

FGC FIBERGLASS FANS

HIGH EFFICIENCY • LOW COST MAINTENANCE • LOW COST INSTALLATION

IDEALLY SUITED FOR POULTRY, SWINE, DAIRY AND GREENHOUSE APPLICATIONS

FEATURES

- · Heavy Duty Fiberglass Injection Molded Housing
- · Performance enhancing cone included
- · All fans are fully tested before shipping.
- Designed with smooth inside and outside for improved cleaning.
- Self draining, sloped housing is quick & easy to clean reducing maintenance costs.
- Belt or direct drive options available
- · All fans have smooth operating, easy to clean poly shutters.
- Available in 54" size

OPTIONS

- HE, EC or AC motor.
- 3 phase motor 208-230/460 volt option available on some units.
- FRP board winter inserts available with unique double seal.

WARRANTY

• 10 years on housings • 1 year on balance of fan

BACK VIEW

SPECIFICATIONS

			Spec	cificatio	ons									Perf	ormance					
			moto	r		blade	Model Number	TESTED AT	rpm	Dba	cone		0.00"SP			0.05"SP			0.10"SP	
		type	speed	hp	hz	mat'l			ιμπ	Dua	8	cfm	cfm/w	amps	cfm	cfm/w	amps	cfm	cfm/w	amps
t m		EC	Vari	3/4	50/60	galv.	FGC36W-EC	 ♥ CANARM®	850	75	Υ	14240	22	2.5	13260	19.5	2.61	12580	16.8	2.79
DIRECT	36"	AC	Single	1	60	galv.	FGC36W23G31	 ▼ CANARM®	850	75	Υ	14510	18.1	3.55	13450	15.8	3.69	13020	14.8	3.81
		AC	Single	1/2	60	galv.	FGC36W40G31		850	75	Υ	11400	20.1	2.6	10600	17.6	2.63	9800	15.9	2.7
ECT	ļ.	HE	Vari	2	50	and t	FGC54W-HE	W CANARM°	600	70	Υ	29670	23	3.9	28130	20.5	4.1	26560	18.5	4.3
DIRECT	54"		vari	2	50	galv.	FGC54W-HE	 ▼CANARM*	524	70	Υ	25820	28.5	3	24010	25	3.3	22120	22	3.4
BELT	54"	AC	ON/OFF	2	60	galv.	FGC54	V CANARM¹	575	75	Υ	28490	18.5	6.9	26890	17	7.1	25340	16	7.3

Note: Wind has a significant effect on exhaust fans. A 10 mph wind creates a 0.05" pressure against the fan. A 20 mph wind creates 0.20" pressure and 30 mph a 0.45" pressure. These pressures are in addition to the static pressure in the building.

• The DbA (Noise Level) on 54" Panel Fan is approximately 80 DbA. Variable speed option available. New EC motor 1h (P1174-AEC) Fan model #(PF54-AEC-2022), control needs to be a 0-10v control. For a stand alone system we offer the (Phason CNSSV-DC) or any 0-10v control. The Cyclones are controlled by a VFD and 0-10v controller as well.

DIMENSIONS

					FRA	MING DIMENSIC	ONS
FAN SIZE	F	AN	СО	NE	WIDTH	HEIG	HT
TAIT OILL	Α	В	С	D	All Walls	4" & 6" Wall	9" Wall
36"	27"	8"	24"	42"	45.5"	45.5"	45.5"
54"	25"	8"	32"	63.5"	63.75"	63.75"	64.25"

D D

CANARM LTD. - Corporate Office PO Box 367 2157 Parkedale Ave., Brockville, ON Canada K6V 5V6 Tel: (613) 342-5424 Fax: 1-800-263-4598 Arthur Manufacturing Facility #7686 Concession 16, RR 4 Arthur, ON Canada N0G 1A0 Tel: (519) 848-3910 Fax: (519) 848-3948 CANARM LTD. - USA Warehouse 808 Commerce Park Drive Ogdensburg, New York, USA 13669 Tel: 1-800-267-4427 Fax: 1-800-263-4598



72" MAX AIR PLUS





FIBERGLASS EXHAUST FANS

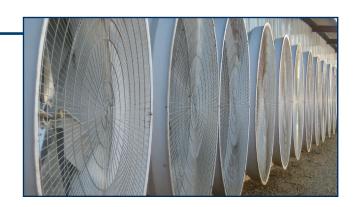
The MAX-AIR® PLUS is a superior output and high efficiency fiberglass exhaust fan. The MAX-AIR® PLUS 72 fan produces UP TO 49,167 CFM. The thick fiberglass housing is strong, corrosion resistant and easy to clean.

MAX-AIR® PLUS fiberglass discharge cone does not stick out as far as conventional exhaust fans. This reduces the wind scoop effect of the large cones which significantly affects the performance

of the fan when wind blows against the fan. Most roofs overhangs extend over MAX-AIR® PLUS fans, as opposed to other cones sticking out, thus putting them at risk of shear-off or damage from falling snow or heavy rain.

APPLICATIONS

- Ideal for tunnel and exhaust ventilation in dairy, poultry, swine, greenhouse and industrial applications.
- MAX-AIR® PLUS large volume output means fewer fans are required, thus reducing installation cost.
- When using the optional variable frequency drive, the MAXAIR® PLUS fan can be run with variable speed meeting both minimum and maximum ventilation requirements for large buildings.



ACCESSORIES

WINTER INSERTS WI2-FG72

Insulated 78" - 2 piece winter door to protect against heat loss. (78"x39" x 2pc).



VFD - LENZE SERIES - ESV222N2YXC

Flexible, simple and economical. The SMVector is a highly competitive AC drive. Its erformance, simplicity and flexibility make it an attractive solution for a broad range of applications including: Conveying, Agricultural and HVAC systems. Requires a VFD compatible AC motor.



TECHNICAL SPECIFICATIONS

All belt drive. Available motors: 50 or 60 HZ

MODEL	SIZE	HP	VOLTS	AMPS	HZ	PH	RSO
FG72-33	72"	3	208-230 / 416-460 / 480	8.2-7.6 / 4.1-3.8 / 3.6	60	3	78.5" x 78.5"
FG72-13	72"	3	208-230	8.2 - 7.6	60	1	78.5" x 78.5"

RPM	@ 0	" SP	@ 0.0	5" SP	@ 0.	1" SP	@ 0.1	25" SP	@ 0.1	5" SP	SOUND
KFIVI	cfm	cfm/watt	(dB)								
297	44,408	26.80	42,003	23.75	39,470	21.05	36,500	17.80	35,536	17.45	84
306	45,589	25.70	43,257	22.88	41,124	20.60	39,000	18.14	36,549	16.70	
329	49,167	22.57	46,871	20.26	44,603	18.12	43,000	16.54	41,975	16.23	87

NOTE: 88" wall space required per fan.

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808 Commerce Park Drive Ogdensburg, New York, USA 13669 Tel: 1-800-267-4427 Fax: 1-800-263-4598

PLASTIC WALL EXHAUST FANS

EXHAUST FANS - 3 NOV/2022

GOOD PERFORMANCE • DEPENDABLE • GREAT VALUE

IDEALLY SUITED FOR SWINE AND POULTRY BUILDINGS



- 12" to 36" Sizes.
- Molded impact resistant black polyethylene housings with UV prohibitors.
- · Standard base mount motors are easily replaced.
- Easy to remove shutter with welded steel frame and aerodynamic PVC louvers are held in place by a stainless spring steel pin and is virtually indestructible.
- Powder coated exhaust guard.
- Corrosion proof airfoil polypropylene blades on 12" to 24" sizes.
- 36" fan has a galvanized blade.
- Heavy duty motors are totally enclosed, ball bearing, high efficiency dual voltage, single phase, 60 Hz (PLF36-H is 230 volt only).
- · Also available with EC motor.

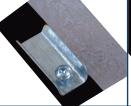
PLATFORM MOUNT



EASILY REMOVABLE SHUTTERS

Flip latch open to release shutter







ACCESSORIES

CONES

Performance enhancing cones in durable black polyethylene are available for 24" and 36" fans.



WINTER INSERTS

Insulated 16" to 36" winter inserts. R8 insulation value and unique double seal protect against heat loss.



