



MODEL VBOS

UPBLAST FAN, REMOTE DRIVE

Model VBOS belt drive upblast roof fans are designed for general commercial and industrial exhaust applications. Upblast roof fans are suitable for removing hot air and process exhaust from building interiors. The motor is mounted out-of-airstream for easy access during inspections and maintenance.

OVERVIEW

The Model VBOS is a cost effective and reliable power roof ventilator solution for general exhaust applications in most commercial and industrial buildings. Typical construction consists of heavy gauge steel, a 3-phase induction motor, and a 3-6 blade axial prop. Easy motor access ensures fast inspections and maintenance for every unit. A variety of additional options are available to accommodate customers' needs including extended lubrication lines, disconnect switches, custom finishes, and more.

Ideal Weather Protection – Integral butterfly dampers for backdraft prevention, double outlet trough to drain water

Reliable Power – Heavy duty TEFC Motor mounted out-of-airstream, variable pitch drives up to 7-1/2 hp

Efficient Prop Design – Propellers consist of 3 to 6 backward sickled nylon blades mated to a cast aluminum hub

Easily Serviced – Removable wind band and fan shroud to facilitate access to fan, motor out-of-airstream for faster inspection & maintenance

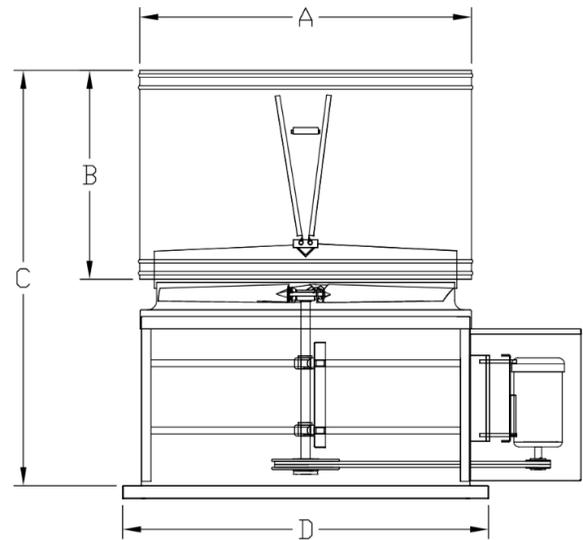
Certifications – AMCA Air Performance

SPECIFICATIONS – MODEL VBOS

The Model VBOS power roof ventilator is an axial type belt-driven upblast fan consisting of a square inlet base and a round outlet protected with a wind band and integral damper. Construction shall be of heavy-gauge steel, and all screws, washers, and nuts shall be selected to suit construction and material. Two door butterfly dampers constructed of sheet metal shall be included on each unit. The propeller support structure shall consist of a steel plate and steel pipe struts with heavy duty, grease lubricated, self-aligning pillow block bearings. Propellers shall have nylon or fiberglass blades affixed to a cast aluminum hub mounted with a taper-lock bushing. The motor shall be either Totally Enclosed Fan Cooled or Open Drip Proof type and shall be mounted externally to the unit with an adjustable base. All drives shall be designed for 165% of rated horsepower and drives up to 7-1/2 hp may be variable pitch. All belts shall be oil resistant non-static type. Standard finish shall be an exterior coating of gray polyurethane paint with additional custom coatings and colors available for special applications.

DIMENSIONAL DATA – MODEL VBOS

DIMENSIONS [INCHES]					STEEL GAUGE		WT [LBS]
SIZE	A	B	C	D	BASE	WIND BAND	
24	30	20	42	36	16 GA	24 GA	380
30	36	26	48	42	16 GA	22 GA	430
36	42	26	55	48	14 GA	22 GA	565
42	48	29	58	54	14 GA	20 GA	715
48	54	31	62	60	14 GA	20 GA	800
54	60	36	72	66	12 GA	18 GA	995
60	66	40	73	72	12 GA	18 GA	1145



ACCESSORIES – MODEL VBOS

Inlet Guard – Protective guards are available for fan inlets.

Outlet Guard – Protective guards are available for fan outlets to shield dampers from debris.

Disconnect Switch – NEMA 3R, 4, and 4X disconnect switches are available for electrical shut-off and additional safety when servicing fans.

Extended Lubrication Lines – External grease fittings with lubrication lines extending from the fan bearings are available for expedited fan maintenance.

Roof Curb – Prefabricated roof curbs are available to ensure compatibility between fans, curbs, and roof openings.

Curb Adapter – Prefabricated curb adapters are available for seamless installation of fans into existing roof curbs.

Special Coatings – Special liquid coatings are available, including color-to-match epoxies and urethanes. Urethane powder coatings are also available. Consult Moffitt for more details.

PRODUCT WARRANTY

Moffitt guarantees this equipment to be free of defects in material and workmanship under normal use and service for a period of one year from the date of delivery. Moffitt must be contacted within the one-year period with a warranty claim, and the repair must be authorized by both parties. The location of warranty repairs, either in-field or at the factory, will be at the manufacturer’s discretion. This guarantee does not cover any damage caused by mishandling of equipment, neglect of lubrication, accidental overload, or improper insulation, nor does it cover the cost of repairs made or attempted outside of the factory without written authorization from the manufacturer. Moffitt only guarantees electric motors to the extent of the motor manufacturer’s warranty. Correction of any verified defects by repair or replacement shall constitute a fulfillment of this warranty.

PERFORMANCE – MODEL VBOS

MODEL	MOTOR POWER [HP]	FAN SPEED [RPM]	MAX BHP	STATIC PRESSURE [IN. W.G.] / CAPACITY [CFM]						
				0.00	0.100	0.125	0.250	0.375	0.500	0.675
VBOS-489	5	845	4.11	28534	27505	27237	25809	24220	22426	20367
VBOS-489	5	915	5.13	31043	30076	29826	28512	27081	25513	23777
VBOS-489	5	938	5.49	31633	30713	30475	29277	27873	26391	24754
VBOS-4810	7.5	939	5.56	31579	30844	30606	29366	28020	26549	24926
VBOS-4810	7.5	1074	7.71	36116	35330	35129	34084	32974	31789	30518
VBOS-4810	7.5	1130	8.78	38155	37408	37217	36229	35187	34083	32908



Moffitt certifies that the VBOS models shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

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Notes:

1. Published performance is certified for installation type A, free inlet, free outlet in accordance with AMCA 210. Power ratings (BHP) do not include any transmission losses. Performance ratings do not include any optional appurtenances.
2. Do not use fans in hazardous environments where the electrical systems could ignite combustible or flammable materials. Only use fans specifically designed and rated for operation in hazardous environments.
3. OSHA regulations require that guards be installed on all fans that are less than (7) feet above the floor or working level. It is the responsibility of the equipment installer to ensure that these requirements are met.
4. Fan motors are not provided with inherent overload or overcurrent protection. It is the responsibility of the equipment installer to ensure that fans are installed with proper remote overload protection.
5. Moffitt is committed to continuous product improvement and retains the right to change product design and construction at will without prior notice.