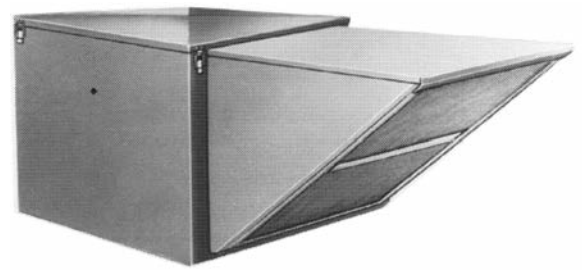


HP	Motor Disconnect Switches			
	Single Phase		Three Phase	
	1 Sp.	2 Sp.	1 Sp.	2 Sp.
1/6-3/4	X	X	X	X
1-2	X	X	X	X
3	X	-	X	X
5	-	-	X	X
7 1/2-10	-	-	X*	-

*460V-550V only



ROOF AIR SUPPLY



SIDE INTAKE CONSERVES ENERGY IN MAKE-UP AIR SYSTEMS

- Can be located on roof directly over kitchen exhaust hoods, reducing cost of electrical hook-up, expensive insulated interior ducts and fittings.
- May also reduce the number of roof penetrations required.

FEATURES

- Easy on site addition of duct extension* to meet code requirements for supply and exhaust separation
- Permanent filters serviceable from exterior of unit.
- Blower equipped with ball bearings with an operating temperature range of -65° to +250°F.
- Latched top cover provides easy access to blower, motor and drives.
- Weather resistant finish of enamel paint on galvanized steel.
- Permanent aluminum mesh filters mounted in intake hood (except Model SIS-20)
- SIS-20 has large drawer type filter section with screened inlet (not illustrated).
- Large filter surface areas for efficient filtering (Intake velocities do not exceed 600 FPM)

