# **PLASTIC WALL EXHAUST FANS**

**EXHAUST FANS - 3** NOV/2022

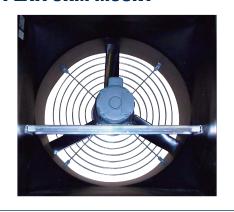
#### **GOOD PERFORMANCE • DEPENDABLE • GREAT VALUE**

**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

**CANARM LTD. - Corporate Office** PO Box 367 2157 Parkedale Ave., Brockville, ON

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# **PLASTIC WALL EXHAUST FANS**

EXHAUST FANS - 4 NOV/2022

# **SPECIFICATIONS**

		Specifications								Performance									Rough			
			Мо	tor			Blade	Model	TESTED AT	Test Code	rpm	DbA	cone	0.00" SP		0.05" SP			0.10	" SP	AFR	Opening Required
		type	spd vol		hp	Frame	mat'l				.,		ö	cfm	cfm/w	cfm cfm/\		amps	cfm	cfm/w		ricquircu
	12"	Leeson			PLF12-EVDL	<b></b>	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	<b>∜</b> CANARM°	210365V	1625	72	N	2600	9.3	2350	8.7	1.39	2150	8.0	0.54	19.25" Sqr
	18"	Leeson				- Jag		PLF18-FVDL	<b></b> CANARM°	210389V	1625	75	N	3450	10.1	3150	9.5	1.69	2900	8.7	0.65	21.25" Sqr
			variable	oltage	1/3	Stainless Steel	Plastic	DI 504 M	\(\frac{1}{2}\) = 1 = 1 = 1	210473V	1100	75	N	5300	13.1	4800	11.9	1.79	4250	10.7	0.66	
	E.	Leeson		115/230 dual voltage		Sta		PLF24-M	™CANARM°	210479V	1100	75	Υ	6000	14.5	5550	13.4	1.86	5000	12.0	0.61	07.05#.0
DIRECT	24"			115/23				DI FOA OVDI	<b>₩</b> CANARM°-	210461V	1625	0.1	N	5800	10.7	5400	10.0	2.41	4900	9.2	0.75	27.25" Sqr
		Leeson			1/2			PLF24-GVDL	y CANARWI	210467V	1625	81	Υ	6200	11.5	5850	10.7	2.41	5450	10.1	0.77	
		0			1/2			PLF36-MP	<b></b> ▼CANARM®	210557	850	75	N	11050	19.8	10150	17.0	2.92	9250	14.6	0.70	
	36"	Canarm	single			Salvanized	nized	PLF36-MP	y CANARM	210558	850	75	Υ	11700	21.7	10850	19.0	2.77	9700	15.8	0.66	40.25" Sgr
	8	Canarm	sing	230	1.0	Galva	Galvanized	PLF36-H*	Certified by BESS	02198*	850	75	N	14320	14	13500	13.0	4.53	12500	11.9	0.79	40.25" Sqr
		Canami		23	1.0			PLF36-H*	LAB University of Illinois	02199*	630	75	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.

<sup>\*</sup> Certified performance by BESS Labs, University of Illinois





#### 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.

# otors and current

## **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.

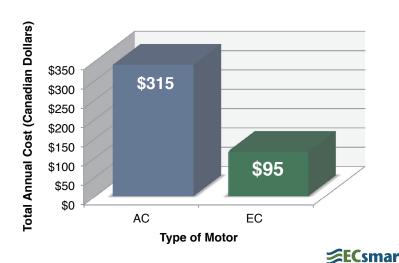
## WARRANTY

Comes with a FULL 5 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.





		Succifications															Pe	erform	ance								
		Specifications					Model	TESTED	Test		0.05"SP 0.1"S										).1"SP	•			Rough Opening		
			Shutter	Blade	Iviouci	AT	Code	one	Running @ 1			%	Running @ 60%				Ri	unning	@ 1009	6	R	unning	g @ 60°	%	Required		
	type	spd	volt	hp	Frame	mat'l					rpm	cfm	cfm/w	amps	rpm	cfm	cfm/w	amps	rpm	cfm	cfm/w	amps	rpm	cfm	cfm/w	amps	
18"	Leeson		230	1/3	ss Steel	Plastic	PLF18-EC	Certified by BESS LAB Conversity of Hissis	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
rect 24"	Leeson	Variable	2	1/2	Stainless	Pa	PLF24-EC	Certifod by BESS LAB University of Mission	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
Dire 36"	Canarm		230	3/4	ss 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
S S			2	<u> </u>	Stainless	Galva	72760-20	Dinestly 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.





		Specifications						TESTED									Pe	erform	ance									
									Test	0.05"SP 0.1"SP													Rough					
		Motor		Shutter	Blade	Model	AT	Code		Running @ 100%			Running @ 60%				Ri	unning	@ 1009	6	R	unning	g @ 609	%	Opening Required			
		type	spo	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	ricquii ca
	18"	Leeson		230	1/3	ss Steel	Plastic	FG18-EC	BESS LAB (Overally of Illinois)	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	24"	Leeson	Variable		1/2	Stainles	PR	FG24-EC	ESS LAB CONTROL OF SUIDOR	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
Dir		0		230	0/4	s Steel	alvanized	5000 50	Entitled by BESS LAB Entersity of Billots	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	40   0
	36"	Canarm		52	3/4	Stainless	Galvar	FG36-EC	Sectified by BESS LAB University of Ellinois	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

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