

MODEL VBO

(Cast Aluminum Propeller)

Romlair 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. Suitable for air temperatures up to 200°

Upblast Remote Drive Exhaust Fans

CONSTRUCTION FEATURES

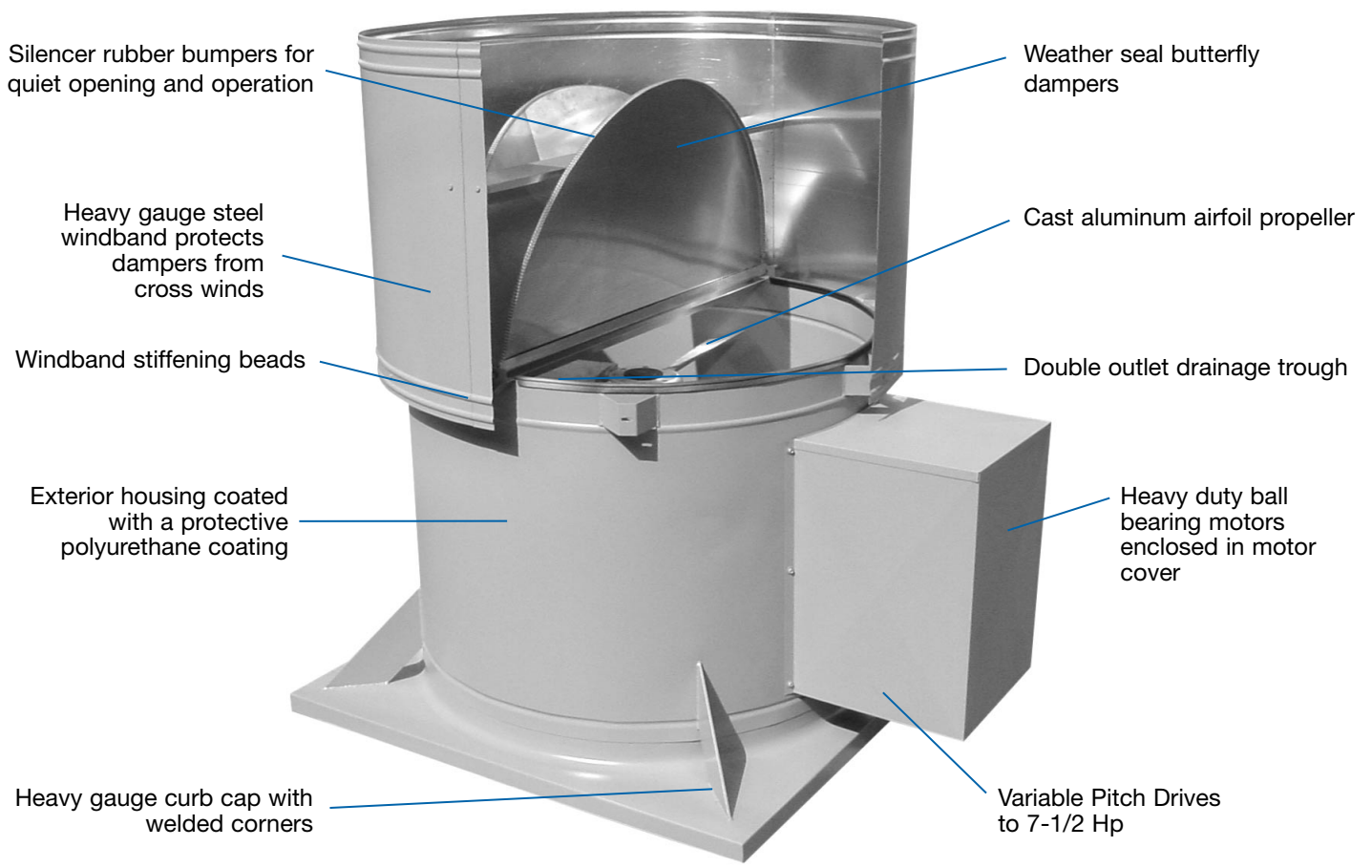
- **Cast Aluminum Airfoil Propeller** – Non-sparking construction designed to produce a high level of efficiency.
- **Windband** – Constructed of heavy gauge galvanized steel. Easily removable to facilitate easy access to fan components for inspection and service.
- **Butterfly Dampers** – Steel dampers are standard for sizes 24 through 60. Provides weather and backdraft protection when fan is not in operation.
- **Extended Lube Lines** – Extended lubrication lines with grease fittings allow bearing lubrication without disassembling the fan.
- **Variable Pitch Drives To 7-1/2 Hp** – Adjustable for final system RPM. Belts sized for 165% of driven Hp.
- **Heavy Duty Ball Bearing Motor** – Provides years of trouble free operation.
- **Self-Aligning Pillow Block Bearings** – Selected for a minimum (150) life in excess of 2,000,000 hours at maximum cataloged operating speeds.
- **Motor Out of Airstream** – Motor, belts and bearings are isolated from the airstream. Removable cover provides access to the motor.
- **UL Listing** – UL705 listing is available on TEFC models up to 10 Hp.

