

MODEL RLX LOUVERED PENTHOUSE



Model RLX aluminum louvered penthouse provides a low silhouette and modern design for fresh air intake, pressure relief and gravity applications. With hundreds of optional lengths and heights available, the RLX is frequently used for enclosing unsightly rooftop equipment. The storm resistant aluminum louver design provides weather integrity when properly sized. Catalog capacity ranges from 395 to 69,500 CFM with much greater ranges available in custom sizes. Companion, louvered fan Model LSF offers continuity in rooftop equipment designs.

Construction/Specification Checklist

- All aluminum construction for weather resistance, long life and maintenance-free operation.
- Louvers are made from heavy-gauge aluminum.
- Corners are miter cut and heliarch welded for strength and weather protection.
- Cross-braced with heavy-gauge angle for strength and wind resistance.
- Top is cross-braced and rated to 30 pounds per square foot for snow load protection.
- 1/2" x 1" galvanized birdscreen. (Deleted when filters used).

Shipping

- Units with width of 84" and smaller are shipped assembled. Units with a width of 90" and larger are shipped in two pieces for field assembly, (Ex: 84 x 144 ships assembled 90 x 90 ships in 2 pieces)
- Knockdown units assemble with standard tools. Easy installation directions and fasteners are included.

Options/Accessories

Roof Curb: Prefabricated heavy-gauge galvanized steel, welded construction, 8" high (other heights are also available) with 1-1/2" wood nailer. Assures perfect fit of ventilator to roof opening. Options include burglar bars, single or double pitch construction and hinged curbs for easy duct access.

Motor Operated Damper: Motor operated aluminum damper for positive closure against backdraft.

Automatic Damper: Automatic aluminum damper for ease in installation and effective backdraft protection.

Special Coatings: Epoxy, Heresite and Synthetic Resin (formerly Eisenheiss) are available when special coatings are required.

Insulation: Mastic anti-condensate coating or 1" thick fiberglass insulation is added to underside of top to help prevent condensation.

Filters: Permanent type aluminum mesh filters attached to full perimeter of hood. Installed for easy cleaning. On air intake, add .15" to static pressure listed in the tables.

Insect/Weather Screen: Helps prevent insects and snow (in extreme conditions) from entering units. Add .10" to the static pressure tables for exhaust models and .05" for intake ventilators.

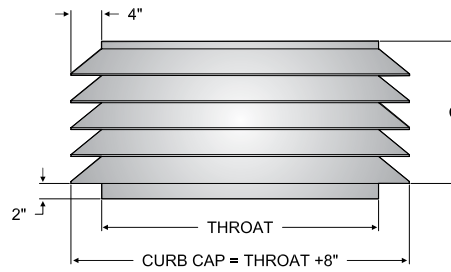
Access Section: Used for easier access when unit is used as an equipment cover.

