

XVentBox

Ventilation Systems

1. PRODUCT NAME

XVentBox.

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

XVentBox manufactures a full line of exhaust and intake ventilation termination products. The modular designs offer a wide array of venting options, including integrated gravity back draft dampers, removable front louver, multiple mounting options designed to work within all exterior wall assemblies, and custom color options. The XVentBox product line continues to evolve — providing the industry with products and features to simplify installation, reduce cost and improve Indoor Air Quality (IAQ), while improving the overall aesthetic appearance.

BASIC USE

XVentBoxes, available in single, double or triple outlet ventilation, are ideal for bath, dryer, kitchen hood and other ventilation requiring exterior exhaust or intake. The patented design is suited for multi-family, student housing, assisted living and hotel installations in new and retrofit projects and can be installed on a variety of finished exteriors, including siding, brick, stone, glass, stucco, metal panel and EIFS.

TYPES

Slim Ventilation Box:

Low profile ventilation termination cavity box

Single Ventilation Box:

Standard single termination cavity box

Mini Double Ventilation Box:

Compact double ventilation termination cavity box

Double Ventilation Box:

Double termination cavity box

Offered in a horizontal or vertical orientation

Triple Ventilation Box:

Triple cavity termination box

Offered in a horizontal or vertical orientation

In-line Sleeve:

Replacement for existing typical hooded wall caps

XWorks Custom Fabrication:

Atypical custom fabrications providing modified orientations, assemblies and shape



COMPOSITION AND MATERIALS

XVentBoxes are UV stabilized, high impact polypropylene and ABS, designed to withstand high temperatures and harsh environments. Each fully-assembled unit is comprised of a seamless, monolithic box cavity with a removable front louver, positive pitch sidewalls and integrated removable recessed gravity dampers.

SIZES

CAVITY BOXES

- Width range: 8.5" – 12.5"
- Height range: 4.5" – 12.5"
- Servicing 4" to 8" diameter duct port connections
- See Table 1

IN-LINE SLEEVE

- 4" or 6" diameter duct port connections
- See Table 1

COLOR

We can color match nearly any color in the Sherwin-Williams® or Benjamin Moore® color palette. We also can match a wide array of physical samples to get the exact designer color needed for your project.

Sherwin-Williams is a registered trademark of Sherwin-Williams Stores. Benjamin Moore is a registered trademark of Berkshire Hathaway.

BENEFITS

- Mounts flush with exterior building surface
- Paintable
- Gravity back draft dampers
- Removable front louver for periodic maintenance and inspection
- Prevents exterior air from entering interior area
- Prevents mold & mildew (with proper interior environmental conditions)
- Eliminates water intrusion when installed in accordance with manufacturer's recommendations
- UV stabilized
- Single step installation typical for most models
- 100% non-corrosive material
- Fits 4" to 8" diameter duct
- Box cavity designed not to interfere with structural reinforcement of exterior walls

OPTIONS

Custom configurations and custom colors are available.
Contact the manufacturer for information.

4. TECHNICAL DATA

APPLICABLE STANDARDS

- ICC-ES PC PMG - 1670 IMC, UMC, IRC (2023, 2021, 2018, 2015, 2012)
- ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
- ASTM E814 | UL - 1479 Standard for Test Method for Fire Tests of Penetration Firestop Systems (1 hr. Fire Rating)
- UL-94-VO Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances
- UL 723 Standard for test for surface burning characteristics of building materials
- ASTM D638 Standard Test Method for Tensile Properties of Plastics
- ASTM D790 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials

TECHNICAL PROPERTIES

-/+ PRESSURE LOADS

All XVentBox products have been tested for both inward pressure and outward air pressure structural loads.

- See Table 3

COMPRESSIVE STRENGTH

All XVentBox products have been tested for compressive strength.

- See Table 3

FLAMMABILITY

All XVentBox products have been tested for flammability by Intertek Testing Services Inc.

WATER PENETRATION

- See Table 2

5. INSTALLATION

Preparatory Work

Methods

XVentBox products are factory assembled and easily installed. Verify rough opening requirements. Comply with the manufacturer's installation instructions. Contact the manufacturer for additional information or visit www.xventbox.com.

Ambient Environment

Suited for internal and external applications In temperatures ranging from -40 to 235 degrees F.

Building Codes

Ensure installation complies with the requirements of all applicable local, state and federal codes having jurisdictions.

6. AVAILABILITY AND COST

XVentBox products are available throughout the United States, Canada and the Caribbean via a network of approved distributors. as well as direct consumer sales. Contact sales@xventbox.com or visit www.xventbox.com for pricing and availability.

7. WARRANTY

XVentBox offers a limited five year warranty against manufacturer's defects.

8. MAINTENANCE

Properly installed XVentBox products require little maintenance. XVentBox recommends an annual visual inspection, which can be easily performed by removing the louver. Clean as necessary. Observe damper operation and ensure all fasteners are secure. The system can be cleaned, if required, by using a vacuum and or a soft brush and soapy water.