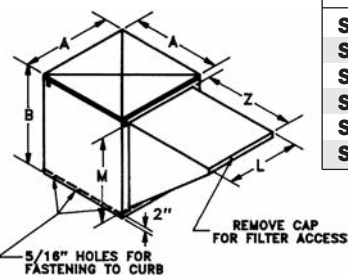
*Intake duct not supplied

Model No.	HP	SINGLE SPEED*		12" Roof Curb	Supply° Shutter	CFM	Static Pressure (inches water) ^{oo}												Ship Wt.			
		1 Phase S	3 Phase T				1/4"		1/2"		3/4"		1"		1 1/2"		2"			2 1/2"		
							RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP		RPM	HP	
SIS9	B	1/4	X	X	C2412	BS18	600	577	.06	785	.11	964	.16	1115	.23	1346	.36	1573	.62	1743	.79	84
	C	1/2	X	X			800	622	.10	809	.15	968	.21	1108	.28	1367	.45	1570	.84	1752	1.06	
	D	3/4	X	X			1200	746	.23	899	.30	1032	.38	1155	.47	1377	.65	1570	.84	1752	1.06	
	E	1	X	X			1600	901	.46	1022	.56	1139	.66	1295	.77	1439	.98	1618	1.21	1784	1.46	
	F	1 1/2	X	X			1800	985	.63	1092	.73	1200	.85	1302	.97	1483	1.20	1652	1.45			
	G	2	X	X			2000	1072	.84	1168	.95	1265	1.08	1362	1.21	1536	1.47					
SIS10	C	1/2	X	X	C2812	BS22	800	525	.08	704	.14	874	.20	1013	.27	1299	.41	1404	.56	1555	.72	104
	D	3/4	X	X			1200	600	.18	754	.26	881	.34	997	.42	1231	.60	1433	.80	1600	1.00	
	E	1	X	X			1600	701	.33	828	.45	945	.55	1051	.66	1234	.87	1408	1.10	1584	1.34	
	F	1 1/2	X	X			2000	810	.58	923	.71	1023	.85	1118	.99	1293	1.25					
	G	2	X	X			2400	925	.93	1029	1.09	1118	1.25	1201	1.42							
SIS12	D	3/4	X	X	C3212	BS26	1600	497	.21	633	.31	767	.42	884	.55	1075	.82	1233	1.11	1371	1.41	140
	E	1	X	X			2000	551	.34	671	.45	778	.58	886	.72	1083	1.04	1245	1.37	1386	1.72	
	F	1 1/2	X	X			2400	614	.52	721	.66	816	.80	905	.95	1085	1.29	1252	1.67			
	G	2	X	X			2800	685	.77	775	.93	865	1.10	945	1.26	1099	1.61					
	H	2 1/2	X	X			3000	721	.92	805	1.10	891	1.27	969	1.45	1114	1.81					
		3	X	X			3400	792	1.28	870	1.48	945	1.68	1020	1.88							
SIS15	E	3/4	X	X	C3612	BS30	2000	384	.23	508	.37	622	.37	721	.73	871	1.10	988	1.46	1088	1.81	200
	F	1	X	X			2500	409	.36	527	.53	623	.70	717	.88	883	1.35	1014	1.84	1121	2.30	
	G	1 1/2	X	X			3000	444	.54	521	.73	643	.94	723	1.14	878	1.58	1019	2.15	1138	2.74	
	H	2	X	X			3500	486	.78	577	.99	667	1.24	744	1.48	881	1.94	1014	2.47			
	J	2 1/2	X	X			4000	533	1.09	610	1.32	691	1.58	769	1.87	898	2.41	1017	2.95			
	K	3	X	X			4500	584	1.50	649	1.74	720	2.01	792	2.32	922	2.95					
			X	X			5000	637	2.01	692	2.25	755	2.55	819	2.86							
SIS18	F	1 1/2	X	X	C3612	BS30	4000	378	.65	464	.93	537	1.22	620	1.60	780	2.57	893	3.29	987	3.97	345
	G	2	X	X			4500	402	.85	484	1.15	553	1.49	617	1.80	774	2.85	900	3.83	999	4.63	
	H	2 1/2	X	X			5000	428	1.11	505	1.40	572	1.78	632	2.14	757	2.97	899	4.28			
	J	3	X	X			5500	456	1.41	527	1.72	592	2.10	650	2.52	756	3.29	883	4.72			
	K	5	-	X			6000	485	1.77	551	2.10	669	2.47	720	2.92	870	4.72					
				X			6500	515	2.18	576	2.54	635	2.92	690	3.37	787	4.36					
				X			7000	546	2.67	602	3.05	658	3.44	711	3.89	806	4.94					
				X			7500	578	3.22	630	3.63	682	4.05	733	4.49							
				X																		
SIS20	H	2	X	X	C4312	BS37	5000	374	.85	443	1.17	513	1.53	581	1.92	701	3.66	797	3.66	879	4.50	670
	J	3	X	X			6000	419	1.31	482	1.69	539	2.08	597	2.50	710	3.45	812	4.50	899	5.55	
	K	5	-	X			7000	464	1.90	529	2.36	576	2.80	625	3.26	724	4.25	821	5.38	910	6.60	
	L	7 1/2	-	X			8000	512	2.69	571	3.21	618	3.72	662	4.23	748	5.29	835	6.45	920	7.72	
	M	10	-	X			9000	562	3.68	616	4.26	663	4.85	704	5.41	780	6.57	857	7.79	934	9.10	
				X			10000	614	4.91	662	5.53	708	6.19	748	6.84	818	8.10	887	9.40			
				X			11000	667	6.47	709	7.06	753	7.78	793	8.51	861	9.90					
				X			12000	720	8.20	758	8.88	799	9.64									
				X																		

°Supply damper is mounted in horizontal plane; opens downward with airflow. Damper spring return. (See p. 8.)

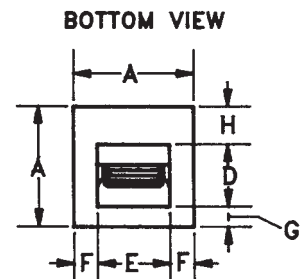
All dampers are square. Model No. indicates size - nominal size minus 1/8".

