

NEW
WF50 and WF54
with Dragonfly® Damper
Belt Drive fans



Patent Pending



Four door damper on a WF Series fan

The WF Series fans use high quality components and precise engineering to create a simple, high quality fan with optimal performance at the best price.

The newest feature on the WF50 is the patent pending Dragonfly® Damper. Designed to maximize the fans spiral airflow pattern offering unsurpassed airflow and efficiency.

The cast aluminum drive assembly utilizes enclosed automotive style bearing and comes with a 7 year limited warranty. This feature along with the automotive style belt tensioner and heavy duty galvanized steel propeller promotes top performance. The MONO-STRUT offers strength and durability in a simple design.

PRODUCT INFORMATION

- 4 door design for maximum performance
- Superior weather protection
- Flush mount interior guard
- Cast aluminum drive assembly with limited 7 year bearing warranty
- Automotive style belt tensioner
- Heavy duty galvanized steel propeller
- Galvanized steel fan housing
- Single or 3 phase high efficiency motor
- MONO-STRUT for strength and durability



Patent Pending 4 door design which optimizes spiral airflow.



Drive Assembly

The cast aluminum drive assembly utilizes enclosed automotive style bearing and comes with a 7 year limited warranty. An aramid-fiber V-belt provides superior durability.



Drive Assembly

Unique Door Spring

Unique constant force stainless steel springs allow doors to open fully when the fan is on and close consistently when the fan is off.



Unique Door Spring

Rugged Door Seal

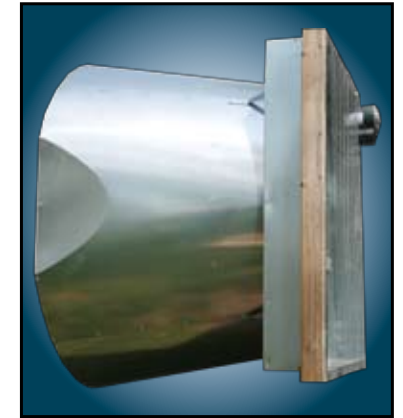
Weather tight seals for energy savings. Outer edge of doors close tight against a rugged bulb seal, not a cheap foam gasket. The hinge area between doors is sealed, unlike typical butterfly dampers.



Rugged Door Seal

Flush Mount Housing

Installs flush to inside wall. Inlet guard does not extend into building and is easy to remove for maintenance.



Flush Mount Housing

Performance Information: Fan complete with flat-sided discharge cone, Dragonfly® damper and guard

				0.0" SP		0.05" SP		0.10" SP		0.15" SP		0.20" SP			
Catalog Number	Prop Dia.	Motor HP	Max BHP	CFM	CFM Watt	CFM	CFM Watt	CFM	CFM Watt	CFM	CFM Watt	CFM	CFM Watt	Airflow Ratio	Bess Lab. Test No.
WF501VCD	50"	1	1.29	27,000	25.2	25,200	22.7	23,200	20.4	21,000	17.9	18,800	15.7	0.75	07401
WF5015VCD	50"	1.5	1.70	30,100	20.4	28,500	18.7	26,900	17.1	24,600	15.1	22,300	13.4	0.78	07188
WF541VCD	54"	1	1.35	29,800	27.8	28,100	24.5	26,400	21.9	24,200	19.3	21,900	16.7	0.78	07394
WF5415VCD*	54"	1.5	1.74	31,700	24.3	30,000	22.2	28,300	20.0	26,300	17.7	24,100	15.6	0.80	07396
WF542VCD†	54"	2	1.98	33,400	22.4	31,900	20.7	30,300	18.9	28,600	17.0	26,800	15.4	0.84	07397

*Performance values of these fans at 0.0" S.P. exceed the BESS Lab test capabilities and were calculated through regression analysis of CFM and CFM/Watt measurements for higher static pressures.

†Performance values of these fans at 0.05" S.P. exceed the BESS Lab test capabilities and were calculated through regression analysis of CFM and CFM/Watt measurements for higher static pressures.



Notes:

- The ratings shown are based on tests and procedures performed at the BESS Lab, University of Illinois in accordance with ASHRAE Standard 51-1999.
- BHP values were not measured at the BESS Lab. The BHP values shown were derived from actual Watt measurements using motor efficiency values supplied by the motor manufacturers.

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