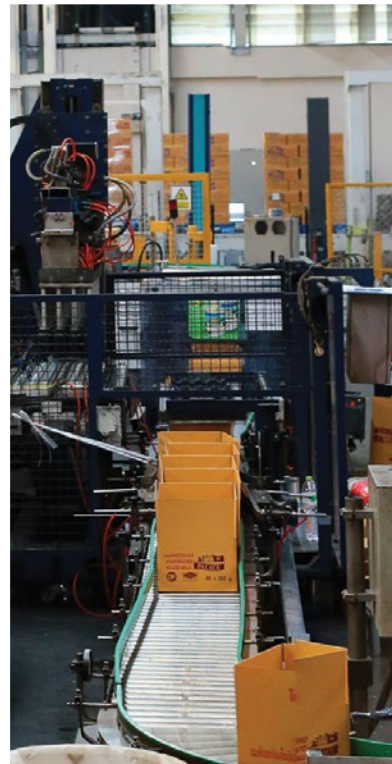




Your Ventilation
Company



V-5

Product Catalog

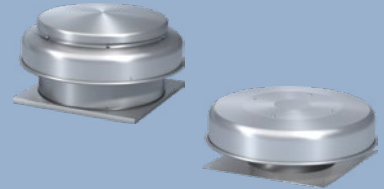


FANS



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GRAVITY VENTILATORS



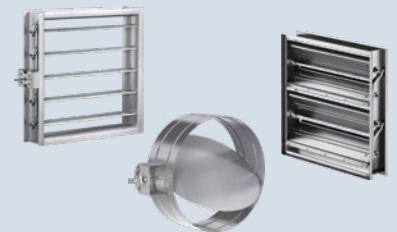
Page 24

MOTOR STARTERS



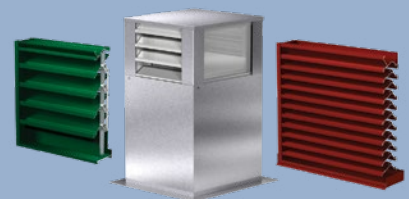
Page 25

DAMPERS



Pages 26 - 29

LOUVERS



Pages 30 - 31

WELCOME TO VENCO

INTRODUCTION

ABOUT US

Venco is a North American ventilation manufacturer with a dedicated focus on developing and producing rugged, high-quality products. Our engineers continuously improve existing, and introduce new solutions, based on the input they receive from our Venco manufacturer representatives around the globe and customers like you.

Venco offers a comprehensive line of air movement and control products that specifying engineers and contractors throughout the world have come to rely on. Every product we manufacture is thoroughly tested to ensure top performance and incomparable dependability.

In addition to reliable ventilation solutions, we offer best-in-class customer service to ensure you're taken care of before, during, and after a project is completed.

LICENSES AND CERTIFICATIONS



Venco Products certifies that the models VECD, VECB, VUCD, VUCB, VUSG, VAXE, VAXS, VQ shown here are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Venco Products certifies that the models VAX, VTIC, VJC sizes 6-8, VUSF B2, B3, B4, B5, B7, F1, F2, F3, VIP shown here are licensed to bear the AMCA Seal.



Venco Products certifies that the model VQI Level 3, shown here are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.



Venco Products certifies that the models VTIF, VJC sizes 12-15, VJHP, VUSF A1, A2, B1, B2, VAER, VBAER VQEI, VQEID, VECD, VECB, VUCD, VUCB, VUSG, VAXS, VAXE shown here are licensed to bear the AMCA Seal.



Venco Products certifies that the models VCFC and VCFI shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.



UL/cUL 507
E33599

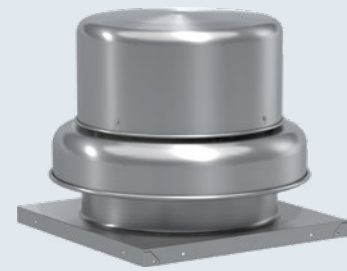
UL/cUL 705
E40001

UL/cUL 762
MH11745

UL/cUL Power Ventilators for Smoke Control MH17511

FANS

Roof & Sidewall Mounted



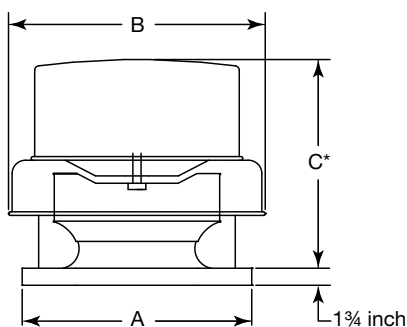
CENTRIFUGAL DOWNBLAST FANS are designed for clean air exhaust applications requiring roof mounting.

PERFORMANCE

- VECD capacities range from 50 to 14,500 cfm and 2.75 in. wg of static pressure.
- VECB capacities range from 70 to 44,700 cfm and 3.25 in. wg of static pressure.

Standard Construction	VECD	VECB
Housing - aluminum	▼	▼
Wheel - backward-inclined	▼	▼
Birdscreen - galvanized	▼	▼
Corrosion-resistant fasteners	▼	▼
NEMA-1 disconnect switch	▼	▼
Ball bearing motor - 1/4 hp and larger	▼	▼
Double-studded vibration isolators	▼	▼
Three speed motor - sizes 060 through 095	▼	
Lifting lugs		▼
Adjustable motor pulley		▼
Options and Accessories	VECD	VECB
EC motor - 80% turndown, 85% efficient Available as standard on select sizes	▼	
Damper	▼	▼
Hinged curb cap	▼	▼
Roof curb	▼	▼
Roof curb accessories - seals, adaptors, extensions	▼	▼
Speed control	▼	
Birdscreen - aluminum, stainless steel	▼	▼
Tie-down points	▼	▼
NEMA rated disconnect switch	▼	▼
Dual drives		▼
Relubricable bearings		▼
Decorative or protective powder coating	▼	▼
UL/cUL Listed Power Ventilators	▼	▼
UL/cUL Listed Power Ventilators for Smoke Control Systems		▼
AMCA Licensed for Sound and Air Performance	▼	▼

DIMENSIONS - In Inches

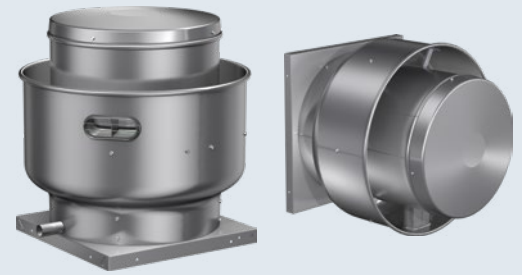


Model Size VECD/VECB	A	B	C*	Nominal Sq. Sizes		
				Damper	Roof Curb	Roof Opening
060, 070	17	19 ³ / ₈	12 ¹ / ₈	8	17	13 ¹ / ₂
080, 090, 095	17	21 ³ / ₄	14 ³ / ₈	10	17	13 ¹ / ₂
097, 098, 099, 100, 120	19	24 ³ / ₈	23 ³ / ₄	12	19	15 ¹ / ₂
130	19	28 ³ / ₈	23 ³ / ₄	12	19	15 ¹ / ₂
140, 160	22	28 ³ / ₈	23 ³ / ₄	16	22	18 ¹ / ₂
180, 200	30	35 ¹ / ₂	28	24	30	26 ¹ / ₂
220, 240	34	42 ³ / ₄	31 ¹ / ₂	24	34	30 ¹ / ₂
260, 300	40	50	36	34	40	36 ¹ / ₂
330, 360	46	58 ³ / ₄	38 ¹ / ₂	40	46	42 ¹ / ₂
420	52	65 ¹ / ₄	44	46	52	48 ¹ / ₂
480	58	73 ³ / ₄	47 ¹ / ₄	52	58	54 ¹ / ₂
500, 540	64	83	50 ³ / ₄	58	64	60 ¹ / ₂

Dimension A given is the inside dimension of the curb cap. *May be greater depending on motor.

FANS

Roof & Sidewall Mounted



CENTRIFUGAL UPBLAST OR SIDEWALL FANS are designed for clean or contaminated air exhaust applications requiring roof or wall mounting.

PERFORMANCE

- VUCD capacities range from 60 to 14,700 cfm and 3 in. wg of static pressure.
- VUCB capacities range from 180 to 30,000 cfm and 5 in. wg of static pressure.

Standard Construction	VUCD	VUCB
Housing fully-welded to curb cap with drain through size 240	▼	▼
Wheel - backward-inclined	▼	▼
One piece windband - aluminum	▼	▼
Corrosion-resistant fasteners	▼	▼
NEMA-1 disconnect switch	▼	▼
Ball bearing motor - 1/4 hp and larger	▼	▼
Double-studded vibration isolators	▼	▼
Three speed motor - sizes 060 through 095	▼	
Lifting lugs		▼
Adjustable motor pulley		▼
Options and Accessories	VUCD	VUCB
EC motor - 80% turndown, 85% efficient Available as standard on select sizes	▼	
Damper - not for use in grease applications	▼	▼
Hinged kit - NFPA required	▼	▼
Roof curb - NFPA requires vented roof curb	▼	▼
Roof curb accessories - seals, adaptors, extensions	▼	▼
Wall bracket	▼	▼
Grease trap - NFPA required	▼	▼
Speed control	▼	
Wall grille	▼	▼
Birdscreen - stainless steel	▼	▼
Clean-out port - NFPA required	▼	▼
Windband extension	▼	▼
Tie-down points	▼	▼
NEMA rated disconnect switch	▼	▼
Non-stick coating on wheel	▼	▼
Heat baffle		▼
Dual drives		▼
Relubricable bearings		▼
Decorative or protective powder coating	▼	▼
UL/cUL Listed Power Ventilators	▼	▼
UL/cUL Listed Power Ventilators for Restaurant Exhaust Appliances	▼	▼
UL/cUL Listed Power Ventilators for Smoke Control Systems		▼
AMCA Licensed for Sound and Air Performance	▼	▼

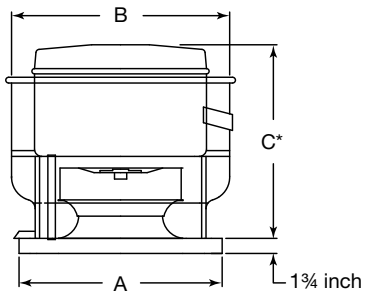
FANS

Roof & Sidewall Mounted



MODEL VUCD/VUCB

VUCD/VUCB



DIMENSIONS - In Inches

Model Size VUCD/VUCB	A	B	C*	Nominal Sq. Sizes		
				Damper [^]	Roof Curb	Roof Opening
060, 070	17	18 ³ / ₈	13 ¹ / ₂	8	17	13 ¹ / ₂
080, 090	19	21	13 ³ / ₈	10	19	15 ¹ / ₂
095	19	21	15 ¹ / ₄	10	19	15 ¹ / ₂
099, 100, 120, 130	19	24 ⁷ / ₈	28 ¹ / ₄	12	19	15 ¹ / ₂
140, 160	22	28 ⁷ / ₈	29 ³ / ₄	16	22	18 ¹ / ₂
180, 200	30	35 ³ / ₈	28 ⁵ / ₈	24	30	26 ¹ / ₂
220, 240	34	42 ³ / ₄	33 ⁷ / ₈	24	34	30 ¹ / ₂
300	40	50	36	34	40	36 ¹ / ₂
360	46	56 ¹ / ₁₆	39 ¹ / ₈	40	46	42 ¹ / ₂
420	52	65 ³ / ₈	44 ³ / ₄	46	52	48 ¹ / ₂
480	58	74 ³ / ₁₆	48 ¹ / ₈	52	58	54 ¹ / ₂

*Dimension A given is the inside dimension of the curb cap. *May be greater depending on motor.*

FANS

Roof & Sidewall Mounted



SEVERE DUTY CENTRIFUGAL UPBLAST FANS are designed for exhausting highly contaminated air in roof-mounted applications.