°°Static pressure reduction on blowers designed for higher pressure could result in motor overload (X) Available models



Model	Curb Cap			Dimensions						
	A*	B	D	E	F	G	H	L	M	Z
SIS9	24 3/8	19 3/8	10 3/8	11 3/16	6 3/32	7 1/16	7 1/16	19 1/4	16 3/16	21 1/4
SIS10	28 3/8	21 3/8	11 3/8	13 3/8	7 5/8	8 1/2	8 1/2	20 1/2	18 9/16	25 3/4
SIS12	32 3/8	24 3/8	13 3/8	15 3/8	8 3/8	9 3/8	9 3/8	25 3/8	21 3/8	30 3/8
SIS15	36 3/8	28 3/8	15 3/8	18 3/8	8 7/8	7 3/4	12 5/16	31 1/16	25 13/16	33 1/2
SIS18	36 3/8	42 1/2	18 3/8	21 3/8	7 1/4	6	11 1/2	35 3/8	32 11/16	40 1/4
SIS20	44 3/8	49	24 3/4	24 3/4	9 13/16	14 1/16	5 3/16	38 3/8	35 9/16	45 1/2

*Inside dimension



INLET SIDE

Exhaust Relief or Fresh Air Intake



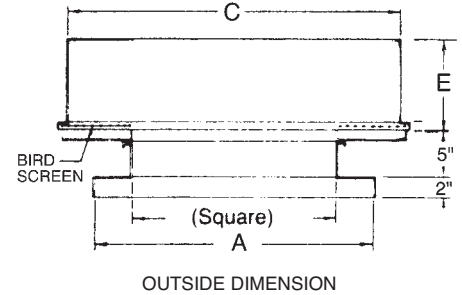
Sky Master

Gravity Trimline Ventilators

LOW SILHOUETTE



- Hood perimeter opening-to-throat area = 2:1
- Inlet velocity at hood opening less than 650 FPM to prevent snow intake
- Welded, heavy (.080") aluminum
- Bird screen



Vent Model	12" High Curb	Intake 115v Motorized Shutter	Exhaust† Gravity Shutter	Supply CFM* .18" S.P.	**Throat Area Sq. Ft.	Dimensions					Vent Ship Wt.
						A°	C	E	12" Curb O.D.	I.D.	
IV 1212	C1912	BM15L	B15	1300	1.0	20	21	7	18½	15¼	37
IV 1616	C2412	BM20L	B20	2310	1.8	24	28	9	23½	20¼	46
IV 2020	C2812	BM24L	B24	3500	2.8	28	35	11	27½	24¼	74
IV 2424	C3212	BM28L	B28	5240	4.0	32	42	11	31½	28¼	79
IV 3030	C3612	BM32L	B32	7870	6.25	38	53	13	35½	32¾	116
IV 3636	C4312	BM39L	B39	11610	9.0	44	63	15	43	39¾	140

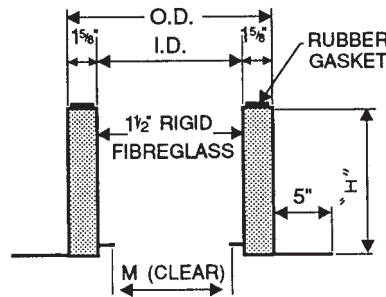
*Max. supply for < 650 FPM (snow intake velocity) Max. exhaust. = 1.5X air supply °Outside dimension
 †Gravity damper will not operate as barometric damper. **Throat dimensions equivalent to model number (X) Available models

ROOF FAN CURBS AND ADAPTERS

- 18 gauge galv. steel
- fiberglass insulation
- neoprene pad
- continuous welds
- sturdy shutter shelf
- self flashing

Standard height = 12"
 (other heights available)

Pitched curbs are special order.