HOODS



Low air restriction 12" to 24" weather hoods. Most hoods restrict 20 to 35% of air flow, our design restricts less than 10%.

WARRANTY

- 5 years on plastic housing
- 1 year on all other components

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agsales@canarm.ca

PLASTIC WALL EXHAUST FANS

EXHAUST FANS - 4 NOV/2022

SPECIFICATIONS

			;	Spec	ificatio	ns				_					P	erform	ance					Rough
			Mo	tor		Shutter	Blade	Model	TESTED AT	Test Code	rpm	DbA	cone	0.00	" SP	(0.05" SF)	0.10	" SP	AFR	Opening
		type	spd	volt	hp	Frame	mat'l				.,		ö	cfm	cfm/w	cfm	cfm/w	amps	cfm	cfm/w		ricquireu
	12"	Leeson			1/4			PLF12-EVDL		210336V	1625	65	N	1300	7.1	1150	6.5	1.06	600	3.6	0.30	15" Sqr
	16"	Leeson			1/4			PLF16-EVDL		210365V	1625	72	N	2600	9.3	2350	8.7	1.39	2150	8.0	0.54	19.25" Sqr
	18"	Leeson				<u> </u>		PLF18-FVDL	∜ CANARM°	210389V	1625	75	N	3450	10.1	3150	9.5	1.69	2900	8.7	0.65	21.25" Sqr
		Leeson	variable	oltage	1/3	Stainless Steel	Plastic	PLF24-M	₩OC (A) (D) (210473V	1100	75	N	5300	13.1	4800	11.9	1.79	4250	10.7	0.66	
	24"	Leeson		115/230 dual voltage		Str		FLF24-IVI	™CANARM°	210479V	1100	75	Υ	6000	14.5	5550	13.4	1.86	5000	12.0	0.61	27.25" Sgr
DIRECT	77	Leeson		115/2				DI E24 CVDI	₩ CANARM°-	210461V	1625	01	N	5800	10.7	5400	10.0	2.41	4900	9.2	0.75	21.25 Sqr
		Leeson			1/2			PLF24-GVDL	y CANARM	210467V	1025	01	Υ	6200	11.5	5850	10.7	2.41	5450	10.1	0.77	
		Canarm			1/2			PLF36-MP	₩ CANARM°-	210557	850	75	N	11050	19.8	10150	17.0	2.92	9250	14.6	0.70	
	.ge.	Canami	single			Salvanized	Galvanized	PLF30-MP	y CANARM	210558	650	75	Υ	11700	21.7	10850	19.0	2.77	9700	15.8	0.66	40.25" Sgr
	8	Canarm	sin	230	1.0	Galva	Galva	PLF36-H*	Certified by BESS	02198*	850	75	N	14320	14	13500	13.0	4.53	12500	11.9	0.79	40.20 Sqf
		Canam		8	1.0			PEP30-H	LAB University of Illinois	02199*	-650	10	Υ	15920	16.4	15170	15.3	4.36	14100	13.8	0.78	

Notes: AFR is the airflow ratio. Higher AFR indicates better performance under static pressure and against wind. It is calculated by dividing fan cfm at 0.20 static pressure by cfm at 0.05 sp.

Test results are complete with cone where indicated. All tests completed with shutters installed.

Amps indicated are actual at 230 volts. When determining amp load for variable speed, add 20% to listed numbers.

Amp loads for 115 volt supply will be approximately double.



Note: Wind has a significant effect on exhaust fans. A 10 mph wind creates a 0.05" pressure against the fan. A 20 mph wind creates 0.20" pressure and 30 mph a 0.45" pressure. These pressures are in addition to the static pressure in the building. Wind blocks or hoods should be included in all designs where fans will be subjected to winds above 10 mph.

GUARANTEED PERFORMANCE

Canarm guarantees the performance of our fans. All fans with test numbers will perform as indicated when properly maintained (reports are available upon request). Our fans are tested in our AMCA fig 15 test chamber. The test chamber was designed and built to exacting AMCA/ASHRE standards for Canarm. A regimented calibration and verification schedule is followed. Be assured, Canarm fans provide the performance you require and expect.

^{*} Certified performance by BESS Labs, University of Illinois



FIBERGLASS FANS

HIGH PERFORMANCE • LOW COST MAINTENANCE • LOW COST INSTALLATION

IDEALLY SUITED FOR POULTRY, SWINE, DAIRY AND GREENHOUSE APPLICATIONS

NOW

AVAILABLE WITH

for energy

savings

FEATURES

- The patented design provides excellent performance without a cone.
- All fans are supplied completely assembled and are tested before shipping.
- Chop & Spray design with smooth inside for improved cleaning.
- Self draining, sloped housing is quick and easy to clean reducing maintenance costs.
- T-Mount belt drive system provides quick, easy access to motor & blade.
- Belt drive units are supplied complete with belt tensioner and easily accessible, high quality rubber belt.
- All fans have smooth operating, easy to clean, tie-bar poly shutters with stainless steel frame.
- 36" and 50" belt drive fans.
- 18", 24" and 36" direct drive fans.
- Also available with EC motor.



OPTIONS

- Special order black housings available.
- 3 phase motor 208-230/460 volt option available on some units.

ACCESSORIES

- Performance enhancing cone on 24" and larger fans.
- FRP board winter inserts with unique double seal.
- 240V cord kit accessory available.

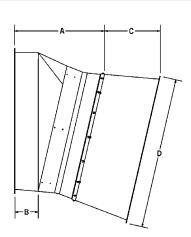


DIMENSIONS

					FRAN	ING DIMENSI	ONS
FAN SIZE	F/	AN	со	NE	WIDTH	HEIG	НТ
FAN SIZE	Α	В	С	D	All Walls	4" & 6" Wall	9" Wall
18"	28	9	-	-	24.75	24.75	25.25
24"	31	9	19	33	31	31	31.5
36"	34	9	21	47	43	43	43.5
50"	44	9	25	64	57	57	57.5



- 10 years on housings
- 1 year on balance of fan



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SPECIFICATIONS

				Spe	cificatio	ons			Model									Perfor	mance					
				mo	tor			blade	Number Specify	TESTED AT	Test Code			e.	0.00	" SP		0.05" SP		0.10	" SP	test code &	test	
		type	speed	hp	voltage	phs	hz	mat'l	* bulk pak or single			rpm	DbA	cone	cfm	cfm/w	cfm	cfm/w	amps	cfm	cfm/w	report	code	AFR
		high	single	1.0	230	1	60	galv.	FG50B	BESS LAB	00071	610	77	Y	28000	25.2	26500	22.1	5.50	24800	19.5	B00071	В	0.78
		eff.						_		University of Illinois	00072			N	25900	22.5	24400	20.0	5.70	22800	17.7	B00072	В	0.79
BELT DRIVE	20	high	single	1.0	230	1	60	galv.	FG50	Certified by BESS	00066	578	_	Υ	25900	27.1	24100	23.5	-	22400	20.5	00066		0.75
SELT	2	eff.	g					9=	1 000	LAB CONTROL OF BUILDING	00773			N	24500	24.5	22900	21.4	-	21100	18.9	00773		0.75
_		high	-:	1.5	115/230	1	60		FG50H	LAB Z	00061	630		Υ	28200	22.7	26700	20.3	-	25200	18.1	00061	В	0.81
		eff.	single	1.5	115/230	'	60		rusun	LAB Conversity of Billings	00056	630		N	26800	20.0	25300	18.1	-	24000	16.4	00056	В	0.82
		high	single	1.0	230	1	60	galv.	FG36H	Certified by BESS	02201	850	80	Υ	17010	18.5	16200	17.5	4.90	15340	15.6	02201		0.79
	36"	eff.	sirigie	1.0	250	·	00	gaiv.	1 03011	LAB Called Bulleting	02200	030	00	N	16000	16.6	15210	15.2	5.00	14400	14.0	02200		0.80
Ä		high	single	1/2	115/230	1	60	galv.	FG36	Eertified by BESS	00080	850	75	Υ	12300	26.1	11300	22.5	2.47	10500	19.5	B00080	В	0.71
DRIV		eff.	sirigie	1/2	113/230	'	60	gaiv.	F G 30	LAB C	00075	650	75	N	11400	22.5	10600	19.4	2.63	9800	17.2	B00075	В	0.71
DIRECT DRIVE	Ę,	high		1/3	115/230	1	50/60	6	FG24CV		210114V	1100	75	Υ	6350	15.3	6000	14.2	1.92	5750	13.3	C210114V	С	0.80
_	24"	eff.	vari	1/3	115/230	T	50/60	6-poly	FG246V		210107V	1100	75	N	5850	13.6	5600	13.0	1.93	5200	12.3	C210107V	С	0.70
	18"		vori	1/3	115/230	1	60	6 note	FG18CV		1075	65	Υ					cone is	not availa	ible				
	18		vari	1/3	115/230	,	60	6-poly	FGIOCV			10/5	05	N						TBA				

Model Codes: 3 = three phase, A=aluminum blade, B=Blue Ribbon, H=high output, BD=36"belt drive, BD4=3/4"hp 36" belt, V=variable speed, C=corrosion resistant Notes: AFR is the airflow ratio. Higher AFR indicates better performance under static pressure or against wind. It is calculated by dividing fan cfm at 0.20 static pressure by cfm at 0.05 sp.

