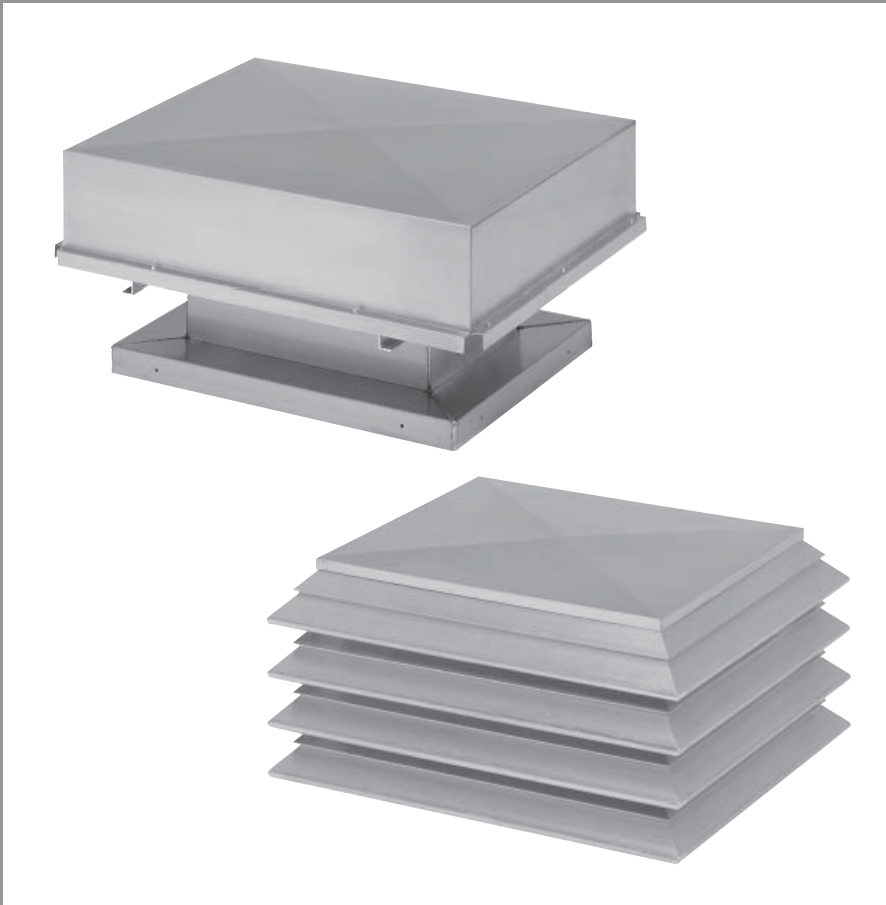


Twin City Fan & Blower

GRAVITY INTAKE & RELIEF VENTILATORS

TYPE TEH & TIH (Hooded)

TYPE TEL & TIL (Louvered Penthouse)



Gravity Intake & Relief Ventilators

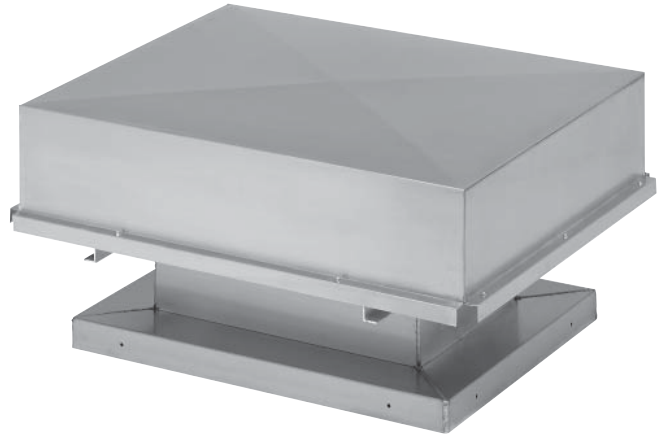
General Information

Type TEH and TEL units are used for exhaust or gravity relief. Type TIH and TIL units are used for fresh air intake.

Type TEH & TIH (Hooded)

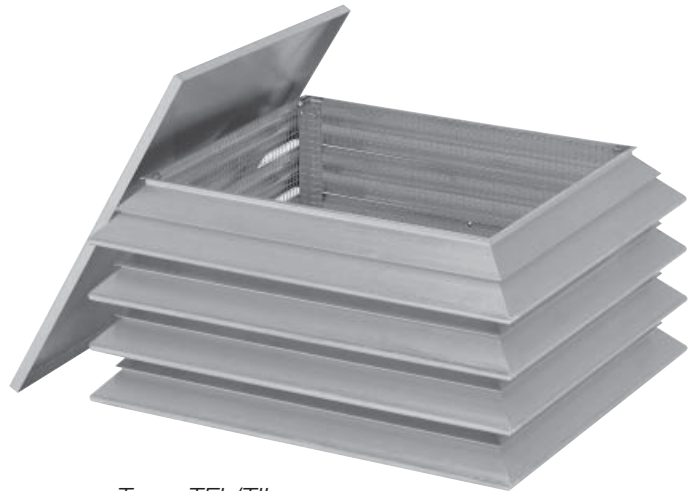
- Low silhouette design
- Full 360° perimeter hood opening for more reliable air flow performance
- Generously sized throat and hood perimeter for low resistance and more efficient air flow

Type TEH/TIH



Type TEL & TIL (Louvered Penthouse)

- Ventilators offer exhaust and intake capacities of up to 103,000 cfm
- Aerodynamically designed with generous air flow areas for efficient performance
- Louvered on all four sides for full 360° perimeter opening
- Multiple tiers for high air flow capacities
- Outstanding weather protection. (Louvered ventilators are reasonably weather tight. However, they are not recommended for use where airborne water droplets from storms or high winds may damage the interior of the building.)
- Vertical snow and storm baffle on base to guard against storm driven rain and snow
- Extruded louvers have double water and snow baffles for added weather protection



Type TEL/TIL

Construction Features

- Base constructed of .080" aluminum
- Hood constructed of .050" aluminum
- Removable .050" cross broke and reinforced aluminum hood on Type TEL and TIL
- .081" extruded aluminum louvers are precision miter cut and welded for maximum strength on Type TEL and TIL
- All curb cap corners are miter cut and continuous welded for strength and water tightness
- Hoods are reinforced and braced for extra rigidity and resistance to wind damage
- Large sizes of Type TEL and TIL are cross braced

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Gravity Intake & Relief Ventilators

internally for extra rigidity and resistance to wind damage

- All hoods, ventilators and enclosures are equipped with $\frac{1}{2}$ " x $\frac{1}{2}$ " mesh galvanized wire bird screen (omitted when equipped with filters)
- Shipped fully assembled for easy installation (overall hood/louver dimensions of 96" x 144" and smaller)

Options

- Hinged Hood (Type TEH and TIH only) - for easy access to backdraft dampers, filters, and screens
- Insulated Hood - reduces condensation. Rubberized anti-condensation undercoating or 1" fiberglass insulation. Available on all models.
- Filters - 1" or 2" thick permanent aluminum mesh mounted for easy cleaning (add .13" to static pressure listed in the tables when using filters on Type TIH ventilators and add .15" static pressure listed in the tables when using filters on Type TIL ventilators)
- Insect Screens - 18 mesh aluminum screen attached to the full perimeter opening of the hood or louver (add .10" to static pressure for Type TEH, add .05" to static pressure for Type TIH, add .08" to static pressure for Type TEL and add .03" to static pressure for Type TIL when using insect

screens)

- Aluminum Bird Screens - .050" thick $\frac{1}{2}$ " x 1" diamond shape expanded aluminum attached to the full perimeter of the hood opening and on the inside perimeter of louvered openings
- Decorative Coatings - Variety of colors of industrial grade enamels
- Galvanized Steel Construction on Type TEH and TIH
- 100 MPH Construction on Type TEH and TIH
- Special Sizes and Options - Consult factory for specific details and performance capabilities on custom sizes and options

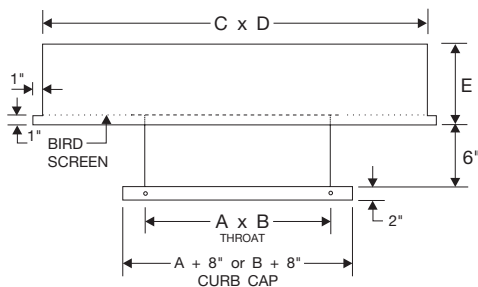
Protective Coatings

- Epoxy - a tough gray coating that is one of the best heavy duty multi-purpose finishes resistant to most chemicals and corrosives
- Eisenheiss - a synthetic resin that forms a tough coating offering better protection against most acids and corrosive agents
- Heresite - a black phenolic coating that has good resistance to heat, solvents, and concentrates of most acids except strong oxidizing agents (resistant to weak alkalis but not recommended for hydrofluoric acid or hypochlorite salts)

Dimensional Data

See tables for throat size, hood size, tiers and height dimensions.