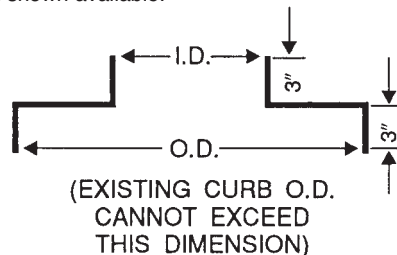
Curb Model No.	DIMENSIONS			Ship Wt.
	O.D.	I.D.	M	
C1312	12½	9¼	8	18
C1512	15¼	12	10	21
C1912	18½	15¼	13½	26
C2012	20	16¾	14¾	31
C2412	23½	20¼	18¼	34
C2812	27½	24¼	22¼	39
C3212	31½	28¼	26¼	43
C3412	33½	30¼	28¼	46
C3612	35½	32¼	30¼	48
C3812	37½	34¼	*	50
C4012	39½	36¼	34¼	52
C4312	43	39¾	37¾	56
C4612	45½	42¼	40¼	65
C4912	49	45¾	*	69
C5512	55	51¾	*	75
C6112	61	57¾	*	80

*No shelf

CURB ADAPTERS

Adapter permits equal (based on performance) fan replacement without disturbing existing roof curb. Many other sizes not shown available.

- Sturdy...weather tight
- Continuous welds.
- 18 ga. galv. Steel.



CURB ADAPTERS

Model No.	Dimensions	
	A	B
CA 1815	18	15½
CA 1855	18½	15½
CA 1915	19	15½
CA 2015	20½	15½
CA 2118	21	18½
CA 2218	22	18½
CA 2220	22	20½
CA 2515	25	15½
CA 2518	25	18½
CA 2520	25	20½
CA 2820	28	20½
CA 2823	28	23½

Lau Double Inlet Blowers

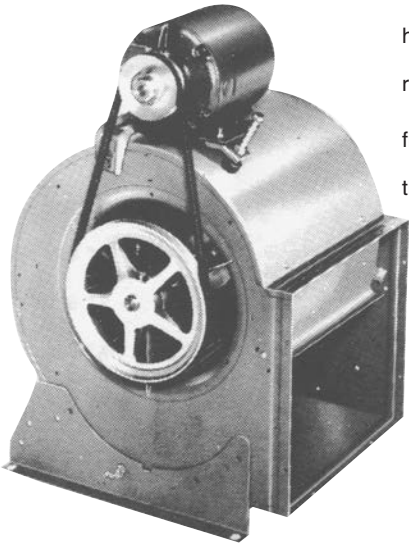
FORWARD CURVE - DOUBLE WIDTH WHEELS - BELT DRIVE

Low cost double inlet blowers with double width wheels for those applications not requiring duct to the inlet end. Their compact design and quietness of operation make these blowers popular for residential and commercial heating and air conditioning.

Belt driven for flexible choice of speeds and air outputs, with standard motors that are easy and economical to replace if necessary.

CLOCKWISE OR CCW ROTATION - (facing motor shaft). Bottom horizontal discharge unless otherwise specified. Discharge position can be easily changed.

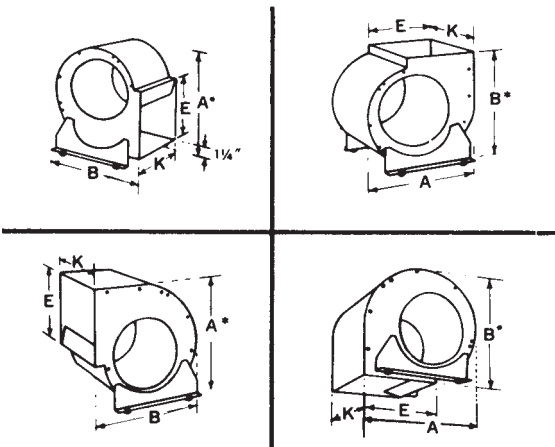
Long life ball bearings - Oversized belt drive - True running balanced wheels. Furnished with soft rubber vibration bushings.