PERFORMANCE

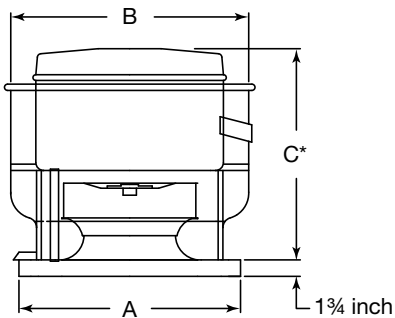
- VUSG capacities range from 330 to 6,800 cfm and 3.25 in. wg of static pressure.

Standard Construction

Housing - heavy-gauge steel
 Housing fully welded to curb cap with drain trough
 Wheel - backward-inclined, heavy-gauge steel
 Non-stick coating on wheel
 One piece windband - steel
 Corrosion-resistant fasteners
 NEMA-3R disconnect switch
 Assembled hinged base - NFPA required
 Clean-out port - NFPA required
 Ball bearing motor - 1/4 hp and larger
 Dual drives
 Relubricable bearings
 Heat baffle
 Double-studded vibration isolators
 Lifting lugs
 Adjustable motor pulley
 Polyester urethane protective powder coating
 UL/cUL Listed Power Ventilators for Restaurant Exhaust Appliances

Options and Accessories

Damper - not for use in kitchen applications
 Roof curb - NFPA requires vented roof curb
 Roof curb accessories - seals, adaptors, extensions
 Grease trap NFPA required
 Windband extension
 Tie-down points
 NEMA rated disconnect switch
 Decorative or protective powder coating
 UL/cUL Listed Power Ventilators for Smoke Control Systems
 AMCA Licensed for Sound and Air Performance



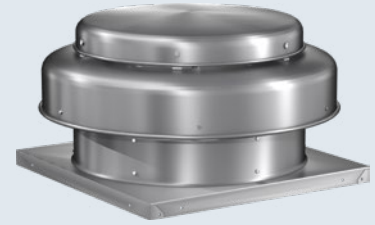
DIMENSIONS - In Inches

Model Size VUSG	A	B	C*	Nominal Sq. Sizes	
				Roof Curb	Roof Opening
140, 160	26	28 ⁷ / ₈	29 ³ / ₄	26	18 ¹ / ₂
180, 200	30	35 ³ / ₈	28 ⁵ / ₈	30	20 ¹ / ₂

Dimension A given is the inside dimension of the curb cap.
 *May be greater depending on motor.

FANS

Roof & Sidewall Mounted



DIRECT DRIVE AXIAL DOWNBLAST FANS are designed for clean air exhaust or supply applications requiring roof mounting. The propeller provides efficient airflow at low static pressures.

PERFORMANCE

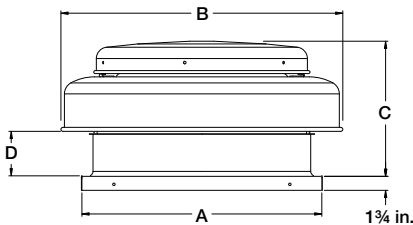
- VAXE capacities range from 250 to 6,000 cfm and 1 in. wg of static pressure.
- VAXS capacities range from 200 to 6,000 cfm and 1 in. wg of static pressure.

Standard Construction

- Housing - aluminum
- Propeller - aluminum
- Birdscreen - galvanized
- Corrosion-resistant fasteners
- NEMA-1 disconnect switch
- Ball bearing motor - 1/4 hp and larger

Options and Accessories

- Damper
- Roof curb
- Roof curb accessories - adaptors, extensions
- Birdscreen - aluminum
- NEMA rated disconnect switch
- Decorative or protective powder coating
- AMCA Licensed for Sound and Air Performance



DIMENSIONS - In Inches

Model Size VAXE/VAXS	A	B	C	D	Nominal Sq. Sizes
					Recommended Roof Opening
10	19	24 ⁵ / ₈	15 ¹ / ₂	5 ¹ / ₂	14 ¹ / ₂
12	22	28 ⁵ / ₈	16 ¹ / ₂	6 ¹ / ₄	14 ¹ / ₂
14	22	28 ⁵ / ₈	16 ¹ / ₂	6 ¹ / ₄	16 ¹ / ₂
16	26	35 ¹ / ₄	17 ¹ / ₄	6 ¹ / ₄	18 ¹ / ₂
18	30	35 ¹ / ₄	17 ¹ / ₄	6 ¹ / ₄	20 ¹ / ₂
20	34	42	17 ¹ / ₂	6 ¹ / ₄	26 ¹ / ₂
24					

FANS

Roof & Sidewall Mounted

ROOF CURBS

ROOF CURBS, EXTENSIONS AND EQUIPMENT SUPPORTS

A wide variety of roof curbs are available including flanged, straight-sided, canted, pitched, ridged, vented, and sound-absorbing. Extensions raise the fan discharge and can provide an accessible mounting location for dampers.

Options and Accessories

Damper trays

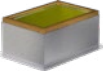




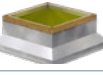





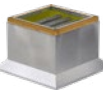

Insulation - all except GPE, VCE, GPFV, GPFVP, and GPFVR

Step for insulation - GPR only - up to 6 inches

Single pitch - GPI, GPF and ATS

Ridge mount - GPI, GPF and ATS

Double-shell construction - all except AT models and GPE

Product Type	Model	Description
 Flat, insulated or non-insulated roof decks	GPI - Galvanized 8-inch high, with or without damper tray, square sizes	Welded, straight-sided construction with rigid fiberglass insulation and 2-inch mounting flange
 Pitched or ridged, insulated or non-insulated roof decks	GPIR and GPIR - Aluminum or galvanized, other heights, non-stock square and rectangular sizes	
 Flat, non-insulated roof decks	GPS - All types, sized to meet your requirements	Welded, canted construction with rigid fiberglass insulation
 Flat, pitched or ridged, non-insulated roof decks	GPF - All types, sized to meet your requirements	Welded, straight-sided construction with rigid fiberglass insulation and 2 or 5-inch mounting flange
 Flat, insulated roof decks	GPFHL - All types, galvanized and aluminum	Welded, straight-sided construction with single roof flashing flange 5-inch width. One inch thick insulation.
	GPFHD - All types, galvanized	Welded, straight-sided construction with double-thick roof flashing flange 5-inch width. One inch thick insulation.
 Flat, insulated roof decks	GPR - All types, sized to meet your requirements	Welded, raised canted construction with rigid fiberglass insulation
 Adaptors/Reducers	Curb Adaptors and Reducers	Used to match new fans to existing roof curbs. Welded galvanized steel or aluminum.
 Flat, pitched or ridged roof decks in kitchen applications	GPFV, GPFVP, and GPFVR - Galvanized or aluminum, square sizes, other heights	Welded, vented straight-sided curb designed for use with our model VUCB fan to provide the 40 inch minimum discharge height above the roof line (per NFPA 96)
 Curb extensions in kitchen systems	VCE - Galvanized, square sizes	Welded, vented curb extension designed for use with an 8-inch high roof curb and our model VUCB fan to provide the 40 inch minimum discharge height above the roof line (per NFPA 96)
	VCE - Aluminum or galvanized, other heights, non-stock square sizes	
 Curb extensions	GPE, GPEX	Welded, with access door for easy access to the damper and damper actuator as well as fulfilling additional height requirements
 Equipment supports	GESI, GESS, GESR	Welded aluminum or galvanized canted construction
 Insulated and non-insulated flat roof decks, pitched roofs, curb extensions	ATS, ATR, ATE, ATI Sound attenuating curbs	Welded aluminum or galvanized canted construction for curbs, straight-sided for extensions with rigid fiberglass insulation
 Laboratory Exhaust Fans	GPFHL, GPFHD	Welded, straight-sided, insulated, 5-inch flashing flange

Sizing: Curb with wood nailer should be 1-1/2 inches undersized from curb cap dimension.
Curb without wood nailer should be 1 inch undersized from curb cap dimension.

FANS

Ceiling, Inline Exhaust



CENTRIFUGAL CEILING AND INLINE FANS are designed for clean air applications where low sound levels are desired.

PERFORMANCE

- VQ Ceiling capacities range from 50 to 1,600 cfm and 1 in. wg of static pressure.
- VQI Inline capacities range from 70 to 3,400 cfm and 1 in. wg of static pressure.