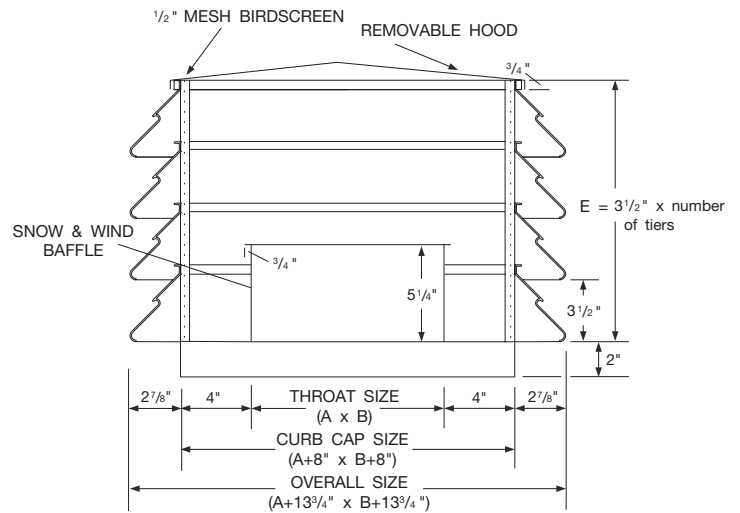
Type TEH and TIH



Curb Sizing

Curbs are sized by adding $6\frac{1}{2}$ " to the throat dimension ($A + B$). Example: An 18 " x 24 " throat would require a $24\frac{1}{2}$ " x $30\frac{1}{2}$ " roof curb.

Type TEL and TIL



Backdraft Damper Sizing

Backdraft dampers are sized by the throat dimension ($A + B$). Example: An 18 " x 24 " throat would require an 18 " x 24 " backdraft damper.

Dimensional and Performance Data - Type TEH

Exhaust/relief ventilators have a 1 to 1 ratio of hood perimeter opening to throat area. The maximum design air velocity is 1200 fpm.

THROAT SIZE A x B	HOOD SIZE			CFM @ STATIC PRESSURE			THROAT SIZE A x B	HOOD SIZE			CFM @ STATIC PRESSURE			THROAT SIZE A x B	HOOD SIZE			CFM @ STATIC PRESSURE		
	C	D	E	.05	.125	.25		C	D	E	.05	.125	.25		C	D	E	.05	.125	.25
12						16 x 24						20 x 80								
12 x 12	18	18	7	667	1054	1490	16 x 24	25	33	7	1668	2638	3730	20 x 80	34	94	9	5728	9057	12809
12 x 14	18	20	7	772	1220	1726	16 x 28	26	38	7	1950	3083	4360	20 x 84	35	98	9	5818	9199	13010
12 x 16	18	22	7	881	1394	1971	16 x 30	26	40	7	2088	3302	4670	20 x 96	35	111	9	6440	10182	14400
12 x 18	18	22	7	881	1394	1971	16 x 36	26	46	7	2370	3748	5300	20 x 108	35	123	9	7413	11722	16577
12 x 18	19	25	7	993	1570	2221	16 x 40	26	50	7	2656	4200	5940	20 x 120	36	136	9	8343	13191	18655
12 x 20	19	27	7	1059	1675	2368	16 x 42	26	52	7	2789	4410	6236	22						
12 x 22	19	29	7	1185	1874	2650	16 x 48	27	59	7	3190	5045	7134	22 x 22	32	32	9	2223	3515	4970
12 x 24	20	32	7	1252	1980	2800	16 x 54	27	65	7	3354	5303	7500	22 x 24	32	34	9	2342	3702	5236
12 x 28	20	36	7	1462	2312	3270	16 x 60	27	71	7	3578	5657	8000	22 x 28	33	39	9	2679	4236	5990
12 x 30	20	38	7	1565	2475	3500	16 x 66	28	78	7	3763	5949	8413	22 x 30	33	41	9	2871	4540	6420
12 x 36	21	45	7	1775	2807	3970	16 x 72	28	84	7	4105	6490	9178	22 x 36	34	48	9	3260	5155	7290
12 x 40	21	48	7	1954	3090	4370	16 x 80	28	92	7	4387	6937	9810	22 x 40	34	52	9	3508	5547	7845
12 x 42	22	52	7	2048	3239	4580	16 x 84	28	96	7	4655	7361	10410	22 x 42	36	56	9	3757	5940	8400
12 x 48	21	57	7	2392	3782	5348	16 x 96	28	108	7	5152	8146	11520	22 x 48	35	61	9	4214	6663	9423
12 x 54	22	64	7	2567	4059	5741	16 x 108	29	121	7	5578	8820	12473	22 x 54	36	68	9	4521	7149	10110
12 x 60	22	70	7	2798	4423	6255	16 x 120	29	133	7	6261	9899	14000	22 x 60	37	75	9	4919	7778	11000
12 x 66	22	76	7	2998	4740	6704	18						22 x 66	37	81	9	5277	8344	11800	
12 x 72	22	82	7	3204	5066	7165	18 x 18	26	26	8	1543	2439	3450	22 x 72	37	87	9	5756	9100	12870
12 x 80	22	90	7	3437	5434	7685	18 x 20	27	29	8	1690	2672	3779	22 x 80	38	96	9	6176	9765	13810
12 x 84	22	94	7	3719	5879	8315	18 x 22	27	31	8	1856	2934	4149	22 x 84	38	100	9	6532	10327	14605
12 x 96	22	106	7	4119	6513	9210	18 x 24	27	33	8	1917	3031	4287	22 x 96	38	112	9	7084	11201	15840
12 x 108	22	120	7	4448	7033	9946	18 x 28	28	38	8	2191	3465	4900	22 x 108	39	125	9	8155	12894	18235
12 x 120	22	132	7	4896	7741	10947	18 x 30	28	40	8	2348	3712	5250	22 x 120	39	137	9	8975	14191	20070
14						18 x 36						24								
14 x 14	20	20	7	919	1453	2055	18 x 40	29	51	8	2929	4632	6550	24 x 24	34	34	11	2456	3883	5491
14 x 16	20	22	7	1051	1662	2350	18 x 42	29	53	8	3077	4865	6880	24 x 28	35	39	11	2864	4528	6403
14 x 18	22	26	7	1181	1867	2640	18 x 48	30	60	8	3515	5558	7860	24 x 30	36	42	11	3070	4854	6864
14 x 20	22	28	7	1237	1955	2765	18 x 54	30	66	8	3852	6091	8614	24 x 36	37	49	11	3486	5512	7796
14 x 22	22	30	7	1386	2192	3100	18 x 60	30	72	8	4025	6364	9000	24 x 40	38	54	11	3904	6173	8730
14 x 24	22	32	7	1425	2253	3187	18 x 66	31	79	8	4232	6691	9463	24 x 42	38	56	11	4101	6484	9170
14 x 28	22	36	7	1671	2642	3736	18 x 72	31	85	8	4618	7301	10326	24 x 48	38	62	11	4687	7410	10480
14 x 30	23	39	7	1825	2885	4080	18 x 80	31	92	8	4955	7835	11081	24 x 54	39	69	11	5031	7955	11250
14 x 36	23	45	7	2075	3281	4640	18 x 84	31	97	8	5135	8119	11483	24 x 60	39	75	11	5367	8485	12000
14 x 40	23	49	7	2323	3673	5195	18 x 96	32	110	8	5577	8818	12471	24 x 66	40	82	11	5756	9100	12870
14 x 42	24	52	7	2393	3783	5350	18 x 108	32	122	8	6400	10119	14310	24 x 72	40	88	11	6279	9928	14040
14 x 48	24	58	7	2789	4410	6236	18 x 120	33	135	8	6907	10921	15444	24 x 80	40	96	11	6878	10876	15381
14 x 54	24	64	7	3059	4836	6839	20						24 x 84	40	100	11	6981	11038	15610	
14 x 60	24	70	7	3264	5160	7298	20 x 20	29	29	9	1802	2850	4030	24 x 96	41	113	11	7887	12471	17636
14 x 66	24	77	7	3502	5536	7830	20 x 22	29	31	9	1981	3132	4430	24 x 108	42	126	11	8709	13770	19473
14 x 72	24	84	7	3738	5911	8359	20 x 24	30	34	9	2177	3443	4869	24 x 120	42	138	11	9791	15481	21894
14 x 80	25	92	7	4012	6344	8971	20 x 28	31	39	9	2536	4010	4672	28						
14 x 84	25	95	7	4243	6709	9487	20 x 30	31	41	9	2661	4207	5950	28 x 28	40	40	13	3478	5499	7777
14 x 96	26	108	7	4805	7598	10745	20 x 36	31	47	9	2961	4681	6620	28 x 30	41	43	13	3654	5777	8170
14 x 108	26	120	7	5189	8205	11604	20 x 40	32	52	9	3256	5148	7280	28 x 36	41	49	13	4146	6555	9270
14 x 120	26	132	7	5712	9031	12772	20 x 42	32	54	9	3417	5402	7640	28 x 40	43	55	13	4651	7354	10400
16						20 x 48						28 x 42								
16 x 16	23	23	7	1199	1895	2680	20 x 48	33	61	9	3985	6300	8910	28 x 42	43	59	13	4785	7566	10700
16 x 18	24	26	7	1342	2121	3000	20 x 54	33	67	9	4277	6762	9563	28 x 48	43	63	13	5469	8648	12230
16 x 20	24	28	7	1470	2324	3286	20 x 60	33	73	9	4472	7071	10000	28 x 54	45	70	13	5867	9277	13120
16 x 22	24	30	7	1616	2555	3613	20 x 66	34	80	9	4893	7736	10941	28 x 60	44	76	13	6139	9707	13728
16 x 22	24	30	7	1616	2555	3613	20 x 72	34	86	9	5340	8444	11941	28 x 66	45	83	13	6582	10408	14719

