

Econovent

Hooded Gravity Ventilators



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Econovent Product Details

STANDARD FEATURES

- Galvanized steel construction
- 1/2" Mesh galvanized bird screen
- Hoods on larger units reinforced with interior structural steel supports
- Vertical base seams
 - Larger units: continuously-welded
 - Smaller units: spot-welded
- Hood fastened to throat with sheet metal fasteners
- Integral curb cap
- Mill finish

OPTIONAL FEATURES

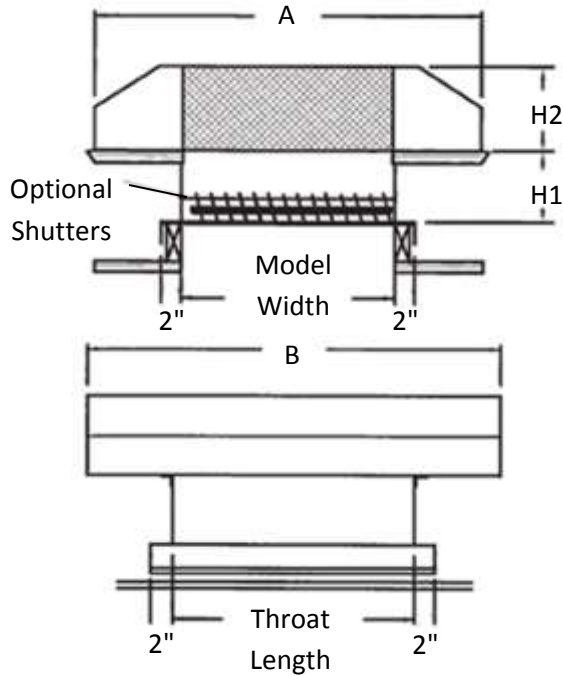
- Roof Curb
- Anti-condensate coating
- 1/2" Fiberglass insulation
- Aluminum construction
- Screens
 - Aluminum bird screen
 - Insect screen
- Air dry enamel
- Extra strength construction (100 mph)
- Back draft damper

APPLICATIONS

PRODUCT DESCRIPTION

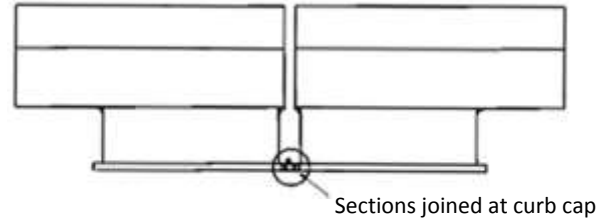
The Moffitt Econovent natural ventilators features a low silhouette that is architecturally appealing. It is designed for exhaust relief or air intake applications. It is available in galvanized steel, aluminum, or stainless steel construction.

Econovent Gravity Ventilator Submittal Data



Series 100- Exhaust
Series 200- Intake

Oversized & Special Units



When units have hoods with a dimension greater than 98" width or 144" in length, the ventilator is shipped in two or more sections. Almost no field assembly is required with the exception of joining the ventilator at the curb as shown above.

STANDARD FEATURES

- Galvanized steel construction
- 1/2" Mesh Galvanized Bird screen
- Hoods on larger units reinforced with interior structural steel supports
- Vertical base seams are continuously-welded on larger units and spot-welded on smaller ones
- Hood fastened to throat with sheet metal fasteners