Standard Construction	VQ Ceiling		VQI Inline
	A	B	A
Housing - galvanized steel	▼	▼	▼
Housing - low profile		▼	
Housing - insulated	▼		▼
Wheel - forward-curved	▼	▼	▼
Access panel	▼	▼	▼
Electrical disconnect	▼	▼	▼
Electrical knockouts	▼	▼	▼
Electrical junction box	▼	▼	▼
Mounting brackets	▼	▼	▼
Backdraft damper	▼	▼	▼
Flanges - inlet and outlet			▼
Designer grille - up through size 390	▼	▼	
Aluminum grille - sizes 410 and larger	▼	▼	
Options and Accessories	VQ Ceiling		VQI Inline
	A	B	A
Discharge accessory - transitions <i>Available as standard on select sizes</i>	▼	▼	▼
Discharge accessories - roof, wall	▼	▼	▼
Electrical accessories - speed control, motion detector, time delay	▼	▼	▼
Transformer	▼	▼	▼
Switches - 1 or 2 function	▼	▼	▼
Minimum ventilation controller	▼	▼	▼
Firestat	▼	▼	▼
Dehumidistat	▼	▼	▼
Isolators - hanging	▼	▼	▼
Grille - standard or aluminum	▼	▼	
Filters	▼	▼	
Ceiling radiation damper	▼	▼	
Contractor 4 Packs - housing and motor packs separate		▼	
Motor: <ul style="list-style-type: none"> • 50 or 60 Hz (<i>select sizes</i>) • 115 or 277 volt (<i>select sizes</i>) • EC motor - 80% turndown, 85% efficient <i>Available on select sizes and models.</i>	▼		▼
AMCA Licensed for Air Performance			▼
AMCA Licensed for Sound and Air Performance	▼	▼	
UL/cUL Listed 507	▼	▼	▼

FANS

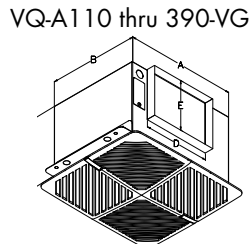
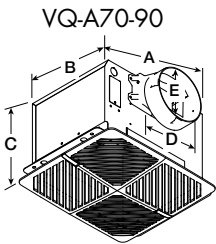
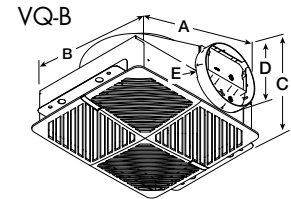
Ceiling, Inline Exhaust



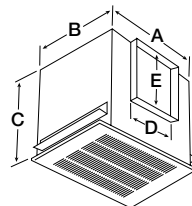
DIMENSIONS - In Inches

VQ Size	A	B	C	Outlet		Grille Size*
				D	E	
B50, B70, B80, B90, B110, B150, B200	13 $\frac{7}{8}$	11 $\frac{1}{2}$	7	6	1 $\frac{1}{4}$	14 $\frac{7}{8}$ x 13 $\frac{1}{4}$
A70, A90	13 $\frac{1}{4}$	10 $\frac{5}{8}$	9	6	6	14 $\frac{7}{8}$ x 13 $\frac{1}{4}$
A110, A125	13 $\frac{1}{4}$	10 $\frac{5}{8}$	9	8	6	14 $\frac{7}{8}$ x 13 $\frac{1}{4}$
A200, A250, A390	14	11 $\frac{7}{8}$	11 $\frac{1}{4}$	8	8	14 $\frac{7}{8}$ x 13 $\frac{1}{4}$
A410, A510, A510-VG	18	14 $\frac{3}{8}$	14 $\frac{1}{2}$	8	8	19 $\frac{3}{8}$ x 16 $\frac{3}{8}$
A700	23 $\frac{5}{8}$	11 $\frac{5}{8}$	11 $\frac{5}{8}$	19 $\frac{1}{2}$	8	25 $\frac{1}{8}$ x 13 $\frac{3}{8}$
A710, A710-VG, A780	18	14 $\frac{3}{8}$	14 $\frac{1}{2}$	10	8	19 $\frac{3}{8}$ x 16 $\frac{3}{8}$
A900, A1050, A1410, A1550	23 $\frac{3}{4}$	14 $\frac{3}{8}$	14 $\frac{1}{2}$	18 $\frac{7}{8}$	8	25 x 16 $\frac{3}{8}$

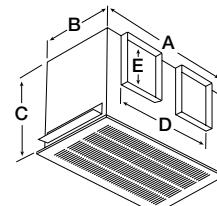
*Grille dimensions are for the standard grille



VQ-A510, 510-VG
VQ-A710, 710-VG & 780



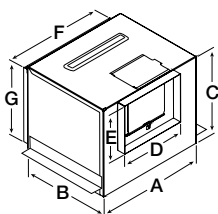
VQ-A700,
VQ-A900 thru 1550



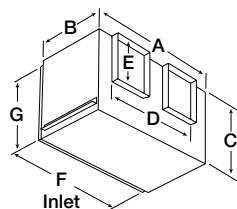
DIMENSIONS - In Inches

VQI Size	A	B	C	D	E	F	G
A110, A125	13 $\frac{1}{4}$	10 $\frac{5}{8}$	9	8	6	12	7 $\frac{3}{4}$
A200, A250, A390	14	11 $\frac{7}{8}$	11 $\frac{1}{4}$	8	8	12 $\frac{7}{8}$	10
A410, A510, A510-VG	18	14 $\frac{3}{8}$	14 $\frac{1}{2}$	8	8	16 $\frac{7}{8}$	13 $\frac{1}{4}$
A700	23 $\frac{5}{8}$	11 $\frac{5}{8}$	11 $\frac{5}{8}$	19 $\frac{1}{2}$	8	22 $\frac{5}{8}$	10 $\frac{1}{2}$
A710, A710-VG, A780	18	14 $\frac{3}{8}$	14 $\frac{1}{2}$	10	8	16 $\frac{7}{8}$	13 $\frac{1}{4}$
A900, A1050, A1410, A1550	23 $\frac{3}{4}$	14 $\frac{3}{8}$	14 $\frac{1}{2}$	18 $\frac{7}{8}$	8	22 $\frac{5}{8}$	13 $\frac{1}{4}$
A1750, A2150	35	14 $\frac{3}{4}$	14 $\frac{3}{4}$	28	6	32 $\frac{3}{4}$	13

VQI-A110 thru 510
VQI-A510-VG



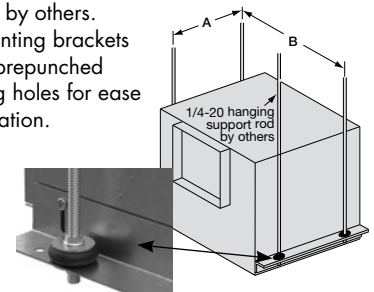
VQI-A700 thru 2150
VQI-A710-VG



HANGING VIBRATION ISOLATORS

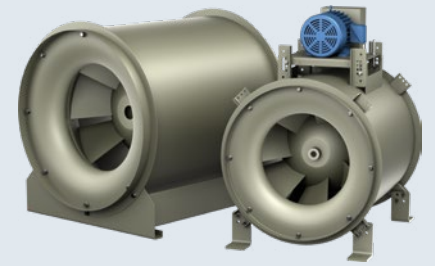
Vibration isolator kits are available for suspended installations. Kits include all hardware necessary to mount one unit, with the exception of 1/4-20 threaded rod to be supplied by others.

Fan mounting brackets include pre-punched mounting holes for ease of installation.



Model Size	A	B
B50 - B200	4 $\frac{1}{2}$	15 $\frac{5}{8}$
A70 - A125	5 $\frac{1}{2}$	14 $\frac{5}{8}$
A200 - A390	6 $\frac{3}{4}$	15 $\frac{1}{2}$
A410 - A510, A510-VG, A710, A710-VG & A780	9 $\frac{1}{4}$	19 $\frac{3}{8}$
A700	5 $\frac{1}{2}$	25 $\frac{1}{8}$
A900 - A1050, A1410 - A1550	9 $\frac{1}{4}$	25 $\frac{3}{8}$
A1750, A2150	9 $\frac{1}{4}$	36 $\frac{3}{4}$

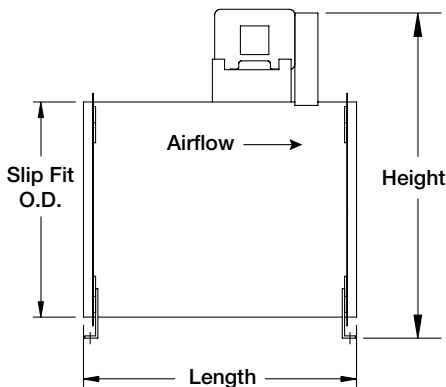
FANS | Inline & Sidewall Exhaust



MIXED FLOW FANS are for use in commercial and industrial applications that demand quiet, efficient and reliable air movement. Typical applications include office buildings, concert halls, libraries, parking garages, educational facilities and dormitories. Models can be used in exhaust, supply and return-air, clean or contaminated air ventilation installations with continuous airstream temperatures up to 200°F. Units may be ceiling hung or floor mounted.

PERFORMANCE

- VQEID DIRECT DRIVE capacities range from 700 to 88,000 cfm and up to 10 in. wg of static pressure.
- VQEI BELT DRIVE capacities range from 1,100 to 116,000 cfm and up to 8 in. wg of static pressure.



Standard Construction	VQEID	VQEI
Housing - continuously welded, steel	▼	▼
Impeller - mixed flow with steel blades	▼	▼
Straightening vanes	▼	▼
Access door - bolted	▼	▼
Slip-fit collar for duct connection	▼	▼
Belt guard		▼
Minimum bearing life of L ₁₀ 80,000 hours (Average life - L ₅₀ 400,000 hours)		▼
Universal mounting system (sizes 9 - 27)		▼
Final assembly vibration analysis	▼	▼
Extended lube lines		
Polyester urethane protective powder coating	▼	▼
Options and Accessories	VQEID	VQEI
Totally enclosed belt guard		▼
Motor cover		▼
Guards - inlet, outlet	▼	▼
Flanges - inlet, outlet	▼	▼
Isolators - base, hanging	▼	▼
Belt tube		▼
NEMA rated disconnect switch	▼	▼
Copper lube lines		▼
Mounting rails - horizontal and all vertical applications		▼
Decorative or protective powder coating	▼	▼
UL/cUL Listed Power Ventilators	▼	▼
UL/cUL Listed Power Ventilators for Restaurant Exhaust Appliances		▼
UL/cUL Listed Power Ventilators for Smoke Control Systems	▼	▼
AMCA Licensed for FEI, Sound and Air Performance	▼	▼