Romla also offers the same version in a U.L. Listed "Power Ventilator For Smoke Control Systems" – Refer to Model VBO-HV Cat. HV00

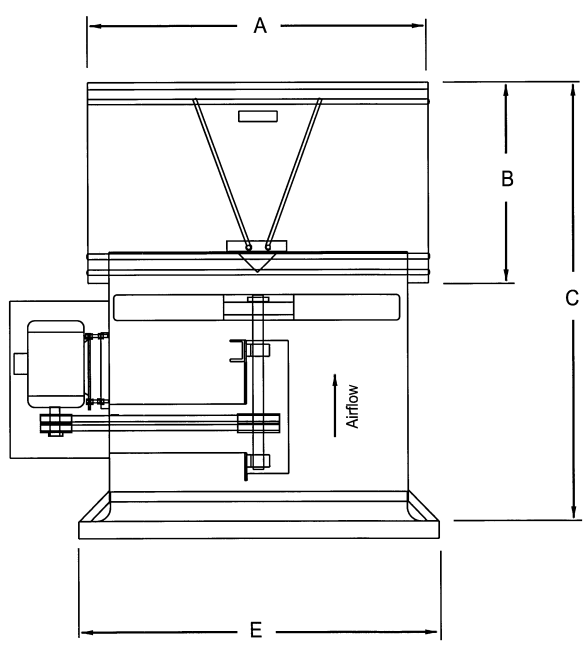


WEATHER PROTECTED – Romlair upblast discharge power roof ventilator dampers open automatically when fan is started. The high velocity exhaust airstream holds the dampers open preventing the entrance of rain or snow. When the motor power is cut, the dampers close to provide a complete weather seal. A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

MODEL VBO CONSTRUCTION FEATURES



MODEL VBO DIMENSIONAL DATA



SIZE	A	B	C	E	STEEL GAUGE			WT
					BASE	SECT.	BAND	
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

MODEL VBO

PERFORMANCE DATA

MODEL	HP	RPM	TIP SPEED	MAX BHP	*SONES	STATIC PRESSURE / CAPACITY						
						0.00	0.10	0.125	0.25	0.375	0.50	0.75
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	5481
VBO-246	1-1/2	1444	9073	1.58	29.8	8660	8377	8307	7918	7499	7029	5935
VBO-247	2	1537	9217	1.9	33	9217	8952	8886	8529	8142	7726	6757
VBO-247	2	1590	9990	2.1	34.9	9535	9279	9215	8873	8504	8108	7206
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	7333
VBO-307	2	1174	9221	2.1	31.4	12842	12371	12254	11607	10899	10107	8156
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	12425
VBO-368	3	1143	10773	3.15	38.4	19335	18675	18502	17622	16696	15716	13396
VBO-369	5	1287	12130	4.5	46	21771	21191	21039	20265	19464	18635	16808
VBO-369	5	1357	12789	5.25	50.3	22955	22405	22264	21534	20782	20003	18330
VBO-425	1	634	6971	0.95	21.9	16063	14526	14117	11796	7471		
VBO-425	1	655	7202	1.05	22.5	16595	15113	14721	12542	7223		
VBO-426	1-1/2	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	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	3	906	9962	2.85	34.4	22954	21906	21640	20235	18717	17017	11338
VBO-428	3	937	10303	3.15	36.2	23739	22726	22473	21124	19685	18104	13801
VBO-429	5	1056	11611	4.5	43.9	26754	25855	25630	24461	23230	21922	18911
VBO-429	5	1111	12216	5.25	47.6	28148	27293	27080	25978	24823	23610	20891
VBO-4210	7-1/2	1233	13558	7.13	57.5	31239	30469	30276	29301	28277	27221	24938
VBO-4210	7-1/2	1275	14019	7.88	61.5	32303	31558	31372	30435	29449	28436	26271
VBO-486	1-1/2	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	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	3	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	5	916	11511	4.5	42.2	31973	30699	30373	28668	26862	24895	19829
VBO-489	5	963	12101	5.25	46.7	33614	32402	32098	30489	28809	27006	22728
VBO-4810	7-1/2	1067	13408	7.13	57.4	37244	36150	35876	34450	32964	31406	27970
VBO-4810	7-1/2	1104	13873	7.88	59.9	38535	37478	37214	35844	34415	32939	29675
VBO-548	3	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	5	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	7-1/2	770	10886	7.13	39.6	43555	42068	41688	39696	37620	35414	30272
VBO-5410	7-1/2	796	11253	7.88	41.8	45026	43587	43227	41309	39321	37228	32489
VBO-5411	10	848	11988	9.5	46.7	47967	46616	46279	44496	42645	40720	36502
VBO-5411	10	877	12398	10.5	49.6	49600	48302	47975	46261	44480	42641	38678
VBO-608	3	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	5	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	7-1/2	678	10650	7.13	47.8	50137	48143	47637	44987	42171	39119	31253
VBO-6010	7-1/2	701	11011	7.88	50.9	51838	49909	49427	46876	44196	41323	34408
VBO-6011	10	747	11734	9.5	57.7	55240	53430	52977	50608	48136	45498	39519
VBO-6011	10	771	12111	10.5	62.6	57014	55261	54823	52539	50167	47641	42095