Industry best 5 year fan housing warranty



PERFORMANCE/DIMENSIONS

Gravity Relief



Dimensional Data							Throat Velocity in FPM @ Static Pressure - Relief					
Throat Area	Throat Size	Curb Cap	Height C	No. Tiers	Outlet Area Sq. Ft.	Additional Outlet Area for Each Extra Louver	579	767	916	1104	1230	1390
							CFM @ Static Pressure - Relief					
							.040	.070	.100	.145	.180	.230
1.00	12 X 12	20 X 20	11	2	2.5	1.0	579	767	916	1104	1230	1390
1.50	12 X 18	20 X 26	11	2	2.8	1.2	869	1151	1374	1656	1845	2085
2.00	12 X 24	20 X 32	11	2	3.2	1.5	1158	1534	1832	2208	2460	2780
2.50	12 X 30	20 X 38	11	2	3.6	1.7	1448	1918	2290	2760	3075	3475
1.78	16 X 16	24 X 24	11	2	3.3	1.4	1029	1364	1628	1963	2187	2471
2.22	16 X 20	24 X 28	11	2	3.7	1.5	1287	1704	2036	2453	2733	3089
2.67	16 X 24	24 X 32	11	2	4.2	1.7	1544	2045	2443	2944	3280	3707
3.33	16 X 30	24 X 38	11	2	4.8	1.9	1930	2557	3053	3680	4100	4633
4.00	16 X 36	24 X 44	11	2	5.4	2.2	2316	3068	3664	4416	4920	5560
2.25	18 X 18	26 X 26	15 1/2	3	5.7	1.7	1303	1726	2061	2484	2768	3128
3.00	18 X 24	26 X 32	15 1/2	3	6.4	2.0	1737	2301	2748	3312	3690	4170
3.75	18 X 30	26 X 38	15 1/2	3	7.1	2.3	2171	2876	3435	4140	4613	5213
4.50	18 X 36	26 X 44	15 1/2	3	7.8	2.6	2606	3452	4122	4968	5535	6255
4.00	24 X 24	32 X 32	15 1/2	3	8.4	2.3	2316	3068	3664	4416	4920	5560
5.00	24 X 30	32 X 38	15 1/2	3	7.8	2.6	2895	3835	4580	5520	6150	6950
6.00	24 X 36	32 X 44	15 1/2	3	8.4	2.9	3474	4602	5496	6624	7380	8340
7.00	24 X 42	32 X 50	15 1/2	3	9.1	3.2	4053	5369	6412	7728	8610	9730
8.00	24 X 48	32 X 56	15 1/2	3	9.8	3.5	4632	6136	7328	8832	9840	11120
6.25	30 X 30	38 X 38	20	4	12.1	2.9	3619	4794	5725	6900	7688	8688
7.50	30 X 36	38 X 44	20	4	13.1	3.2	4343	5753	6870	8280	9225	10425
8.75	30 X 42	38 X 50	20	4	14.1	3.5	5066	6711	8015	9660	10763	12163
10.00	30 X 48	38 X 56	20	4	15.0	3.8	5790	7670	9160	11040	12300	13900
11.25	30 X 54	38 X 62	20	4	16.0	4.0	6514	8629	10305	12420	13838	15638
12.50	30 X 60	38 X 68	20	4	16.9	4.4	7238	9588	11450	13800	15375	17375
9.00	36 X 36	44 X 44	20	4	14.0	3.5	5211	6903	8244	9936	11070	12510
10.50	36 X 42	44 X 50	20	4	15.0	3.8	36080	8054	9618	11592	12915	14595
12.00	36 X 48	44 X 56	20	4	16.0	4.0	6948	9204	10992	13248	14760	16680
13.50	36 X 54	44 X 62	20	4	17.0	4.4	7817	10355	12366	14904	16605	18765
15.00	36 X 60	44 X 68	20	4	17.9	4.6	8685	11505	13740	16680	18450	20850
16.50	36 X 66	44 X 74	20	4	18.7	4.9	9554	12656	15114	18216	20295	22935
18.00	36 X 72	44 X 80	20	4	19.8	5.2	10422	13806	16488	19872	22140	25020
12.25	42 X 42	50 X 50	20	4	16.0	4.0	7093	9396	11221	13524	15068	17028
15.75	42 X 54	50 X 62	20	4	17.9	4.6	9119	12080	14427	17388	19373	21893
17.50	42 X 60	50 X 68	20	4	18.8	4.9	10133	13423	16030	19320	21525	24325
19.25	42 X 66	50 X 74	20	4	19.8	5.2	11146	14765	17633	21252	23678	26758
21.00	42 X 72	50 X 80	20	4	20.8	5.5	12159	16107	19236	23184	25830	29190
22.75	42 X 78	50 X 86	24 1/2	5	25.0	5.7	13172	17449	20839	25116	27983	31623
24.50	42 X 84	50 X 92	24 1/2	5	26.2	5.8	14186	18792	22442	27048	30135	34055
16.00	48 X 48	56 X 56	24 1/2	5	23.3	4.6	9264	12272	14656	17664	19680	22240
18.00	48 X 54	56 X 62	24 1/2	5	24.6	4.9	10422	13806	16488	19872	22140	25020
20.00	48 X 60	56 X 68	24 1/2	5	25.8	5.2	11580	15340	18320	22080	24600	27800

Penthouse wider than 90" will ship in pieces.
 Assembly instructions and fasteners are included.

