

# GIV GRAVITY OPERATED ROOF VENTILATOR

GIV Gravity Operated Roof Ventilators intake fresh air through the pressure difference between outside and inside air. An efficient throat and hood design allows for high volumes of fresh air intake while minimizing the induced pressure drop.

## FEATURES & BENEFITS

- 2:1 ratio of hood opening to throat area
- Standard square throats
- For rectangular throats - consult factory
- Durable aluminum or galvanized construction
- 0.050" aluminum hood with 0.080" aluminum base
- Resists harshest of weather conditions
- Miter-cut & continuously welded curb cap corners
- Hood with snap-back seams, spot-weld secured
- Bird screen of 1/2" x 1/2" galvanized wire mesh
- Maximum 600 FPM intake velocity
- Throat lengths range from 12" to 120"



## ACCESSORIES/OPTIONS

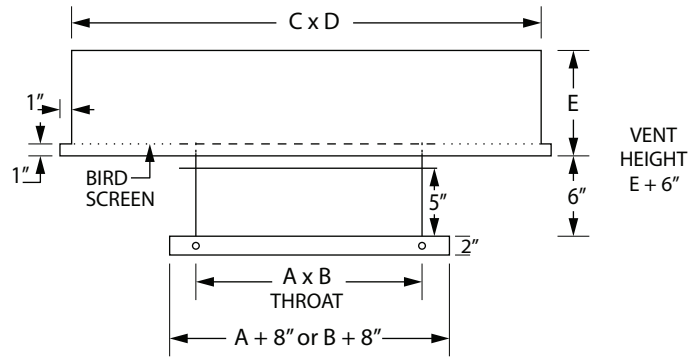
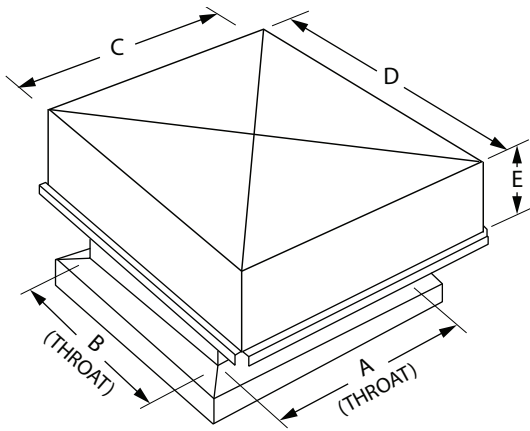
- 1" or 2" fiberglass insulation on hood
- Matching roof curbs & dampers
- Anti-condensate coating
- Lifting lugs
- 1" or 2" aluminum mesh filters
- 20 GA galvanized steel (48" max)
- Air-dried enamel paint

### PERFORMANCE (CFM @ 0.2 IN. WG)

		A (THROAT LENGTH)																
		12	14	16	18	20	22	24	28	30	36	40	42	48	54	60	66	72
B (THROAT WIDTH)	12	<b>1,307</b>																
	14	1,602	<b>1,866</b>															
	16	1,824	2,191	<b>2,435</b>														
	18	2,115	2,393	2,741	<b>3,078</b>													
	20	2,354	2,667	3,135	3,525	<b>3,905</b>												
	22	2,509	3,015	3,449	3,763	4,185	<b>4,606</b>											
	24	2,804	3,100	3,580	4,000	4,440	4,880	<b>5,300</b>										
	28	3,268	3,795	4,140	4,660	5,460	5,956	6,525	<b>7,579</b>									
	30	3,579	3,995	4,575	5,133	5,713	6,282	6,915	8,117	<b>8,413</b>								
	36	4,248	4,259	5,629	6,209	6,968	7,280	7,890	9,200	9,583	<b>10,850</b>							
	40	4,564	5,334	6,093	6,852	7,408	8,157	8,670	10,110	10,910	12,784	<b>14,102</b>						
	42	4,870	5,660	6,482	7,273	7,670	8,440	9,200	10,740	11,233	13,800	15,280	<b>15,663</b>					
48	5,566	6,660	7,368	7,900	8,520	9,610	10,550	12,130	12,687	14,874	16,533	16,457	<b>20,553</b>					
54	6,240	7,273	7,890	8,880	9,860	10,549	11,830	13,800	14,700	17,500	19,176	19,670	22,500	<b>23,729</b>				
60	6,936	8,064	8,780	9,622	10,696	12,050	13,160	15,300	16,350	19,750	20,814	21,930	24,000	26,395	<b>29,069</b>			
66	7,621	8,854	10,130	11,437	12,050	12,892	14,410	16,395	17,576	21,610	22,902	24,046	25,740	28,783	32,003	<b>34,936</b>		
72	8,317	9,698	11,089	12,148	13,440	14,400	15,710	18,270	19,680	23,500	25,373	26,418	28,080	31,394	34,793	37,363	<b>40,739</b>	
80	9,202	10,455	11,953	13,440	15,337	16,000	17,400	19,260	21,226	24,885	27,546	27,687	30,130	34,793	38,612	43,467	45,432	
84	9,687	11,194	12,786	14,169	15,677	17,247	17,898	21,310	22,840	25,551	28,919	29,075	31,220	37,665	40,535	44,596	48,648	
96	11,047	12,786	14,673	16,005	18,341	20,133	20,800	24,300	26,100	29,748	33,047	33,943	34,560	43,473	46,331	50,964	54,518	
108	12,799	14,441	16,108	18,499	20,068	22,007	23,500	27,300	29,100	33,381	37,185	38,901	38,947	46,913	51,921	55,781	60,622	
120	13,861	16,498	18,341	20,555	22,927	25,214	26,881	32,097	33,139	38,800	43,170	43,211	42,866	51,716	56,351	61,745	67,358	

