

GRAVITY VENTILATORS

Low Profile - Formed Aluminum

SUBMITTAL DATA

STANDARD CONSTRUCTION

MATERIAL

Hood is of .050" aluminum and throat and curb cap are of .080" thick extruded aluminum alloy 6063-T5. Internal support bracing is 1" x 2" x 1" extruded aluminum channel.

Additional support bracing is added when either hood dimension exceeds 47". Hoods built in sections are of .063" aluminum and include adequate additional support bracing.

ASSEMBLY

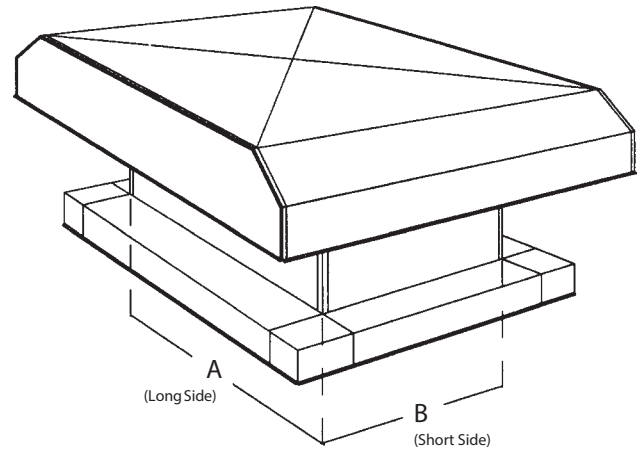
All hoods are mechanically fastened to the throat. Bracing is solid welded throughout. Curb cap joints are solid seal welded to prevent leakage.

SCREEN

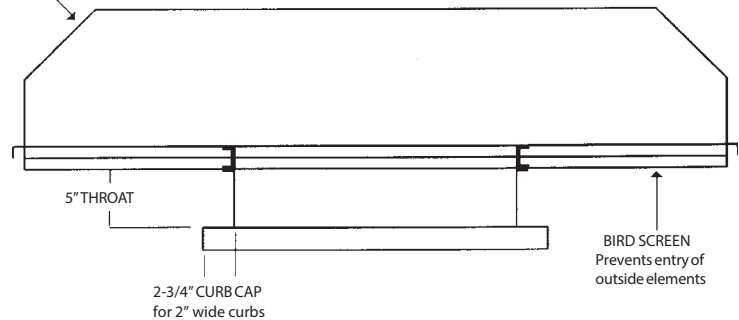
1/2" bird screen mechanically fastened to underside of hood.

FINISH

Mill finish.



CHAMFERED ROOF ENDS
(on short (B) dimension)
Reduces Turbulence,
Decreases Pressure Drop and
Enhances Airflow



FREE AREA AND MODELS

100% (1:1)	200% (2:1)
Exhaust	Intake
WEAV	MAV

Qty.	Model	'A'	'B'	Options /Accessories	Tag

PROJECT: _____
 LOCATION: _____
 ARCHITECT: _____
 ENGINEER: _____
 CONTRACTOR: _____
 PO NUMBER: _____
 DATE: _____

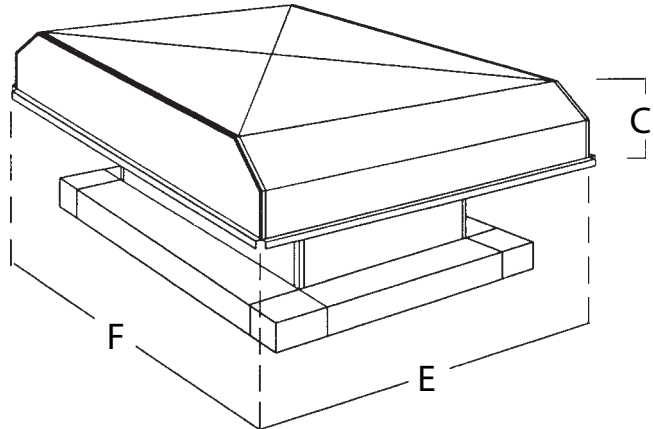


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HOOD DIMENSIONS

- Find dimensions A x B in selected Free Area sizing chart to determine overall hood height and width.
- Standard throat height is 5" (other heights are available). To determine overall ventilator height add 'C' dimension and throat height (5").
- Standard curb cap is 2-3/4" (other sizes are available).
- Sizes with "*" will ship in multiple sections and require field assembly.



