

## WhisperValue® DC Ventilation Fans and Fan/Lights

### WhisperValue® DC VENTILATION FAN

Fan Only Models: FV-0510VS1, FV-0810VSS1, FV-0510VSC1

Fan/Light Models: FV-0510VSL1, FV-0810VSSL1,  
FV-0510VSCL1



#### HEALTHY AIR, HEALTHY HOME

True Flow ratings at **0.375"** static pressure provide powerful airflow to assure code compliant, healthy homes.

- Pick-A-Flow® Airflow Selector (50<sup>1</sup>, 80 or 100 CFM) combined with SmartFlow™ technology simplifies the selection process and ensures optimum performance to meet code and reduce callbacks
- Optional built-in Multi-Speed Control for ASHRAE 62.2 compliance<sup>2</sup>
- Optional built-in Condensation Sensor to control moisture in the bathroom<sup>3</sup>
- Lighted models incorporate one 10W dimmable LED chip panel with <1W LED night light for warm, energy efficient illumination (night light must be wired separately)
- 3-3/8" Housing Depth – lowest profile ENERGY STAR® fan available – fits anywhere!
- Unique L-Shaped bracket simplifies installation and provides strong support
- UL approved for ceiling or wall mount (actually fits in a 2 x 4 stud wall)
- Wall Installation reduces cost by eliminating the need to incorporate a radiation damper when penetrating fire rated ceilings, making it ideal for Multi-Family applications
- Can be used to comply with ASHRAE 62.2, IAP, California Title 24, CALGreen<sup>4</sup> and WA Ventilation Code

#### ADDITIONAL BENEFITS

- 24 gauge steel, fire code rated 4" oval to 3" round duct adapter, sold separately (model #FV-VS43R)
- Transfer Register Box (model # FV-JD, sold separately), provides room-to-room powered circulation with ductless heat pumps
- UL listed for use with the Panasonic Ceiling Radiation Damper (model # PC-RD05C5)
- UL listed for tub/shower enclosure when GFCI protected
- Warranty<sup>5</sup>: 6 years ECM Motor, 5 years LED, 3 years all other parts

\* Industry research indicates static pressure in typical installations ranges from 0.20" to 0.375".