**Assembled & Tested Blower
(With motor and drive on blower)**

Model	HP	10 1 Speed	10 2 Speed	30 1 Speed
A	1/6	X	-	-
B	1/4	X	X	X
C	1/2	X	X	X
D	3/4	X	X	X
E	1	X	X	X
F	1 1/2	X	-	X
H	2	X	-	X

(X) Available models



DIMENSIONS

Model Number	K	E	A	B	Shaft Size
A 9-6 ACEBB	8 3/4	10 3/4	15 7/16	14 15/16	3/4
A 9-7 ACEBB	9 7/16	10 3/4	15 1/16	14 15/16	3/4
A 9-9 ACEBB	11 1/2	10 3/4	15 7/16	14 15/16	3/4
A 10-6 ACEBB	8 1/4	11 3/8	17 1/4	16 1/2	3/4
A 10-8 ACEBB	10 1/2	11 3/8	17 1/4	16 1/2	3/4
A 10-10 ACEBB	13 1/8	11 3/8	17 1/4	16 1/2	3/4
A 12-6 ACEBB	8 13/16	13 3/16	20 1/16	19 3/16	1
A 12-9 ACEBB	12 1/2	13 3/16	20 1/16	19 3/16	1
A 12-12 ACEBB	15 3/4	13 3/16	20 1/16	19 3/16	1
A 15-9 ACEBB	12 13/16	15 1/2	24 1/8	22 1/2	1
A 15-11 ACEBB	14 1/16	15 1/2	24 1/8	22 1/2	1
A 15-15 ACEBB	18 3/8	15 1/2	24 1/8	22 1/2	1
A 18-13 ACEBB	17 3/8	18 3/8	29 3/16	27	1
A 18-18 ACEBB	21 1/4	18 3/8	29 3/16	27	1

Model No.	Wt. Lbs	BLOWER PERFORMANCE								
		CFM	1/4" SP		1/2" SP		3/4" SP		1" SP	
			RPM	HP	RPM	HP	RPM	HP	RPM	HP
A9-6	17	400	556	.07	783	.11	992	.15	1156	.19
		600	575	.09	769	.13	950	.17	1102	.21
		800	630	.12	794	.16	958	.21	1092	.25
		1000	700	.18	845	.22	986	.27	1100	.37
A9-7	19	400	553	.07	807	.09	986	.14	1133	.19
		600	586	.09	790	.13	954	.19	1118	.22
		800	599	.11	793	.16	946	.22	1097	.31
		1000	644	.14	813	.19	954	.26	1092	.34
A9-9	22	600	566	.10	788	.14	998	.20	1148	.25
		800	589	.12	787	.16	972	.23	1127	.29
		1000	623	.15	803	.20	964	.27	1109	.33
		1200	663	.19	828	.25	980	.33	1111	.39
A10-6	22	400	491	.06	704	.11	872	.15	1014	.18
		600	500	.09	686	.13	841	.16	983	.21
		800	529	.12	697	.16	838	.21	963	.26
		1000	577	.16	724	.21	854	.27	969	.31
A10-8	23	400	477	.06	700	.11	863	.17	1013	.22
		600	492	.10	693	.14	836	.18	981	.25
		800	517	.12	690	.17	829	.22	963	.31
		1200	550	.17	727	.23	836	.30	958	.35
A10-10	26	400	477	.06	700	.11	863	.17	1013	.22
		600	492	.10	693	.14	836	.18	981	.25
		800	517	.12	690	.17	829	.22	963	.31
		1200	550	.17	727	.23	836	.30	958	.35
A12-6	37	800	490	.13	700	.20	859	.28	1002	.37
		1000	507	.16	693	.21	843	.30	977	.38
		1200	529	.18	705	.26	841	.33	967	.42
		1400	558	.22	718	.29	847	.38	968	.45
A12-9	39	800	414	.11	593	.18	735	.24	852	.30
		1000	437	.11	577	.19	712	.26	835	.32