A Dimension (LONG throat width) Square End

		12	14	16	18	20	24	30	36	42	48	54	60	66	72
	C	7	7	7	7	7	7	8	8	8	8	9	9	9	10
12	E	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	F	20	22	25	29	32	38	48	57	67	76	86	95	105	114
	C	7	7	7	7	7	7	8	8	8	8	9	9	9	10
14	E	22	22	22	22	22	22	22	22	22	22	22	22	22	22
	F	22	25	29	32	38	48	57	67	76	86	95	105	115	
	C	7	7	7	7	7	7	8	8	8	8	9	9	9	10
16	E	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	F	26	29	32	38	48	58	67	77	86	96	106	115		
	C	8	8	8	8	8	8	9	9	9	10	10	10	11	
18	E	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	F	29	32	39	48	58	68	77	87	96	106	116			
	C	8	8	8	8	8	8	9	9	9	10	10	11		
20	E	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	F	30	36	45	54	63	72	81	90	99	108				
	C	11	11	11	11	11	11	12	12	12	13	13	14		
24	E	36	36	36	36	36	36	36	36	36	36	36	36	36	36
	F	36	45	54	63	72	81	90	99	108					
	C	13	13	13	13	13	13	14	14	14	15	15	16		
30	E	45	45	45	45	45	45	45	45	45	45	45	45	45	45
	F	45	54	63	72	81	90	99	108						
	C	15	15	15	15	15	15	16	16	16	17	17	18		
36	E	54	54	54	54	54	54	54	54	54	54	54	54	54	54
	F	54	63	72	81	90	99	108							
	C	15	15	15	15	15	15	16	16	16	17	17	18		
42	E	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	F	60	66	76	85	95	104	113							
	C	17	17	17	17	17	17	18	18	18	19	19	20		
48	E	72	72	72	72	72	72	72	72	72	72	72	72	72	72
	F	72	81	90	99	108									
	C	21	21	21	21	21	21	21	21	21	21	21	21	21	21
54	E	81	81	81	81	81	81	81	81	81	81	81	81	81	81
	F	81	90	99	108										
	C	21	21	21	21	21	21	21	21	21	21	21	21	21	21
60	E	90	90	90	90	90	90	90	90	90	90	90	90	90	90
	F	90	99	108											
	C	21	21	21	21	21	21	21	21	21	21	21	21	21	21
66	E	99	99	99	99	99	99	99	99	99	99	99	99	99	99
	F	106	115												
	C	21	21	21	21	21	21	21	21	21	21	21	21	21	21
72	E	93	93	93	93	93	93	93	93	93	93	93	93	93	93
	F	126													

