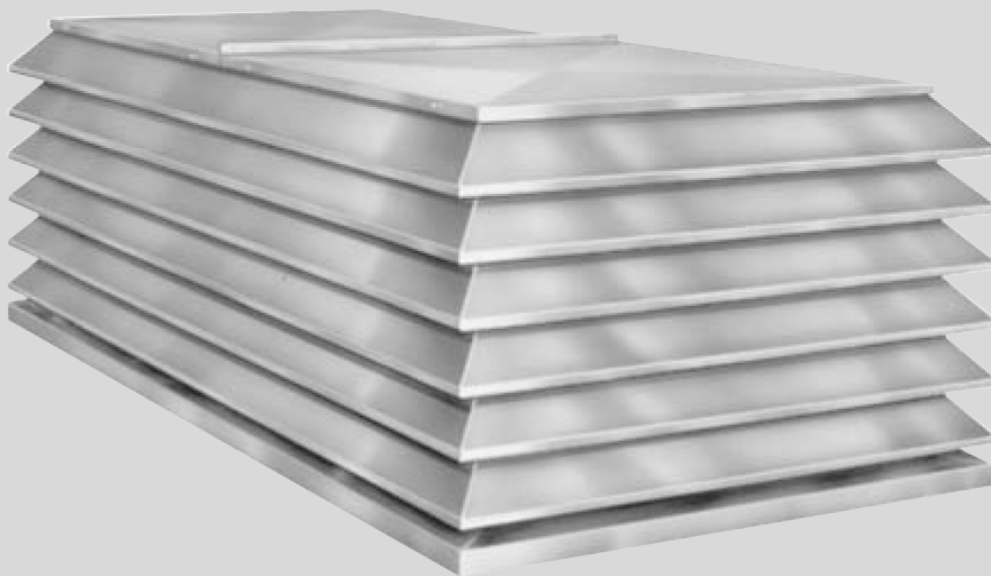


Model RPV Penthouse Vent



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Model RPV Penthouse Vent

Model RPV Penthouse Vent Description

PRODUCT DESCRIPTION

Model RPV 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.

STANDARD FEATURES

- Design: Modern louvered design preferred by architects
- Blades: .080 extruded aluminum louvers (mill finish)
- Base: .080 extruded aluminum base (mill finish)
- Structure: Welded mitered corners
- Material: Heavy gauge aluminum top (.063)
- Bird Screen: 1/2" Mesh galvanized

OPTIONAL FEATURES

- Ships
 - Knocked-Down
 - Full Assembled

BENEFITS

- Compatible with spun dome power roof ventilators.
- Designed for minimum resistance to airflow.
- Shroud constructed of heavy gauge aluminum with a beaded edge for maximum strength.

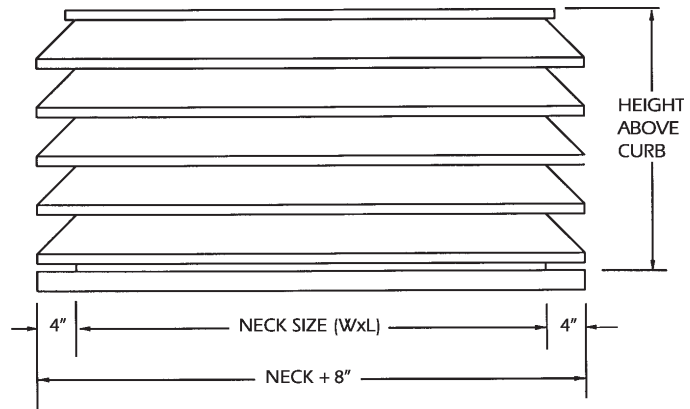
INDUSTRY APPLICATION

- | | |
|---------------------------|----------------|
| • Wastewater Treatment | • Hospitals |
| • Port Storage Facilities | • Schools |
| • Coastal Environments | • Laboratories |

Model RPV Penthouse Vent

Model RPV Dimensional Data & Features

Tiers	Height
1	11
2	15.5
3	20
4	24.5
5	29
6	33.5
7	38
8	42.5
9	47



1. From Table 1, determine the neck velocity in feet per minute for the allowable static pressure supplied within the air moving system.
 - i. Relief neck velocity (FPM) = 2740 VSP
 - ii. Intake neck velocity (FPM) = 2336 VSP
2. Calculate neck area. Divide CFM by neck velocity from step (1). (Neck Area = CFM / Neck Velocity)
3. For desired neck area, choose a specific size and quantity to meet job requirements.