		1200	472	.14	586	.22	708	.30	812	.36
		1400	509	.23	623	.32	726	.39	820	.47
A12-12	41	1600	542	.30	647	.37	744	.45	832	.54
		1800	581	.32	677	.43	765	.55	851	.64
		1000	400	.11	566	.18	714	.28	828	.36
		1200	410	.13	563	.21	697	.29	815	.38
A15-9	50	1400	424	.15	566	.23	688	.32	800	.42
		1600	447	.19	575	.27	689	.36	794	.45
		1800	470	.23	580	.31	695	.41	791	.51
		2000	496	.27	600	.37	705	.48	795	.57
A15-11	52	1400	424	.16	574	.26	700	.33	816	.42
		1600	436	.18	579	.29	702	.37	809	.47
		1800	451	.22	587	.32	704	.42	811	.51
		2000	463	.26	596	.37	711	.47	812	.56
A15-15	65	2200	486	.30	609	.42	718	.52	817	.62
		2400	507	.36	623	.47	728	.58	823	.69
		2600	530	.42	638	.54	740	.65	831	.76
		1500	347	.17	472	.24	582	.34	666	.43
A18-13	90	2000	375	.25	483	.34	576	.44	657	.56
		2500	411	.36	503	.46	590	.60	665	.72
		3000	458	.52	534	.62	608	.81	680	.95
		3500	493	.73	564	.87	633	1.06	702	1.23
A18-18	100	4000	540	1.05	605	1.22	667	1.42	729	1.55
		4500	589	1.37	648	1.58	703	1.80	761	2.02
		5000	637	1.75	690	2.05	745	2.30	800	2.50
		2000	344	.21	459	.30	562	.42	654	.52
A18-18	100	2500	368	.30	467	.40	563	.52	652	.66
		3000	396	.41	487	.53	573	.67	654	.82
		3500	441	.50	512	.73	590	.89	663	1.05
		4000	479	.84	543	1.00	611	1.17	679	1.32
A18-18	100	2000	350	.20	480	.31	595	.45	695	.56
		2500	370	.27	488	.40	592	.55	682	.69
		3000	395	.36	504	.52	598	.67	679	.81
		3500	429	.49	524	.67	610	.83	685	.97
A18-18	100	4000	467	.68	552	.86	626	1.02	695	1.17
		4500	505	.88	579	1.06	647	1.25	712	1.44
		3000	309	.31	415	.52	497	.64	570	.76
		3500	327	.41	423	.58	500	.76	571	.94
A18-18	100	4000	352	.58	435	.73	506	.92	576	1.13
		4500	377	.70	448	.90	514	1.11	582	1.37
		5000	400	.90	463	1.10	527	1.38	590	1.54
		5500	427	1.17	483	1.36	541	1.60	599	1.85
A18-18	100	6000	455	1.33	502	1.62	557	1.89	613	2.14
		3000	302	.28	414	.47	505	.61	593	.82
		3500	315	.36	418	.56	503	.71	585	.93
		4000	340	.48	427	.65	505	.83	581	1.06
A18-18	100	4500	351	.61	437	.80	511	.99	583	1.22
		5000	367	.74	449	.96	521	1.19	589	1.43
		5500	388	.90	463	1.13	531	1.42	596	1.66
		6000	407	1.12	476	1.36	542	1.67	606	1.94
A18-18	100	6500	423	1.28	492	1.60	556	1.88	616	2.20
		7000	439	1.50	508	1.87	571	2.20	629	2.52