Dimensional and Performance Data - Type TEH

Exhaust/relief ventilators have a 1 to 1 ratio of hood perimeter opening to throat area. The maximum design air velocity is 1200 fpm.

THROAT SIZE A x B	HOOD SIZE			CFM @ STATIC PRESSURE			THROAT SIZE A x B	HOOD SIZE			CFM @ STATIC PRESSURE			THROAT SIZE A x B	HOOD SIZE			CFM @ STATIC PRESSURE		
	C	D	E	.05	.125	.25		C	D	E	.05	.125	.25		C	D	E	.05	.125	.25
28 x 72	45	89	13	7476	11821	16718	40						54							
28 x 80	46	98	13	7862	12431	17580	40 x 42	57	59	15	6974	11027	15595	54 x 54	77	77	19	11319	17897	25310
28 x 84	46	102	13	8490	13425	18985	40 x 48	59	67	15	7813	12353	17470	54 x 60	79	85	19	12075	19092	27000
28 x 96	47	115	13	9202	14549	20576	40 x 54	59	73	15	8385	13258	18750	54 x 66	79	91	19	12951	20478	28960
28 x 108	48	128	13	10160	16065	22719	40 x 60	60	80	15	8944	14142	20000	54 x 72	80	98	19	13853	21904	30977
28 x 120	48	140	13	11423	18062	25543	40 x 66	61	87	15	9593	15167	21450	54 x 80	81	107	19	14866	23505	33242
30							40 x 72	62	94	15	10465	16546	23400	54 x 84	82	112	19	15706	24834	35120
30 x 30	43	43	13	3893	6156	8706	40 x 80	63	103	15	11230	17755	25110	54 x 96	83	125	19	17388	27492	38880
30 x 36	44	50	13	4537	7174	10145	40 x 84	64	108	15	11411	18042	25515	54 x 108	85	139	19	19154	30285	42830
30 x 40	45	55	13	4884	7722	10920	40 x 96	64	120	15	12880	20365	28800	54 x 120	86	152	19	21131	33411	47250
30 x 42	45	57	13	5125	8103	11460	40 x 108	65	133	15	14515	22950	32456	60						
30 x 48	46	64	13	5745	9083	12846	40 x 120	66	146	15	16319	25802	36490	60 x 60	86	86	21	13156	20801	29417
30 x 54	47	71	13	6166	9749	13787	42						60 x 66	87	93	21	14387	22748	32170	
30 x 60	48	78	13	6708	10607	15000	42 x 42	59	59	15	7178	11349	16050	60 x 72	88	100	21	15392	24337	34418
30 x 66	48	84	13	7196	11377	16090	42 x 48	61	67	15	8202	12968	18340	60 x 80	89	109	21	16847	26637	37670
30 x 72	49	91	13	7696	12169	17209	42 x 54	62	74	15	8806	13923	19690	60 x 84	90	114	21	17450	27591	39020
30 x 80	49	99	13	8258	13056	18464	42 x 60	64	82	15	9585	15155	21433	60 x 96	91	127	21	19320	30547	43200
30 x 84	50	104	13	8725	13796	19510	42 x 66	65	89	15	10071	15924	22520	60 x 108	83	141	21	20918	33074	46447
30 x 96	50	116	13	9859	15588	22045	42 x 72	65	95	15	10988	17374	24570	60 x 120	94	154	21	23023	36402	51480
30 x 108	51	129	13	10886	17212	24342	42 x 80	66	104	15	11793	18646	26370	66						
30 x 120	52	142	13	12239	19352	27368	42 x 84	66	108	15	12470	19717	27883	66 x 66	94	94	21	15831	25032	35400
36							42 x 96	67	121	15	13803	21824	30864	66 x 72	94	102	21	17267	27301	38610
36 x 36	52	52	15	5558	8788	12427	42 x 108	68	134	15	14932	23610	33390	66 x 80	94	113	21	18168	28727	40625
36 x 40	53	57	15	5979	9454	13370	42 x 120	69	147	15	16435	25986	36750	66 x 84	97	115	21	19199	30356	42930
36 x 42	53	59	15	6276	9923	14034	48						66 x 96	97	131	21	21252	33602	47520	
36 x 48	54	66	15	7175	11345	16044	48 x 48	68	68	17	9192	14533	20553	66 x 108	97	147	21	23465	37102	52470
36 x 54	55	73	15	7549	11936	16880	48 x 54	70	76	17	10062	15910	22500	66 x 120	96	165	21	26359	41677	58941
36 x 60	56	80	15	8050	12728	18000	48 x 60	71	83	17	10733	16971	24000	72						
36 x 66	56	86	15	8809	13929	19698	48 x 66	72	90	17	11511	18201	25740	72 x 72	96	110	21	19731	31198	44120
36 x 72	57	93	15	9613	15199	21494	48 x 72	73	97	17	12558	19856	28080	72 x 80	96	120	21	20631	32620	46132
36 x 80	58	102	15	10107	15981	22600	48 x 80	74	106	17	13475	21305	30130	72 x 84	96	126	21	20943	33114	46830
36 x 84	58	106	15	10469	16553	23410	48 x 84	75	111	17	13962	22076	31220	72 x 96	96	143	21	22733	35945	50833
36 x 96	59	119	15	11367	17972	25417	48 x 96	75	123	17	15456	24438	34560	72 x 108	96	163	21	25599	40475	57240
36 x 108	60	132	15	13063	20655	29210	48 x 108	77	137	17	17418	27540	38947	72 x 120	96	180	21	28174	44548	63000
36 x 120	60	144	15	14378	22733	32150	48 x 120	78	150	17	19170	30311	42866							

When an engineering application specifies a CFM capacity for a listed size ventilator that is different from that shown for that ventilator in the tables, the new static pressure (P₂) for the specified CFM is readily determined by applying the equation:

$$P_2 = P_1 \left(\frac{CFM_2}{CFM_1} \right)^2$$

The CFM₁ and P₁ are shown in the preceding tables. CFM₂ is the specified air flow and P₂ is the corresponding static pressure to be determined.

Example: Determine the static pressure of a relief unit with a 30" x 30" throat, flowing 5,000 CFM. The above data table yields the following:

$$P_1 = .125, CFM_1 = 6,156. \text{ Thus, } P_2 = .125 \left(\frac{5000}{6156} \right)^2 = .08" \text{ w.g.}$$

Dimensional and Performance Data - Type TIH

Fresh air intake ventilators have a 2 to 1 ratio of hood perimeter opening to throat area. The maximum design velocity through the hood opening is only 600 fpm to reduce entrainment of rain or snow in incoming air. The maximum throat design velocity is 1200 fpm.