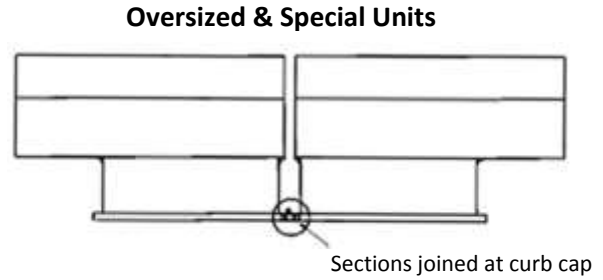
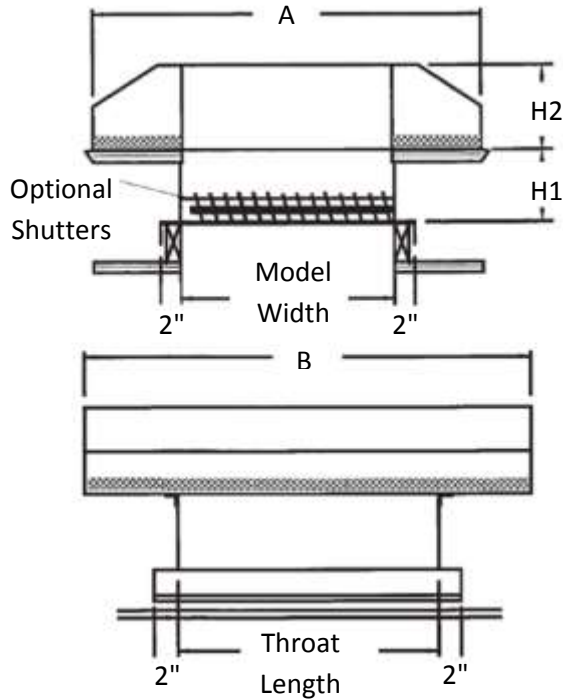
OPTIONAL FEATURES

- Roof Curb
- Anti-condensate Coating
- 1/2" Fiberglass Insulation
- Screens
 - Aluminum bird screen
 - Insect screen
- Insect Screen
- Air Dry Enamel
- Extra Strength Construction (100 mph)
- Back draft Damper

QTY	MODEL + THROAT W X L	HOOD SIZE A X B	HEIGHT H1 + H2	MATERIAL		CFM	THROAT VELOCITY	PRESSURE DROP	NO OF SECTIONS
				GALV	ALUM				

All specifications are subject to change without notice unless approved in submittal by Moffitt Corporation, Inc.

Econovent 200-F Filtered Intake Gravity Ventilator Submittal Data



When units have hoods with a dimension greater than 98" width or 144" in length, the ventilator is shipped in two or more sections. Almost no field assembly is required with the exception of joining the ventilator at the curb as shown above.

STANDARD FEATURES

- Heavy gauge galvanized construction
- 1" or 2" washable aluminum filters available
- Hood metal is stressed and pitched for proper drainage and to prevent oil canning
- Vertical base seams are continuously-welded on larger units and spot-welded on smaller ones
- Filters are easily removable w/o removing hood
- Integral curb cap
- Mill Finish

OPTIONAL FEATURES

- Roof Curb
- Anti-condensate Coating
- Aluminum Construction
- Aluminum Bird screen
- Insect Screen
- Air Dry Enamel
- Extra Strength Construction (100mph)
- Back draft Damper (Intake only)

QTY	MODEL + THROAT W X L	HOOD SIZE A X B	HEIGHT H1 + H2	MATERIAL		CFM	THROAT VELOCITY	PRESSURE DROP	NO OF SECTIONS
				GALV	ALUM				

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Econovent Gravity Ventilator- Dimensional Data
Square Foot Areas, Dimensions and Shipping Weights - Length x Width

