

DOMAIR

A New Wave In Air Movement



MODEL RPV Penthouse Ventilator

Intake and Relief Applications

MODEL RPV – Extruded Aluminum Penthouses



Model RPV

APPLICATIONS

RomLair aluminum louvered penthouses feature low silhouette architecturally appealing styling for exhaust relief or air intake ventilation. They are also frequently used as gravity ventilators, fan discharge or intake caps, and enclosures to house roof-mounted fans and other equipment.

The Model RPV comes standard with assembled construction (Type A) as shown above. Optional (Type K.D.) construction is available.

Both fully assembled and knocked down design provide storm resistant construction.

HOW TO SELECT TYPE RPV UNITS

The performance table in this catalog provides CFM versus required static pressure for all the sizes listed. In addition RomLair offers an online selection program to assist in sizing.

STANDARD FEATURES

- Modern louvered design preferred by architects
- .080 extruded aluminum louvers (mill finish) and .080 extruded aluminum base (mill finish)
- Welded mitered corners
- Heavy gauge aluminum top (.063)
- 1/2" Mesh galvanized birdscreen

CALCULATING SIZES FOR SPECIFIC APPLICATIONS

1. From Table 1, determine the neck velocity in feet per minute for the allowable static pressure supplied within the air moving system.

Table 1 – Neck Velocity vs. Static Pressure Drop

Velocity	STATIC PRESSURE DROP							
	0.031	0.062	0.093	0.125	0.187	0.250	0.313	0.375
Relief	482	682	835	968	1010	1370	1530	1677
Intake	411	581	712	825	1185	1168	1304	1470

*Table 1 shows the velocity of the air which can be moved by a given static pressure. This velocity can also be calculated by the below equations.

$$\text{Relief neck velocity (FPM)} = 2740 \sqrt{SP}$$

$$\text{Intake neck velocity (FPM)} = 2336 \sqrt{SP}$$

2. Calculate neck area. Divide CFM by neck velocity from step (1).

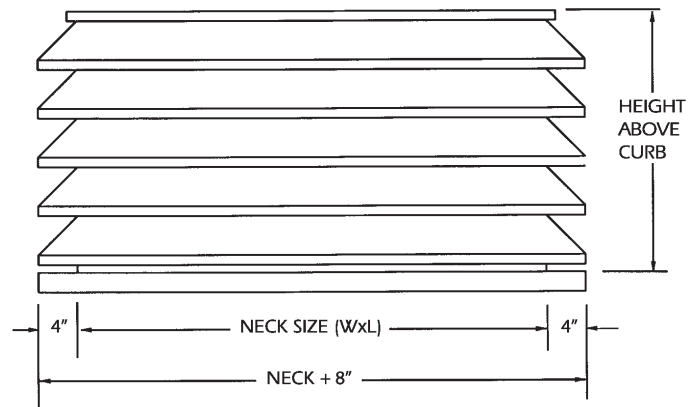
$$\text{Neck area} = \frac{\text{CFM}}{\text{Neck Velocity}}$$

3. For desired neck area, choose a specific size and quantity to meet job requirements.

Dimensional Drawing

Tiers	HT Above Curb
2	11
3	15-1/2
4	20
5	24-1/2
6	29
7	33-1/2
8	38
9	42-1/2
10	47

See performance table on opposite page for Tier Height



OPTIONAL ACCESSORIES

INSULATED REMOVABLE COVER – Underside is insulated with 1/2" Insulation.

ALUMINUM BIRDSCREEN – When specified, aluminum 1/2 mesh birdscreen can be used in lieu of the standard galvanized birdscreen.

INSECT SCREEN – Can be furnished to repel insects.

ALUMINUM INTAKE FILTERS – Where filtered intake air is required, 1" or 2" washable aluminum filters are available. Filters are easily removable and washable.

PRFABRICATED ROOF CURBS – Curbs are welded 18 gauge galvanized steel: available as self-flashing type (Type SF) or as Roofed-Over-Flashing type with build-in cant strip and wood nailer (Type CF). 1-1/2" insulation is standard on all roof curbs. Use Type SF curbs only on single or double pitch roof slopes.

BACKDRAFT DAMPERS – Model RBD (Relief) and RBDS (Intake) with a motorized 115v option is available.

VENTILATION LINE Romla Ventilator offers a very comprehensive warehouse ventilation line. From the intake louvers in the wall to the power roof ventilators on the roof, Romlair can provide all the products to efficiency move the air flow in your facility.



Model RPV



Model RSV



Model VBO & VBO-HV



Model P & PA



Model HFS

MODEL RPV – Extruded aluminum louvered penthouse features low silhouette architecturally appealing styling for exhaust relief or air intake ventilation.

MODEL RSV – Is a spun aluminum roof mounted gravity ventilator to be used on intake or relief applications. Attractive low silhouette design harmonizes with modern building design.

MODEL VBO-HV – Available with U.L. Listing for "Power Ventilators For Smoke Control Systems". Heat and smoke exhauster is designed to meet the high temperature requirements of the Uniform Fire Code and IRI recommendations. Independently tested to operate without failure at 500°F for a minimum of 4 hours, and 1,000°F for a minimum of 15 minutes.

SIDEWALL FAN WITH HOUSING – Model P, PA & PS Panel fan available in sizes 24" to 72", with high air volumes up to 100,000 cfm. Accessories include Wall Housings, Wall collar, Dampers, Motor Side Guard, Weatherhood, and special coatings.

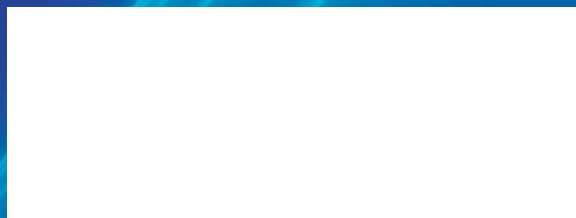
HOODED SUPPLY AND EXHAUST FANS – Model H Series power roof ventilators available in sizes 24" thru 72", 2,500 cfm to 60,000 cfm. The model HFS features 2" washable filters.

SPECIFICATIONS Contractors shall furnish and install, where shown on the plans, Model ST hooded intake-relief ventilators as manufactured by Romla Ventilator Company. Construction shall be sound and substantial. All hoods shall be spot welded or riveted at the ends. Vertical base seams shall be continuously welded on larger units, with spot welded construction on small sizes. Hoods on larger units shall be reinforced with interior structural supports and use standing seams where sheets are joined. Hoods shall be fastened to the throat with sheet metal fasteners for easy removal. 1/2" mesh 19 ga. galvanized birdscreen shall be installed as standard. Optional accessories shall include: factory built curb, backdraft dampers, insect screen, protective coating.

1 YEAR WARRANTY 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 the cost of repairs made or attempted outside the factory, without authorization from Romla Company.

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

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