Sound level measured 5 ft. in front of fan discharge. Amps measured at highest voltage. Amps at lower voltage approximately doubled

* Request 200 volt motor for 208 volt 3 phase applications.

** Fan was tested at 230 volts with 4.20 amps, at 460 volts it will be 2.10 amps



Where Indicated

Note: Wind has a significant effect on exhaust fans. A 10 mph wind creates a 0.05" pressure against the fan. A 20 mph wind creates 0.20" pressure and 30 mph a 0.45" pressure. These pressures are in addition to the static pressure in the building. Wind blocks or hoods should be included in all designs where fans will be subjected to winds above 10 mph.

GUARANTEED PERFORMANCE

Canarm guarantees the performance of our fans. All fans with test numbers will perform as indicated when properly maintained (reports are available upon request). Our fans are tested in our AMCA fig 15 test chamber. The test chamber was designed and built to exacting AMCA/ASHRE standards for Canarm. A regimented calibration and verification schedule is followed. Be assured, Canarm fans provide the performance you require and expect.





THE FIRST AND ONLY MOTOR OF ITS KIND IN THE AGRICULTURAL INDUSTRY

Our ECsmart Motor is an Electronically Commutated Motor. EC motors are electric motors that have permanent magnets on the rotor and use electronics to control the voltage and current applied to the motor.

Canarm brings you our latest innovation - the ECsmart motor featuring patent pending electronics. The result is an ENERGY EFFICIENT motor that runs COOLER than any other in the industry.

FEATURES

- The First EC motor that can be varied with existing 0-10v signal.
- · Provides feedback for ventilation management.
- Can be retrofitted in any existing fan.
- · Can be controlled by existing controls.
- Testing has confirmed power savings of 25-75%.
- ECsmart motors run cooler, virtually eliminating winding failures and increasing lifespan on the motor.
- · Tested at BESS labs in our PLF and FG series fans.



PLF & FG models now available with EC motors.

See back page for details.

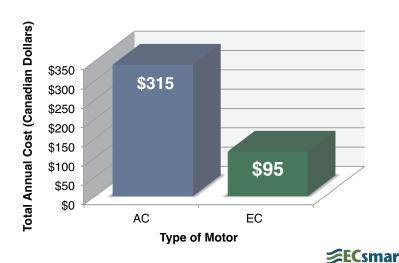
WARRANTY

Comes with a 1 year warranty.

EC VS. REGULAR MOTOR

Cost Savings (running at 60% speed)

Results show cost savings of a typical 24" fan using a regular motor vs a 24" fan using the ECsmart motor over a period of 365 days.





	FULL SPEED	60% SPEED
Typical AC Motor	536 W	324 W
ECsmart Motor	462 W	98 W
Input Cost of kWh	\$0.19	\$0.19
Input # hours per day	14 hrs/day	14 hrs/day
Total Annual Cost AC Motor	\$520.40	\$314.57
Total Annual Cost ECsmart Motor	\$448.56	\$95.15
Annual Savings by switching to ECsmart	\$71.84	\$219.42

Costs shown in Canadian dollars

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PLF-EC SERIES

- Roto-molded impact resistant black polyethylene housings with UV prohibitors.
- Platform mount
- Easy to remove shutter assembly, complete with aerodynamic tie-bar poly louvers with stainless steel shutter frame and louver pin.
- Corrosion proof airfoil polypropylene blades on 12" to 24" sizes.
- · Warranty: 5 years on plastic housing.
- · Also available with our standard motor.

For complete product information, please see PLF Fans in Exhaust Fan section.





				Snor	ificati	ono												Pe	erform	ance								
				Spec	illicati	UIIS		Model	TESTED	Test					0	.05"SF	,						(0.1"SP	,			Rough Opening
		ı	Moto	r		Shutter	Blade	Model	AT	Code	cone	R	unning	@ 100	%	R	unnin	g @ 60º	%	R	unning	@ 1009	%	R	unning	g @ 609	%	Required
	type	9 8	spd	volt	hp	Frame	mat'l				8	rpm	cfm	cfm/w	amps	rpm	cfm	cfm/w	amps	rpm	cfm	cfm/w	amps	rpm	cfm	cfm/w	amps	
18"	Leeso	on		230	1/3	ss Steel	Plastic	PLF18-EC	Certified by BESS LAB Columnity of Bilings	16722	N	1850	3270	9.6	2.8	1004	730	11.5	0.60	1850	3000	9.2	2.7	1004	410	6.1	0.65	21.25" Sqr
Direct	Leeso		Variable	2	1/2	Stainle	Pa	PLF24-EC	Cortified by BESS LAB	16725	N	1846	6390	9.6	5.06	983	2080	21.2	0.93	1846	6090	9.2	5.04	983	1230	12.5	0.92	27.25" Sqr
Dii 36"	Canari	ı	Var	230	3/4	ess Steel	Galvanized	PLF36-EC	Certified by BESS LAB University of Illinois	16731	N	900	12850	14.3	6.56	564	6400	22.0	2.44	900	11530	13	6.46	564	4640	14.2	2.68	40.25" Sqr
က				64		Stainle	Galva		Certified by BESS LAB University of Illinois	16732	Υ	900	14700	16.2	6.66	564	6680	25.2	2.25	900	13430	14.7	6.68	557	5070	16.2	2.59	04

FG-EC SERIES

- The patented design provides excellent performance without a cone.
- Chop & Spray design with smooth inside for improved cleaning and air flow.
- Self draining, sloped housing is quick and easy to clean reducing maintenance costs.
- All fans have smooth operating, easy to clean, tie-bar poly shutters with stainless steel frame.
- Platform mount.
- Corrosion proof airfoil polypropylene blades on 12" to 24" sizes.
- · Warranty: 10 years on housings
- Also available with our standard motor.

For complete product information, please see FG Fans in Exhaust Fan section.





				Spor	eificati	one											_	Pe	erform	ance	_							
				Spec	illeau	Ulio			TESTED	Test					0	.05"SF	•						().1"SP				Rough
			Mot	or		Shutter	Blade	Model	AT	Code	Ф	R	unning	@ 1009	%	R	unnin	g @ 609	%	R	unning	@ 1009	%	R	unning	g @ 609	%	Opening Required
		type	spd	volt	hp	Frame	mat'l				cone	rpm	cfm	cfm/w	amps	rpm	cfm	cfm/w	amps	rpm	cfm	cfm/w	amps	rpm	cfm	cfm/w	amps	nequirea
Ş		Leeson		230	1/3	ss Steel	Plastic	FG18-EC	BESS LAB	16729	N	1400	3330	10.8	2.5	820.0	780	12.6	0.59	1400	3110	10.4	2.5	820.0	560	8.8	0.61	24.75" Sqr
ect		Leeson	Variable	CV	1/2	Stainle	ğ	FG24-EC	BESS LAB	16727	N	1250	5660	8.9	4.77	652	1870	22.5	0.82	1250	5360	8.7	4.61	652	1090	13.0	0.83	31" Sqr
Dire		0		230	3/4	is Steel	nized	5000 50	BESS LAB	16730	N	900	14940	16.5	6.56	564	7920	31.1	2.17	900	14060	15.2	6.69	564	6040	21.1	2.38	4011.0
_ 3	36	Canarm		23	3/4	Stainles	Galvanize	FG36-EC	Certified by BESS LAB Cohersity of Blinois	16733	Υ	900	15860	18.1	6.44	564	8200	33.3	2.10	900	15010	16.5	6.56	564	6190	23.1	2.29	43" Sqr

CANARM LTD. - Corporate OfficePO Box 367 2157 Parkedale Ave.,
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Arthur Manufacturing Facility #7686 Concession 16, RR 4 Arthur, ON Canada N0G 1A0 Tel: (519) 848-3910 Fax: (519) 848-3948 Montréal Warehouse 2555 Rue Bernard Lefebvre Laval, PC Canada H7C 0A5 Tel: (450) 655-2535 Fax: (450) 665-0910 CANARM LTD. - USA Warehouse

808 Commerce Park Drive Ogdensburg, New York, USA 13669 Tel: 1-800-267-4427 Fax: 1-800-263-4598





Canarm/LFI's standard fans follow a tradition of quality in design, materials and construction. All our standard fans are developed to be efficient and economically priced. Fans are now available with EC motors allowing you to save up to 70% on energy costs.