THROAT SIZE A x B	HOOD SIZE			CFM @ STATIC PRESSURE			THROAT SIZE A x B	HOOD SIZE			CFM @ STATIC PRESSURE			THROAT SIZE A x B	HOOD SIZE			CFM @ STATIC PRESSURE		
	C	D	E	.05	.10	.20		C	D	E	.05	.10	.20		C	D	E	.05	.10	.20
12						16 x 24	31	39	9	1790	2531	3580	20 x 80	46	106	11	7669	10845	15337	
12 x 12	21	21	7	685	969	1307	16 x 28	32	44	9	2070	2927	4140	20 x 84	46	110	11	7838	11085	15677
12 x 14	22	24	7	801	1133	1602	16 x 30	32	46	9	2287	3235	4575	20 x 96	47	123	11	9171	12969	18341
12 x 16	22	26	7	912	1289	1824	16 x 36	33	53	9	2814	3980	5629	20 x 108	48	136	11	10034	14190	20068
12 x 18	23	29	7	1058	1496	2115	16 x 40	33	57	9	3046	4308	6093	20 x 120	49	149	11	11463	16211	22927
12 x 20	24	32	7	1177	1664	2354	16 x 42	33	60	9	3236	4576	6472	22						
12 x 22	24	34	7	1254	1774	2509	16 x 48	36	67	9	3684	5210	7368	22 x 22	39	39	11	2303	3257	4606
12 x 24	25	37	7	1402	1983	2804	16 x 54	36	74	9	3945	5579	7890	22 x 24	40	42	11	2440	3451	4880
12 x 28	26	42	7	1634	2311	3268	16 x 60	36	80	9	4390	6208	8780	22 x 28	40	46	11	2978	4211	5956
12 x 30	26	44	7	1790	2531	3579	16 x 66	37	87	9	5065	7163	10130	22 x 30	42	50	11	3141	4442	6282
12 x 36	27	51	7	2124	3004	4248	16 x 72	38	94	9	5545	7841	11089	22 x 36	43	57	11	3640	5148	7280
12 x 40	28	56	7	2282	3227	4564	16 x 80	38	102	9	5976	8452	11983	22 x 40	44	62	11	4078	5768	8157
12 x 42	29	59	7	2435	3444	4870	16 x 84	39	107	9	6393	9041	12786	22 x 42	45	65	11	4220	5968	8440
12 x 48	28	64	7	2783	3935	5566	16 x 96	39	119	9	7336	10375	14673	22 x 48	46	72	11	4805	6795	9610
12 x 54	28	70	7	3120	4413	6240	16 x 108	40	132	10	8054	11390	16108	22 x 54	46	78	11	5275	7460	10549
12 x 60	29	77	7	3468	4904	6936	16 x 120	40	144	10	9171	12969	18341	22 x 60	47	85	11	6025	8521	12050
12 x 66	29	83	7	3811	5389	7621	18						22 x 66	48	92	11	6446	9116	12892	
12 x 72	30	90	7	4158	5881	8317	18 x 18	32	32	10	1539	2176	3078	22 x 72	49	99	11	7200	10182	14400
12 x 80	30	98	7	4601	6507	9202	18 x 20	33	35	10	1763	2493	3525	22 x 80	50	108	11	8000	11314	16000
12 x 84	31	103	7	4844	6850	9687	18 x 22	33	37	10	1882	2661	3763	22 x 84	50	112	11	8623	12195	17247
12 x 96	31	115	7	5523	7811	11047	18 x 24	34	40	10	2000	2828	4000	22 x 96	51	125	11	10067	14236	20133
12 x 108	31	127	8	6399	9050	12799	18 x 28	35	45	10	5330	3294	4660	22 x 108	52	138	11	11004	15561	22007
12 x 120	32	140	8	6931	9801	13861	18 x 30	36	48	10	2567	3630	5133	22 x 120	53	151	11	12607	17829	25214
14						18 x 36	37	55	10	3104	4390	6209	24							
14 x 14	25	25	8	933	1319	1866	18 x 40	38	60	10	3426	4845	6852	24 x 24	42	42	11	2650	3748	5300
14 x 16	25	27	8	1095	1549	2191	18 x 42	38	62	10	3637	5143	7273	24 x 28	43	47	11	3262	4614	6525
14 x 18	26	30	8	1196	1692	2393	18 x 48	39	69	10	3950	5586	7900	24 x 30	44	50	11	3457	4890	6915
14 x 20	27	33	8	1333	1886	2667	18 x 54	40	76	10	4440	6279	8880	24 x 36	46	58	11	3945	5579	7890
14 x 22	28	36	8	1508	2132	3015	18 x 60	40	82	10	4811	6804	9622	24 x 40	47	63	11	4335	6131	8670
14 x 24	28	38	8	1550	2192	3100	18 x 66	41	89	10	5718	8087	11437	24 x 42	48	66	11	4600	6505	9200
14 x 28	29	43	8	1897	2683	3795	18 x 72	41	95	10	6074	8590	12148	24 x 48	49	73	11	5275	7460	10550
14 x 30	29	45	8	1998	2825	3995	18 x 80	42	104	10	6720	9504	13440	24 x 54	50	80	11	5915	8365	11830
14 x 36	30	52	8	2129	3011	4259	18 x 84	43	109	10	7084	10019	14169	24 x 60	52	88	11	6580	9306	13160
14 x 40	30	56	8	2667	3772	5334	18 x 96	43	121	10	8003	11317	16005	24 x 66	52	94	11	7205	10189	14410
14 x 42	30	59	8	2830	4003	5660	18 x 108	44	134	11	9250	13081	18499	24 x 72	52	100	11	7855	11109	15710
14 x 48	31	66	8	3330	4709	6660	18 x 120	45	147	11	10277	14534	20555	24 x 80	53	109	11	8700	12304	17400
14 x 54	32	72	8	3637	5143	7273	20						24 x 84	54	114	11	8949	12656	17898	
14 x 60	33	79	8	4032	5702	8064	20 x 20	35	35	11	1952	2761	3905	24 x 96	55	127	11	10400	14708	20800
14 x 66	33	85	8	4427	6261	8854	20 x 22	36	28	11	2092	2959	4185	24 x 108	56	140	11	11750	16617	23500
14 x 72	34	92	8	4849	6857	9698	20 x 24	37	41	11	2220	3140	4440	24 x 120	57	154	11	13440	19007	26881
14 x 80	34	100	8	5227	7393	10455	20 x 28	37	45	11	2730	3861	5460	28						
14 x 84	35	105	8	5597	7916	11194	20 x 30	38	48	11	2857	4040	5713	28 x 28	51	51	13	3789	5359	7579
14 x 96	35	117	8	6393	9041	12786	20 x 36	40	56	11	3484	4927	6968	28 x 30	51	53	13	4058	5739	8117
14 x 108	36	130	9	7221	10211	14441	20 x 40	40	60	11	3704	5238	7408	28 x 36	52	60	13	4600	6505	9200
14 x 120	36	142	9	8249	11666	16498	20 x 42	41	63	11	3835	5424	7670	28 x 40	53	65	13	5055	7149	10110
16						20 x 48	42	70	11	4260	6024	8520	28 x 42	53	67	13	5370	7594	10740	
16 x 16	28	28	9	1217	1722	2435	20 x 54	43	77	11	4930	6972	9860	28 x 48	54	74	13	6065	8577	12130
16 x 18	28	30	9	1370	1938	2741	20 x 60	44	84	11	5348	7563	10696	28 x 54	56	82	13	6900	9758	13800
16 x 20	30	33	9	1567	2217	3135	20 x 66	45	91	11	6025	8521	12050	28 x 60	57	89	13	7650	10819	15300
16 x 22	30	36	9	1725	2439	3449	20 x 72	45	97	11	6720	9504	13440	28 x 66	58	96	13	8198	11593	16395

Dimensional and Performance Data - Type TIH

Fresh air intake ventilators have a 2 to 1 ratio of hood perimeter opening to throat area. The maximum design velocity through the hood opening is only 600 fpm to reduce entrainment of rain or snow in incoming air. The maximum throat design velocity is 1200 fpm.