DIMENSIONS - In Inches

Size	Slip-Fit O.D.	VQEID-100		VQEI-100		VQEI-200		VQEI-300	
		Sizes - Length (Max)	Length (Max)	Length (flange to flange)	Height (Max)	Length	Height	Length	Height
9	17 ¹ / ₈	NA	NA	NA	NA	NA	NA	28 ¹ / ₂	36 ¹ / ₂
12	17 ¹ / ₈	25	25	26 ³ / ₈	36 ¹ / ₄	28 ¹ / ₂	36 ¹ / ₂	30 ¹ / ₂	36 ¹ / ₂
15	20 ⁷ / ₈	27	25	28 ⁷ / ₈	41 ⁷ / ₈	31	41	34	41
16	23	29	23	NA	NA	33	44	34	44
18	25 ³ / ₈	32.5	29	32 ⁷ / ₈	46 ⁵ / ₈	35	46 ¹ / ₂	39 ¹ / ₂	47 ¹ / ₂
20	27 ¹³ / ₁₆	33.5	34	35 ³ / ₈	48 ³ / ₄	37 ¹ / ₂	50 ¹ / ₂	41 ¹ / ₂	50 ¹ / ₂
22	30 ⁷ / ₈	36.5	35 ¹ / ₂	38 ⁷ / ₈	51 ⁵ / ₈	41	53 ¹ / ₂	44	53 ¹ / ₂
24	34	37.5	41 ¹ / ₂	42 ³ / ₈	56	44 ¹ / ₂	57 ¹ / ₂	49	59 ¹ / ₂
27	37 ⁷ / ₁₆	38.5	45	44 ⁷ / ₈	59 ¹ / ₂	47	61	53	63
30	41 ³ / ₈	NA	50	51 ⁷ / ₈	64 ¹¹ / ₁₆	54	65	60 ¹ / ₂	72
33	45 ³ / ₄	NA	54	56 ³ / ₈	67 ⁵ / ₁₆	58 ¹ / ₂	69	65	76 ¹ / ₂
36	50 ¹ / ₁₆	NA	58	NA	NA	64	75	69	82 ¹ / ₂
40	55 ³ / ₄	NA	61	NA	NA	68 ¹ / ₂	83	75 ¹ / ₂	90 ¹ / ₂
44	61 ⁵ / ₈	NA	70	NA	NA	74	89 ¹ / ₂	80 ¹ / ₂	97
49	67 ³ / ₄	NA	80 ¹ / ₂	NA	NA	80 ¹ / ₂	96 ¹ / ₂	86 ¹ / ₂	104
54	75	NA	83	NA	NA	87	105	93 ¹ / ₂	111
60	82 ⁷ / ₈	NA	NA	NA	NA	91 ¹ / ₂	113	102 ¹ / ₂	119

FANS

Inline & Sidewall Exhaust



UNIVERSAL MOUNTING Series 100 (All Sizes)

Brackets on belt or direct drive models are used for either horizontal or vertical mounting. For ease of installation, motor or junction box positions can be changed in the field for better access to components, solve fit issues, or avoid electrical trays and piping.

Mounting rails are suggested for any vertical installation and horizontal installations with motor positions C or G (3 or 9 o'clock). Motor positions as viewed from the discharge end.

HORIZONTAL MOUNTING SERIES 200 & 300 (SIZES 30-60)

Horizontal mounting configurations, base mount or ceiling hung, are provided with an identical support. The mounting configuration can be changed between base mount or ceiling hung in the field.

Mounting rails are recommended for installations C or G (3 or 9 o'clock) positions. Motor positions as viewed from the discharge end.

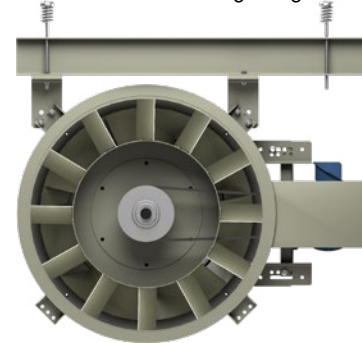
VERTICAL MOUNTING Series 200 & 300 (Sizes 9-27)

Vertical mounting configurations, upblast or downblast, are provided with heavy-duty steel brackets welded to both ends. These brackets permit either floor or ceiling mounting on the same unit.

Horizontal Base Mount



Horizontal Ceiling Hung



Optional
Mounting
Rails

Vertical Ceiling Hung



Optional
Mounting
Rails

Vertical Base Mount

FANS

Inline & Sidewall Exhaust



MODEL VTIC/VTIF

MODEL VTIC BELT DRIVE is a good selection where the motor must be mounted out of the airstream. Used with temperatures up to 180°F or contaminated air. Three levels of construction available.

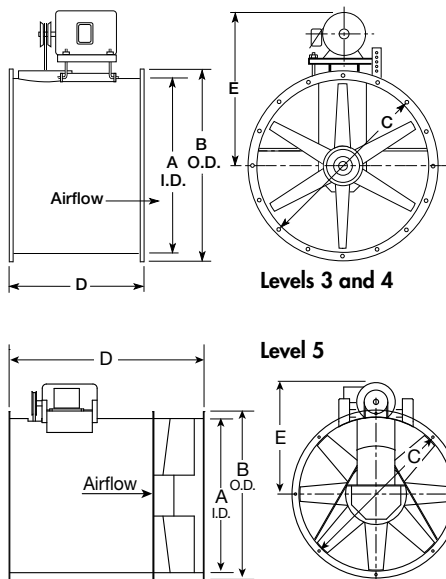
PERFORMANCE

- Capacities range from 1,300 to 95,000 cfm and up to 3.5 in. wg of static pressure.

MODEL VTIF BELT DRIVE FANS have motors out of the airstream. They are a good choice for clean or contaminated airstreams with temperatures up to 400°F. Three levels of construction available.

PERFORMANCE

- Capacities range from 6,000 to 77,000 cfm and up to 4.5 in. wg of static pressure.

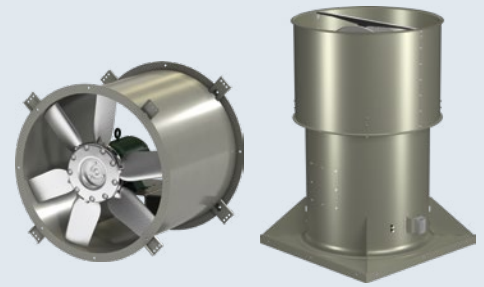


Standard Construction	VTIC	VTIF
Housing - continuously welded, steel	▼	▼
Cast aluminum hub and blades - airfoil	▼	
Fabricated steel hub and blades - airfoil		▼
Belt tube and bearing cover	▼	▼
Minimum bearing life of L ₁₀ 80,000 hours	▼	▼
Universal mounting system	▼	▼
Extended lubrication lines	▼	▼
Polyester urethane protective powder coating	▼	▼
Options and Accessories	VTIC	VTIF
Motor cover	▼	▼
Guards - inlet, outlet	▼	▼
Belt guard	▼	▼
Companion flanges	▼	▼
Isolators - base, hanging, spring	▼	▼
Easy access construction - bolted	▼	▼
Inspection door - bolted, hinged	▼	▼
Inspection section with removable access panel	▼	▼
NEMA rated disconnect switch	▼	▼
Mounting rails	▼	▼
Shaft seal	▼	▼
Inlet bell	▼	▼
Decorative or protective powder coating	▼	▼
Continuous Duty High Temperature		▼
UL/cUL Listed Power Ventilators	▼	▼
UL/cUL Listed Power Ventilators for Smoke Control Systems		
AMCA Licensed for FEI and Air Performance (Level 3 only)	▼	
AMCA Licensed for FEI, Sound and Air Performance		▼

VTIC Size	A (ID)	B (OD)	C (BC)	D	E	VTIF Size	A (ID)	B (OD)	C (BC)	D	E
3L18, 3H18				22	21¾	3L24, 3H24				23	26
4L18, 4H18	18%	21%	19¾	26	23½	4L24, 4H24	24¾	27¾	25¾	28	28
5L18, 5H18				38		5L24, 5H24				40	
3L20, 3H20				27		3L30, 3H30				24	29¼
4L20, 4H20	20%	23%	21¾	27	26¼	4L30, 4H30	30%	33%	32	33	32¾
5L20, 5H20				39		5L30, 5H30				45	
3L24, 3H24				28	28	3L36, 3H36				29	33¾
4L24, 4H24	24%	27%	25¾	40		4L36, 4H36	36¾	39¾	38	34	35¼
5L24, 5H24				24	29¼	5L36, 5H36				46	
3L30, 3H30				33	32¾	3L42, 3H42				30	37¼
4L30, 4H30	30%	33%	32	45	32¾	4L42, 4H42	42½	45¾	44¼	39	40
5L30, 5H30				29	33¾	5L42, 5H42				51	
3L36, 3H36				34	35¼	3L48, 3H48				33	40½
4L36, 4H36	36%	39%	38	30	37¼	4L48, 4H48	48½	52¾	50¾	44	45½
5L36, 5H36				46		5L48, 5H48				56	
3L42, 3H42				39	40	3L54, 3H54				37½	47¼
4L42, 4H42	42½	45¾	44¼	51	40	4L54, 4H54	55	59¼	57¼	48	49¼
5L42, 5H42				33	40½	5L54, 5H54				60	
3L48, 3H48				44	45½						
4L48, 4H48	48½	52¾	50¾	56							
5L48, 5H48				37½	47¼						
3L54, 3H54				48	49¼						
4L54, 4H54	55	59¼	57¼	40	50¾						
5L54, 5H54				49	54¾						
3L60, 3H60				61							
4L60, 4H60	61	65¼	63¼								
5L60, 5H60											

FANS

Inline & Sidewall Exhaust



DIRECT DRIVE MODEL VAX with increased performance capabilities and installation configurations to suit project needs. Casing options include long casing that completely covers the propeller and motor, and bolt-on vane section with 15% performance improvement. Provides total efficiencies in excess of 70% to help reduce upfront electrical expenses for new projects and will save building owners money on long-term energy bills.

Standard Construction

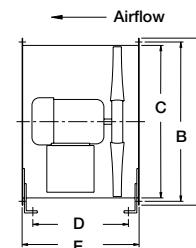
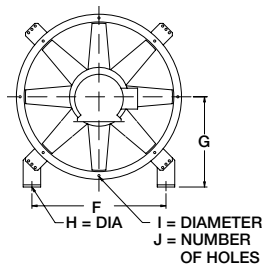
- Industrial polyester urethane protective powder coating
- High performance, adjustable propeller
- Cast aluminum hub and blades
- Tight tolerances between the blades and casing improve overall efficiency

Options and Accessories

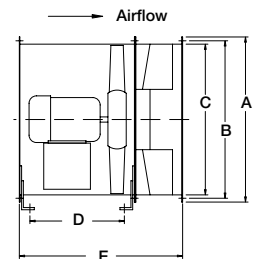
- Universal mounting brackets
- Companion inlet and outlet flanges
- Inlet bells
- Inlet and outlet guards
- Safety disconnect switches
- Isolators
- UL/cUL Listed Power Ventilators for Smoke Control Systems
- AMCA Licensed for FEI and Air Performance

PERFORMANCE

- Capacities range from 500 up to 125,000 cfm and 5 in. wg of static pressure.