To determine the proper Canarm/LFI fan for your applications, use the following formula.

Number of cubic feet in room / Number of minutes per air change = Required C.F.M. Capacity

EXAMPLE: A general office, (see chart) which requires an air change every ten minutes, would require the following fan capacity.

If office is 100' x 40' x 10' = 40,000 cubic ft

40,000 cubic ft / 10 minutes per air change = 4000 Required C.F.M.

From the chart, you would select a fan that is rated at 4000 C.F.M. at 1/8" S.P. (Static Pressure)

FEATURES

- · Available in 8" to 36" sizes
- · High efficiency totally enclosed EC motor
- Rugged steel welded box housing with durable powder coat finish
- · Osha guard on intake side of fan
- · Shipped completely assembled.

Application	Minutes per Air Change	Application	Minutes per Air Change	Application	Minutes per Air Change	Application	Minutes per Air Change
Assembly Hall	7	Church	15	Foundry	4	Pressing Room	1
Attic	2	Classroom	6	Garage	5	Projection Booth	2
Auditorium	10	Dance Hall	5	General Office	10	Summer Cooling	1
Barber Shop	6	Department Store	6	Gymnasium	8	Toilet	3
Basement	8	Dry Cleaning	5	Laundry	2	Transformer Room	1
Battery Room	4	Engine Room	6	Locker Room	3	Warehouse	12
Boiler Room	1	Factory	6	Machine Shop	8	Welding Shop	2
Bowling Alley	5	Forge Room	3	Plating Room	3		

8" - 24" sizes: Now upgrade with tiebar shutters and magnets for quieter operation and superior seal

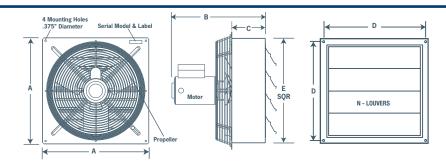
PERFORMANCE SPECIFICATIONS

MODEL	SPEED	BLADE	RPM	НР	VOLTAGE	AMPS	WEIGHT	dB(A)	CF	M @ STATI	C PRESSUI	RE	FRAMING
MODEL	SPEED	DIAMETER	RPM	HP	VOLTAGE	(FLA)	(LBS)	@5 ft	0.00"	0.10"	0.125"	0.25"	DIMENSIONS
SD8-ECV	Variable	8"	1800	1/4	115/208-280	2.8/1.7-1.3	12	48	360	270	230	0	11" X 11"
SD10-ECV	Variable	10"	1800	1/4	115/208-280	2.8/1.7-1.3	13	56	690	590	570	0	13" X 13"
SD12-EC	Variable	12"	1800	1/4	115/208-280	2.8/1.7-1.3	32	60	1650	1540	1510	1390	15" X 15"
SD14-EC	Variable	14"	1800	1/4	115/208-280	2.8/1.7-1.3	34	65	2180	2080	2060	1890	17" X 17"
SD16-EC	Variable	16"	1800	1/4	115/208-280	2.8/1.7-1.3	36	63	2370	2270	2210	2063	19" X 19"
SD18-EC	Variable	18"	1800	1/2	115/208-280	3.5/2.2-1.7	37	73	3200	3090	3040	2920	21" X 21"
SD20-EC	Variable	20"	1800	1/2	115/208-280	5.3/3.3-2.6	45	77	3440	3240	3180	2930	23" X 23"
SD24-EC	Variable	24"	1200	1/2	115/208-280	5.7/3.5-2.8	56	70	5050	4910	4810	4400	27" X 27"
SD30-EC	Variable	30"	1000	3/4	115/208-280	9.5/5.2-4.2	72	82	8000	7000	6000	5000	33" X 33"
SD36-EC	Variable	36"	1000	3/4	115/208-280	9.5/5.2-4.2	88	84	10000	8500	8000	6200	39" X 39"

DIMENSIONS

PLEASE NOTE: The above is subject to change without notice as these are still in development.

FAN SIZE	A X A SQUARE	В	С	D (c/c)	Е	N
8"	13 1/4"	13 1/2"	4"	12"	10 3/4"	2
10"	15 1/4"	13 1/2"	4"	14"	12 3/4"	2
12"	17 1/4"	16 1/2"	6"	16"	14 3/4"	3
14"	19 1/4"	16 1/2"	6"	18"	16 3/4"	3
16"	21 1/4"	16 1/2"	6"	20"	18 3/4"	4
18"	23 1/4"	16 1/2"	6"	22"	20 3/4"	4
20"	25 1/4"	17	6 3/4"	24"	22 3/4"	5
24"	29 1/4"	18"	6 3/4"	28"	26 3/4"	5
30"	35 1/4"	19"	6"	34"	32 3/4"	16
36"	41 1/4"	19"	6"	40"	38 3/4"	20



ACCESSORIES

- · Grey plastic weather hood
- Galvanized metal hood
- · 0V to 10V Control

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STANDARD FANS

EFFICIENT • LOW MAINTENANCE • EASY INSTALLATION







8" & 10" MODELS **BACK VIEW**



12" to 24" MODELS **FRONT VIEW**



30", 36", 42" & 48" **MODELS WITH ALUMINUM LOUVERS**



12" to 48" MODELS **BACK VIEW**

Canarm's standard fans follow a tradition of quality in design, materials and construction. All our standard fans are developed to be efficient and economically priced. Fans are available in single, two and variable speed models. All variable speed standard fans use an energy efficient variable speed, dual voltage motor and blade combination. To determine the proper Canarm fan for your applications, use the formula and table shown on back of page.

FEATURES

8" & 10" Models

- Smooth, quiet, reliable, maintenance-free operation.
- Durable steel construction with grey powder coat finish.
- 2 speed fan with high efficiency Euro design external rotor motor.
 - Totally enclosed with sealed ball bearings.

 - Pull chain speed control.
 - 9 foot cord with 115 volt, 3-prong plug.
- Swept back, high efficiency, low noise blade design.
- Quiet, aluminum shutters with tie bar to maximize airflow and a magnet to prevent flapping and provide a superior seal.
- · Zinc plated OSHA guard.
- Fans shipped completely assembled.
- Easy to install! Mount fan using four screws, plug it in and turn it on.

12" to 48" Models



- Single, two and variable speed models are available.
- All fans use a totally enclosed, thermally protected motor.
- Rugged steel welded box housing has a durable powder coated finish.
- Aluminum louver shutters are supported by long life nylon bushings (30", 36", 42" & 48" have aluminum louvers).
- 12" 24" models have heavy wire chrome plated OSHA guards on intake side of fan. 30", 36", 42" & 48" models have grey powder coated guards.
- · All fans are shipped completely assembled.