THROAT SIZE A x B	HOOD SIZE			CFM @ STATIC PRESSURE			THROAT SIZE A x B	HOOD SIZE			CFM @ STATIC PRESSURE			THROAT SIZE A x B	HOOD SIZE			CFM @ STATIC PRESSURE		
	C	D	E	.05	.10	.20		C	D	E	.05	.10	.20		C	D	E	.05	.10	.20
28 x 72	59	103	13	9135	12919	18270	40						54							
28 x 80	60	112	13	9630	13619	19260	40 x 40	70	70	17	7051	9971	14102	54 x 54	95	95	23	11865	16779	23729
28 x 84	61	117	13	10655	15068	21310	40 x 42	71	73	17	7640	10805	15280	54 x 60	97	103	23	13197	18664	26395
28 x 96	63	131	13	12150	17183	24300	40 x 48	73	81	17	8267	11691	16533	54 x 66	98	110	23	14391	20352	28783
28 x 108	64	144	13	13650	19304	27300	40 x 54	74	88	17	9588	13560	19176	54 x 72	98	121	23	15697	22199	31394
28 x 120	65	157	13	16049	22696	32097	40 x 60	76	96	17	10407	14718	20814	54 x 80	98	133	23	17397	24603	34793
30						40 x 66	77	103	17	11451	16194	22902	54 x 84	98	140	23	18833	26633	37665	
30 x 30	53	53	13	4207	5949	8413	40 x 72	79	111	17	12687	17942	25373	54 x 96	98	160	23	21737	30740	43473
30 x 36	55	61	13	4792	6776	9583	40 x 80	81	121	17	13773	19478	27546	54 x 108	98	179	23	23456	33172	46913
30 x 40	55	65	13	5455	7715	10910	40 x 84	83	127	17	14459	20448	28919	54 x 120	111	177	23	25858	36569	51716
30 x 42	57	69	13	5616	7943	11233	40 x 96	83	139	17	16524	23368	33047	60						
30 x 48	57	76	13	6343	8971	12687	40 x 108	85	153	17	18593	26294	37185	60 x 60	95	115	25	14534	20555	29069
30 x 54	60	84	13	7350	10394	14700	40 x 120	87	167	17	21585	30526	43170	60 x 66	96	124	25	16001	22629	32003
30 x 60	61	91	13	8175	11561	16350	42						60 x 72	109	121	25	17397	24603	34793	
30 x 66	62	98	13	8788	12428	17576	42 x 42	74	74	18	7832	11076	15663	60 x 80	111	131	25	19306	27303	38612
30 x 72	63	105	13	9840	13916	19680	42 x 48	76	82	18	8229	11637	16457	60 x 84	113	137	25	20268	28663	40535
30 x 80	64	114	13	10613	15009	21226	42 x 54	78	90	18	9835	13909	19670	60 x 96	115	151	25	23166	32761	46331
30 x 84	65	119	13	11420	16150	22840	42 x 60	80	98	18	10965	15507	21930	60 x 108	118	166	25	25961	36714	51921
30 x 96	66	132	13	13050	18455	26100	42 x 66	82	106	18	12023	17003	24046	60 x 120	118	184	25	28175	39846	56351
30 x 108	67	145	13	14550	20577	29100	42 x 72	83	113	18	13209	18680	26418	66						
30 x 120	69	159	13	16570	23433	33139	42 x 80	84	122	18	13844	19578	27687	66 x 66	98	134	25	17468	24704	34936
36						42 x 84	84	126	18	14537	20559	29075	66 x 72	117	123	25	18681	26419	37363	
36 x 36	63	63	15	5425	7672	10850	42 x 96	87	141	18	16972	24001	33943	66 x 80	117	135	25	21234	30029	42467
36 x 40	64	68	15	6392	9040	12784	42 x 108	89	155	18	19451	27507	38901	66 x 84	117	142	25	22298	31534	44596
36 x 42	66	72	15	6900	9758	13800	42 x 120	91	169	18	21605	30555	43211	66 x 96	117	162	25	25482	36037	50964
36 x 48	67	79	15	7437	10518	14874	48						66 x 108	127	169	25	27890	39443	55781	
36 x 54	69	87	15	8750	12374	17500	48 x 48	84	84	20	9192	14533	20553	66 x 120	130	184	25	30872	43660	61745
36 x 60	70	94	15	9875	13965	19750	48 x 54	87	93	20	10062	15910	22500	72						
36 x 66	71	101	15	10805	15281	21610	48 x 60	88	100	20	10733	16971	24000	72 x 72	117	137	25	20370	28807	40739
36 x 72	72	108	15	11750	16617	23500	48 x 66	89	107	20	11511	18201	25740	72 x 80	128	136	28	22716	32125	45432
36 x 80	74	117	15	12443	17597	24885	48 x 72	92	116	20	12558	19856	28080	72 x 84	130	142	29	24324	34399	48648
36 x 84	75	123	15	12775	18067	25551	48 x 80	94	126	20	13475	21305	30130	72 x 96	133	157	29	27259	38550	54518
36 x 96	77	137	15	14874	21035	29748	48 x 84	95	131	20	13962	22076	31220	72 x 108	136	172	29	30311	42866	60622
36 x 108	78	150	15	16690	23604	33381	48 x 96	96	144	20	15456	24438	34560	72 x 120	139	187	29	33679	47629	67358
36 x 120	79	165	15	19400	27436	38800	48 x 108	95	165	20	17418	27540	38947							
							48 x 120	97	178	20	19170	30311	42866							

When an engineering application specifies a CFM capacity for a listed size ventilator that is different from that shown for that ventilator in the tables, the new static pressure (P₂) for the specified CFM is readily determined by applying the equation:

$$P_2 = P_1 \left(\frac{CFM_2}{CFM_1} \right)^2$$

The CFM₁ and P₁ are shown in the preceding tables. CFM₂ is the specified air flow and P₂ is the corresponding static pressure to be determined.

Example: Determine the static pressure of an intake unit with a 30" x 30" throat, flowing 7,000 CFM. The above data table yields the following:

$$P_1 = .20, CFM_1 = 8,413. \text{ Thus, } P_2 = .20 \left(\frac{7000}{8413} \right)^2 = .20 (.8321)^2 = .14" \text{ w.g.}$$

