

Model VBO Upblast Fan



MoffittCorp.com | (800) 474-3267
1351 13th Ave S. Suite 130
Jacksonville Beach, FL 32250

 **Moffitt**
NATURAL VENTILATION SOLUTIONS

Model VBO Upblast Remote Drive Fan

Model VBO Belt-Drive Fan Description

PRODUCT DESCRIPTION

Model VBO Upblast Exhaust Fans are designed to operate reliably in hostile environments where motor and drive need protection due to high temperatures or contaminated air. The propeller helps make the unit suitable for air temperatures up to 200°.

The weather protecting dampers open automatically when the fan is started. The high velocity exhaust airstream holds the dampers open preventing the entrance of rain or snow. When the motor power is cut, the dampers close to provide a complete weather seal. A rain runoff trough is located below the damper shafts to provide drainage to the outside resulting in weather-tight construction.

STANDARD FEATURES

- Drive: Belt Drive, Variable pitch to 7-1/2 HP. Adjustable for final system RPM. Belts sized for 165% of driven HP.
- Propeller: High -performance statically and dynamically balanced.
- Wind band: Heavy gauge galvanized steel beaded for additional strength.
- Dampers: Steel butterfly dampers w/ water runoff troughs for sizes 24" through 60".
- Motor Frame: Heavy-duty, all-welded frame
- Housing: Galvanized steel, Deep Spun Venturi, protected by a high-performance polyurethane coating
- Bearings: Heavy duty, grease lubricated, self-aligning pillow block. 200,000 hours at maximum cataloged operating speeds.
- Bearing Supports: Minimum of 1/4" thick plate welded to interior steel channels

OPTIONAL FEATURES

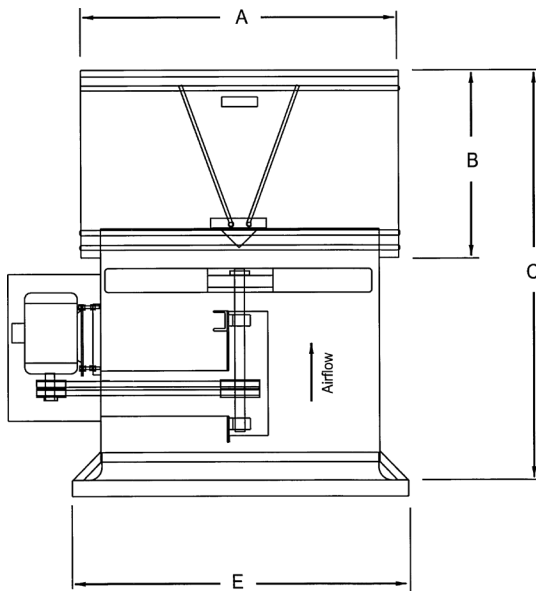
- Protective Guards:
 - Inlet Guard
 - Outlet Guard
- Magnetic Damper Latches
- Disconnect Switches:
 - NEMA 3R Rainproof
 - NEMA 4 Watertight
- Roof Curbs:
 - Extended height curbs
 - Self-flashing (Type SFE)
 - Roofed over (Type CFE)
- Special coatings
 - Color to match enamel
 - Epoxies
 - Urethane powder coatings
- Fusible link damper lifter

INDUSTRY APPLICATION

- Aluminum Plants
- Automotive Plants
- General Manufacturing
- Glass & Glass Products
- Pulp & Paper Plants
- Schools

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Model VBO Dimensional Data



SIZE	STEEL GAUGE							
	A	B	C	E	BASE	SECT.	BAND	WT
24	31	19	47	34	16	16	20	390
30	37	23	52	40	16	16	20	440
36	43	25	60	46	14	16	20	575
42	49	27	63	52	14	16	20	725
48	55	31	67	56	14	16	20	810
54	61	35	77	64	21	14	20	1005
60	67	36	78	68	12	14	18	1150

WARNING! DO NOT USE IN HAZARDOUS ENVIRONMENTS where fans electrical system could provide ignition to combustible or flammable materials unless unit is specifically built for hazardous environments. Guards must be installed when the fan is within reach of personnel or within seven (7) feet of working level or when deemed advisable for safety.