Romla Ventilator Company certifies that the fans shown have been tested and rated in accordance with AMCA Bulletin 211 and are guaranteed by the manufacturer to deliver rated performance.

*Sones shown apply to the highest cataloged CFM at each fan RPM

MODEL VBO ACCESSORIES

INLET GUARD - Protective guards are available on the fan inlet. **Note: When an inlet guard is not ordered with the fan, it should be provided by the installer.**

OUTLET GUARD - Protective outlet screens to shield the fan discharge and dampers from debris.

MAGNETIC DAMPER LATCHES - Minimized damper flutter in high wind areas when fan is not in operation.

DISCONNECT SWITCHES - NEMA 3R Rainproof and NEMA 4 Watertight disconnect switches are available for positive electrical shut-off and safety when servicing fans.

ROOF CURBS - Type CF and SF prefabricated roof curbs are available to ensure compatibility between the fan, curb, and roof opening.

SPECIAL COATINGS - Special liquid coatings are available, including special color to match enamels, epoxies, and urethanes. Urethane powder coatings are available. Consult factory for information regarding which coating to use.

FUSIBLE LINK DAMPER LIFTER - Fusible link damper lifters are available to automatically open the dampers when the air temperature below the dampers exceeds 165° F.

ACCESS DOOR - Access doors for inspecting fan components are available.

SPECIFICATIONS

Axial type roof mounted hooded exhaust fans shall be belt driven and incorporate a high performance cast aluminum airfoil propeller. Propellers shall be statically and dynamically balanced. All welded fan tube and curb cap shall be constructed of heavy gauge steel. Windbands shall be constructed of heavy gauge galvanized steel and beaded for additional strength. Bearing support plates shall be a minimum of 1/4" thick plate welded to interior steel channels to provide superior support. Fan shaft bearings and drives shall be isolated from the airstream. Fan bearings shall be heavy duty, grease lubricated, self-aligning pillow block type. Bearings shall be selected for a minimum (L50) life in excess of 200,000 hours at maximum cataloged operating speeds. All drives shall be designed for 165% of rated horsepower. Motor drives to 7-1/2 hp shall be variable pitch. Belts shall be oil resistant non-static type. Fans shall be Model VBO as manufactured by Romla Ventilator Company of San Diego, California.

WARRANTIES

The Romla Ventilator Company warrants this equipment to be free from defects in material and workmanship under normal use and service for a period of one year from date of delivery. During the warranty period if any parts prove to be defective, they will be repaired or replaced free of charge at factory option: If upon receipt of written authorization they are delivered prepaid to the factory. This guarantee does not cover any damage caused by neglect of lubrication, accident or overload, improper installation, nor does it cover the cost of repairs made or attempted outside the factory, without authorization from Romla Ventilator Company. Electric motors are guaranteed only to the extent of the motor manufacturer's warranty.

The Romla Ventilator Company is not responsible for the cost of removal of the defective product or part, or the installation of the repaired or replaced products or part. Correction of any verified defects by repair or replacement shall constitute fulfillment of this warranty.

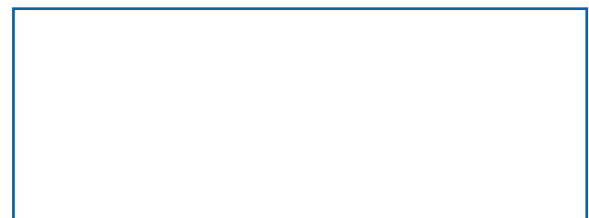


WARNING! DO NOT USE IN HAZARDOUS ENVIRONMENTS where fans electrical system could provide ignition to combustible or flammable materials, unless unit is specifically built for hazardous environments. Guards must be installed when fan is within reach of personnel or within seven (7) feet of working level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



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