

# MODEL V

(Cast Aluminum Propeller)

*Romlair Model V Upblast Exhaust Fans are intended for the general ventilation of factories and warehouses. These fans can also be placed to provide spot ventilation in specific problem areas.*

## Upblast Direct Driven 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.
- **Motor Frame** – The heavy-duty all welded drive frame provides a rigid platform for motor and propeller.
- **Minimal Maintenance Cost** – Maintenance costs are generally lower with direct drive fans, since there are no belts or bearings to replace and no pulleys to adjust.
- **Heavy Duty Ball Bearing Motor** – Provides years of trouble-free operation.
- **Deep Spun Venturi** – For high efficiency.
- **UL Listing** – UL705 listing is available on TEFC models up to 10 Hp.

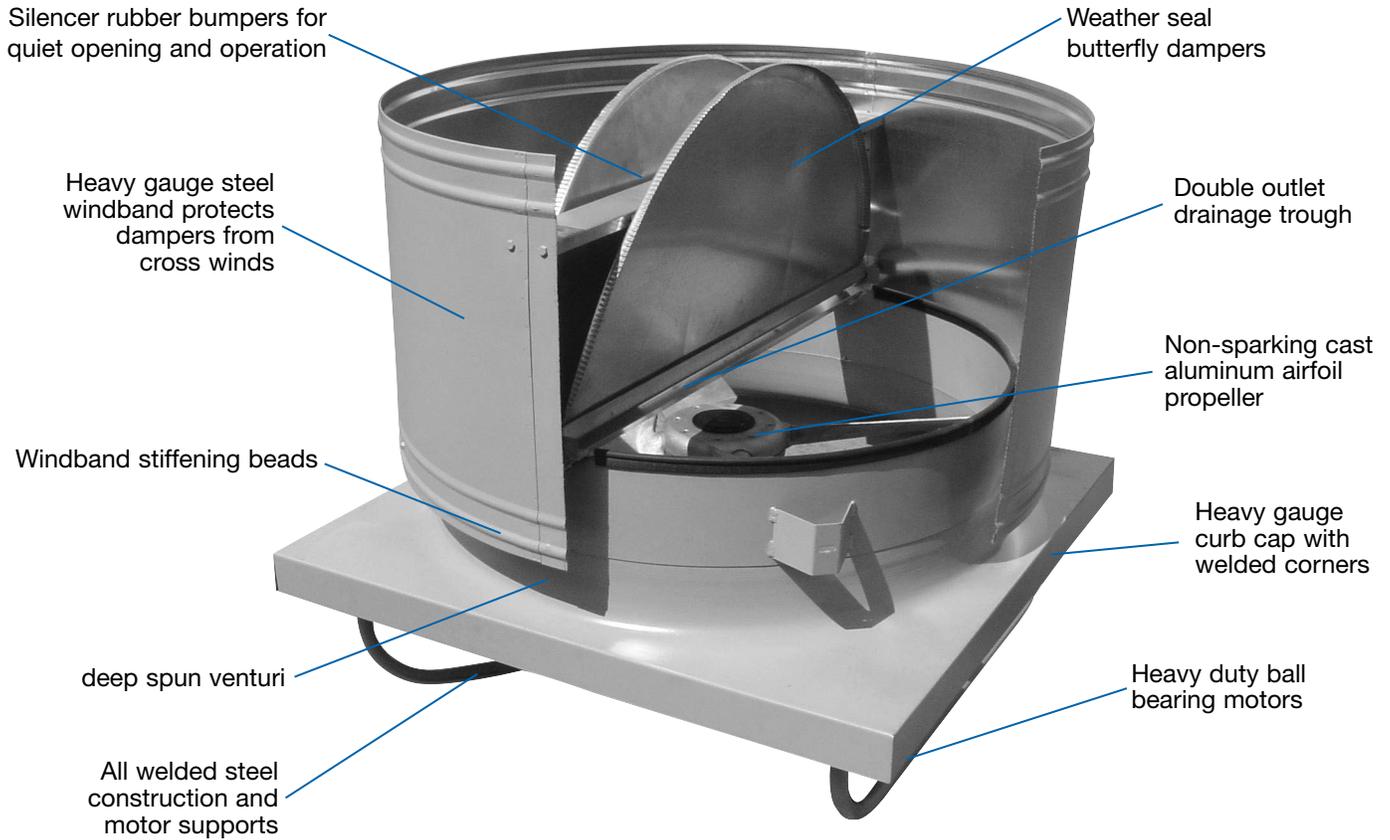


#### WEATHER PROTECTED

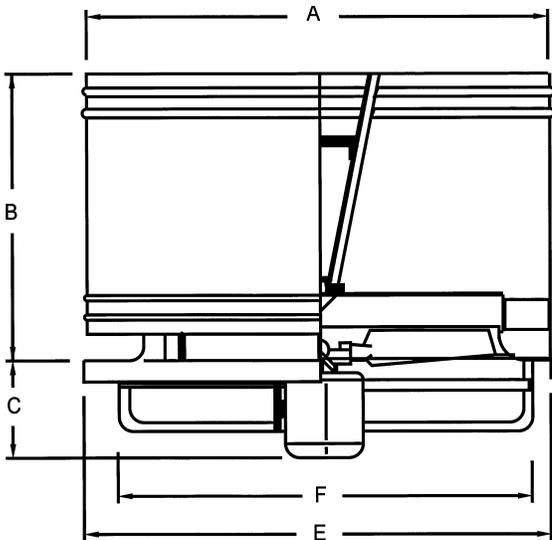
Romlair upblast discharge power roof ventilator dampers open automatically when fan is started. The high velocity exhaust airstream holds the dampers open preventing the entrance of rain or snow. When the motor power is cut, the dampers close to provide a complete weather seal. A rain runoff trough is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

***Romlra also offers the same version with in belt drive with either a cast aluminum or steel propeller.***

**MODEL V CONSTRUCTION FEATURES**



**MODEL V DIMENSIONAL DATA**



SIZE	A	B	C	E	F	STEEL GAUGE		WT
						CURB CAP	WIND BAND	
24	30	19	12	30	24	16	20	175
30	36	22	12	36	30	16	20	225
36	42	25	17	42	36	16	20	340
42	48	28	17	48	42	14	20	450
48	54	31	22	54	48	14	20	650
54	60	35	21	60	54	12	20	760
60	66	38	21	66	60	12	18	860

**MODEL V EXHAUST APPLICATION PERFORMANCE DATA**

MODEL	HP	RPM	MAX BHP	*SONES	STATIC PRESSURE / CAPACITY							
					0.00	0.10	0.125	0.25	0.375	0.5	0.625	
V-242-11	1/3	1160	.35	22.1	5259	4749	4599					
V-243-11	1/2	1160	.58	24.1	6066	5761	5530	4875				
V-244-11	3/4	1160	.84	26.2	7026	6590	6465	5750				