STATIC PRESSURE DROP

VELOCITY	0.031	0.062	0.093		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.

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.

Model RPV Relief Dimensional Data & Features

WIDTH	LENGTH	TIRS	Sq. Ft.	0.031	0.062	0.093	0.125	0.187	0.250	0.313	0.375
12	12	2	1	482	682	835	968	1010	1370	1530	1677
12	18	2	1.5	723	1023	1253	1452	1515	2055	2295	2516
12	24	2	2	964	1364	1670	1936	2020	2740	3060	3354
14	14	3	1.36	656	928	1136	1316	1374	1863	2081	2281
14	18	3	1.75	844	1194	1461	1694	1768	2398	2678	2935
14	24	3	2.33	1123	1589	1946	2255	2353	3192	3565	3907
16	16	3	1.77	853	1207	1478	1713	1788	2425	2708	2968
16	18	3	2	964	1364	1670	1936	2020	2740	3060	3354
16	24	3	2.66	1282	1814	2221	2575	2687	3644	4070	4461
18	18	3	2.25	1085	1535	1879	2178	2273	3083	3443	3773
18	24	3	3	1446	2046	2505	2904	3030	4110	4590	5031
18	30	3	3.75	1808	2558	3131	3630	3788	5138	5738	6289
18	36	3	4.5	2169	3069	3758	4356	4545	6165	6885	7547
24	24	3	4	1928	2728	3340	3872	4040	5480	6120	6708
24	30	3	5	2410	3410	4175	4840	5050	6850	7650	8385
24	36	3	6	2892	4092	5010	5808	6060	8220	9180	10062
24	42	3	7	3374	4774	5845	6776	7070	9590	10710	11739
24	48	3	8	3856	5456	6680	7744	8080	10960	12240	13416
30	30	4	6.25	3013	4263	5219	6050	6313	8563	9563	10481
30	36	4	7.5	3615	5115	6263	7260	7575	10275	11475	12578
30	42	4	8.75	4218	5968	7306	8470	8838	11988	13388	14674
30	48	4	10	4820	6820	8350	9680	10100	13700	15300	16770
30	54	4	11.25	5423	7673	9394	10890	11363	15413	17213	18866
30	60	4	12.5	6025	8525	10438	12100	12625	17125	19125	20963
36	36	4	9	4338	6138	7515	8712	9090	12330	13770	15093
36	42	4	10.5	5061	7161	8768	10164	10605	14385	16065	17609
36	48	4	12	5784	8184	10020	11616	12120	16440	18360	20124
36	54	4	13.5	6507	9207	11273	13068	13635	18495	20655	22640
36	60	4	15	7230	10230	12525	14520	15150	20550	22950	25155
36	72	4	18	8676	12276	15030	17424	18180	24660	27540	30186
36	84	5	21	10122	14322	17535	20328	21210	28770	32130	35217
36	96	5	24	11568	16368	20040	23232	24240	32880	36720	40248
42	42	4	12.25	5905	8355	10229	11858	12373	16783	18743	20543
42	48	4	14	6748	9548	11690	13552	14140	19180	21420	23478
42	54	4	15.75	7592	10742	13151	15246	15908	21578	24098	26413
42	60	4	17.5	8435	11935	14613	16940	17675	23975	26775	29348
42	72	4	21	10122	14322	17535	20328	21210	28770	32130	35217
42	84	5	24.5	11809	16709	20458	23716	24745	33565	37485	41087
42	96	5	28	13496	19096	23380	27104	28280	38360	42840	46956
48	48	5	16	7712	10912	13360	15488	16160	21920	24480	26832
48	54	5	18	8676	12276	15030	17424	18180	24660	27540	30186
48	60	5	20	9640	13640	16700	19360	20200	27400	30600	33540
48	72	5	24	11568	16368	20040	23232	24240	32880	36720	40248
48	84	6	28	13496	19096	23380	27104	28280	38360	42840	46956
48	96	6	32	15424	21824	26720	30976	32320	43840	48960	53664
54	54	5	20.25	9761	13811	16909	19602	20453	27743	30983	33959
54	60	5	22.5	10845	15345	18788	21780	22725	30825	34425	37733
54	72	5	27	13014	18414	22545	26136	27270	36990	41310	45279
54	84	6	31.5	15183	21483	26303	30492	31815	43155	48195	52826
54	96	6	36	17352	24552	30060	34848	36360	49320	55080	60372
54	108	7	40.5	19521	27621	33818	39204	40905	55485	61965	67919

Model RPV Relief Dimensional Data & Features cont.