LENGTH	WIDTH								
	12	14	16	18	20	24	30	36	
12	1.0 18 20 X 20 4 4								
14	1.2 22 20 X 22 4 4	1.4 27 24 X 24 5 5							
16	1.3 25 20 X 24 4 4	1.5 27 24 X 26 5 5	1.8 27 26 x 26 5 5						
18	1.5 25 20 X 26 4 4	1.7 27 24 X 28 5 5	2.0 33 26 x 28 5 5	2.3 39 30 x 30 5 6					
20	1.7 31 22 X 30 5 5	1.9 31 24 X 30 5 5	2.2 34 26 x 30 5 5	2.5 40 30 x 32 5 6	2.8 39 32 x 32 5 6				
24	2.0 33 22 X 34 5 5	2.3 33 24 X 34 5 5	2.7 38 29 x 37 5 6.5	3.0 41 30 x 36 5 6	3.3 65 32 x 36 5 6	4.0 87 40 x 40 7 8			
30	2.5 48 22 X 40 5 5	2.9 58 26 X 42 6 6	3.3 62 29 x 43 5 6.5	3.7 72 32 x 34 6 7	4.2 79 35 x 45 6 7.5	5.0 94 40 x 46 7 8	6.2 118 50 x 50 7 10		
36	3.0 56 24 X 48 5 6	3.5 64 26 X 48 6 6	4.0 69 29 x 49 5 6.5	4.5 82 30 x 50 6 7	5.0 89 35 x 51 6 7.5	6.0 105 40 x 52 7 8	7.5 128 50 x 56 7 10	9.0 184 60 x 60 9 12	
42	3.5 62 24 X 54 5 6	4.1 71 26 X 54 6 6	4.7 74 29 x 55 5 6.5	5.2 88 30 x 56 6 7	5.8 97 35 x 57 6 7.5	7.0 122 43 x 61 8 9.5	8.7 138 50 x 62 7 10	10.5 197 60 x 66 9 12	
48	4.0 68 24 X 60 5 6	4.7 80 28 X 62 6 7	5.3 85 31 x 63 6 7.5	6.0 106 36 x 66 7 9	6.7 113 38 x 66 7 9	8.0 132 43 x 67 8 9.5	10.0 157 53 x 71 8 11.5	12.0 210 60 x 72 9 12	
54	4.5 74 24 X 66 5 6	5.3 87 28 X 68 6 7	6.0 62 31 x 69 6 7.5	6.7 115 36 x 72 7 9	7.5 122 38 x 72 7 9	9.0 141 43 x 73 8 9.5	11.2 168 53 x 77 8 11.5	13.5 236 63 x 81 10 13.5	
60	5.0 81 24 X 72 5 6	5.8 94 28 X 74 6 7	6.7 99 31 x 75 6 7.5	7.5 123 36 x 78 7 9	8.3 134 38 x 78 7 9	10.0 176 46 x 82 9 11	12.5 201 53 x 83 8 11.5	15.0 257 63 x 87 10 13.5	
72	6.0 87 24 X 84 5 6	7.0 110 28 X 86 6 7	8.0 116 31 x 87 6 7.5	9.0 143 36 x 90 7 9	10.0 152 38 x 90 7 9	11.0 208 46 x 94 9 11	15.0 240 55 x 97 9 12.5	18.0 303 65 x 101 11 14.5	
84	7.0 95 24 X 96 5 6	8.2 123 28 X 98 6 7	9.3 130 31 x 99 6 7.5	10.5 160 36 x 102 7 9	11.7 169 38 x 102 7 9	12.0 231 46 x 106 9 11	17.5 264 55 x 109 9 12.5	21.0 330 65 x 113 11 14.5	
96	8.0 107 24 X 108 5 6	9.3 139 28 X 110 6 7	10.7 150 31 x 111 6 7.5	12.0 180 36 x 114 7 9	13.3 199 38 x 114 7 9	14.0 266 46 x 118 9 11	20.0 300 55 x 121 9 12.5	24.0 384 65 x 125 11 14.5	
108	9.0 117 24 X 120 5 6	10.5 157 28 X 122 6 7	12.0 168 31 x 123 6 7.5	13.5 202 36 x 126 7 9	15.0 225 38 x 126 7 9	18.0 342 46 x 130 9 11	22.5 337 55 x 133 9 12.5	27.0 432 65 x 137 11 14.5	
120	10.0 130 24 X 132 5 6	11.7 175 28 X 134 6 7	13.3 186 31 x 135 6 7.5	15.0 225 36 x 138 7 9	16.7 250 38 x 138 7 9	20.0 380 46 x 144 9 11	25.0 375 55 x 143 9 12.5	30.0 480 65 x 143 11 14.5	

Legend

Throat Area Net WT Galv.
A X B H1 H2

Econovent Gravity Ventilator- Dimensional Data cont.
Square Foot Areas, Dimensions and Shipping Weights - Length x Width