Dimensional and Performance Data - Type TEL / TIL

THROAT SIZE A x B	CFM at SP = 0.15" w.g.																	
	Number of Tiers and Height in Inches (E)																	
	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	10.5	14.0	17.5	21.0	24.5	28.0	31.5	35.0	38.5	42.0	45.5	49.0	52.5	56.0	59.5	63.0	66.5	70.0
12 x 12	1199	1225	1238	1245														
12 x 14	1382	1419	1438	1448														
12 x 16	1562	1611	1636	1649														
12 x 18	1737	1800	1832	1850	1861													
12 x 20	1909	1987	2026	2049	2063													
12 x 24	2244	2354	2411	2444	2464													
12 x 30	2729	2892	2979	3029	3061	3082												
12 x 36	3197	3418	3538	3608	3652	3682												
12 x 42	3653	3935	4089	4181	4240	4279												
12 x 48	4101	4444	4635	4750	4823	4873												
14 x 14	1590	1642	1668	1682	1691	1697												
14 x 16	1791	1860	1865	1915	1927	1935												
14 x 18	1987	2075	2120	2146	2162	2172												
14 x 20	2178	2286	2342	2375	2395	2408	2417											
14 x 24	2548	2700	2781	2828	2857	2877	2890											
14 x 30	3078	3303	3425	3497	3543	3573	3595											
14 x 36	3587	3888	4055	4156	4220	4264	4294	4316										
14 x 42	4080	4459	4675	4807	4891	4949	4989	5019										
14 x 48	4561	5021	5287	5451	5557	5629	5681	5718										
16 x 16	2012	2104	2151	2178	2194	2205	2213	2219										
16 x 18	2227	2343	2403	2438	2460	2474	2484	2491										
16 x 20	2435	2577	2652	2696	2723	2741	2754	2763										
16 x 24	2835	3034	3141	3205	3245	3272	3290	3304	3314									
16 x 30	3404	3694	3856	3953	4016	4058	4087	4109	4125									
16 x 36	3945	4331	4552	4687	4775	4835	4877	4908	4931									
16 x 42		4950	5234	5410	5525	5604	5660	5701	5732	5756								
16 x 48		5556	5905	6123	6268	6367	6438	6490	6530	6560								
18 x 18	2458	2604	2682	2727	2755	2774	2787	2797	2804	2809								
18 x 20	2681	2860	2956	3013	3048	3072	3089	3101	3110	3117								
18 x 24	3107	3356	3493	3575	3627	3662	3687	3705	3718	3737								
18 x 30	3709	4067	4273	4398	4480	4535	4574	4603	4624	4641	4654							
18 x 36	4277	4750	5029	5203	5317	5395	5451	5492	5523	5546	5565							
18 x 42		5410	5767	5992	6142	6245	6319	6374	6415	6447	6472	6492						
18 x 48		6055	6490	6770	6957	7087	7181	7250	7302	7343	7375	7401						
18 x 54			7202	7537	7763	7922	8036	8121	8185	8236	8275	8307						
20 x 20	2917	3135	3254	3325	3370	3400	3421	3436	3448	3457	3464	3469						
20 x 24	3367	3667	3836	3938	4004	4049	4080	4103	4120	4133	4144	4152						
20 x 30	3996	4425	4677	4834	4936	5006	5055	5092	5119	5140	5157	5170	5181					
20 x 36		5148	5488	5704	5847	5946	6017	6069	6108	6139	6163	6182	6198					
20 x 42		5844	6276	6555	6743	6873	6967	7037	7090	7131	7163	7189	7210	7228				
20 x 48		6521	7046	7391	7625	7789	7908	7996	8064	8116	8158	8191	8219	8241				
20 x 54			7802	8214	8496	8696	8841	8950	9032	9097	9148	9190	9223	9251				
24 x 24		4263	4501	4649	4745	4811	4857	4892	4917	4937	4953	4965	4976	4984				
24 x 30		5101	5452	5676	5825	5928	6002	6057	6098	6130	6155	6176	6192	6206				
24 x 36		5891	6359	6666	6874	7019	7125	7203	7263	7309	7346	7376	7400	7420	7436			
24 x 42			7234	7627	7898	8090	8230	8335	8415	8477	8527	8567	8600	8627	8649			
24 x 48			8082	8565	8902	9143	9320	9453	9555	9635	9699	9751	9793	9827	9857	9881		
24 x 54			8911	9485	9890	10182	10398	10561	10687	10785	10864	10928	10980	11023	11060	11090		
24 x 60			9725	10390	10864	11209	11465	11659	11810	11928	12023	12099	12162	12215	12258	12296		
30 x 30		6036	6453	6878	7107	7269	7386	7474	7540	7592	7633	7667	7694	7716	7735	7751		
30 x 36		6901	7568	8023	8339	8566	8733	8859	8955	9031	9091	9139	9179	9212	9239	9262		
30 x 42			8544	9121	9531	9829	10050	10217	10347	10448	10530	10596	10650	10695	10732	10764	10791	
30 x 48			9484	10184	10690	11062	11340	11553	11718	11849	11953	12038	12108	12166	12215	12257	12292	
30 x 54			10394	11219	11823	12271	12610	12870	13073	13234	13364	13469	13556	13629	13690	13741	13786	
30 x 60				12232	12934	13461	13861	14171	14413	14607	14763	14890	14995	15083	15157	15219	15273	15319
30 x 66				13226	14028	14634	15098	15458	15742	15968	16152	16302	16426	16529	16617	16691	16755	16810
30 x 72					15108	15794	16322	16734	17060	17321	17532	17706	17850	17970	18072	18158	18232	18296
36 x 36		7824	8688	9297	9732	10049	10286	10466	10605	10715	10802	10874	10932	10981	11021	11056	11085	11111
36 x 42			9743	10508	11066	11480	11792	12031	12218	12367	12486	12583	12663	12729	12785	12833	12873	12908
36 x 48			10749	11670	12353	12867	13259	13563	13801	13991	14145	14270	14374	14460	14533	14595	14648	14694
36 x 54			11719	12793	13604	14220	14695	15065	15358	15592	15782	15938	16067	16175	16266	16344	16411	16468
36 x 60				13887	14824	15544	16104	16453	16892	17173	17401	17589	17746	17877	17987	18082	18163	18233
36 x 66				14957	16020	16845	17490	18000	18407	18736	19005	19227	19411	19566	19698	19810	19906	19990
36 x 72					17195	18125	18858	19440	19906	20285	20595	20851	21065	21245	21398	21529	21641	21739
36 x 80					18738	19808	20657	21336	21884	22330	22697	23001	23256	23470	23653	23809	23944	24061
36 x 84						20639	21547	22275	22864	23345	23741	24069	24345	24577	24775	24945	25091	25218

Selections to the right of the divider are suitable for intake. (Perimeter Velocity of 600 fpm or less)

CFM @ 0.15" w.g.

Dimensional and Performance Data - Type TEL / TIL

THROAT SIZE A x B	CFM at SP = 0.15" w.g.																		
	Number of Tiers and Height in Inches (E)																		
	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	10.5	14.0	17.5	21.0	24.5	28.0	31.5	35.0	38.5	42.0	45.5	49.0	52.5	56.0	59.5	63.0	66.5	70.0	
42 x 42				11812	12523	13059	13470	13788	14039	14239	14401	14533	14643	14734	14811	14877	14933	14981	
42 x 48					13919	14581	15094	15496	15815	16072	16280	16451	16593	16713	16813	16899	16973	17036	
42 x 54					15266	16056	16675	17164	17555	17871	18129	18342	18519	18668	18794	18902	18995	19075	
42 x 60							18219	18797	19263	19641	19951	20208	20422	20603	20756	20888	21001	21099	
42 x 66							19732	20402	20943	21385	21750	22052	22306	22520	22702	22858	22993	23110	
42 x 72							21220	21981	22601	23109	23529	23879	24173	24422	24634	24816	24973	25110	
42 x 80								24056	24781	25378	25874	26289	26639	26936	27189	27408	27596	27761	
42 x 84								25081	25859	26502	27037	27485	27863	28185	28460	28696	28902	29080	
42 x 96										29839	30492	31041	31507	31904	32245	32540	32795	33018	
48 x 48				14363	15408	16221	16860	17366	17771	18099	18367	18589	18773	18929	19060	19173	19270	19353	
48 x 54					16836	17801	18568	19182	19677	20081	20413	20688	20918	21113	21278	21420	21542	21647	
48 x 60					18216	19333	20230	20953	21541	22023	22422	22754	23032	23268	23470	23642	23791	23921	
48 x 66						20826	21852	22686	23369	23932	24399	24790	25119	25399	25638	25844	26021	26176	
48 x 72							23441	24387	25166	25812	26350	26801	27183	27508	27786	28026	28234	28415	
48 x 80							25518	26614	27523	28280	28914	29449	29903	30290	30623	30910	31160	31378	
48 x 84								27712	28686	29499	30182	30760	31250	31670	32030	32342	32614	32851	
48 x 96								30957	32127	33111	33943	34649	35252	35770	36217	36605	36943	37240	
48 x 108										36664	37646	38485	39203	39823	40359	40825	41233	41590	
54 x 54				16913	18334	19474	20391	21133	21736	22232	22642	22984	23272	23515	23723	23901	24055	24189	
54 x 60					19776	21088	22156	23027	23742	24333	24824	25236	25584	25880	26133	26351	26539	26703	
54 x 66						22655	23872	24874	25702	26390	26966	27451	27862	28212	28512	28771	28996	29193	
54 x 72							25548	26681	27623	28411	29073	29632	30108	30514	30864	31167	31430	31660	
54 x 80							27732	29039	30134	31056	31834	32496	33060	33545	33963	34326	34642	34920	
54 x 84								30199	31371	32360	33198	33911	34521	35045	35499	35892	36236	36537	
54 x 96									35020	36212	37229	38100	38848	39495	40057	40546	40974	41351	
54 x 108										39990	41187	42218	43108	43881	44553	45141	45657	46112	
54 x 120										43790	45088	46280	47314	48214	49000	49689	50296	50831	
54 x 144												54279	55603	56762	57780	58676	59468	60170	
60 x 60				19442	21270	22774	24012	25032	25877	26580	27169	27664	28085	28444	28752	29018	29249	29450	
60 x 66					22712	24405	25811	26981	27957	28774	29462	30045	30541	30965	31331	31648	31924	32165	
60 x 72						25990	27563	28882	29989	30922	31711	32383	32957	33450	33876	34245	34568	34851	
60 x 80							29839	31354	32637	33725	34652	35445	36125	36712	37221	37664	38052	38392	
60 x 84							30955	32568	33938	35105	36101	36955	37689	38324	38875	39356	39777	40148	
60 x 96								36136	37768	39169	40374	41413	42313	43095	43776	44373	44898	45361	
60 x 108									41507	43142	44556	45784	46851	47783	48599	49316	49948	50507	
60 x 120										47044	48669	50085	51322	52405	53357	54197	54938	55597	
60 x 144										54693	56736	58529	60108	61499	62728	63817	64784	65646	
66 x 66						26091	27684	29021	30145	31093	31896	32580	33164	33667	34101	34479	34808	35097	
66 x 72							29502	31005	32278	33358	34277	35064	35740	36323	36828	37268	37654	37992	
66 x 80								33578	35048	36305	37382	38308	39108	39801	40405	40932	41395	41803	
66 x 84								34839	36406	37751	38908	39905	40768	41517	42171	42743	43245	43689	
66 x 96									40395	42003	43398	44608	45663	46584	47390	48100	48726	49280	
66 x 108									46148	47779	49205	50453	51548	52512	53363	54117	54786		
66 x 120									50209	52077	53718	55161	56432	57555	58550	59434	60221		
66 x 144										58147	60484	62553	64387	66014	67459	68747	69897	70925	
72 x 72						29405	31380	33064	34501	35729	36781	37685	38465	39140	39728	40242	40692	41089	
72 x 80							35728	37382	38806	40035	41098	42020	42822	43523	44138	44679	45157		
72 x 84								37029	38792	40314	41632	42774	43768	44635	45393	46060	46648	47168	
72 x 96									42920	44734	46318	47701	48912	49975	50910	51736	52467	53117	
72 x 108									46927	49030	50877	52501	53932	55193	56309	57298	58177	58960	
72 x 120									50843	53229	55338	57203	58853	60314	61612	62767	63796	64716	
72 x 144									58476	61418	64043	66384	68471	70334	71999	73490	74826	76027	
84 x 84								41219	43362	45236	46875	48310	49570	50677	51653	52516	53281	53962	
84 x 96										49946	51903	53631	55158	56510	57709	58775	59725	60573	
84 x 108										54497	56767	58785	60580	62177	63602	64875	66013	67035	
84 x 120											61504	63809	65870	67714	69365	70846	72176	73374	
84 x 144											70701	73569	76155	78487	80592	82492	84210	85765	