VAX with Long Casing, Standard (VAX) Universal or Flange Mount

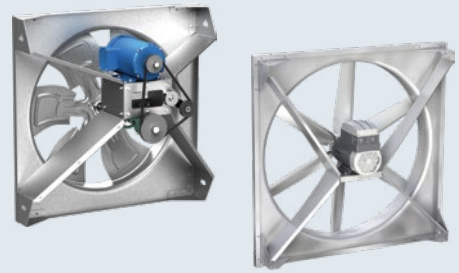


VAX with Vane Section (VAX-V) Universal and Flange Mount

DIMENSIONS - In Inches

Size	A	B	C	VAX/VAX-V		E	F	G	H	I	J
				D	E						
31	15	14	12¼	12¾	17	29	13¼	11½	0	7/16	8
36	17	16	14¼	12¾	17	29	14⅝	11⅞	0	7/16	8
41	19	18	16¼	15¾	20	32	16⅞	12½	0	7/16	8
47	21½	19¾	18¾	18¾	23	35	17¾	13¼	0	7/16	8
54	24½	23¼	21¾	23¾	28½	40½	19¾	14¾	0	7/16	8
63	27⅝	25¾	24¾	27⅞	31¾	43¾	22	16⅞	0	7/16	8
72	31⅝	30¼	28¾	29¾	34	46	24¾	17½	0	7/16	8
80	35⅝	34¼	32¾	27¼	34½	46½	27⅞	21	0	0	8
90	39¾	38	36¾	29¼	36½	48½	30⅝	22½	0	0	8
103	43¾	42¼	40¾	28¾	36½	48½	36⅞	26½	0	0	8
113	48¾	46½	44½	45½	49⅞	61⅞	40	28½	13/16	0	8
123	52⅞	50¾	48½	45½	49⅞	61⅞	44	29½	13/16	0	16
140	59⅞	57¼	55	45½	49⅞	61⅞	51	32	13/16	0	16
160	67⅞	65¼	63	45½	49⅞	61⅞	59	40	13/16	0	16

FANS | Inline & Sidewall Exhaust



MODEL VAER/VBAER

AXIAL PROPELLER SIDEWALL FANS are direct and belt drive fans with expanded performance ranges specifically designed for wall-mounted clean air applications. Constructed of corrosion-resistant galvanized steel and cast aluminum or fabricated steel propellers.

PERFORMANCE

- VAER DIRECT DRIVE capacities up to 78,600 cfm and 3.40 in. wg of static pressure.
- VBAER BELT DRIVE capacities up to 54,000 cfm and 3.30 in. wg of static pressure.

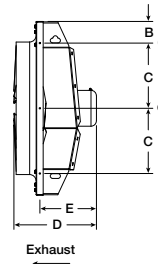
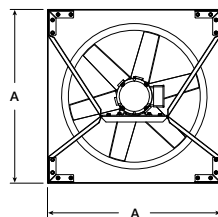
Standard Construction	VAER	VBAER
Fan panel and drive frame - galvanized steel	▼	▼
Propeller - fabricated steel	▼	▼
Propeller - cast aluminum	▼	▼
Prepunched mounting holes	▼	▼
Automatic belt tensioner		▼
Options and Accessories	VAER	VBAER
EC Motors - up to 80% turndown	▼	
Motor starters	▼	▼
Speed controls	▼	
Dampers	▼	▼
Wall housing	▼	▼
Wall collar	▼	▼
Weatherhoods - 45° and 90°	▼	▼
OSHA motor side guard	▼	▼
Propeller guard	▼	▼
Damper guard	▼	▼
Horizontal mounting	▼	▼
Wiring pigtails	▼	▼
NEMA rated disconnect switch	▼	▼
Decorative or protective powder coating	▼	▼
UL/cUL Listed Power Ventilators	▼	▼
AMCA Licensed for FEI, Air and Sound Performance	▼	▼

DIMENSIONS - In Inches

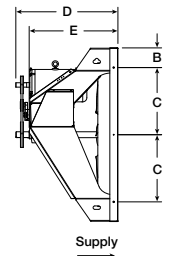
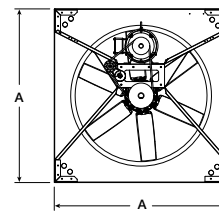
Fan Size	A	B	C	D* Max.	E* Max.	Damper Size Sq.
VAER Direct Drive						
20	26½	4	9½	20½	16½	22 x 22
24	32½	4	12½	22¾	18½	26 x 26
30	38½	5	14½	23¼	18¼	32 x 32
36	44½	5	17½	27½	18½	38 x 38
42	50¼	5	13¾	29	22¾	44 x 44
48	56½	5	14¾	29¾	22¼	50 x 50
54	62	5¾	12¾	8¾	3¼	56 x 56
60	68	5¾	11½	8¾	2¼	62 x 62
VBAER Belt Drive						
24	32½	4	12½	19½	16½	26 x 26
30	38½	5	14½	23¼	27¼	32 x 32
36	44½	5	17½	27½	22½	38 x 38
42	50¼	5	13¾	28	23½	44 x 44
48	56½	5	14½	32½	27½	50 x 50

*Varies with motor selection.

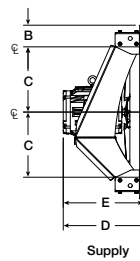
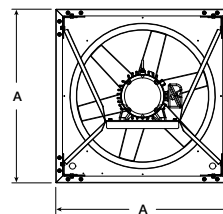
VAER EXHAUST



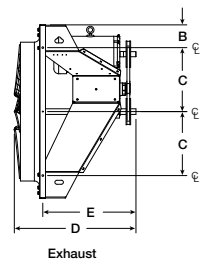
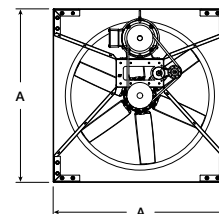
VBAER EXHAUST



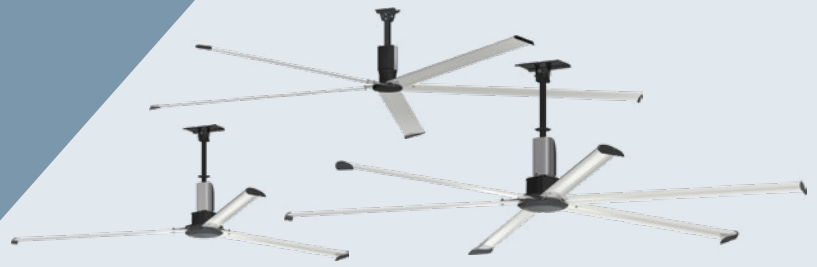
VAER SUPPLY



VBAER SUPPLY



FANS | HVLS Overhead



HIGH VOLUME, LOW SPEED (HVLS) ceiling fans provide airflow for effective air circulation and enhanced comfort in commercial and industrial spaces.

PERFORMANCE

- VCFC capacities range from 29,000 to 55,800 cfm.
- VCFI capacities range from 23,500 to 243,000 cfm.

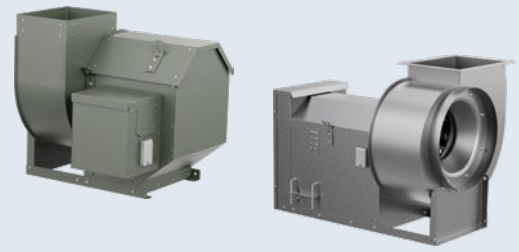
DIMENSIONS

For dimensional information please contact your local representative.

Standard Construction	VCFC	VCFI
Fan size (ft)	8 to 14	8 to 24
Extruded aluminum mill finish airfoils	▼	▼
Hi-Pro Polyester flat black mount, downtube, hub plate and winglets	▼	▼
Universal ceiling mount	▼	▼
2 ft. drop length	▼	
3.5 ft. drop length		▼
Direct drive EC motor	▼	▼
Factory-mounted and programmed variable frequency drive (VFD)	▼	▼
Plug-and-play wiring for power, communications, and fire system integration	▼	▼
Forward and reverse operation	▼	▼
Safety cable and guy wire kit (VCFC only includes guy wires for drop lengths ≥ 4 ft.)	▼	▼
U-clamp steel cable hardware	▼	▼
100 ft. of CAT-5e control cable	▼	▼
Fire relay (for fire suppression system)	▼	▼
10 year mechanical warranty; 1 year electrical warranty	▼	▼
UL/cUL 507 Listed	▼	▼
AMCA Licensed for Circulating Fan Performance	▼	▼
Options and Accessories	VCFC	VCFI
I-beam mounting kit	▼	▼
Steel truss mounting kit	▼	▼
Unistrut® mounting kit	▼	▼
Wood beam mounting kit	▼	▼
Z-purlin mounting kit	▼	▼
Gripple® steel cable hardware kit	▼	▼
LED light	▼	▼
Extended drop lengths	▼	▼
Extended length CAT-5e control cable	▼	▼
Disconnect switches - toggle type and heavy duty	▼	▼
Extended mechanical warranty - 13 or 15 year	▼	▼
Extended electrical warranty - 3 or 5 year	▼	▼
HVLS keypad controls for group control of 1, 3, 5, or 10 fans	▼	▼
HVLS standard touchscreen controls for independent control of 1, 3, 5, or 10 fans	▼	▼
HVLS advanced touchscreen controls for group or independent control of up to 10 fans	▼	▼
HVLS advanced touchscreen controls with BACnet®	▼	▼
Temperature and humidity sensors (advanced touchscreen controls only)	▼	▼
Finish options - for universal ceiling mount, downtube, hub plate and winglets (Hi-Pro Polyester); and airfoils (anodized, Hi-Pro Polyester or woodgrain)	▼	▼

FANS

Utility and Centrifugal



VENCO'S TIERED MODEL APPROACH gives you flexibility in size, performance and construction, matching the appropriate model to your application. Our centrifugal product line offers a variety of options in construction features, materials and performance by model.

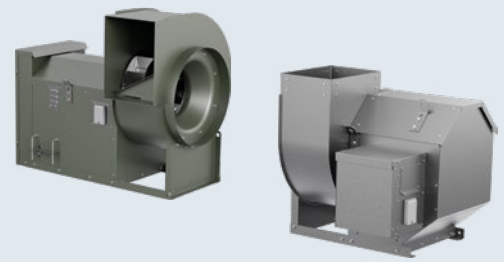


PERFORMANCE

Model Size	Maximum Capacities CFM	Static Pressure in. wg	Drive		Frame		Scroll Materials			
			Belt	Direct	Bolted	Welded	Galvanized	Coated Steel	Aluminum	Stainless Steel
VUSF	160,000	21	▼	▼	▼	▼	▼	▼	▼	▼

FANS

Utility and Centrifugal



MODEL VUSF BELT DRIVE

THE VUSF MODELS offer multiple levels of construction for the best value to match the intended application and performance.