8" - 24" sizes; Now upgraded with tiebar shutters and magnets for quieter operation and superior seal

SPECIFICATIONS

MODEL	SPEED	BLADE	RPM	НР	VOLTAGE	AMPS	WEIGHT	dB(A)	C	CFM @ STATI	C PRESSUR	E	FRAMING
MODEL	SPEED	DIAMETER	Krivi	nr	VOLIAGE	(FLA)	(LBS)	@5 ft	0.00"	0.10"	0.125"	0.25"	DIMENSIONS
SD08	Two	8"	1600/1300	25W	115	0.2	13	48	360/292	270/150	230/110		11" X 11"
SD10	Two	10"	1480/1150	60W	115	0.5	15	55	500/388	420/300	400/250		13" X 13"
S12-E1	Single	12"	1625	1/4	115	2.7	28	63	1640	1540	1510	1390	15" X 15"
S12-E2	Two	12"	1725/1140	1/4	115	3.4	32	64	1650/1090	1550/950	1520/930	1390/0	15" X 15"
S12-EVD	Variable	12"	1625	1/3	115/230	5.0/2.5	32	60	1650	1540	1510	1390	15" X 15"
S14-E1	Single	14"	1625	1/4	115	2.7	30	67	2170	2070	2030	1860	17" X 17"
S14-E2	Two	14"	1725/1140	1/4	115	3.4	34	65	2180/1350	2080/1190	2060/1160	1890/0	17" X 17"
S16-E1	Single	16"	1625	1/4	115	2.7	33	68	2370	2270	2210	2060	19" X 19"
S16-E2	Two	16"	1725/1140	1/4	115	3.4	36	69	2380/1640	2280/1490	2230/1430	2070/0	19" X 19"
S16-EVD	Variable	16"	1625	1/3	115/230	5.0/2.5	36	63	2370	2270	2210	2063	19" X 19"
S18-F1	Single	18"	1625	1/3	115	4.1	37	73	3200	3090	3040	2920	21" X 21"
S18-F2	Two	18"	1725/1140	1/3	115	5.5/2.9	43	74	3200/2100	3090/1890	3040/1820	2920/0	21" X 21"
S18-FVD	Variable	18"	1625	1/3	115/230	3.8/1.9	45	74	3150	3050	2980	2860	21" X 21"
S20-F1	Single	20"	1625	1/3	115	4.1	41	77	3420	3220	3170	2920	23" X 23"
S20-F2	Two	20"	1725/1140	1/3	115	5.5/2.9	45	77	3440/2300	3240/2000	3180/1950	2930/0	23" X 23"
SD24-F1	Single	24"	1100	1/3	115	3.6	46	70	5000	4500	4300	3600	27" X 27"
SD24-GVD	Variable	24"	1075	1/3	115/230	4.4/2.2	56	72	5050	4910	4810	4400	27" X 27"
SD30-G1D	Single	30"	1075	1/3	115/230	4.4/2.2	72	82	8000	7000	6000	5000	33" X 33"
SD36-G1D	Single	36"	850	1/2	115/230	6.6/3.3	88	72	10000	8500	8000	6200	39" X 39"
									BHP FEI	BHP FEI	BHP FEI	BHP FEI	
SD42-H1D	Single	42"	850	1	230	5	122	83	0.85 1.35 12860	0.87 1.45 11580	0.87 1.45 11090	0.92 1.41 9029	45" X 45"
									BHP FEI	BHP FEI	BHP FEI	BHP FEI	
SD48-H1D	Single	48"	850	1	230	5	140	84	0.82 1.56 14470	0.84 1.67 12610	0.84 1.69 12200	0.83 1.48 8400	51" X 51"

AVAILABLE WITH **EC MOTORS** for energy savings

Some models are available with explosion proof motors. Please see Explosion Proof Standard Fans.

Subject to Change without notice.



STANDARD FANS

AIR CHANGES PER MINUTE

To determine the proper Canarm/LFI fan for your applications, use the following formula.

Number of cubic feet in room / Number of minutes per air change = Required C.F.M. Capacity

EXAMPLE: A general office, (see chart) which requires an air change every ten minutes, would require the following fan capacity. If office is 100' x 40' x 10' = 40,000 cubic ft; 40,000 cubic ft / 10 minutes per air change = 4000 Required C.F.M.

From the chart, you would select a fan that is rated at 4000 C.F.M. at 1/8" S.P. (Static Pressure)

Application	Minutes per Air Change
Assembly Hall	7
Attic	2
Auditorium	10
Barber Shop	6
Basement	8
Battery Room	4
Boiler Room	1
Bowling Alley	5

Application	Minutes per Air Change			
Church	15			
Classroom	6			
Dance Hall	5			
Department Store	6			
Dry Cleaning	5			
Engine Room	6			
Factory	6			
Forge Room	3			

Application	Minutes per Air Change
Foundry	4
Garage	5
General Office	10
Gymnasium	8
Laundry	2
Locker Room	3
Machine Shop	8
Plating Room	3

Application	Minutes per Air Change
Pressing Room	1
Projection Booth	2
Summer Cooling	1
Toilet	3
Transformer Room	1
Warehouse	12
Welding Shop	2

DIMENSIONS

8" & 10" Models

FAN SIZE	A	В	С	D (c/c)	E	N
8"	13 1/4"	7 9/16"	4"	12"	10 3/4"	2
10"	15 1/4"	7 7/8"	4"	14"	12 3/4"	3

E SQR D N - LOUVRES

12" to 48" Models

	FAN SIZE	A	В	С	D (c/c)	E	N
	12"	17 1/4"	17"	6"	16"	14 3/4"	3
	14"	19 1/4"	17"	6"	18"	16 3/4"	3
	16"	21 1/4"	17"	6"	20"	18 3/4"	4
	18"	23 1/4"	18"	6"	22"	20 3/4"	4
	20"	25 1/4"	18"	6 3/4"	24"	22 3/4"	5
	24"	29 1/4"	18"	6 3/4"	28"	26 3/4"	5
	30"	35 1/4"	18"	6"	34"	32 3/4"	16
	36"	41 1/4"	18"	6"	40"	38 3/4"	20
NEW	42"	47 1/4"	18"	6 3/4"	46"	44 3/4"	24
NEW	48"	53 1/4"	19"	6 3/4"	52"	50 5/8"	26

4 Mounting Holes
375" Diameter
Serial Model & Label

Motor

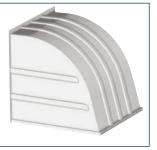
Propeller

Propeller

N - LOUVERS

ACCESSORIES



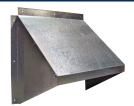








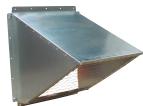
GH GALVANIZED HOODS



Economical shipping.

- Easy to assemble, galvanized hood.
- No screens.

GH KNOCK DOWN HOODS



- Easy to assemble, galvanized hood.
- Includes bird screen.

WHA HOODS



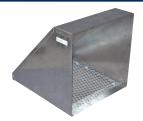
- For AX fans.
- Shipped fully assembled.
- 18 gauge galvanized weather hoods complete with bird screen.

WHP HOODS



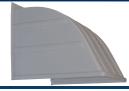
- Optional insect screen available.
 Consult factory.
- · For Panel fans.

INTAKE & EXHAUST HOODS



- · Shipped fully assembled.
- 18 gauge galvanized weather hoods complete with bird screen.

PLASTIC HOODS



- Rugged, grey plastic hood.
- No screens.