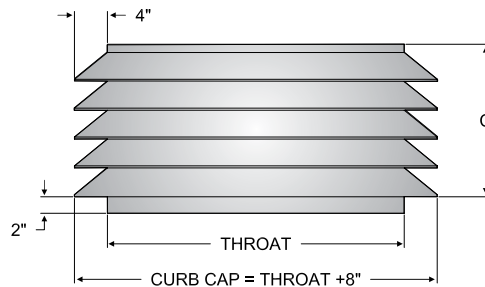
Dampers & Insect Screens - Add .10 to area shown in tables.
 Refer to page 258 for formulas for help in sizing.



Gravity Relief Cont.

Dimensional Data							Throat Velocity in FPM @ Static Pressure - Relief					
Throat Area	Throat Size	Curb Cap	Height C	No. Tiers	Outlet Area Sq. Ft.	Additional Outlet Area for Each Extra Louver	579	767	916	1104	1230	1390
							CFM @Static Pressure - Relief					
							.040	.070	.100	.145	.125	.20
22.00	48 X 66	56 X 74	24 1/2	5	27.1	5.5	12738	16874	20152	24288	27060	30580
24.00	48 X 72	56 X 80	24 1/2	5	28.4	5.8	13896	18408	21984	24696	29520	33360
26.00	48 X 78	56 X 86	29	6	29.6	6.1	15054	19942	23816	28704	31980	36140
28.00	48 X 84	56 X 92	29	6	32.4	6.4	16212	21476	25648	30912	34440	38920
30.00	48 X 90	56 X 98	29	6	35.4	6.7	17370	23010	27480	33120	36900	41700
32.00	48 X 96	56 X 104	29	6	37.0	7.0	18528	24544	29312	35328	39360	44480
20.25	54 X 54	62 X 62	24 1/2	5	25.8	5.2	11725	15532	18549	22356	24908	28148
22.50	54 X 60	62 X 68	24 1/2	5	27.1	5.5	13028	17258	20610	24840	27675	31275
24.75	54 X 66	62 X 74	24 1/2	5	28.3	5.8	14330	18983	22671	27324	30443	34403
27.00	54 X 72	62 X 80	24 1/2	5	29.6	6.1	15633	20709	24732	29808	33210	37530
29.25	54 X 78	62 X 86	29	6	32.4	6.4	16936	22435	26793	32292	35978	40658
31.50	54 X 84	62 X 92	29	6	35.5	6.7	18239	24161	28854	34776	38745	43785
36.00	54 X 96	62 X 104	29	6	38.5	7.3	20844	27612	32976	39744	44280	50040
40.50	54 X 108	62 X 116	33 1/2	7	49.5	7.9	23450	31064	37098	44712	49815	56295
25.00	60 X 60	68 X 68	29	6	35.0	5.9	14475	19175	22900	27600	30750	34750
27.50	60 X 66	68 X 74	29	6	36.5	6.1	15923	21093	25190	30360	33825	38225
30.00	60 X 72	68 X 80	29	6	38.0	6.4	17370	23010	27480	33120	36900	41700
35.00	60 X 84	68 X 92	29	6	37.0	7.0	20265	26845	32060	38640	43050	48650
40.00	60 X 96	68 X 104	33 1/2	7	47.6	7.6	23160	30680	36640	44160	49200	55600
45.00	60 X 108	68 X 116	33 1/2	7	51.5	8.2	26055	34515	41220	49680	55350	62550
50.00	60 X 120	68 X 128	33 1/2	7	55.0	8.7	28950	38350	45800	55200	61500	69500