Standard Construction

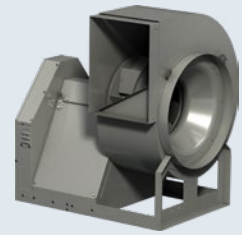
Housing - lock seam
Wheel - aluminum or steel
Rotatable housing (sizes 4 through 24; arrangement 1, 4 and 10; Class 0, I and II)
Corrosion-resistant fasteners
Ball bearing motor - 1/4 hp and larger
Motor pulley - constant or adjustable
Polyester urethane protective powder coating

Options and Accessories

Welded scroll construction
Wheel rotation - clockwise or counterclockwise
Spark resistance - A, B or C
Aluminum, airstream or entire unit
Stainless steel, airstream or entire unit
NEMA 3R disconnect
Isolators
Weatherhood
Shaft seal
Guards - inlet, outlet
Heat slinger, or high temp bearing
Extended lube lines
Drain connection
Access door, bolted
Access door, hinged
Flanges - inlet, outlet, companion
Sheaves, multiple groove
Sure-Aire™, airflow measurement
Extended life bearings
Equipment supports
Decorative or protective powder coating
UL/cUL Listed Power Ventilators
UL/cUL Listed Power Ventilators for Restaurant Exhaust Appliances
UL/cUL Listed Power Ventilators for Smoke Control Systems
AMCA Licensed for FEI, Sound and Air Performance - A1, A2, B1, B6
AMCA Licensed for FEI, Sound and Air Performance - A1, A2, B1, B6
Programmed VFD and controls

FANS

Fume & Laboratory Exhaust Systems



CENTRIFUGAL FAN SELECTION GUIDE

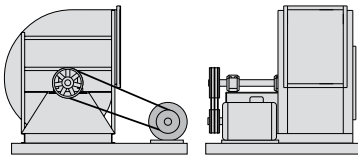
SPARK-RESISTANT CONSTRUCTION

Spark C - Includes aluminum inlet cone and rub ring

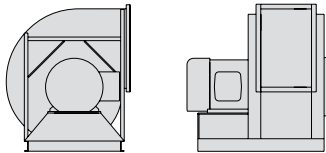
Spark B - Includes aluminum wheel and rub ring

Spark A - Includes aluminum wheel, aluminum scroll and aluminum inlet cone

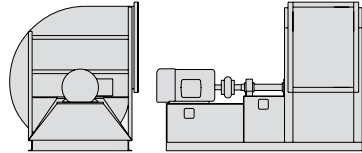
ARRANGEMENT 1 allows for an unlimited motor size and is suitable for high temperatures (up to 1,000°F) or contaminated air. The motor can be located in position W or Z around the fan shaft to ensure proper alignment. Isolation base required (by factory) or structural pad (by others).



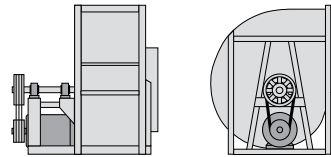
ARRANGEMENT 4 is direct drive with the wheel attached to the motor shaft. Arrangement minimizes maintenance with no sheaves, belt or fan shaft bearings. Provides the most compact design. Limited to temperatures below 110°F.



ARRANGEMENT 8 is direct drive with the motor attached to a fan shaft and bearing assembly. Arrangement is recommended for higher horsepower applications in lieu of belt drive. Bearings are located out of the airstream. Available heat fan package to 750°F.



ARRANGEMENT 10 is the most common fan arrangement. Motor is mounted under the bearing pedestal and can be enclosed with a weatherhood. Limited motor sizes, but arrangement provides smallest overall package size. No mounting base required.



WHEEL TYPES

Backward-Inclined Wheel

Centrifugal, non-overloading style with single-thickness flat blades. Most versatile wheel. Excellent for clean, high-temperature, or contaminated air.



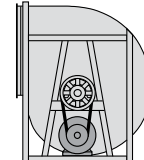
Airfoil Wheel

Centrifugal, non-overloading style with airfoil shaped blades. Higher operating efficiencies. Used for clean air applications.

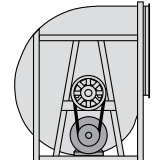


ROTATION

Choice between clockwise (CW) and counter-clockwise (CCW) as determined from the drive side. Rotation changes discharge location as illustrated below.



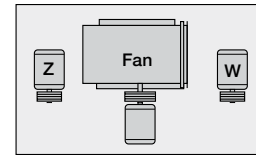
CCW



CW

MOTOR POSITIONS (Arrangement 1)

Motor position determined from the drive side. Letter assignment is independent of discharge position and fan rotation.



DISCHARGE POSITIONS

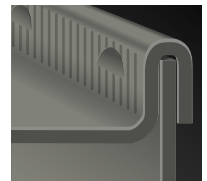
Utility Fans - determined from the drive side. Some models and sizes allow for field rotation.

CCW TH	CW TH	CCW BH	CW BH
CCW DB	CW DB	CCW BAU	CW BAU
		CCW UB	CW UB
		CCW TAU	CW TAU

HOUSING CONSTRUCTION

Lock Housing

Features an exclusive airtight lock seam. This seam provides a structural bond between the side panels and scroll wrap.



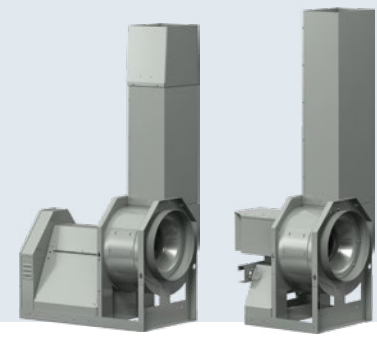
Welded Housing

Features a fully welded housing.



FANS

Fume & Laboratory Exhaust Systems



MODEL
VJC • COMMERCIAL
BELT DRIVE
VJI • INDUSTRIAL
BELT OR DIRECT DRIVE

FUME EXHAUST FANS with integral stacks are designed to safely remove and disperse fumes and odors. Fume exhaust systems replace utility set fans with field-supplied intake ducts and exhaust stacks to ensure a safe roof deck area and aid in preventing re-entrainment of contaminated air into air intake systems. The fan and stack have been designed and factory tested to withstand a force of 115 mph (33.9 psf) without the need for guy wires.

PERFORMANCE

- Capacities range from 200 to 18,000 cfm and up to 9 in. wg of static pressure.

FEATURES INCLUDE:

- 7 foot discharge height, 10 feet optional
- No guy wires (115 mph wind speed)
- Quick installation

APPLICATIONS INCLUDE:

- Grease/Smoke
- Food Processing
- Wastewater/Odor
- Diesel Generator Exhaust
- Industrial Process
- Hospital Clinic
- Sterilization

Standard Construction	VJC	VJI
Housing construction, lock	▼	▼
Housing construction, welded		▼
Material type - galvanized steel	▼	
Material type - coated steel	▼	▼
Temperature limit	400°F	500°F
Arrangement 4		▼
Arrangement 10	▼	▼
Wheel, backward inclined	▼	▼
Minimum bearing life of L ₁₀ 80,000 hours (Average life - L ₅₀ 400,000 hours)	▼	▼
Weatherhood	▼	▼
Slip-fit collar for inlet connection	▼	
Drain only	▼	
Drain connection		▼
Options and Accessories	VJC	VJI
Shaft seal - felt, neoprene	▼	▼
Spark B or C resistant construction	▼	▼
NEMA-3R disconnect	▼	▼
Mounting - equipment supports	▼	▼
Access door, bolted	▼	▼
Access door, hinged	▼	▼
Extended life bearings L ₁₀ 200,000 hours		▼
UL/cUL Listed Power Ventilators	▼	▼
AMCA Licensed for FEI and Air Performance: Model VJC sizes 6-8		
AMCA Licensed for FEI, Sound and Air Performance: VJC sizes 12-15 and VJI		

DISCHARGE OPTIONS

Straight Stack

Clean design with uniform straight discharge stack. Most economical discharge option.



Fixed Nozzle

Tapered nozzle discharge increases outlet velocity sending exhaust fumes higher above the roof deck area. Does not negatively impact fan performance.



Adjustable Nozzle

Allows the user to adjust the discharge area based on installed conditions. Four blade positions available.

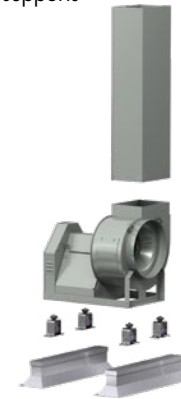


No-Loss Stack

Discharge stack designed to protect against rain water.



Fume Exhaust with restrained isolators and GESS equipment supports



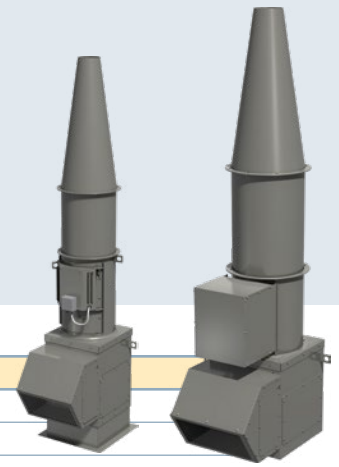
Fume Exhaust with curb cap inlet box and GPFHL roof curb



Exploded views reflect shipping splits and minimal on-site assembly required for Fume Exhaust systems.

FANS

Fume & Laboratory Exhaust Systems



VJHP MODELS use a conical outlet nozzle to accelerate the exhaust to a high velocity. This provides the exhaust with additional momentum for displacement high above the roof. The VJHP is a curb-mounted, self-contained unit, so installation time is reduced by eliminating costly field fabricated inlet and outlet duct. The optional bypass air plenum and damper accommodates constant and variable volume laboratories.

PERFORMANCE

Housing Style: Inline Centrifugal
 Stack Style: High Plume Nozzle
 Minimum Flow: 500 cfm (800 m³/hr)
 Maximum Flow: 26,000 cfm (44,200 m³/hr)
 Maximum ESP: 4 in. wg (1,000 Pa)

PERFORMANCE FOR VJHP

Model Size		9	10	12	13	16	18	22	24	30	36
Minimum CFM		300	420	600	810	1050	1320	1650	2760	3690	5310
Maximum CFM		1705	1960	2640	3160	7080	7880	10560	14760	19640	26000
Plume Rise at 3000 (ft./min.)	Minimum (ft.)	14	15	16	17	18	19	20	22	24	26
	Maximum (ft.)	19	19	20	21	25	26	30	33	37	42

Performance certified is for installation type A: Free Inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (Bhp) does not include transmission losses. Plume rise calculated assuming a 10 mph crosswind. 3,000 ft./min. is the minimum recommended outlet velocity per ANSI Z9.5. The AMCA Certified Ratings Seal does not apply to plume rise.