HOOD	DIMEN	ISIONS	APPROX. WEIGHT	FANS THAT WILL FIT	
MODEL	INSIDE DIMENSIONS	OUTSIDE DIMENSIONS	(LBS)	FANS THAT WILL FIT	
GH GALVANIZI	ED HOODS				
GH-XF12-M	14.75"W X 14.0"H	18"W X 15.75"H	4	XF12 / XB12 / SD8 / SD10 / AX8 / AX10 / AX12	
GH-XF16-M	18.75"W 17.75"H	22"W X 19.75"H	7	XF16 / XB12 / HV12 / HVA12 / ADD12 / DDP12 / DDS12 / SD12-14 / AX14-16	
GH-XF20-M	22.75"W X 22"H	26"W X 23.75"H	9	XF20 / XB14 / XB16 / HV14-16 / HVA14-16 / ADD14-16 / DDP14-16 / DDS14-16 / SD16-18 / AX18-20	
GH-XF24-M	26.75"W 26"H	29"W X 27.25"H	12	XFS24	

HOOD	HOOD DIMENSIONS MODEL INSIDE DIMENSIONS OUTSIDE DIMENSIONS						APPROX. WEIGHT	FANS THAT WILL FIT
MODEL			(LBS)	FANS THAT WILL FIT				
GH KNOCKE	OWN HOODS							
GH-KD24	31.65"W X 31.85"H	34.65"W X 34.83"H	31	XB24 / HV24 / HVA24 / ADD24 / DDP24/ DDS24 / SD24 / AX24				
GH-KD36	43.62"W X 43.93"H	46.62"W X 46.82"H	75	XB30-36 / HV30-36 / HVA30-36 / ADD30-36 / DDS30-36 / SD30-36 / AX30-36 / AX42				
GH-KD48	55.62"W X 55.25"H	58.62"W X 58.82"H	TBA	XB42-48 / HV42-48 / HVA42-48 / ADD42-48 / DDS42-48 / SD42 / AX42				
GH-KD60	69.76"W X 69.92"H	72.76"W X 72.95"H	TBA	XB54-60 / HV54-60 / HVA54-60 / ADD54-60				

HOOD	DIMENSIONS	APPROX.	FANS THAT WILL FIT	
MODEL	INSIDE DIMENSIONS	WEIGHT (LBS)		
WHA HOODS				
WHA8-10	12.11"W X 12.11"H	13	AX08-10, SD8	
WHA12	14.05"W X 14.05"H	16	AX12, SD10	
WHA14	16.11"W X 16.11"H	22	AX14, SD12	
WHA16	18.11"W X 18.11"H	26	AX16, SD14	
WHA18	20.11"W X 20.11"H	29	AX18, SD16	
WHA20	22.05"W X 22.05"H	31	AX20, SD18	
WHA24	26.05"W X 26.05"H	47	AX24	
WHA30	33.05"W X 33.05"H	59	AX30	
WHA36	39.11"W X 39.11"H	76	AX36	

HOOD MODEL	DIMENSIONS	APPROX. WEIGHT	FANS THAT WILL FIT
HOOD MODEL	INSIDE DIMENSIONS	(LBS)	FANS THAT WILL FIT
WHP HOODS			
WH8-10P	14.45"W x 14.45"H	20	P08 / P10
WH12P	17.40"W X 17.40"H	16	P12
WH14P	19.20"W X 19.20"H	24	P14
WH16P	21.20"W X 21.20"H	26	P16
WH18P	23.20"W X 23.20"H	29	P18
WH20P	25.20"W X 25.20"H	44	P20
WH24P	29.15"W X 29.15"H	44	P24
WH30P	35.65"W X 35.65"H	60	P30
WH36P	41.65"W X 41.65"H	77	P36

	DIMENSIONS	APPROX.			
HOOD MODEL	INSIDE DIMENSIONS	WEIGHT (LBS)	FANS THAT WILL FIT		
EXHAUST / INT	AKE / WEATHER HOODS				
EH12	16.55"W X 16.55"H	9	XF12 / SD8-12 / AX8-14 / XB12 / HV12 / HVA12 / ADD12 / DDP12 / DDS12		
EH14	18.60"W X 18.60"H	15	XB14 / HV14 / HVA14 / ADD14 / DDP14 / DDS14 / SD14 / XF16 / AX16		
EH16	20.60"W X 20.60"H	20	AX18 / SD16 / XB16 / HV16 / HVA16 / ADD16 / DDP16 / DDS16		
EH18	22.55"W X 22.55"H	31	SD18 / XB18 / HV18 / HVA18 / ADD18 / DDP18 / DDS18 / XF20 / AX20		
EH20	24.55"W X 24.55"H	44	SD20 / XB20 / XF24 / HV20 / HVA20 / ADD20 / DDP20 / DDS20		
EH24	30.05"W X 30.05"H	60	SD24 / AX24 / XB24 / ADD24 / HV24 / HVA24 / DDP24 / DDS24		
EH30	36.35"W X 36.35"H	72	SD30 / AX30 / XB30 / HV30 / HVA30 / ADD30 / DDS30 / JFHVA24		
EH36	42.30"W X 42.30"H	104	SD36 / AX36 / XB36 / HV36 / HVA36 / ADD36 / DDS36 / JFHVA30		
EH42	48.63"W X 48.63"H	163	XB42 / HV42 / HVA42 / ADD42 / DDS42 / JFHVA36 / SD42 / AX42		
EH48	54.64"W X 54.64"H	TBA	XB48 / HV48 / HVA48 / ADD48 / DDS48 / JFHVA42		
EH54	61.20"W X 61.20"H	TBA	XB54 / HV54 / HVA54 / ADD54 / JFHVA48		
EH60	69.39"W X 69.39"H	TBA	XB60 / HV60 / HVA60 / ADD60		
HOOD	DIMENSIONS	APPROX.	FANS THAT WILL FIT		
MODEL	INSIDE DIMENSIONS	WEIGHT (LBS)	FANS THAT WILL FIT		
PLASTIC HOO	DS				
HFP-18G	21.50"W X 21.75"H	9	\$8/\$10/\$12/\$14/\$16/\$18V/AX08/AX10/AX12/AX14/AX16/AX18		
HFP-24G	27.50"W X 27.75"H	13	S20 / S24 AX20 / AX24		

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FRONT VIEW

EFFICIENT • LOW COST MAINTENANCE • EASY INSTALLATION

Canarm LFI's explosion proof fans follow a tradition of quality in design, materials and construction. Using our quality "Standard Fan" housing and motor mount as the basis for design, we have developed an efficient, economically priced Explosion Proof Fan. All Explosion Proof Fans have a single speed, dual voltage explosion proof motor that meets and conforms to all the standards that are listed below.

CLASS I, GROUP C Atmospheres containing ethyl ether, ethylene, gases or vapors of equivalent hazard.

CLASS I, GROUP D Atmospheres such as acetone, ammonia, benzene, butane,

cyclopropane, ethanol, gasoline, hexane, methane, natural

gas, naphtha, propane, or gasses or vapors of equivalent

hazard.

CLASS II GROUP F Atmospheres containing carbonaceous dust, including carbon black, charcoal, coal,

or coke dusts that have more than 8% total entrapped volatiles, or dusts that have

been sensitized by other materials so that they present an explosion hazard. Atmospheres containing combustible dusts not included in group E or F, including flour, grain,

wood, plastic and chemicals.



FEATURES

CLASS II GROUP G

- Totally enclosed, ball bearing motor with thermal overload protection.
- The fan blades are well-balanced, heavy gauge aluminum.
- The rugged steel welded box housing has a durable powder coated finish.
- Aluminum louver shutters are supported by long life nylon bushings.
- Heavy wire chrome plated OSHA guards on intake side of fan.
- All fans are shipped completely assembled.

PERFORMANCE DATA & SPECIFICATIONS

	MODEL	FAN	НР	VOLTS	AMPS	SPEED RPM AIRFLO		AIRFLOW CAPACITY - CFM			FRAMING	WEIGHT	
	ODLL	SIZE		102.0	A.V.I. 0			0" SP	.05" SP	.10" SP	.25" SP	DIMENSIONS	(LBS)
S	D08-XPF	8"	1/3	115/230	6.6/3.3	Single	1625	320	280	240	-	11" X 11"	38
S	D10-XPF	10"	1/3	115/230	6.6/3.3	Single	1625	620	575	530	-	13" X 13"	39
s	D12-XPF	12"	1/3	115/230	6.6/3.3	Single	1625	1,640	1,600	1,540	1,390	15" x 15"	42
S	D18-XPF	18"	1/3	115/230	6.6/3.3	Single	1625	3,200	3,150	3,090	2,920	21" x 21"	60
S	D24-XPF	24"	1/3	115/230	6.6/3.3	Single	1625	5,500	5,400	5,310	5,100	27" x 27"	72

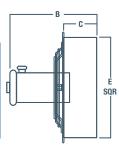


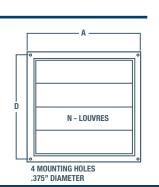
BACK VIEW

NOTE: RPM Min (Minimum) is determined when louvres are opened one inch. Note: Wind has a significant effect on exhaust fans. A 10 mph wind creates a 0.05" pressure against the fan. A 20 mph wind creates 0.20" pressure and 30 mph a 0.45" pressure. These pressures are in addition to the static pressure in the building. Wind blocks or hoods should be included in all designs where fans will be subjected to winds above 10 mph.