When an engineering application specifies a CFM capacity for a listed size ventilator that is different from that shown for that ventilator in the tables, the new static pressure (P₂) for the specified CFM is readily determined by applying the equation:

$$P_2 = P_1 \left(\frac{CFM_2}{CFM_1} \right)^2$$

The CFM₁ and P₁ are shown in the preceding tables. CFM₂ is the specified air flow and P₂ is the corresponding static pressure to be determined.

Example: Determine the static pressure of a unit with a 48" x 48" throat, 10 tiers (35") height, and flowing 15,000 CFM. The above data table yields the following:

$$P_1 = .15, CFM_1 = 17,366. \text{ Thus, } P_2 = .15 \left(\frac{15000}{17366} \right)^2 = .15 (.864)^2 = .11" \text{ w.g.}$$

Dimensional and Performance Data - Type TEL / TIL

THROAT SIZE A x B	CFM at SP = 0.05" w.g.																		
	Number of Tiers and Height in Inches (E)																		
	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	10.5	14.0	17.5	21.0	24.5	28.0	31.5	35.0	38.5	42.0	45.5	49.0	52.5	56.0	59.5	63.0	66.5	70.0	
12 x 12	692	707	715	719															
12 x 14	798	820	830	836															
12 x 16	902	930	944	952															
12 x 18	1003	1039	1058	1068	1074														
12 x 20	1102	1147	1170	1183	1191														
12 x 24	1296	1359	1392	1411	1423														
12 x 30	1575	1670	1720	1749	1767	1779													
12 x 36	1846	1974	2042	2083	2109	2126													
12 x 42	2109	2272	2361	2414	2448	2470													
12 x 48	2367	2566	2676	2742	2785	2813													
14 x 14	918	948	963	971	977	980													
14 x 16	1034	1074	1094	1106	1113	1117													
14 x 18	1147	1198	1224	1239	1248	1254													
14 x 20	1257	1320	1352	1371	1383	1390	1396												
14 x 24	1471	1559	1606	1633	1650	1661	1669												
14 x 30	1777	1907	1977	2019	2045	2063	2075												
14 x 36	2071	2245	2341	2399	2437	2462	2479	2492											
14 x 42	2355	2575	2699	2775	2824	2857	2880	2898											
14 x 48	2633	2899	3053	3147	3208	3250	3280	3301											
16 x 16	1162	1215	1242	1257	1267	1273	1278	1281											
16 x 18	1286	1353	1387	1408	1420	1428	1434	1438											
16 x 20	1406	1488	1531	1556	1572	1583	1590	1595											
16 x 24	1637	1752	1814	1850	1873	1889	1900	1908	1913										
16 x 30	1965	2133	2226	2282	2318	2343	2360	2372	2382										
16 x 36	2278	2500	2628	2706	2757	2791	2816	2833	2847										
16 x 42		2858	3022	3123	3190	3235	3268	3292	3309	3323									
16 x 48		3208	3409	3535	3619	3676	3717	3747	3770	3788									
18 x 18	1419	1504	1548	1574	1591	1602	1609	1615	1619	1622									
18 x 20	1548	1651	1707	1739	1760	1774	1783	1790	1795	1799									
18 x 24	1794	1937	2017	2064	2094	2114	2129	2139	2147	2153	2157								
18 x 30	2141	2348	2467	2539	2586	2618	2641	2657	2670	2679	2687								
18 x 36	2469	2742	2904	3004	3070	3115	3147	3171	3188	3202	3213								
18 x 42		3124	3329	3460	3546	3606	3648	3680	3704	3722	3737	3748							
18 x 48		3496	3747	3908	4017	4092	4146	4186	4216	4240	4258	4273							
18 x 54			4158	4351	4482	4574	4640	4689	4726	4755	4778	4796							
20 x 20	1684	1810	1879	1920	1946	1963	1975	1984	1991	1996	2000	2003							
20 x 24	1944	2117	2215	2274	2312	2338	2356	2369	2379	2386	2392	2397							
20 x 30	2307	2555	2700	2791	2850	2890	2919	2940	2956	2968	2977	2985	2991						
20 x 36		2972	3169	3293	3376	3433	3474	3504	3527	3544	3558	3569	3579						
20 x 42		3374	3624	3785	3893	3968	4022	4063	4093	4117	4136	4151	4163	4173					
20 x 48		3765	4068	4267	4402	4497	4566	4617	4656	4686	4710	4729	4745	4758					
20 x 54			4504	4742	4905	5021	5104	5167	5215	5252	5282	5306	5325	5341					
24 x 24		2461	2599	2684	2739	2777	2804	2824	2839	2851	2860	2867	2873	2878					
24 x 30		2945	3148	3277	3363	3422	3465	3497	3521	3539	3554	3566	3575	3583					
24 x 36		3401	3672	3849	3969	4053	4114	4159	4193	4220	4241	4258	4272	4284	4293				
24 x 42			4176	4404	4560	4671	4752	4812	4858	4894	4923	4946	4965	4981	4994				
24 x 48			4666	4945	5140	5279	5381	5458	5517	5563	5600	5629	5654	5674	5691	5705			
24 x 54			5145	5476	5710	5878	6033	6097	6170	6227	6272	6309	6339	6364	6385	6403			
24 x 60			5615	5999	6272	6471	6619	6731	6818	6887	6941	6986	7022	7052	7077	7099			
30 x 30		3485	3778	3971	4103	4197	4264	4315	4353	4383	4407	4426	4442	4455	4466	4475			
30 x 36		3985	4370	4632	4815	4946	5042	5115	5170	5214	5248	5276	5299	5318	5334	5348			
30 x 42			4933	5266	5503	5675	5802	5899	5974	6032	6079	6117	6149	6175	6196	6215	6230		
30 x 48			5475	5880	6172	6387	6547	6670	6765	6841	6901	6950	6991	7024	7053	7076	7097		
30 x 54			6001	6477	6826	7085	7280	7430	7548	7641	7716	7776	7827	7869	7904	7934	7959		
30 x 60				7062	7468	7772	8003	8181	8322	8433	8523	8597	8657	8708	8751	8787	8818	8845	
30 x 66				7636	8099	8449	8717	8925	9089	9219	9325	9412	9483	9543	9594	9637	9674	9705	
30 x 72				8722	9119	9423	9661	9849	10000	10122	10222	10305	10375	10434	10484	10526	10563		
36 x 36		4517	5016	5367	5619	5802	5939	6042	6123	6186	6237	6278	6312	6340	6363	6383	6400	6415	
36 x 42			5625	6067	6389	6628	6808	6946	7054	7140	7209	7265	7311	7349	7382	7409	7432	7453	
36 x 48			6206	6737	7132	7429	7655	7830	7968	8078	8166	8239	8299	8348	8391	8426	8457	8483	
36 x 54			6766	7386	7854	8210	8484	8698	8867	9002	9112	9202	9276	9339	9391	9436	9475	9508	
36 x 60				8018	8559	8975	9297	9551	9753	9915	10047	10155	10245	10321	10385	10440	10486	10527	
36 x 66				8635	9249	9725	10098	10392	10628	10817	10973	11101	11207	11297	11372	11437	11493	11541	
36 x 72					9928	10465	10887	11223	11493	11712	11891	12039	12162	12266	12354	12430	12495	12551	
36 x 80					10818	11436	11926	12318	12635	12892	13104	13280	13427	13551	13656	13746	13824	13892	
36 x 84						11916	12440	12861	13201	13478	13707	13896	14055	14190	14304	14402	14486	14560	