Gravity Intake



Dimensional Data							Throat Velocity in FPM @ Static Pressure - Intake					
Throat Area	Throat Size	Curb Cap	Height C	No. Tiers	Outlet Area Sq. Ft.	Additional Outlet Area for Each Extra Louver	395	559	684	791	912	1021
							CFM @Static Pressure - Intake					
							.030	.060	.090	.120	.160	.200
1.00	12 X 12	20 X 20	11	2	2.5	1.0	395	559	684	791	912	1021
1.50	12 X 18	20 X 26	11	2	2.8	1.2	593	839	1026	1187	1368	1532
2.00	12 X 24	20 X 32	11	2	3.2	1.5	790	1118	1368	1582	1824	2042
2.50	12 X 30	20 X 38	11	2	3.6	1.7	988	1398	1710	1978	2280	2553
1.78	16 X 16	24 X 24	11	2	3.3	1.4	702	994	1216	1406	1621	1815
2.22	16 X 20	24 X 28	11	2	3.7	1.5	878	1242	1520	1758	2027	2269
2.67	16 X 24	24 X 32	11	2	4.2	1.7	1053	1491	1824	2109	2432	2723
3.33	16 X 30	24 X 38	11	2	4.8	1.9	1317	1863	2280	2637	3040	3403
4.00	16 X 36	24 X 44	11	2	5.4	2.2	1580	2236	2736	3164	3648	4084
2.25	18 X 18	26 X 26	15 1/2	3	5.7	1.7	889	1258	1539	1780	2052	2297
3.00	18 X 24	26 X 32	15 1/2	3	6.4	2.0	1185	1677	2052	2373	2736	3063

Penthouse wider than 90" will ship in pieces.
 Assembly instructions and fasteners are included.

Dampers & Insect Screens - Add .10 to area shown in tables.
 Refer to page 258 for formulas for help in sizing.



Gravity Intake Cont.