Standard Construction

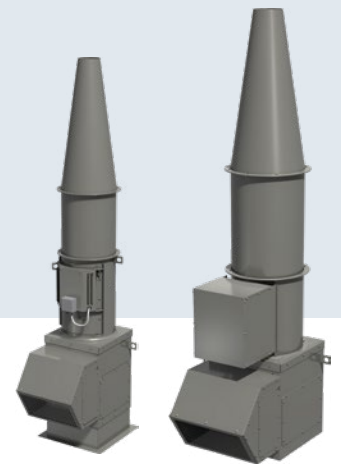
- Steel construction
- Hi-Pro Z - a two-part electrostatically applied coating
- Belt or direct drive configuration
- Designed and guaranteed to withstand 125 mph wind load ratings
- Constant speed drives
- Premium efficient, totally enclosed fan cooled motors, Class F insulation, VFD compatible
- Spark B resistant construction
- Minimum bearing life of L₁₀ 100,000 hours
- Aluminum wheel and shaft seal

Options and Accessories

- NEMA-3R disconnect
- Roof curb (12-, 18-, or 24-inch high)
- Bypass air plenum - bottom or side inlet
- Multiple fans on common plenum for redundancy
- Factory-mounted actuators - manual, electric
- Isolation dampers
- Bypass dampers
- UL/cUL Listed Power Ventilators
- UL Listed Power Ventilators for Restaurant Exhaust Appliances
- AMCA Licensed for Sound and Air Performance
- High wind certification - NOA certification #22-0217,03
- Seismic certification - HCAI OSP-0748

FANS

Fume & Laboratory Exhaust Systems



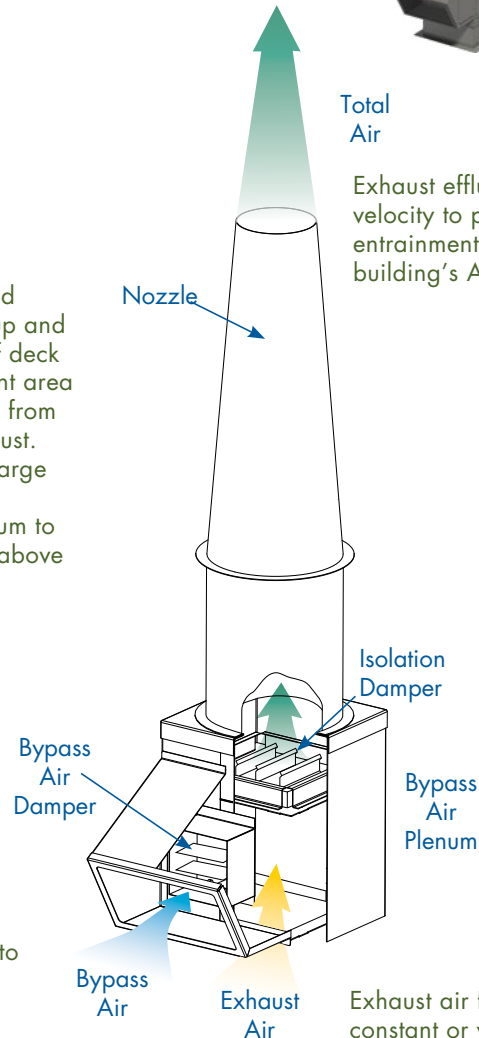
WHY USE A LABORATORY EXHAUST SYSTEM?

THE MAIN OBJECTIVE of a laboratory exhaust system is to remove hazardous or noxious fumes from a laboratory, dilute the fumes as much as possible, and expel them from the lab building so that the fumes do not contaminate the roof area nor are re-entrained into the building make-up air system.

Venco laboratory exhaust systems offer the following benefits:

- Significant plume rise without unsightly exhaust stacks that detract from the building aesthetics
- Significant dilution of laboratory exhaust effluent, reducing contaminant concentration
- Inline or side inlet centrifugal arrangements
- Reliable drive systems
- Efficient and quiet blower technology
- Application to constant or variable volume exhaust systems
- Efficient discharge nozzle design
- Safe and easy maintenance
- Multiple fan assemblies on a factory-provided common plenum
- Meets ANSI Z9.5, NFPA-45, and ASHRAE lab design guidelines

The efficient tapered nozzle directs air up and away from the roof deck to keep the adjacent area and personnel safe from contaminated exhaust. High-velocity discharge gives the exhaust additional momentum to be displaced high above the roof.



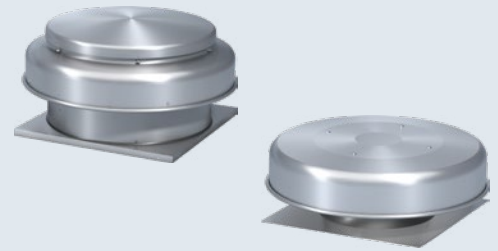
Total Air

Exhaust effluent with high velocity to prevent re-entrainment in through building's AHU.

Bypass air is used to keep constant fan volumes in a VAV building system. It maintains discharge velocity and effective plume height. Bypass air also is used to supplement laboratory exhaust for increased plume height or exhaust dilution.

Exhaust air from either constant or variable volume system.

GRAVITY VENTILATORS



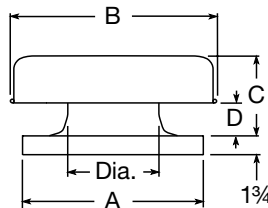
GRAVITY VENTILATORS are designed to relieve or take in air via building pressure. As buildings become pressurized, they will relieve the air from the building and as they come under a negative pressure, they will allow air into the building.

Standard Construction	VRSR	VRSI
Housing - spun aluminum	▼	▼
Birdscreen - galvanized	▼	▼
Corrosion-resistant fasteners	▼	▼
Options and Accessories	VRSR	VRSI
Damper	▼	▼
Roof curb	▼	
Roof curb accessories - adaptors, extensions	▼	▼
Birdscreen - aluminum	▼	▼
Insect screen	▼	▼
Insulation - 1/2 or 1-inch	▼	▼
Tie-down points	▼	▼
Decorative or protective powder coating	▼	▼

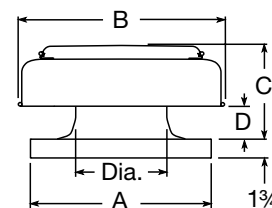
PERFORMANCE

- VRSI, VRSR capacities range from 170 to 8,100 cfm (intake performance) and 230 to 18,300 cfm (relief performance).

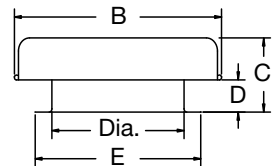
VRSR
Sizes 8 thru 24



VRSR
Sizes 30 thru 48



VRSI with Optional
Flashing Flange
Sizes 8 thru 24



DIMENSIONS - In Inches

Model Size	A	B	C	D	E	Dia.	Throat Area (ft ²)
8	19	20½	7¼	1½	20¼	8¼	0.37
10	19	20½	7¾	2	20¼	10¼	0.57
12	22	29	10	3½	23¼	12¼	0.82
15	22	29	10	3½	23¼	14¼	1.12
16	26	29	11	4¼	27¼	16¼	1.45
18	30	35½	9¾	1¾	31¼	20¼	1.83
20	30	35½	11¼	3¾	31¼	20¼	2.25
24	34	38¼	11	4	35¼	24½	3.24
30	40	48	18¾	5⅞	—	30½	5.03
36	46	56¾	21¼	10	—	36½	7.29
42	52	63¼	24¼	11¼	—	42½	9.77
48	58	72	26¼	11½	—	48½	12.83

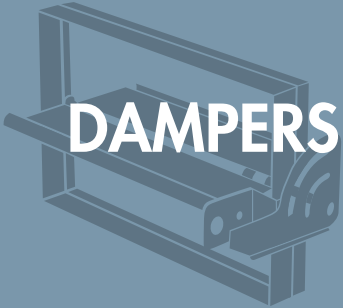
MOTOR STARTERS

MODEL MS-1P MSAC

MOTOR STARTERS are available for both single-phase and three-phase motors in commercial and industrial applications. They include basic motor protection as well as the ability to provide advanced motor protection SmartStart™. All motor starters are available in either indoor or outdoor enclosures.



	MS-1P Universal Single-Phase	MSAC Advanced Control
Description	Hand/Off/Auto (HOA) capability in a single phase package with wide range overload. Universal application.	An innovative and versatile starter. Proven for reliability and advanced control capability.
Ranges	1Ø, 110-240V, 0.1-1 hp	3Ø, 200-600V, 1-25 hp
User Interface	On/Off switch, recessed hand-auto mode switch, LED status indicators (power, run, fault).	Hand/Off/Auto (HOA) keypad with corresponding LED lights. LED status indicators (power, run, fault).
Overload Type	Wide range electronic overload (1-16FLA) class 10	Wide range electronic overload (1-40FLA) class 10 or 20
Control Features	<ul style="list-style-type: none"> • Voltage input from BMS • Auxiliary input (run command contact) • Motor status output • Fault alarm output signal 	<ul style="list-style-type: none"> • Voltage input from BMS • Auxiliary input (run command contact) • Motor status output • Fault alarm output signal • Fireman's override • Emergency shutdown • Damper control output and limit switch closed loop signal • Auxiliary input (stop command contact)
Enclosures	Compact design conceals hand/auto switch behind sliding door. Mounts on a single gang box. Indoor (NEMA-1) enclosure. Outdoor (NEMA-4 & 4X) enclosure is weather resistant.	Indoor (NEMA-1) enclosure constructed of 16-gauge steel. Lockable door. Outdoor (NEMA-3R & 4X) enclosure is weather resistant with a fully gasketed door. Constructed of 16-gauge steel. Door and keypad are lockable.
Disconnect	Allows manual control of input power to motor and provides short circuit protection.	Allows manual control of input power to motor and provides short circuit protection. Lockable handle, no fuses required. <i>Optional</i>
UL/cUL Listed	Listed for manual motor controller.	Listed for enclosed industrial control panel.



DAMPERS

Life Safety Dampers

- FIRE
- SMOKE
- COMBINATION



LIFE SAFETY DAMPERS are intended to protect openings in walls and/or partitions to prevent the spread of fire and/or smoke.

FIRE DAMPERS are required by all building codes to maintain the required fire resistance ratings of walls, partitions and floors when they are penetrated by air ducts and transfer openings. These products are tested and classified in accordance with UL Standard 555. Fire dampers close automatically upon detection of heat, blocking the opening and preventing the spread of fire into the adjoining compartment or spaces.