<sup>1</sup> 50 CFM option not included in FV-0810VSS1 and FV-0810VSSL1

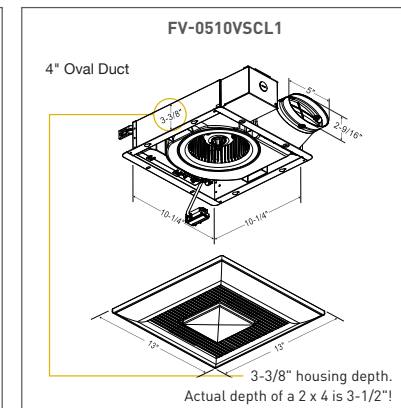
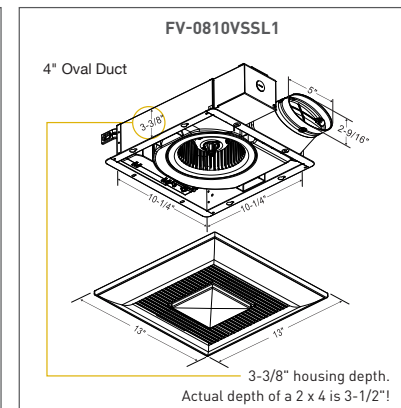
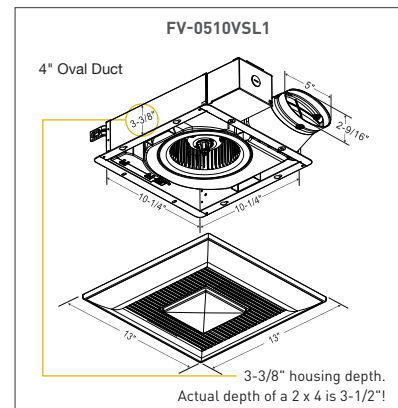
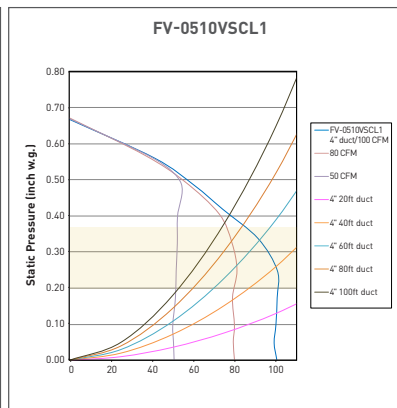
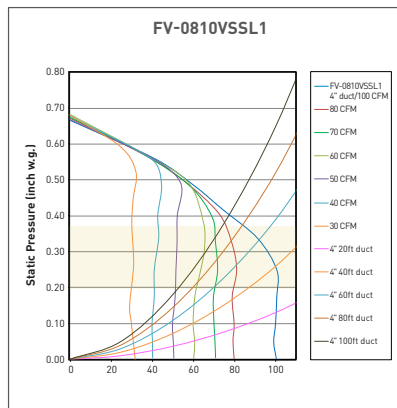
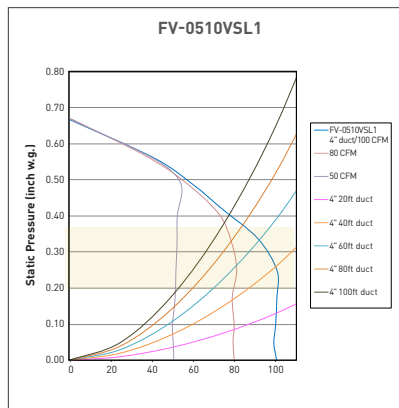
<sup>2</sup> FV-0810VSS1 and FV-0810VSSL1 only

<sup>3</sup> FV-0510VSC1 and FV-0510VSCL1 only

<sup>4</sup> FV-0510VSC1 and FV-0510VSCL1 only, or when other WhisperValue DC models are combined with a Panasonic Condensation Sensor Plus(FV-WCCS1-W/A or FV-WCCS2-W/A)

<sup>5</sup> One year additional fan or fan/light warranty available when WhisperValue DC is controlled by a Panasonic Condensation Sensor Plus.