WIDTH	LENGTH	TIERS	Sq. Ft.	0.031	0.062	0.093	0.125	0.187	0.250	0.313	0.375
60	60	6	25	12050	17050	20875	24200	25250	34250	38250	41925
60	72	6	30	14460	20460	25050	29040	30300	41100	45900	50310
60	84	6	35	16870	23870	29225	33880	35350	47950	53550	58695
60	96	7	40	19280	27280	33400	38720	40400	54800	61200	67080
60	108	7	45	21690	30690	37575	43560	45450	61650	68850	75465
60	120	7	50	24100	34100	41750	48400	50500	68500	76500	83850
72	72	6	36	17352	24552	30060	34848	36360	49320	55080	60372
72	84	7	42	20244	28644	35070	40656	42420	57540	64260	70434
72	96	7	48	23136	32736	40080	46464	48480	65760	73440	80496
72	108	8	54	26028	36828	45090	52272	54540	73980	82620	90558
72	120	8	60	28920	40920	50100	58080	60600	82200	91800	100620
72	144	8	72	34704	49104	60120	69696	72720	98640	110160	120744
84	84	7	49	23618	33418	40915	47432	49490	67130	74970	82173
84	96	8	56	26992	38192	46760	54208	56560	76720	85680	93912
84	108	8	63	30366	42966	52605	60984	63630	86310	96390	105651
84	120	8	70	33740	47740	58450	67760	70700	95900	107100	117390
84	144	9	84	40488	57288	70140	81312	84840	115080	128520	140868
96	96	8	64	30848	43648	53440	61952	64640	87680	97920	107328
96	108	9	72	34704	49104	60120	69696	72720	98640	110160	120744
96	120	9	80	38560	54560	66800	77440	80800	109600	122400	134160
96	144	9	96	46272	65472	80160	92928	96960	131520	146880	160992