		WIDTH						
		42	48	54	60	72	84	96
LENGTH	42	12.2 239 68 x 68 10 13						
	48	14.0 253 68 x 74 10 13	16.0 287 77 x 77 11 14.5					
	54	15.7 283 71 x 83 11 14.5	18.0 303 77 x 83 11 14.5	20.0 339 83 x 83 12 17.5				
	60	17.5 313 71 x 89 11 14.5	20.0 339 80 x 92 12 16	22.5 351 83 x 88 12 17.5	25.0 375 83 x 96 12 17.5			
	72	21.0 364 74 x 104 11 16	24.0 405 83 x 107 12 17.5	27.0 425 91 x 96 13 22	30.0 455 91 x 107 13 22	36.0 511 96 x 120 13 22		
	84	14.5 397 74 x 116 11 16	28.0 440 83 x 119 12 17.5	31.5 459 91 x 113 13 22	35.0 512 91 x 125 13 22	42.0 766 110 x 124 13 24	49.0 911 118 x 134 13 27	
	96	28.0 440 74 x 128 11 16	32.0 512 83 x 131 12 17.5	36.0 512 91 x 129 13 22	40.0 550 91 x 144 13 22	48.0 822 110 x 142 13 24	56.0 960 118 x 154 13 27	64.0 1149 136 x 152 14 30
	108	31.5 504 74 x 140 11 16	36.0 576 83 x 143 12 17.5	40.5 544 91 x 144 13 22	45.0 710 96 x 152 13 22	54.0 880 118 x 150 14 27	63.0 1004 118 x 172 14 29	72.0 1212 136 x 172 14 30
	120	35.0 595 74 x 152 11 16	40.0 640 83 x 155 12 17.5	45.0 684 91 x 160 13 22	50.0 746 96 x 170 13 22	60.0 937 118 x 166 14 27	70.0 1052 118 x 90 14 29	80.0 1269 136 x 190 14 30

Legend

Throat Area	Net WT Galv.
A X B	H1 H2

All specifications are subject to change without notice unless approved in submittal by Moffitt Corporation, Inc.

Econovent Series 100 Ventilator Guide Specification

- 1.1. **DESCRIPTION**
Furnish and Install Series 100 Hooded Exhaust Ventilator and accessories as indicated on drawings.
- 1.2. **QUALITY ASSURANCE:**
MOFFITT (Jacksonville, FL, 1 800-474-3267) Products establish the standard of quality required. Manufacturer and erector shall demonstrate a minimum of five (5) years of related industry experience.
- 1.3. **SUBSTITUTIONS:**
No substitutions will be considered unless written request for approval has been submitted by the bidder and has been received by the designer at least ten (10) days prior to bid date. Any proposed substitutions should meet the standards set by the specification.
- 1.4. **SUBMITTALS:**
Furnish approval drawings prior to fabrication; and erection drawings prior to shipment showing all erection procedures and accessories required for the specified product.

- 2.1. **DESIGN:**
 - 2.1.1. Hood Exhaust (Relief) Ventilator shall be structurally sound and substantial with bracing where required.
 - 2.1.2. All hoods shall be spot welded or riveted at ends.
 - 2.1.3. Vertical base seams shall be continuously welded on units ____" and larger. Spot welding acceptable on sizes ____" to ____".
 - 2.1.4. Units ____" and larger to be reinforced with internal structural supports and have standing seam joints.
 - 2.1.5. Assembled and Knocked-down units to be storm-resistant construction. Severe weather Areas require storm baffles on relief units. Electrostatic dry type filters to be provided on intake units.
 - 2.1.6. Hood to be fastened to the throat of ventilator with sheet metal fasteners for easy removal.
 - 2.1.7. Hood throat to ____" length x ____" width. See schedule.
 - 2.1.8. Hoods greater than 96" width and 144" length to be built in two or more sections for minimum field assembly at joints at curb.
- 2.2. **CONSTRUCTION:**
 - 2.2.1. Base to be constructed of minimum ____ga (____") galvanized sheet metal. See schedule.
 - 2.2.2. Hood to be constructed of minimum ____ga (____") galvanized sheet metal. See schedule.
 - 2.2.3. Screen to be ½" mesh, 19ga bird screen standard.
- 2.3. **ACCESSORIES:** (Select as required)
 - 2.3.1. Automatic Back draft Damper- Gravity for Intake Applications
 - 2.3.2. 115vac Motorized Damper – Power Open, Spring Close
 - 2.3.3. Insect Screen
 - 2.3.4. Aluminum Construction
 - 2.3.5. Pre-fabricated Roof Curbs – Flat Roof
 - 2.3.6. Pre-fabricated Roof Curb – Sloped Roof ____Rise on ____Run
 - 2.3.7. Pre-fabricated Roof Curb – Ridge Mounting
 - 2.3.8. Anti-condensate Coating
 - 2.3.9. Air Dry Enamel
 - 2.3.10. ½" Fiberglass Insulation
 - 2.3.11. High Strength Construction - 100+ mph winds
 - 2.3.12. Stainless Steel Construction - special request