9. TECHNICAL SERVICES

XVentBox has an experienced technical team, qualified in the field of engineering, who design, price and draw offered systems. Technical assistance, including detailed information, product literature, test results and assistance in preparing project specifications, is available from XVentBox. Contact customer service@xventbox.com or visit www.xventbox.com for additional information and support

10. FILING SYSTEMS

Additional product information is available from the manufacturer upon request



TABLE 1 TYPE AND SIZES

Model	Description	Exterior Application Options	Available Duct Sizes	Weight
SLIM-S SLIM-F SLIM-FC SLIM-BR	Slim, low profile single exhaust / intake recessed cavity box	S Series: fixed mounting flange - stucco and siding F Series: fixed trim flange - flush precast, metal panel FC Series: fixed trim flange with compression plate - glazing systems, composite panel systems, glass BR Series: adjustable mounting flange with 1"- 6" offset range - brick, stone, EIFS	4" 5"	S Series: 2.85lbs F Series: 2.95lbs FC Series: 3.00lbs BR Series: 3.05lbs
SEB-S SEB-RND-S SEB-F SEB-FC SEB-BR SEB-BRS	Standard single exhaust / intake recessed cavity box	S Series: fixed mounting flange - stucco and siding F Series: fixed trim flange - flush precast, metal panel FC Series: fixed trim flange with compression plate - glazing systems, composite panel systems, glass BR Series: adjustable mounting flange with 1"- 6" offset range brick, stone, EIFS BRS Series: mounting sleeve with 1"- 9" offset range brick, stone, EIFS	4" 6" 8"	S Series: 3.46lbs - 3.82lbs F Series: 3.65lbs - 3.85lbs FC Series: 3.40lbs - 4.00lbs BR Series: 3.46lbs - 3.96lbs BRS Series: 3.99lbs - 4.49lbs
MDEB-S MDEB-RND-S MDEB-F MDEB-FC MDEB-BR MDEB-BRS	Mini double exhaust / intake recessed cavity box	S Series: fixed mounting flange - stucco and siding F Series: fixed trim flange - flush precast, metal panel FC Series: fixed trim flange with compression plate - glazing systems, composite panel systems, glass BR Series: adjustable mounting flange with 1"- 6" offset range brick, stone, EIFS BRS Series: mounting sleeve with 1"- 9" offset range brick, stone, EIFS	4" x 4"	S Series: 3.85lbs - 3.95lbs F Series: 3.90lbs FC Series: 3.98lbs BR Series: 3.96lbs BRS Series: 4.49lbs
DVEB-S DVEB-F DVEB-FC DVEB-BR DVEB-BRS DHEB-S DHEB-F DHEB-FC DHEB-BR DHEB-BRS	Double exhaust / intake recessed cavity box, available in a vertical (DVEB) or horizontal (DHEB) configuration	S Series: fixed mounting flange - stucco and siding F Series: fixed trim flange - flush precast, metal panel FC Series: fixed trim flange with compression plate - glazing systems, composite panel systems, glass BR Series: adjustable mounting flange with 1"- 6" offset range brick, stone, EIFS BRS Series: mounting sleeve with 1"- 9" offset range brick, stone, EIFS	4" x 4" 4" x 6" 4" x 8" 6" x 6" 6" x 8"	S Series: 4.00lbs - 4.30lbs F Series: 4.04lbs - 4.38lbs FC Series: 4.11lbs - 4.43lbs BR Series: 3.75lbs - 4.40lbs BRS Series: 4.48lbs - 5.13lbs
Ⓢ TVEB-S TVEB-F TVEB-FC TVEB-BR TVEB-BRS THEB-S THEB-F THEB-FC THEB-BR THEB-BRS	Triple exhaust / intake recessed cavity box, available in a vertical (TVEB) or horizontal (THEB) configuration	S Series: fixed mounting flange - stucco and siding F Series: fixed trim flange - flush precast, metal panel FC Series: fixed trim flange with compression plate - glazing systems, composite panel systems, glass BR Series: adjustable mounting flange with 1"- 6" offset range brick, stone, EIFS BRS Series: mounting sleeve with 1"- 9" offset range brick, stone, EIFS	4" x 4" x 4" 4" x 4" x 6"	S Series: 3.75lbs - 4.01lbs F Series: 3.85lbs - 4.10lbs FC Series: 4.04lbs - 4.25lbs BR Series: 4.06lbs - 4.21lbs BRS Series: 4.79 lbs - 4.94 lbs
4-ILS-8F 4-ILS-12V 4-ILS-12H 6-ILS-8F 6-ILS-12V 6-ILS-12H 4/4-ILS-12V 4/4-ILS-12H 4/6-ILS-12V 4/6-ILS-12H	In-Line Sleeve available in an 8" (8F), vertical (12V) or horizontal (12H) configuration	Retrofit - available with an 8" louver (8F) or 12" x 8" (12V or 12H)	4" 6"	4-ILS: 1.76lbs - 1.97lbs 6-ILS: 1.91lbs - 2.10lbs 4/4-ILS: 3.25lbs 4/6-ILS: 3.68lbs