V-245-11	1	1160	1.13	27.6	7671	7160	7030	6259				
V-245-17	1	1750	1.24	40.3	7952	7625	7549	7099	6610	6019		
V-246-17	1-1/2	1750	1.69	41.1	8913	8463	8393	7828	7146	6439		
V-247-17	2	1750	2.33	49.2	9924	9562	9465	8996	8395	7745		
V-302-8	1/3	860	.38	27.7	7937	6821	6475					
V-303-8	1/2	860	.63	25.2	9332	8409	8168	6547				
V-304-8	3/4	860	.85	20.5	10399	9499	9242	7598				
V-305-8	1	860	1.15	23.5	11526	10498	10256	8364				
V-305-11	1	1160	1.18	35.3	11658	10830	10593	9396	7762			
V-306-11	1-1/2	1160	1.70	37.4	13078	12059	11785	10367	8650			
V-307-11	2	1160	2.25	37.4	13867	12743	12430	10677				
V-364-8	3/4	860	.74	24.3	12470	10598	10088					
V-365-8	1	860	1.18	27.3	14535	12860	12398	9232				
V-366-8	1-1/2	860	1.69	30.5	15389	13086	12460	9910				
V-365-11	1	1160	.93	32.6	13098	11815	11476	9420				
V-366-11	1-1/2	1160	1.77	43.7	16638	15575	15296	13795	11805			
V-367-11	2	1160	2.26	43.8	17614	16776	16555	15365	13963	11810	10019	
V-368-11	3	1160	3.47	49.2	21179	20305	20088	18945	17477	15779	13435	
V-369-11	5	1160	5.41	54.1	24106	23055	22790	21678	19388	17312		
V-425-8	1	860	1.13	31.4	17195	15254	14838	11978				
V-426-8	1-1/2	860	1.76	33.3	19435	17486	16697	13131				
V-427-8	2	860	2.36	35.2	21927	20516	20144	18097	15472	11715		
V-428-8	3	860	3.31	37.1	24798	23283	22917	20605	17430	12065		
V-486-8	1-1/2	860	1.72	37.3	24287	22475	21920	18745	14458	8255		
V-487-8	2	860	2.29	39.4	27267	25479	24913	21708	17325	9601		
V-488-8	3	860	3.42	41.5	30088	26505	25699					
V-489-8	5	860	5.33	43.2	36135	34472	34070	31515	28395	24640	17262	
V-4810-8	7-1/2	860	7.79	45.8	40274	37998	37446	34212	30205			
V-549-8	5	860	5.10	54.2	41512	39131	38534	35400	32091	28295		
V-5410-8	7.5	860	7.92	56.1	47284	44795	44176	40762	36949	32670		
V-5411-8	10	860	10.73	58.3	51131	49769	49427	47477	45468	43390	41058	
V-609-8	5	860	5.71	59.2	48125	45769	45189	41928	38448	34565		
V-6010-8	7-1/2	860	7.53	64.1	54271	51655	50998	47675	44201	40405		
V-6011-8	10	860	10.88	64.1	60764	58490	57920	54716	51150	47030	40852	