Selections to the right of the divider are suitable for intake.
(Perimeter Velocity of 600 fpm or less)

CFM @ 0.05" w.g.

Dimensional and Performance Data - Type TEL / TIL

THROAT SIZE A x B	CFM at SP = 0.05" w.g.																			
	Number of Tiers and Height in Inches (E)																			
	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
	10.5	14.0	17.5	21.0	24.5	28.0	31.5	35.0	38.5	42.0	45.5	49.0	52.5	56.0	59.5	63.0	66.5	70.5		
42 x 42				6820	7230	7540	7777	7961	8105	8221	8314	8391	8454	8507	8551	8589	8622	8650		
42 x 48					8036	8419	8715	8947	9131	9279	9399	9498	9580	9649	9707	9757	9799	9836		
42 x 54					8814	9270	9627	9910	10135	10318	10467	10590	10692	10778	10851	10913	10967	11013		
42 x 60							10519	10853	11121	11340	11519	11667	11791	11895	11984	12060	12125	12181		
42 x 66							11392	11779	12092	12347	12557	12732	12878	13002	13107	13197	13275	13343		
42 x 72							12251	12691	13049	13342	13584	13786	13956	14100	14222	14327	14418	14497		
42 x 80								13889	14307	14652	14938	15178	15380	15551	15698	15824	15933	16028		
42 x 84								14481	14930	15301	15610	15868	16087	16272	16431	16568	16686	16789		
42 x 96										17227	17604	17922	18191	18420	18617	18787	18934	19063		
48 x 48				8293	8896	9365	9734	10026	10260	10450	10604	10732	10839	10929	11005	11069	11125	11174		
48 x 54					9720	10278	10720	11075	11361	11594	11785	11944	12077	12189	12285	12367	12437	12498		
48 x 60					10517	11162	11680	12097	12437	12715	12945	13137	13298	13434	13550	13650	13736	13811		
48 x 66						12024	12616	13098	13492	13817	14087	14313	14503	14664	14802	14921	15023	15113		
48 x 72							13534	14080	14530	14902	15213	15474	15694	15882	16042	16181	16301	16405		
48 x 80							14733	15366	15890	16327	16693	17002	17264	17488	17680	17846	17990	18116		
48 x 84								16000	16562	17031	17426	17759	18042	18285	18493	18673	18830	18966		
48 x 96								17873	18548	19116	19597	20005	20353	20652	20910	21134	21329	21500		
48 x 108										21168	21735	22219	22634	22992	23301	23570	23806	24012		
54 x 54				9765	10585	11243	11773	12201	12550	12836	13072	13270	13436	13576	13696	13799	13888	13966		
54 x 60					11417	12175	12792	13295	13707	14049	14332	14570	14771	14942	15088	15213	15322	15417		
54 x 66						13080	13782	14361	14839	15237	15569	15849	16086	16288	16461	16611	16741	16855		
54 x 72							14750	15404	15948	16403	16785	17108	17383	17617	17819	17994	18146	18279		
54 x 80							16011	16766	17398	17930	18380	18761	19087	19367	19609	19818	20001	20161		
54 x 84								17436	18112	18683	19167	19578	19931	20233	20495	20723	20921	21095		
54 x 96									20219	20907	21494	21997	22429	22803	23127	23409	23656	23874		
54 x 108										23088	23779	24374	24889	25334	25723	26062	26360	26623		
54 x 120										25235	26032	26720	27317	27836	28290	28688	29038	29347		
54 x 144												31338	32103	32772	33359	33876	34334	34739		
60 x 60				11225	12280	13149	13863	14452	14940	15346	15686	15972	16215	16422	16600	16753	16887	17003		
60 x 66					13113	14090	14902	15577	16141	16613	17010	17346	17633	17878	18089	18272	18431	18570		
60 x 72						15005	15914	16675	17314	17853	18309	18696	19028	19312	19558	19772	19958	20121		
60 x 80							17227	18102	18843	19471	20006	20464	20857	21196	21490	21745	21969	22166		
60 x 84							17872	18803	19594	20268	20843	21336	21760	22126	22445	22722	22965	23179		
60 x 96								20863	21805	22614	23310	23910	24429	24881	25274	25619	25922	26189		
60 x 108									23964	24908	25725	26433	27050	27588	28059	28472	28837	29160		
60 x 120										27161	28099	28916	29631	30256	30806	31290	31719	32099		
60 x 144										31577	32756	33792	34703	35506	36216	36845	37403	37901		
66 x 66					15064	15983	16755	17404	17952	18415	18810	19147	19438	19688	19906	20096	20263			
66 x 72						17033	17901	18635	19259	19790	20244	20634	20971	21263	21517	21739	21935			
66 x 80							19387	20235	20960	21582	22117	22579	22979	23328	23632	23899	24135			
66 x 84							20114	21019	21796	22463	23039	23537	23970	24347	24677	24968	25224			
66 x 96								23322	24251	25056	25755	26363	26895	27361	27771	28132	28452			
66 x 108									26643	27585	28409	29129	29762	30318	30809	31244	31630			
66 x 120									28988	30067	31014	31847	32581	33230	33804	34314	34768			
66 x 144									33571	34921	36115	37174	38113	38948	39691	40355	40949			
72 x 72					16977	18117	19090	19919	20628	21235	21757	22208	22598	22937	23234	23494	23723			
72 x 80						20627	21582	22405	23114	23728	24260	24723	25128	25483	25795	26072				
72 x 84							21379	22396	23275	24036	24696	25269	25770	26208	26593	26932	27232			
72 x 96								24780	25827	26741	27540	28239	28853	29393	29870	30292	30667			
72 x 108									27093	28307	29374	30312	31137	31866	32510	33081	33588	34040		
72 x 120										29354	30732	31950	33026	33979	34823	35572	36238	36833	37364	
72 x 144										33761	35460	36975	38327	39532	40607	41569	42429	43201	43894	
84 x 84								23798	25035	26117	27063	27892	28619	29258	29822	30320	30762	31155		
84 x 96										28836	29966	30964	31845	32626	33318	33934	34482	34972		
84 x 108										31464	32774	33939	34976	35898	36721	37455	38113	38702		
84 x 120											35509	36840	38030	39094	40048	40903	41671	42362		
84 x 144											40819	42475	43968	45315	46530	47627	48619	49516		

Selections to the right of the divider are suitable for intake. (Perimeter Velocity of 600 fpm or less)

CFM @ 0.05" w.g.

When an engineering application specifies a CFM capacity for a listed size ventilator that is different from that shown for that ventilator in the tables, the new static pressure (P₂) for the specified CFM is readily determined by applying the equation:

$$P_2 = P_1 \left(\frac{CFM_2}{CFM_1} \right)^2$$

The CFM₁ and P₁ are shown in the preceding tables. CFM₂ is the specified air flow and P₂ is the corresponding static pressure to be determined.

Example: Determine the static pressure of a unit with a 48" x 48" throat, 10 tiers (35") height, and flowing 13,000 CFM. The above data table yields the following:

$$P_1 = .05, CFM_1 = 10,026. \text{ Thus, } P_2 = .05 \left(\frac{13000}{10026} \right)^2 = .05 (1.30)^2 = .08" \text{ w.g.}$$