- 3.1. **INSPECTION:**
Examine Roof Curb prior to installation to ensure a true flat mounting condition. Make sure flat surface of curb is clear of debris to ensure proper adhesion of caulking material between vent and curb surface.
- 3.2. **INSTALLATION AND ERECTION:**
 - 3.2.1. Install Series 100 Hooded Exhaust Ventilator and Accessories in conformance with approved drawings and MOFFITT specifications.
 - 3.2.2. Any necessary hardware and caulking for ventilator shall be included with units.
 - 3.2.3. Any additional material to be provided by installing contractor.
- 3.3. **DAMAGED MATERIAL:**
Repair or replace all damaged material.

Econovent Series 200 Ventilator Guide Specification

1.1. DESCRIPTION

Furnish and Install Series 200 Hooded Exhaust Ventilator and accessories as indicated on drawings.

1.2. QUALITY ASSURANCE

MOFFITT (Jacksonville, FL, 1 800-474-3267) Products establish the standard of quality required. Manufacturer and erector shall demonstrate a minimum of five (5) years of related industry experience.

1.3. SUBSTITUTIONS

No substitutions will be considered unless written request for approval has been submitted by the bidder and has been received by the designer at least ten (10) days prior to bid date. Any proposed substitutions should meet the standards set by the specification.

1.4. SUBMITTALS

Furnish approval drawings prior to fabrication; and erection drawings prior to shipment showing all erection procedures and accessories required for the specified product.

2.1. DESIGN

2.1.1. Hood Intake (Supply) Ventilator shall be structurally sound and substantial with bracing where required.

2.1.2. All hoods shall be spot welded or riveted at ends.

2.1.3. Vertical base seams shall be continuously welded on units _____" and larger. Spot welding acceptable on sizes _____" to _____".

2.1.4. Units _____" and larger to be reinforced with internal structural supports and have standing seam joints.

2.1.5. Assembled and Knocked-down units to be storm-resistant construction. Severe weather areas require storm baffles on relief units. Electrostatic dry type filters to be provided on intake units.

2.1.6. Hood to be fastened to the throat of ventilator with sheet metal fasteners for easy removal.

2.1.7. Hood throat to _____" length x _____" width. See schedule.

2.1.8. Hoods greater than 96" width x 144" length to be built in two or more sections for min. field assembly at joints at curb.

2.2. CONSTRUCTION

2.2.1. Base to be constructed of minimum _____ga (____") galvanized sheet metal. See schedule.

2.2.2. Hood to be constructed of minimum _____ga (____") galvanized sheet metal. See schedule.

2.2.3. Screen to be ½" mesh, 19ga bird screen standard.

2.3. ACCESSORIES: (Select as required)

2.3.1. Automatic Back draft Damper- Gravity for Intake Applications

2.3.2. 115vac Motorized Damper – Power Open, Spring Close

2.3.3. Insect Screen

2.3.4. Aluminum Construction

2.3.5. Pre-fabricated Roof Curbs – Flat Roof

2.3.6. Pre-fabricated Roof Curb – Sloped Roof _____ Rise on _____ Run

2.3.7. Pre-fabricated Roof Curb- Ridge Mounting

2.3.8. Anti-condensate Coating

2.3.9. Air Dry Enamel

2.3.10. ½" Fiberglass Insulation

2.3.11. High Strength Construction (100 mph winds)

2.3.12. Stainless Steel Construction – special request

3.1. INSPECTION

Examine Roof Curb prior to installation to ensure a true flat mounting condition. Make sure flat surface of curb is clear of debris to ensure proper adhesion of caulking material between vent and curb surface.

3.2. INSTALLATION AND ERECTION

3.2.1. Install Series 200 Hooded Exhaust Ventilator and Accessories in conformance with approved drawings and MOFFITT specifications.

3.2.2. Any necessary hardware and caulking for ventilator shall be included with units.

3.2.3. Any additional material to be provided by installing contractor.

3.3. DAMAGED MATERIAL

Repair or replace all damaged material.