DIMENSIONS

FAN SIZE	A X A SQUARE	В	С	D c/c	E	N
8"	13 1/4"	17 1/2"	4"	12"	10 3/4"	2
10"	15 1/4"	17 1/2"	4"	14"	12 3/4"	2
12"	17 1/4"	20 1/2"	6"	16"	14 3/4"	3
18"	23 1/4"	20 1/2"	6"	22"	20 3/4"	4
24"	29 1/4"	20 1/2"	6"	28"	26 3/4"	5





ACCESSORIES

· Hoods.

WARRANTY

• 1 year on all components.

FOR USE IN GARAGES, SHEDS, WORKSHOPS AND MORE!

Canarm's XFS series wall exhaust fans are ideal for commercial applications.

They feature smooth, quiet, reliable, maintenance free operation.

Available in 12" to 36" sizes - fans are single, 2 or 3 speeds with OFF and come complete with a 9' cord and grounded plug.

The fans have a durable steel construction with powder coat black finish and quiet, aluminum shutters with tie bar to maximize airflow.

Installation is easy - simply mount the fan with 4 screws, plug it in and turn it on!

FEATURES

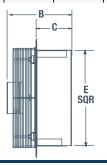
- Smooth, quiet, reliable, maintenance free operation.
- Available in 12" to 36" sizes.
- 12" and 16" models are 3 speed
- 20" to 30" models are 2 speed.
- 36" model is single speed.
- Durable steel construction with powder coat black finish.
- Swept back, high efficiency, low noise blade design.
- Shutters have a small magnet to prevent flapping and provide a superior seal.
- Quiet, aluminum shutters with tie bar to maximize airflow.
- Strong powder coated OSHA guarding inside.
- ETL certified
- Euro design outside rotor motor for higher efficiency.
 - Totally enclosed with sealed ball bearings
 - Pull chain speed control
 - 9 foot cord with 115 volt, 3-prong plug
- Fans shipped totally assembled.

PERFORMANCE DATA & SPECIFICATIONS

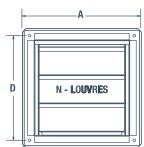
MODEL	FAN SIZE	MOTOR HP	SPEED	VOLTS	NET WEIGHT	FAN RPM	CFM at 1/8" SP	HIGH SPEED SOUND LEVEL dB(A)	MAX AMPS	MAX AMBIENT TEMP
XFS12	12"	1/12	3	115	19 lbs	1600/1420/1150	1100/900/800	58	0.8 / 0.8 / 0.7	90°C/194°F
XFS16	16"	1/8	3	115	27 lbs	1630/1450/1330	2300/2000/1800	58	2.0 / 1.8 / 1.6	74°C/158°F
XFS20	20"	1/4	2	115	40 lbs	1140/1050	3300/2900	68	2.3 / 2.0	70°C/158°F
XFS24	24"	1/2	2	115	56 lbs	1140/1070	4700/3800	72	5.0 / 4.3	70°C/158°F
XFS30	30"	1/2	2	115	72 lbs	1080/980	6400/5000	71/68	4.9/4.3	70°C/158°F
XFS36	36"	1	1	115	88 lbs	943	6339 FEI: 1.1	76	7.2	70°C/158°F

DIMENSIONS

MODEL	AXA	В	С	D (a/a)	E SQR	N (# OF	FRAMING	CART	ON DIMEN	SIONS
WIODEL	SQUARE	Ь	L L	D (c/c)	E SQR	LOUVRES)		Length	Height	Width
XFS12	16 7/8"	8 3/8"	5"	14 7/8"	13 1/2"	3	14" x 14"	20"	20"	12"
XFS16	20 7/8"	9 1/2"	5"	18 7/8"	17 1/2"	4	18" x 18"	25"	25"	13"
XFS20	24 7/8"	9 1/2"	5"	22 7/8"	21 1/2"	5	22" x 22"	28"	28"	13"
XFS24	28 7/8"	11 1/8"	5"	26 7/8"	25 1/2"	6	26" x 26"	32"	32"	15"
XFS30	34 7/8"	12 1/2"	5"	32 7/8"	31 1/2"	7	34" x 34"	38"	38"	15.75"
XFS36	40 7/8"	14 1/2"	5"	38 7/8"	37 1/2"	8	40" x 40"	44"	44"	17"



Fax: 1-800-263-4598









2555 Rue Bernard Lefebvre Laval PC Canada H7C 0A5 Tel: (450) 655-2535 Fax: (450) 665-0910



Tie bar aluminum shutters



ACCESSORIES

Optional galvanized weather hood.

OPTIONAL WEATHER HOOD					
FAN SIZES	HOOD#				
12"	GH-XF12				
16"	GH-XF16				
20"	GH-XF20				
24"	GH-XF24				

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Tel: (613) 342-5424

To determine the proper XFS Fan for your applications, use the following formula. Number of cubic feet in room / Number of minutes per air change = Required CFM Capacity

EXAMPLE: A general office, (see chart) which requires an air change every ten minutes, would require the following fan capacity.

If office is 100' x 40' x 10' = 40,000 cubic ft; 40,000 cubic ft / 10 minutes per air change = 4000 Required CFM

From the chart, you would select a fan that is rated at 4000 CFM at 1/8" S.P. (Static Pressure)

Application	Minutes per Air Change
Assembly Hall	7
Attic	2
Auditorium	10
Barber Shop	6
Basement	8
Battery Room	4
Boiler Room	1
Bowling Alley	5

Application	Minutes per Air Change
Church	15
Classroom	6
Dance Hall	5
Department Store	6
Dry Cleaning	5
Engine Room	6
Factory	6
Forge Room	3

Application	Minutes per Air Change
Foundry	4
Garage	5
General Office	10
Gymnasium	8
Laundry	2
Locker Room	3
Machine Shop	8
Plating Room	3

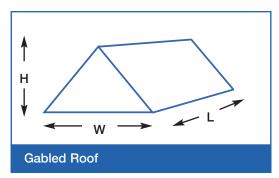
Application	Minutes per Air Change
Pressing Room	1
Projection Booth	2
Summer Cooling	1
Toilet	3
Transformer Room	1
Warehouse	12
Welding Shop	2



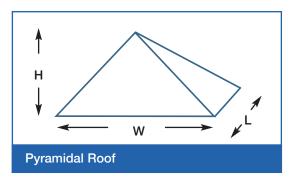
ATTIC VENTILATION

CAUTION!

Attic temperatures can get very high and exceed the high temperature protection device, shutting down the fan if there is not enough air change to keep the attic at a temperature below 120 °F.



Volume = $L \times W \times 1/2 H$



Volume = $L \times W \times 1/3 H$

Recommended air changes in an attic are about 2-3 minutes per air charge (MIN/AC) to keep the temperatures down. (2 minutes in southern climates and 3 minutes in northern climates.)

Using 2 minutes, required exhaust CFM = Total Volume 2 MIN/AC

This provides your required CFM of the exhaust fan, BUT there must be enough venting to supply fresh air to the attic space. A good rule of thumb is 1.5 ft² for every 1000 CFM of airflow.