American

Coolair



MODEL JBH

BELT DRIVE UPBLAST AXIAL ROOF FAN

- Heavy gauge steel construction with baked epoxy finish
- Fiberglass butterfly dampers serve as skylight when not in operation
- Unpainted galvanized steel windband
- Magnetic latches prevent damper flap when fan is not in operation

SPECIAL ORDER MODELS JT AND HS

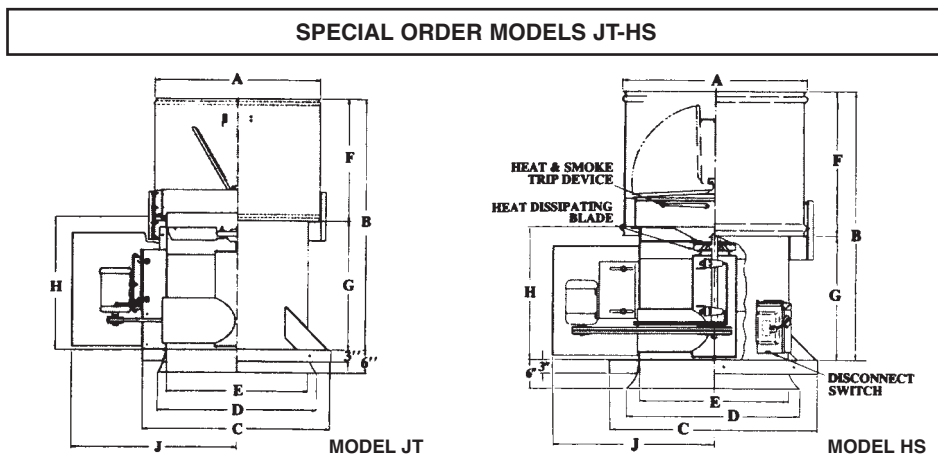
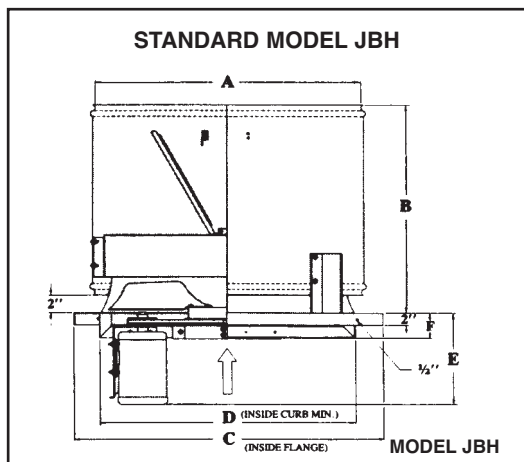
- JT Model has motor & drive removed from air stream and accessible from roof.
- HS model for heat & smoke removal. Continuous operation at 650°F. Intermittent to 1200°F

Model No.	HP	STD. Model JBH Open Motor		12" High Curb	Fan RPM	Model JBH Performances CFM				Sones @5'	JBH Ship Wt.
		1 Phase S	3 Phase T			Static pressure (inches H ₂ O)					
						0	¼	⅜	½		
JBH24	E ¾	X	X	C3812	949	7901	6564		5000†	31	240
	F 1	X	X		1048	8725	7537	6860		38	242
	G 1½	X	X		1075	8950	7795	7143	6489	40	282
JBH30	F 1	X	X	C4312	798	11780	9724		7700†	26	315
	G 1½	X	X		887	13094	11255	10279		31	335
	H 2	X	X		965	14245	12559	11692	10727	36	340
	J 3	X	X		1113	16430	14969	14234	13478	48	362
JBH36	F 1	X	X	C4912	607	15425			9000†	23	367
	G 1½	X	X		670	17026	14082			27	385
	H 2	X	X		725	18423	15774	14162		31	395
	J 3	X	X		826	20990	18688	17417	15989	38	412
JBH42	G 1½	X	X	C5512	533	20363	15703		14000†	27	470
	H 2	X	X		579	22121	18007	15759		31	475
	J 3	X	X		659	25177	21857	19534	17737	38	500
JBH48	H 2	X	X	C6112	469	26870	20378		17000†	29	620
	J 3	X	X		533	30537	25086	21687		35	640

† Min. CFM to yield O.V. = 1850 FPM prevents entry of rain during operation. Low speed operation (2-sp. motor) could allow PPT. entry. Two speed operation is therefore limited. (X) Available models

Note: Motor and drive assembled and tested on fan panel

Fan panel, dampers and windband are separate for ease of handling in shipping and site location.



Model No.	DIMENSIONS					
	A	B	C	D	E	F
JBH 24	32	28¾	38	32	11⅞	5½
JBH 30	38	33⅝	44	38	16¾	5½
JBH 36	44	33⅝	50	44	17	5½
JBH 42	50	38½	56	50	17	5½
JBH 48	56	39½	62	56	17	5½

Model No.	DIMENSIONS					
	A	B	C	D	H	J
JT 24	32	53¾	38	30¼	28	30½
JT 30	38	58¾	44	36¼	28	34½
JT 36	44	66⅞	50	42¼	36	41⅝
JT 42	50	71	56	48½	36	45¼
JT 48	56	71	62	54⅝	36	48¾

Model No.	DIMENSIONS				
	A	B	C	D	F
HS 24	SEE MODEL JT				
HS 30					
HS 36					
HS 42					
HS 48					