Use the equation below to find the pressure drop at other airflows.  
 Eg. A gravity ventilator with a 12"x12" throat, supplying 1000 cfm:

$$P_2 = P_1 \left( \frac{\text{cfm}_2}{\text{cfm}_1} \right)^2 \quad P_2 = 0.2 \left( \frac{1000}{1307} \right)^2 \quad P_2 = 0.12" \text{ wg}$$



**DIMENSIONS IN INCHES\***

		B (THROAT WIDTH)																							
		12	14	16	18	20	22	24	28	30	36	40	42	48	54	60	66	72	80			84	96	108	120
A (THROAT LENGTH)	12	<b>21</b>	22	22	23	24	24	25	26	26	27	28	29	28	28	29	29	30	30	31	31	32	32	C	
		<b>7</b>	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	D
	14	<b>25</b>	25	26	27	28	28	29	29	30	30	30	31	32	33	33	34	34	35	35	36	36	36	C	
		<b>8</b>	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	D
	16	<b>28</b>	28	29	30	31	32	32	33	33	33	33	35	36	36	37	38	38	39	39	40	40	40	C	
		<b>9</b>	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	D
	18	<b>32</b>	33	33	34	35	36	37	38	38	39	40	40	41	42	43	43	43	43	44	44	45	45	C	
		<b>10</b>	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	D
	20	<b>35</b>	36	37	37	38	40	40	41	42	43	44	45	46	47	48	49	50	50	51	52	53	53	C	
		<b>11</b>	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	D
	22	<b>39</b>	40	40	42	43	44	45	46	46	47	48	49	50	50	51	52	53	53	54	55	56	57	C	
		<b>11</b>	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	D
	24	<b>42</b>	43	44	46	47	48	49	50	52	52	52	53	54	55	56	57	57	58	59	60	61	63	64	C
		<b>11</b>	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	D
	28	<b>51</b>	51	52	53	53	54	56	57	58	59	60	61	62	63	64	65	66	67	69	70	71	73	74	C
		<b>13</b>	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	D
	30	<b>53</b>	55	55	57	67	60	61	62	63	64	65	66	67	69	70	71	72	74	75	77	78	79	79	C
		<b>13</b>	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	D
	36	<b>63</b>	64	66	67	69	70	71	72	74	75	77	78	79	80	81	82	83	83	85	87	87	87	87	C
		<b>15</b>	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	D
40	<b>70</b>	71	73	74	76	77	79	81	83	83	85	87	87	87	87	87	87	87	87	87	87	87	87	C	
	<b>17</b>	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	D	
42	<b>74</b>	76	78	80	82	83	84	84	87	89	91	91	91	91	91	91	91	91	91	91	91	91	91	C	
	<b>18</b>	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	D	
48	<b>84</b>	87	88	89	92	94	95	96	97	98	98	98	98	98	98	98	98	98	98	98	98	98	98	C	
	<b>20</b>	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	D	
54	<b>95</b>	97	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	C	
	<b>23</b>	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	D	
60	<b>95</b>	96	109	111	113	115	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	C	
	<b>25</b>	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	D	
66	<b>98</b>	117	117	117	117	117	127	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	C	
	<b>25</b>	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	D	
72	<b>117</b>	128	130	133	136	172	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	C	
	<b>25</b>	28	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	D	

\*DO NOT USE FOR CONSTRUCTION

CONSULT FACTORY FOR CERTIFIED PRINTS