EXAMPLE:

Southern Climate
$$\frac{6000 \text{ ft}^3}{2} = 3000 \text{ CFM}$$
Use XFS20

Northern Climate
$$\frac{6000 \text{ ft}^3}{3} = 2000 \text{ CFM}$$
Use XFS16

Southern climate = 3000 x
$$\frac{1.5}{1000}$$
 = 4.5 ft²

Northern climate =
$$2000 \text{ x}$$
 $\frac{1.5}{1000}$ = 3 ft^2

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VENTILATION RATES

RECOMMENDED VENTILATION RATES FOR VARIOUS TYPES OF LIVESTOCK

Ventilation Rates

		VENTILATION RATE CFM/ANIMAL			
	TYPE OF ANIMAL	COLD WEATHER	WARM WEATHER		
	Beef Calves <3 months	10 ^a	120		
BEEF	Veal Calves	12 ^a	175		
DEEF	Beef Feeder	15	300		
	Beef Cow (450 kg)	20	400		
	Laying Hens	0.3	6.0 ^b		
CHICKENS	Replacement Pullets	0.08-0.30	5		
CHICKENS	Broiler Breeders	0.40	8.0°		
	Broiler Chickens	0.08-0.80	7.0°		
	Calves <1 month	10 ^a	100		
	Calves 1-3 months	12 ^a	120		
DAIRY	Heifers 3-12 months	15 ^a	150		
DAINT	Heifers 12-24 months	20	200		
	Small Framed Cow (e.g. Jersey)	25	400		
	Large Framed Cow (e.g. Holstein)	40	600		
GOATS	Mature Does & Bucks	8 ^a	120		
GOATS	Kids	2 ^a	25		
HORSES	Small Framed <400 kg	20 ^a	200		
HONSES	Large Framed >400 kg	30 ^a	300		
RABBITS	Doe & Litter	0.5 ^a	15		
NADDITO	Market Rabbits	0.1 ^a	10		
SHEEP	Ewes & Rams	10 ^a	120		
SHEEP	Feeder Lambs	3 ^a	40		
	Breeding/Gestating Sow	10	200		
	Farrowing Sow with Litter	15	400		
SWINE	Nursery Pigs 4-25 kg	1.0-3.0 ^a	15-35 ^d		
	Grower Pigs 25-60 kg	4.0-6.0	50-70		
	Finishing Pigs 60-120 kg	6.0-8.0	70-90		
	Breeders	1.0-2.0	25-35°		
TURKEYS	Broiler Turkeys 0-8 kg	0.08-0.60	20°		
IUNKETS	Heavy Broilers 8-12 kg.	0.60-1.0	25°		
	Heavy Turkey Toms 18-24kg.	1.0-1.5	30°		

a. To have reasonably good air quality, this minimum winter ventilation rate may need to be increased to ensure at least 3 and preferably 4 room air changes per hour.

This summer ventilation rate may need to be increased to ensure at least 1.5 or preferably 2 air changes per minute during hot summer weather.

c. Ensure the summer ventilation rate is at least 1 air change per minute.

d. Limit the maximum summer air changes to 1 per minute for sensitive livestock.

IMPROVE AIR QUALITY • SAVE ENERGY • CONTROL HUMIDITY



The heat recovery ventilator is an easy and effective solution for rooms and smaller areas, and provides innovative ventilation for fresh air intake and stale air exhaust. Perfect for horse stalls, calf penning and chicken coops.

FEATURES

- · Fresh air supply.
- Heating cost savings during winter.
- Indoor humidity control.
- One Breathe-Right HRV can ventilate up to 343 sq. ft.
- Units can operate independently or can be wired for master-slave operation.
- · Air filtration.

- · Anti-bacterial air treatment.
- Polluted air extract.
- 5 Year Warranty.

BENEFITS

PLUG-&-PLAY INSTALLATION

- No special skills required.
- No balancing needed.
- Through the wall installation.
- · Compact unit design.

MULTIFUNCTIONAL WIRELESS REMOTE CONTROL

- Almost no maintenance required.
- Washable filter and core.
- MERV6 air purification.
- Antibacterial treatment of ERV core and filters.

ALUMINUM OUTER HOOD

- Modern design that fits any interior and exterior.
- 100% corrosion proof.

EC MOTOR

- Efficacy 5.7 CFM/W Twice as high as the Energy Star requirement
- Whisper quiet operation, as low as 0.1 SONES.

PATENT PENDING ON CERAMIC ERV CORE

External rotor motor on ball bearing with thermal protection ensures long life of the fans.

VENTILATION APPLICATION EXAMPLE

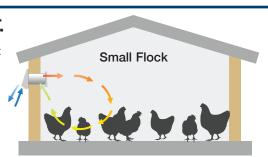
One Breathe-Right HRV unit can serve areas up to 343 SQ. FT.

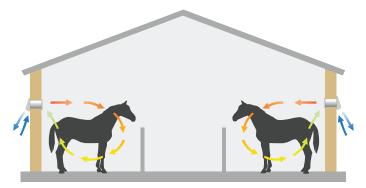
To arrange a ventilation system based on Breathe-Right HRV ventilators, install one unit in each stall. Units can operate independently or can be wired for master-slave operation.

One Breathe-Right HRV unit can ventilate an area for:

1 horse 2 calves

10 goat kids 10 lambs 40 chickens





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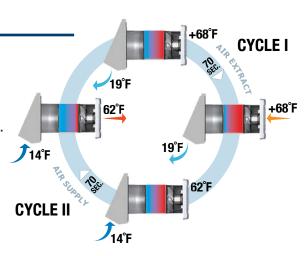
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OPERATION OF BREATHE-RIGHT HRV

The ventilator is designed for both extract and supply ventilation with energy recovery function.

- CYCLE I. While warm, stale air is extracted from a room it passes through the ceramic energy core where the heat and moisture is being accumulated. After the ceramic core heats up, the ventilator automatically switches to supply mode.
- CYCLE II. As the clean, fresh air from outside passes through the ceramic energy core, it absorbs moisture and it warms up due to the accumulated heat. As temperature of the accumulator drops down, the fan switches to extract mode and the cycle is renewed. The ventilator changes its operation mode for supply or extract ventilation every 70 seconds.



BREATHE-RIGHT HRV CONTROL AND OPERATION MODES





POWER Turn ventilator on/off



SPEED SWITCH



PASSIVE AIR SUPPLY

The louvre shutters are opened, but the fan stands still.



VENTILATION

All the ventilators in the network operate in permanent air extract or air supply mode.





NIGHT MODE

The ventilator is switched to low speed on a signal from built-in light sensor. (Not recommended for animal use.)



SUPPLY MODE

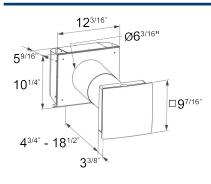
The fan continuously supplies fresh air to the room.



VENTILATION WITH ENERGY REGENERATION

The ventilator switches from supply and extract modes and vice versa in a set time period to enable the transfer of heat energy in winter and control of moisture in summer.

DIMENSIONS







HUMIDITY CONTROL MODE SELECTION

The ventilator automation enables setting one of three humidity set points (45%, 55% or 65%). The ventilator will operate to increase or decrease the indoor humidity level to maintain comfortable environment for you.

SPECIFICATIONS

MODEL	SPEED	VOLTAGE (V)	POWER (W)	CURRENT (A)	AIR CAPACITY (CFM)	ROTATION SPEED (MIN-1)	SONES	EFF @32°F	TRANSPORTED AIR TEMP (°F)	INGRESS PROTECTION RATING
	1		3.8	0.024	8	610	0.1		FROM -13 UP TO 122	IP 32
RA1-50-2	2	120/60 HZ	3.96	0.026	16	800	0.3	91%		
	3		5.61	0.039	32	1450	1.0			

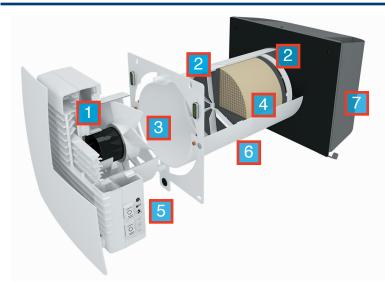
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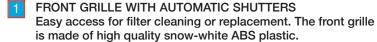
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BREATHE-RIGHT HRV DESIGN







- MERV6 AIR FILTER. ANTIBACTERIAL TREATMENT
 Two G3 built-in filters provide fresh air free of dust, pollen, insects.
- REVERSIBLE AXIAL EC FAN
 The latest EC-motor technology ensures low energy costs.
 The motor has integrated overheating protection and ball bearings for longer service life.
- CERAMIC ERV CORE
 The ventilator includes a high-tech polymer ceramic energy accumulator with ARE 90% @ 32 F. Antibacterial treatment.
 No defrost needed.
- 5 CONTROL
- 6 TELESCOPIC DUCT DIAMETER 6"
- 7 OUTER HOOD
 The exterior is constructed of aluminum covered with a special polymer coating to ensure long-lasting protection from the elements. A grill protects water and foreign objects from entering the unit.

REDUCE HUMIDITY IN YOUR TACK ROOM

The Breathe-Right HRV is perfect for controlling the humidity in your tack room. Just set the ventilator to one of three humidity settings (45%, 55% or 65%) to increase or decrease the indoor humidity level.





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