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Model VBO Performance Data

MODEL	HP	RPM	MAX BHP	*SONES	STATIC PRESSURE / CAPACITY						
					0.00	0.10	0.125	0.25	0.375	0.500	0.750
VBO-244	3/4	1109	6968	0.71	22.4	6651	6277	6175	5624	4966	4148
VBO-244	3/4	1149	7219	0.79	23	6891	6533	6434	5910	5302	4550
VBO-245	1	1220	7666	0.95	24.2	7316	6982	6891	6408	5854	5217
VBO-245	1	1261	7923	1.05	24.9	7562	7239	7153	6690	6166	5569
VBO-246	1-1/2	1398	8784	1.43	28.5	8384	8092	8019	7613	7172	6678
VBO-246	1-1/2	1444	9073	1.58	29.8	8660	8377	8307	7918	7499	7029
VBO-247	2	1537	9217	1.9	33	9217	8952	8886	8529	8142	7726
VBO-247	2	1590	9990	2.1	34.9	9535	9279	9215	8873	8504	8108
VBO-304	3/4	820	6440	0.71	17.7	8970	8276	8084	7002	5568	
VBO-304	3/4	848	6660	0.79	19	9276	8609	8425	7401	6081	
VBO-305	1	901	7076	0.95	21.7	9856	9235	9064	8131	6989	5412
VBO-305	1	933	7328	1.05	22.8	10206	9611	9445	8561	7510	6126
VBO-306	1-1/2	1033	8113	1.43	25.9	11300	10765	10626	9857	8985	7945
VBO-306	1-1/2	1068	8388	1.58	27.1	11683	11165	11036	10301	9477	8528
VBO-307	2	1135	8914	1.9	29.7	12416	11929	11807	11130	10382	9545
VBO-307	2	1174	9221	2.1	31.4	12842	12371	12254	11607	10899	10107
VBO-365	1	768	7238	0.95	20.6	12991	11977	11708	10249	8389	
VBO-365	1	794	7483	1.05	21.5	13431	12453	12195	10809	9110	
VBO-366	1-1/2	878	8275	1.43	24.7	14852	13976	13745	12539	11175	9379
VBO-366	1-1/2	909	8567	1.58	26	15377	14532	14310	13156	11862	10319
VBO-367	2	966	9104	1.9	28.6	16341	15549	15343	14270	13100	11759
VBO-367	2	998	9406	2.1	30.3	16882	16118	15920	14888	13784	12548
VBO-368	3	1105	10141	2.85	36.7	18692	18007	17829	16912	15950	14902
VBO-368	3	1143	10773	3.15	38.4	19335	18675	18502	17622	16696	15716
VBO-369	5	1287	12130	4.5	46	21771	21191	21039	20265	19464	18635
VBO-369	5	1357	12789	5.25	50.3	22955	22405	22264	21534	20782	20003
VBO-425	1	634	6971	0.95	21.9	16063	14526	14117	11796	7471	
VBO-426	1	722	7939	1.43	25.1	18292	16960	16609	14720	12460	
VBO-426	1-1/2	745	8192	1.58	26.1	18875	17587	17249	15447	13310	
VBO-427	1-1/2	792	8709	1.9	28.2	20066	18861	18545	16887	15000	12613
VBO-427	2	819	9005	2.1	29.6	20750	19588	19283	17696	15925	13777
VBO-428	2	906	9962	2.85	34.4	22954	21906	21640	20235	18717	17017
VBO-428	3	937	10303	3.15	36.2	23739	22726	22473	21124	19685	18104
VBO-429	3	1056	11611	4.5	43.9	26754	25855	25630	24461	23230	21922
VBO-429	5	1111	12216	5.25	47.6	28148	27293	27080	25978	24823	23610
VBO-4210	5	1233	13558	7.13	57.5	31239	30469	30276	29301	28277	27221
VBO-4210	7-1/2	1275	14019	7.88	61.5	32303	31558	31372	30435	29449	28436
VBO-486	7-1/2	625	7854	1.43	23.8	21816	19894	19384	16563	12369	
VBO-486	1-1/2	648	8143	1.58	24.8	22619	20771	20283	17617	14040	
VBP-487	1-1/2	688	8646	1.9	26.7	24015	22285	21830	19399	16439	
VBO-487	2	710	8922	2.1	27.8	24783	23111	22671	20338	17573	12842
VBO-488	2	786	9877	2.85	32.2	27435	24938	25547	23510	21228	18542
VBO-488	3	813	10216	3.15	34	28378	26934	26556	24599	22452	19941
VBO-489	3	916	11511	4.5	42.2	31973	30699	30373	28668	26862	24895
VBO-489	5	963	12101	5.25	46.7	38614	32402	32098	30489	28809	27006
VBO-4810	5	1067	13408	7.13	57.4	37244	36150	35876	34450	32964	31406
VBO-4810	7-1/2	1104	13873	7.88	59.9	38535	37478	37214	35844	34415	32939
VBO-548	7-1/2	568	8030	2.85	24.1	32129	30067	29526	26672	23375	18759
VBO-548	3	587	8299	3.15	25.4	33204	31214	30692	27951	24846	20809
VBO-549	3	661	9345	4.5	30.9	37390	35642	35183	32817	30259	27391
VBO-549	5	696	9839	5.25	33.9	39369	37719	37283	35049	32690	30078
VBO-5410	5	770	10886	7.13	39.6	43555	42068	41688	39696	37620	35414
VBO-5410	7-1/2	796	11253	7.88	41.8	45026	43587	43227	41309	39321	37228
VBO-5411	7-1/2	848	11988	9.5	46.7	47967	46616	46279	44496	42645	40720
VBO-5411	10	877	12398	10.5	49.6	49600	48302	47975	46261	44480	42641
VBO-608	10	500	7854	2.85	29.1	36974	34221	33498	29617	24824	
VBO-608	3	517	8121	3.15	30.6	38231	35576	34879	31162	26716	
VBO-609	3	582	9142	4.5	37.2	43038	40700	40091	36917	33379	29186
VBO-609	5	612	9613	5.25	40.1	45257	43042	42464	39480	36239	32494
VBO-6010	5	678	10650	7.13	47.8	50137	48143	47637	44987	42171	39119
VBO-6010	7-1/2	701	11011	7.88	50.9	51838	49909	49427	46876	44196	41323
VBO-6011	7-1/2	747	11734	9.5	57.7	55240	43430	52977	50608	48136	45498
VBO-6011	10	771	12111	10.5	62.6	57014	55261	54823	52539	50167	47641