TABLE 2 FREE AREA AND WATER PENETRATION

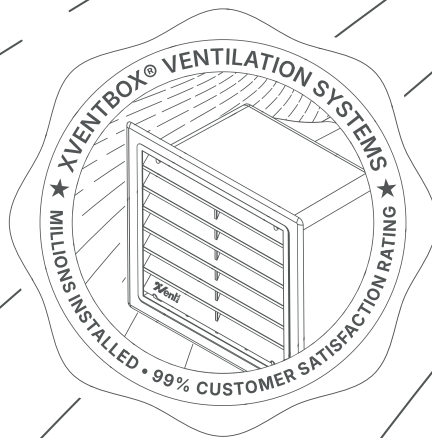
Product Models	Round Ducted Volume (Sq. In.)	Total Open Louver Free Area (Sq. In.)	Total Open Louver Free Area (Sq. Ft.)	Free Area %	Water Penetration Past Louver fpm (feet per minute)	Water Penetra- tion Past Damper fpm (feet per minute)	Ducted CFM Performance (cubic feet per min.)	Pressure Drop
DVEB	12.5 (4") 28.3 (6")	32.785	0.228	262% 116%	860 fpm	1390 fpm	165 cfm 300 cfm	0.04 0.05
	12.5 (4") 28.3 (6") 50.24" (8")	46.085	v0.32	369% 163% 92%			165 cfm 300 cfm 490 cfm	0.04 0.06 0.06
DHEB	12.5 (4") 28.3 (6")	32.785	0.228	262% 116%	860 fpm	1390 fpm	165 cfm 300 cfm	0.04 0.05
	12.5 (4") 28.3 (6") 50.24" (8")	46.085	0.32	369% 163% 92%			165 cfm 300 cfm 490 cfm	0.04 0.06 0.06
TVEB	12.5 (4") 28.3 (6")	32.785	0.228	262% 116%	860 fpm	1365 fpm	165 cfm 300 cfm	0.04 0.06
	12.5 (4")	23.04	0.16	184%			165 cfm	0.05
	12.5 (4")	23.04	0.16	184%			165 cfm	0.05
THEB	12.5 (4") 28.3 (6")	32.785	0.228	262% 116%	860 fpm	1365 fpm	165 cfm 300 cfm	0.04 0.06
	12.5 (4")	23.04	0.16	184%			165 cfm	0.05
	12.5 (4")	23.04	0.16	184%			165 cfm	0.05
MDEB	12.5 (4")	23.04	0.16	184%	860 fpm	1480 fpm	165 cfm	0.04
	12.5 (4")	23.04	0.16	184%			165 cfm	0.04
SEB	12.5 (4") 28.3 (6") 50.24" (8")	46.085	0.32	369% 163% 92%	860 fpm	1420 fpm	165 cfm 300 cfm 490 cfm	0.04 0.06 0.06
SLIM	12.5 (4") 19.6 (5")	26.42	0.183	211% 135%	860 fpm	1455 fpm	165 cfm 220 cfm	0.05 0.05
4ILS	12.5 (4")	11.38	0.079	91%	860 fpm	1380 fpm	125 cfm	N/A
6ILS	28.3 (6")	23.21	0.161	82%	860 fpm	1270 fpm	265 cfm	N/A

Information provided herein is an estimate, and any specifications listed should be independently verified. Benefits described herein apply only to the extent that the product is installed properly, with the correct fit, and used for its intended purpose. This document does not constitute a promise or warranty by Red Viking Group Inc that all products will perform as stated herein. Red Viking Group Inc disclaims any implied warranty of merchantability.

For product warranty, please see www.xventbox.com/warranty.

TABLE 3 PRESSURE LOADS AND COMPRESSIVE STRENGTH

PRESSURE TEST	
Slim Vent Box	max pressure +400/-440psf
Single Vent Box	max pressure +375/-450psf
Mini Double Vent Box	max pressure +380/-400psf
Double Vent Box (hor/ver)	max pressure +380/ -400psf
Triple Vent Box (hor/ver)	max pressure +390/-400psf
Inline Sleeve (4 or 6 inch)	max pressure +415/-390psf
COMPRESSIVE STRENGTH	
Slim Exhaust Vent Box	applied load +4640lbs / test strength 72 PSI
Single Exhaust Vent Box (4 or 6 inch)	applied load +3344lbs / test strength 73 PSI
Mini Double Exhaust Vent Box (hor/ver)	applied load +4845lbs / test strength 70 PSI
Double Exhaust Vent Box (hor/ver)	applied load +4845lbs / test strength 70 PSI
Triple Exhaust Vent Box (hor/ver)	applied load +3420lbs / test strength76 PSI
In-Line Sleeve	applied load +-----lbs / test strength -- PSI



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