Model RPV Penthouse Vent

Model RPV Intake Dimensional Data & Features

WIDTH	LENGTH	TIERS	Sq. Ft.	0.031	0.062	0.093	0.125	0.187	0.250	0.313	0.375
12	12	2	1	411	581	712	825	1185	1168	1304	1470
12	18	2	1.5	617	872	1068	1238	1778	1752	1956	2205
12	24	2	2	822	1162	1424	1650	2370	2336	2608	2940
14	14	3	1.36	559	790	968	1122	1612	1588	1773	1999
14	18	3	1.75	719	1017	1246	1444	2074	2044	2282	2573
14	24	3	2.33	958	1354	1659	1922	2761	2721	3038	3425
16	16	3	1.77	727	1028	1260	1460	2097	2067	2308	2602
16	18	3	2	822	1162	1424	1650	2370	2336	2608	2940
16	24	3	2.66	1093	1545	1894	2195	3152	3107	3469	3910
18	18	3	2.25	925	1307	1602	1856	2666	2628	2934	3308
18	24	3	3	1233	1743	2136	2475	3555	3504	3912	4410
18	30	3	3.75	1541	2179	2670	3094	4444	4380	4890	5513
18	36	3	4.5	1850	2615	3204	3713	5333	5256	5868	6615
24	24	3	4	1644	2324	2848	3300	4740	4672	5216	5880
24	30	3	5	2055	2905	3560	4125	5925	5840	6520	7350
24	36	3	6	2466	3486	4272	4950	7110	7008	7824	8820
24	42	3	7	2877	4067	4984	5775	8295	8176	9128	10290
24	48	3	8	3288	4648	5696	6600	9480	9344	10432	11760
30	30	4	6.25	2569	3631	4450	5156	7406	7300	8150	9188
30	36	4	7.5	3083	4358	5340	6188	8888	8760	9780	11025
30	42	4	8.75	3596	5084	6230	7219	10369	10220	11410	12863
30	48	4	10	4110	5810	7120	8250	11850	11680	13040	14700
30	54	4	11.25	4624	6536	8010	9281	13331	13140	14670	16538
30	60	4	12.5	5138	7263	8900	10313	14813	14600	16300	18375
36	36	4	9	3699	5229	6408	7425	10665	10512	11736	13230
36	42	4	10.5	4316	6101	7476	8663	12443	12264	13692	15435
36	48	4	12	4932	6972	8544	9900	14220	14016	15648	17640
36	54	4	13.5	5549	7844	9612	11138	15998	15768	17604	19845
36	60	4	15	6165	8715	10680	12375	17775	17520	19560	22050
36	72	4	18	7398	10458	12816	14850	21330	21024	23472	26460
36	84	5	21	8631	12201	14952	17325	24885	24528	27384	30870
36	96	5	24	9864	13944	17088	19800	28440	28032	31296	35280
42	42	4	12.25	5035	7117	8722	10106	14516	14308	15974	18008
42	48	4	14	5754	8134	9968	11550	16590	16352	18256	20580
42	54	4	15.75	6473	9151	11214	12994	18664	18396	20538	23153
42	60	4	17.5	7193	10168	12460	14438	20738	20440	22820	25725
42	72	4	21	8631	12201	14952	17325	24885	24528	27384	30870
42	84	5	24.5	10070	14235	17444	20213	29033	28616	31948	36015
42	96	5	28	11508	16268	19936	23100	33180	32704	36512	41160
48	48	5	16	6576	9296	11392	13200	18960	18688	20864	23520
48	54	5	18	7398	10458	12816	14850	21330	21024	23472	26460
48	60	5	20	8220	11620	14240	16500	23700	23360	26080	29400
48	72	5	24	9864	13944	17088	19800	28440	28032	31296	35280
48	84	6	28	11508	16268	19936	23100	33180	32704	36512	41160
48	96	6	32	13152	18592	22784	26400	37920	37376	41728	47040
54	54	5	20.25	8323	11765	14418	16706	23996	23652	26406	29768
54	60	5	22.5	9248	13073	16020	18563	26663	26280	29340	33075
54	72	5	27	11097	15687	19224	22275	31995	31536	35208	39690
54	84	6	31.5	12947	18302	22428	25988	37328	36792	41076	46305
54	96	6	36	14796	20916	25632	29700	42660	42048	46944	52920
54	108	7	40.5	16646	23531	28836	33413	47993	47304	52812	59535

Model RPV Penthouse Vent

Model RPV Intake Dimensional Data & Features cont.

WIDTH	LENGTH	TIERS	Sq. Ft.	0.031	0.062	0.093	0.125	0.187	0.250	0.313	0.375
60	60	6	25	10275	14525	17800	20625	29625	29200	32600	36750
60	72	6	30	12330	17430	21360	24750	35550	35040	39120	44100
60	84	6	35	14385	20335	24920	28875	41475	40880	45640	51450
60	96	7	40	16440	23240	28480	33000	47400	46720	52160	58800
60	108	7	45	18495	26145	32040	37125	53325	52560	58680	66150
60	120	7	50	20550	29050	35600	41250	59250	58400	65200	73500
72	72	6	36	14796	20916	25632	29700	42660	42048	46944	52920
72	84	7	42	17262	24402	29904	34650	49770	49056	54768	61740
72	96	7	48	19728	27888	34176	39600	56880	56064	62592	70560
72	108	8	54	22194	31374	38448	44550	63990	63072	70416	79380
72	120	8	60	24660	34860	42720	49500	71100	70080	78240	88200
72	144	8	72	29592	41832	51264	59400	85320	84096	93888	105840
84	84	7	49	20139	28469	34888	40425	58065	57232	63896	72030
84	96	8	56	23016	32536	39872	46200	66360	65408	73024	82320
84	108	8	63	25893	36603	44856	51975	74655	73584	82152	92610
84	120	8	70	28770	40670	49840	57750	82950	81760	91280	102900
84	144	9	84	34524	48804	59808	69300	99540	98112	109536	123480
96	96	8	64	26304	37184	45568	52800	75840	74752	83456	94080
96	108	9	72	29592	41832	51264	59400	85320	84096	93888	105840
96	120	9	80	32880	46480	56960	66000	94800	93440	104320	117600
96	144	9	96	39456	55776	68352	79200	113760	112128	125184	141120