**REMOTE DRIVE UNITS AVAILABLE - (SEE CATALOG HV00 & VBO-01)**

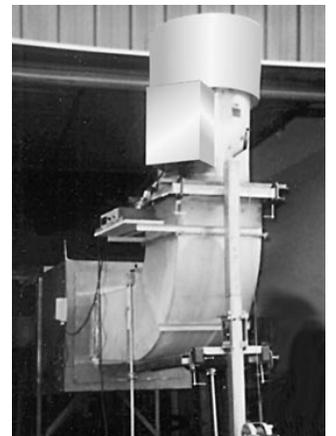


**MODEL VBO  
MODEL VBO-HV**

**Romlair Model VBO** – Motor out of airstream upblast exhaust fans are designed to operate reliably in hostile environments where motor and drive need protection due to high temperatures of contaminated air.

**Romlair Model VBO-HV** – High temperature construction - U.L. Listed “Power Ventilator For Smoke Control Systems” Includes Snow Load Test for Damper in UL-793. This unit meets specifications for the Uniform Fire Code Standard 81-3 (Mechanical Smoke-Removal Systems) where the exhaust fans will provide continued operation for not less than 15 minutes while exposed to a temperature of 1,000° F.

**Test setup with Vertiblow Heat & Smoke Exhauster mounted at top. Independent tests proved operation at elevated temperatures without failure.**



## MODEL V 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** - Minimizes 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. Extended height curbs are available to raise motor and drive components to roof level, avoiding any obstructions. Specify self-flashing (Type SFE) and roofed over (Type CFE).

**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.

## SPECIFICATIONS

Axial type roof mounted hooded exhaust fans shall be direct driven and incorporate a non-sparking cast aluminum airfoil propeller.

Propellers shall be statically and dynamically balanced. The all welded motor support structure shall consist of heavy gauge motor plate supported by heavy duty struts, welded to a deep spun orifice for greater airflow efficiency. Windbands shall be constructed of heavy gauge galvanized steel and beaded for additional strength. The Windband shall be easily removable to gain access to the fan through the butterfly dampers. The weather sealing dampers, with water runoff troughs, shall provide complete weather sealing when closed. Housing construction shall be of galvanized steel and be protected by a high performance polyurethane coating. Fans shall be Model V 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.

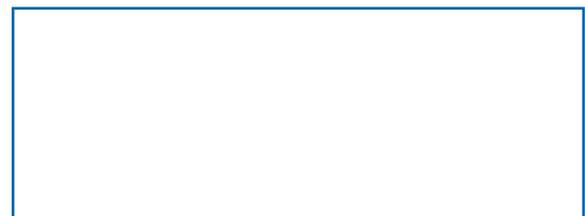


**WARNING! DO NOT USE IN HAZARDOUS ENVIRONMENTS** where fans electrical system could provide ignition to combustible or flammable materials, unless unit is specifically built for hazardous environments. Guards must be installed when fan is within reach of personnel or within seven (7) feet of working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



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