A Dimension (LONG throat width) Square End

		12	14	16	18	20	24	30	36	42	48	54	60	66	72
	C	8	8	8	8	8	9	9	10	10	11	11	12	12	13
12	E	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	F	23	27	30	34	38	46	57	69	80	91	103	114	126	137
	C	8	8	8	8	8	9	9	10	10	11	11	12	13	
14	E	26	26	26	26	26	26	26	26	26	26	26	26	26	26
	F	26	30	34	38	45	57	68	79	90	102	113	124	136	
	C	8	8	8	8	8	9	9	10	10	11	11	12	13	
16	E	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	F	30	34	37	45	56	67	78	90	101	112	123	134		
	C	8	8	8	8	8	9	9	10	10	11	11	12	13	
18	E	34	34	34	34	34	34	34	34	34	34	34	34	34	34
	F	33	37	44	56	67	78	89	100	111	122	133			
	C	8	8	8	8	8	9	9	10	10	11	11	12	13	
20	E	36	36	36	36	36	36	36	36	36	36	36	36	36	36
	F	36	43	54	65	76	87	98	108	119	130				
	C	11	11	11	11	11	12	12	13	13	14	14	15	16	
24	E	43	43	43	43	43	43	43	43	43	43	43	43	43	43
	F	44	54	65	76	87	98	109	120	131					
	C	14	14	14	14	14	15	16	16	17	18	19			
30	E	54	54	54	54	54	54	54	54	54	54	54	54	54	54
	F	54	65	76	87	98	108	119	130						
	C	17	17	17	17	17	18	19	20	21	22				
36	E	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	F	60	70	82	94	105	117	129	140						
	C	19	19	19	19	19	20	21	22	23	24				
42	E	76	76	76	76	76	76	76	76	76	76	76	76	76	76
	F	75	86	97	108	119	129								
	C	22	22	22	22	22	23	24	25	27					
48	E	87	87	87	87	87	87	87	87	87	87	87	87	87	87
	F	86	97	108	118	129									
	C	27	27	27	27	27	27	27	27	27	27	27	27	27	27
54	E	93	93	93	93	93	93	93	93	93	93	93	93	93	93
	F	102	113	125	136										
	C	27	27	27	27	27	27	27	27	27	27	27	27	27	27
60	E	93	93	93	93	93	93	93	93	93	93	93	93	93	93
	F	126	138	151											
	C	27	27	27	27	27	27	27	27	27	27	27	27	27	27
66	E	93	93	93	93	93	93	93	93	93	93	93	93	93	93
	F	152	129	*											
	C	27	27	27	27	27	27	27	27	27	27	27	27	27	27
72	E	120	*												
	F	140	*												



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STATIC PRESSURE LOSS (in. wg.)

Throat Velocity	100%	200%	
	EXHAUST	INTAKE	EXHAUST
300 FPM	.012"	.018"	.008"
400 FPM	.021"	.031"	.013"
500 FPM	.033"	.049"	.021"
600 FPM	.048"	.071"	.030"
700 FPM	.065"	.096"	.041"
800 FPM	.085"	.126"	.053"
900 FPM	.108"	.159"	.068"
1000 FPM	.133"	.196"	.084"
1100 FPM	.161"	.237"	.101"
1200 FPM	.192"	.282"	.120"

FORMULAS

1. Hood Velocity (fpm)

$$\text{Throat Velocity (FPM)} \div \begin{matrix} 1 \text{ (100\% Free Area)} \\ 2 \text{ (200\% Free Area)} \end{matrix}$$

2. Throat Velocity (fpm)

$$\text{Hood Velocity (FPM)} \div \begin{matrix} 1 \text{ (100\% Free Area)} \\ 2 \text{ (200\% Free Area)} \end{matrix}$$

3. Throat Size (Square Feet)

$$\text{Air Flow (CFM)} \div \text{Throat Velocity (FPM)}$$

4. Throat Perimeter (Inches)

$$A + A + B + B$$

SIZING RECOMMENDATIONS

1. On INTAKE Gravity Ventilators, the Hood Velocity should NOT exceed 600 fpm.
2. To size a 2" Curb using the standard gravity ventilator curb cap of 2-3/4", add throat size + 4" to allow for the curb cap distance from the throat with adequate installation allowance.



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OPTIONS / ACCESSORIES

SCREENS

A wide variety of bird or insect screens are available in various gauges and mesh dimensions including a snow screen

MATERIAL

Aluminum thickness in .063" or .081" on hood.

CURB CAP

Standard is 2-3/4" for 2" curbs, although by specifying, curb cap is available in any size.

THROAT OPTIONS

Standard exposed throat height of 5" can be extended to any selected height. Hoods (throat sizes up to 60" x 60") can be hinged to throat for swing open access from one side or split horizontally creating two sections for lift up access.

INSULATION/ANTI CONDENSATE

Mastic coating is available on the underside of the hood, or insulation (1" or 2") can be installed in either the hood or the throat.

HEAVY CONSTRUCTION

For high wind area applications, our high wind loading option assures your gravity ventilator will remain intact under wind conditions up to 125 miles per hour.

DAMPER MOUNT

Dampers can be mounted horizontally in the throat or vertically around the inside perimeter of the hood.

FILTERS AND RACKS

1" or 2" filters and racks, available in disposable or washable
(Note: disposable available on specific sizes only.)

FINISHES

A wide selection of finishes are available, including baked enamel, epoxy, and prime coat.



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