**Model**

DFD-110, 150, 210, 350
FD-110, 150, 350

SMOKE DAMPERS, two applications:

1. They may be applied in a passive smoke control system where they simply close and prevent the circulation of air and smoke through a duct or a ventilation opening in a smoke barrier.
2. They may be applied as part of an engineered smoke control system designed to control the spread of smoke using walls and floors as barriers and using the building's HVAC system and/or dedicated fans to create pressure differences.

These products are tested and classified in accordance with UL Standard 555S.

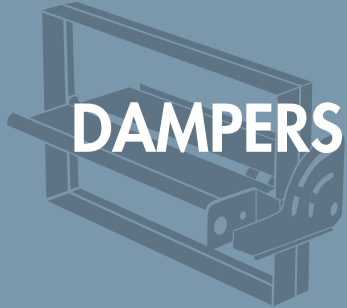
**Model**

SMD-201, 202, 301
SMDR-501

COMBINATION FIRE SMOKE DAMPERS perform the function of both a fire damper and a smoke damper. Building layouts and designs often combine fire and smoke rated partitions and barriers requiring the installation of both a fire damper and smoke damper at the same location. These products are tested and classified in accordance with both UL555 and UL555S.

**Model**

FSD-211, 212, 311
FSDR-511



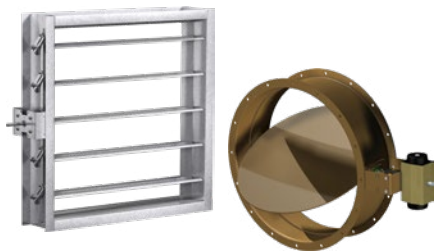
DAMPERS

Control Dampers

- HEAVY-DUTY/INDUSTRIAL
- VOLUME CONTROL • FACE/BYPASS
- MANUAL BALANCING
- INSULATED THERMALLY BROKEN



HEAVY-DUTY/INDUSTRIAL CONTROL DAMPERS have a heavy-duty flanged frame designed to regulate airflow and provide shutoff in HVAC or industrial process control systems. They are available in 3V, airfoil or round blade styles. The HCD series is designed for applications with pressure up to 45 in. wg and velocities up to 6,000 fpm. The HCDR series is designed for applications with pressure up to 20 in. wg and velocities up to 6,500 fpm.



Model

HCD-120, 130, 135, 220, 221, 230, 240, 324, 330, 430, 524, 530

HCDR-050, 150, 152, 250, 350, 351, 450

CONTROL DAMPERS are designed to regulate the airflow in an HVAC system. They can be used in intake, exhaust, or mixed air applications. These dampers require operation by either manual, electric or pneumatic actuators.

VOLUME CONTROL DAMPERS regulate the flow of air and can also be used as a positive shutoff or automatic control. They are available in 3V, airfoil, round and vertical blade styles.



Model

VCD-20, 23, 33, 40, 42, 43

VCDR-50, 53

VCD-23V, VCD-33V

INSULATED THERMALLY BROKEN CONTROL DAMPERS are used in applications where it is necessary to minimize the thermal transfer of energy and reduce condensation. The ICD-44 has thermally broken blades. The ICD-45 has thermally broken blades and frame.



Model

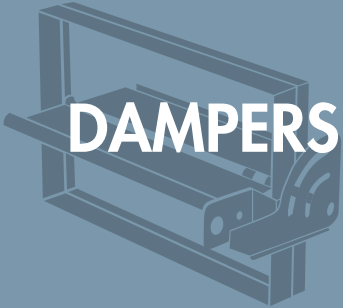
ICD-44, 45

BALANCING DAMPERS are designed to regulate flow of air in an HVAC system. They are used to accomplish system balancing. A manual balancing damper is equipped with a locking quadrant which fixes the damper blades in place after adjustment. These dampers are not intended to be used in applications as a positive shutoff or for automatic control.



Model

MBD-10, 15; MBDR-50



DAMPERS

Backdraft & Relief

- BACKDRAFT
- BAROMETRIC RELIEF
- HEAVY-DUTY/INDUSTRIAL BACKDRAFT
- PRESSURE RELIEF



BACKDRAFT DAMPERS are used in ventilation systems to allow airflow in one direction and prevent airflow in the opposite direction. A relief damper has an elevated and adjustable start-open pressure while providing the backdraft function.

BACKDRAFT DAMPERS can be used as exhaust or intake dampers. To help open the damper blades, backdraft dampers use springs, adjustable counterbalance weights, or a motorpack.



Model

BD-100, 300, 320, 330
 WD-100, 110, 120, 200, 210, 220, 300, 320, 330, 400, 410, 420, 430
 EM-10, 11, 12, 30, 31, 32, 40, 41, 42
 WDR-53

HEAVY-DUTY/INDUSTRIAL BACKDRAFT DAMPERS have a flanged frame and are designed to prevent backflow at static pressures up to 20 in. wg. Counterbalance weights are mounted externally for easy adjustment and balancing in the field.



Model

HB-110, 120, 230, 240, 330
 HBR-050, 150

BAROMETRIC RELIEF DAMPERS are backdraft dampers with an adjustable start-open pressure. They are used for gravity ventilation and low velocity systems. Counterbalance weights provide the ability to fine tune start-to-open and full-open operation.



Model

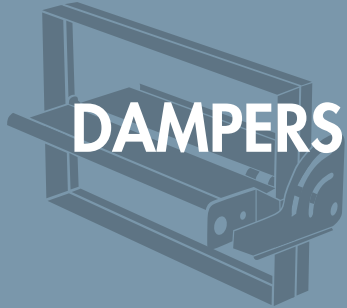
BR-10, 11, 12, 30, 31, 32, 40, 41, 42

PRESSURE RELIEF DAMPERS are backdraft dampers with adjustable start-open pressure, capable of maintaining a relatively constant pressure at various airflows, which closes upon a decrease in differential pressure. Pressure relief dampers do not immediately open fully upon reaching their start-open pressure. HPR series dampers are flange mounted with counterbalance weights mounted externally for easy adjustment and balancing in the field.



Model

HPR-120, 230, 330



DAMPERS

Specialty Dampers

- BLAST
- TORNADO
- BUBBLE-TIGHT



SPECIALTY DAMPERS have been developed to perform in industrial and severe environment conditions.

BLAST DAMPERS are designed to remain open under normal operating conditions to allow normal airflow. In the event of an explosion, the HBS series are designed to react to the shock-wave and close, helping to contain the explosion. These models are double flanged channel frame style dampers with single thickness blades. The HBS-330/430 will close



in the same direction as normal flow. The HBS-331/431 will close in the opposite direction as normal flow.

Model

HBS-330, 331, 430, 431

TORNADO DAMPERS are designed to remain open during normal operating conditions to allow normal airflow. In the event of a tornado, the HTOD series are designed to react to rapid pressure changes. These models are double flanged channel frame style dampers with single thickness blades. The HTOD-330 will close in the same direction as normal flow. The HTOD-

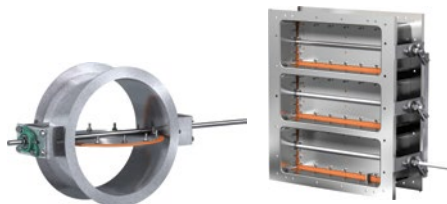


331 will close in the opposite direction as normal flow.

Model

HTOD-330, 331

BUBBLE-TIGHT DAMPERS are designed for isolation applications. Bubble-tight means the damper has the lowest possible leakage: zero. Every bubble-tight damper is factory leakage tested to ensure a bubble-tight seal. This damper is recommended for two-position shutoff applications.



Model

HBT-221; HBTR-151, 451, 551

LOUVERS

- STATIONARY
- COMBINATION

STATIONARY

STATIONARY EXTRUDED ALUMINUM LOUVERS are used in applications that require intake and exhaust ventilation with moderate protection from rain and weather infiltration. Drainable and non-drainable models available.

DRAINABLE BLADES

Designed with a drainable head and drainable blades to protect air intake and exhaust openings in the building's exterior walls by minimizing water penetration. Drain gutters are located on every blade to capture water which is dispersed to the jambs and drained out of the sill.



Model

VASD-2, 4, 6

NON-DRAINABLE BLADES

Designed to incorporate traditional non-drainable J style blades with sloped sill. High free areas provide minimum resistance to airflow. Design incorporates hidden mullions when multi-wide sections are needed.



Model

VASJ-2, 4, 6

COMBINATION

EXTRUDED ALUMINUM COMBINATION LOUVER/ DAMPERS incorporate operable and stationary blades into one common frame member. Design maintains a stationary appearance when adjustable blades are closed. A tight seal is created to prevent the passage of air.

DRAINABLE BLADES

All models include drainable stationary blades and a drainable head member. Drainable adjustable blades have either concealed blade linkage or exposed on-blade linkage. Design incorporates airfoil adjustable blades for less airflow resistance.



Model

VACC-4, 6

LOUVERS

- ADJUSTABLE
- WIND-DRIVEN RAIN
- PENTHOUSE

ADJUSTABLE

ADJUSTABLE EXTRUDED ALUMINUM OPERABLE BLADE LOUVERS are designed to be open or closed to protect air intake and exhaust openings in exterior building walls. Louver blades are center pivoted and can be operated manually or by any commonly specified damper actuator.

DRAINABLE BLADES

In the open position these louvers function as a conventional louver while providing tight shutoff from air and other elements when in the closed position.



Model

VAAD-4, 6, 6W

WIND-DRIVEN RAIN

WIND-DRIVEN RAIN LOUVERS are Venco's most effective louvers in minimizing water penetration through wall openings. Designed to protect air intake and exhaust openings in building exterior walls that are sensitive to the penetration of wind-driven rain.

HORIZONTAL BLADES

Horizontal blades offer the traditional louver look and excellent protection against wind-driven rain.



Model

VAHH-5

VERTICAL BLADES

Vertical blades offer the best protection against wind-driven rain although the vertical blade look is not typical.



Model

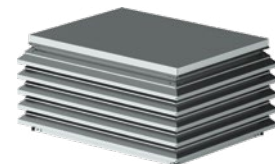
VAVH-5

PENTHOUSES

LOUVER PENTHOUSES offer clean lines, mitered corners, all aluminum construction and removable hoods.

For complete product information on Model VLPI Intake and VLPR Relief, contact your local representative.

THE LOW SILHOUETTE LOUVERED PENTHOUSES are designed for intake (VLPI) or relief (VLPR) applications with either natural gravity or positive pressure systems. These units feature a storm-proof aluminum louver with mitered corners and clean horizontal lines. The design affords lower pressure drops while maintaining low hood heights. Removable cover is lined with fiberglass to prevent condensation. Maximum throat dimension is 60 x 120 inches.



Model

VLPI, VLPR



VENCO ™

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