Dimensional Data							Throat Velocity in FPM @ Static Pressure - Intake					
Throat Area	Throat Size	Curb Cap	Height C	No. Tiers	Outlet Area Sq. Ft.	Additional Outlet Area for Each Extra Louver	395	559	684	791	912	1021
							CFM @Static Pressure - Intake					
							.030	.060	.090	.120	.160	.200
3.75	18 X 30	26 X 38	15 1/2	3	7.1	2.3	1481	2096	2565	2966	3420	3829
4.50	18 X 36	26 X 44	15 1/2	3	7.8	2.6	1778	2516	3078	3560	4104	45995
4.00	24 X 24	32 X 32	15 1/2	3	8.4	2.3	1580	2236	2736	3164	3648	4084
5.00	24 X 30	32 X 38	15 1/2	3	7.8	2.6	1975	2795	3420	3955	4560	5105
6.00	24 X 36	32 X 44	15 1/2	3	8.4	2.9	2370	3354	4104	4746	5472	6126
7.00	24 X 42	32 X 50	15 1/2	3	9.1	3.2	2765	3913	4788	5537	6384	7147
8.00	24 X 48	32 X 56	15 1/2	3	9.8	3.5	3160	4472	5472	6328	7296	8168
6.25	30 X 30	38 X 38	20	4	12.1	2.9	2469	3494	4275	4944	5700	6381
7.50	30 X 36	38 X 44	20	4	13.1	3.2	2963	4193	5130	5933	6840	7658
8.75	30 X 42	38 X 50	20	4	14.1	3.5	3456	4891	5985	6921	7980	8934
10.00	30 X 48	38 X 56	20	4	15.0	3.8	3950	5590	6840	7910	9120	10210
11.25	30 X 54	38 X 62	20	4	16.0	4.0	4444	6289	7695	8899	10260	11486
12.50	30 X 60	38 X 68	20	4	16.9	4.4	4938	6988	8550	9888	11400	12763
9.00	36 X 36	44 X 44	20	4	14.0	3.5	3555	5031	6156	7119	8208	9189
10.50	36 X 42	44 X 50	20	4	15.0	3.8	4148	5870	7182	8306	9576	10721
12.00	36 X 48	44 X 56	20	4	16.0	4.0	4740	6708	8208	9492	10944	12252
13.50	36 X 54	44 X 62	20	4	17.0	4.4	5333	7547	9234	10679	12312	13784
15.00	36 X 60	44 X 68	20	4	17.9	4.6	5925	8385	10260	11865	13680	15315
16.50	36 X 66	44 X 74	20	4	18.7	4.9	6518	9224	11286	13052	15048	16847
18.00	36 X 72	44 X 80	20	4	19.8	5.2	7110	10062	12312	14238	16416	18378
12.25	42 X 42	50 X 50	20	4	16.0	4.0	4839	6848	8379	9690	11172	12507
15.75	42 X 54	50 X 62	20	4	17.9	4.6	6221	8804	10773	12458	14364	16081
17.50	42 X 60	50 X 68	20	4	18.8	4.9	6913	9783	11970	13843	15960	17868
19.25	42 X 66	50 X 74	20	4	19.8	5.2	7604	10761	13167	15227	17556	19654
21.00	42 X 72	50 X 80	20	4	20.8	5.5	8295	11739	14364	16611	19152	21441
22.75	42 X 78	50 X 86	24 1/2	5	25.0	5.8	8986	12717	15561	17995	20748	23228
24.50	42 X 84	50 X 92	24 1/2	5	26.2	5.9	9678	13696	16758	19380	22344	25015
16.00	48 X 48	56 X 56	24 1/2	5	23.3	4.6	6320	8944	10944	12656	14592	16336
18.00	48 X 54	56 X 62	24 1/2	5	24.6	4.9	7110	10062	12312	14238	16416	18378
20.00	48 X 60	56 X 68	24 1/2	5	25.8	5.2	7900	11180	13680	15820	18240	20420
22.00	48 X 66	56 X 74	24 1/2	5	27.1	5.5	8690	12298	15048	17402	20064	22462
24.00	48 X 72	56 X 80	24 1/2	5	28.4	5.8	9480	13416	16416	18984	21888	24504
26.00	48 X 78	56 X 86	29	6	29.6	6.1	10270	14534	17784	20566	23712	26546
28.00	48 X 84	56 X 92	29	6	32.4	6.4	11060	15652	19152	22148	25536	28588
30.00	48 X 90	56 X 98	29	6	35.4	6.7	11850	16770	20520	23730	27360	30630
32.00	48 X 96	56 X 104	29	6	37.0	7.0	12640	17888	21888	25312	29184	32672
20.25	54 X 54	62 X 62	24 1/2	5	25.8	5.2	7999	11320	13851	16018	18468	20675
22.50	54 X 60	62 X 68	24 1/2	5	27.1	5.5	8888	12578	15390	17798	20520	22973
24.75	54 X 66	62 X 74	24 1/2	5	28.3	5.8	9776	13835	16929	19577	22572	25270
27.00	54 X 72	62 X 80	24 1/2	5	29.6	6.1	10665	15093	18468	21357	24624	27567
29.25	54 X 78	62 X 86	29	6	32.4	6.4	11554	16351	20007	23137	26676	29864
31.50	54 X 84	62 X 92	29	6	35.5	6.7	12443	17609	21546	24917	28728	32162
36.00	54 X 96	62 X 104	29	6	38.5	7.3	14220	20124	24624	28476	32832	36756
40.50	54 X 108	62 X 116	33 1/2	7	49.5	7.9	15998	22640	27702	32036	36936	41351
25.00	60 X 60	68 X 68	29	6	35.0	5.9	9875	13975	17100	19775	22800	25525
27.50	60 X 66	68 X 74	29	6	36.5	6.1	10863	15373	18810	21753	25080	28078
30.00	60 X 72	68 X 80	29	6	38.0	6.4	11850	16770	20520	23730	27360	30630
35.00	60 X 84	68 X 92	29	6	37.0	7.0	13825	19565	23940	27685	31920	35735
40.00	60 X 96	68 X 104	33 1/2	7	47.6	7.6	15800	22360	27360	31640	36480	40840
45.00	60 X 108	68 X 116	33 1/2	7	51.5	8.2	17775	25155	30780	35595	41040	45945
50.00	60 X 120	68 X 128	33 1/2	7	55.0	8.7	19750	27950	34200	39550	45600	51050

Penthouse wider than 90" will ship in pieces.
 Assembly instructions and fasteners are included.

Dampers & Insect Screens - Add .10 to area shown in tables.
 Refer to page 258 for formulas for help in sizing.