WhisperValue® DC 4” Oval Duct (Fan/LED Light Models)																																								
SPECIFICATIONS		FV-0510VSL1									FV-0810VSSL1																		FV-0510VSCL1											
	Duct Diameter (Inches)	4 Oval			4 Oval			4 Oval			4 Oval			4 Oval			4 Oval			4 Oval			4 Oval			4 Oval			4 Oval			4 Oval			4 Oval					
Characteristics (HVI tested data for 0.1” S.P.)	Static Pressure in inches w.g.	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375			
	Air Volume (CFM)	100	101	83	80	81	75	50	52	52	100	101	83	80	81	75	70	72	70	60	64	65	50	52	52	40	41	42	30	31	30	100	101	83	80	81	75	50	52	52
	Noise (sones)	0.9	1.3	-	0.4	0.8	-	<0.3	0.5	-	0.9	1.3	-	0.4	0.8	-	<0.3	0.6	-	<0.3	0.6	-	<0.3	0.5	-	<0.3	0.5	-	<0.3	0.5	-	0.9	1.3	-	0.4	0.8	-	<0.3	0.5	
	Power Consumption (watts)	12.4	18.0	18.0	8.5	13.2	16.0	4.5	7.7	12.0	12.4	18.0	18.0	8.5	13.2	16.0	6.5	10.8	15.0	5.3	9.3	13.0	4.5	7.7	12.0	3.8	6.7	10.0	3.4	6.0	9.0	13.4	18.0	18.0	8.5	13.2	16.0	4.5	7.7	12.0
	Energy Efficiency (CFM/Watt)	8.2	5.7	4.6	10.0	6.5	4.7	12.1	7.3	4.3	8.2	5.7	4.6	10.0	6.5	4.7	11.2	6.9	4.7	11.8	7.2	5.0	12.1	7.3	4.3	11.8	6.9	4.2	10.2	6.0	3.3	8.2	5.7	4.6	10.0	6.5	4.7	12.1	7.3	4.3
	Speed (RPM)	954	1176	1300	856	1114	1270	733	1050	1230	954	1176	1300	856	1114	1270	805	1088	1260	770	1076	1250	733	1050	1230	723	1037	1215	711	1033	1200	954	1176	1300	856	1114	1270	733	1050	1230
	Current (amps)	0.18	0.25	0.25	0.13	0.20	0.24	0.08	0.13	0.17	0.18	0.25	0.25	0.13	0.20	0.24	0.10	0.16	0.22	0.09	0.15	0.20	0.08	0.13	0.17	0.07	0.11	0.15	0.06	0.10	0.13	0.18	0.25	0.25	0.13	0.20	0.24	0.08	0.13	0.17
	MAX. Current (amps)	0.39									0.39																		0.39											
Power Rating (V/Hz)	120/60									120/60																		120/60												
Specifications	Motor Type	ECM									ECM																		ECM											
	Type of Motor Bearing	Ball									Ball																		Ball											
	Thermal Fuse Protection	Yes									Yes																		Yes											
	Blower Wheel Type	Sirocco									Sirocco																		Sirocco											
	ENERGY STAR Qualified	Yes									Yes																		Yes											
Installation	Duct Diameter (Inches)	4 Oval									4 Oval																		4 Oval											
	Mounting Opening (Inches sq.)	10-1/2									10-1/2																		10-1/2											
	Grille Size (Inches sq.)	13									13																		13											
Light Specifications	Lamp Watts	10.0									10.0																		10.0											
	Lumens (lm)	700									700																		700											
	Lumens Per Watt (LPW)	70									70																		70											
	Color Rendering Index	90									90																		90											
	Color Temperature (Kelvin)	3,000									3,000																		3,000											
	Rated Life (hours)	50,000									50,000																		50,000											
	Lamp Model #	N/A									N/A																		N/A											
	Type of Lamp Socket	LED chip									LED Chip																		LED chip											
Night Light Specs	Night Light Watts	0.2									0.2																		0.2											
Shipping	Gross Weight (lbs)	9.9									9.9																		9.9											
Approved Code/Standard/ Regulation	UL tub/Shower Enclosure	Yes									Yes																		Yes											
	Washington VIAQ Code	Yes									Yes																		Yes											
	California Title 24 Compliant	Yes									Yes																		Yes											
	Mfg in ISO 9001 Certified Facility	Yes									Yes																		Yes											

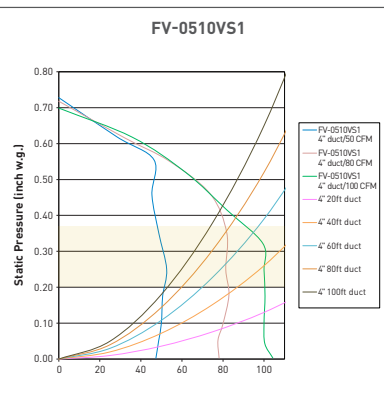




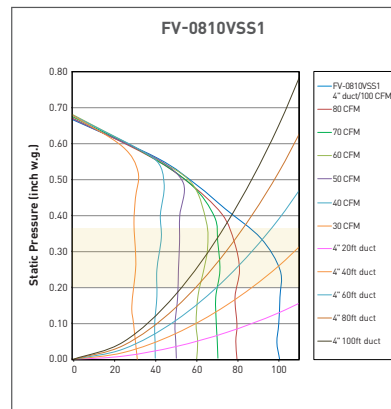
FV-0510VS1  
FV-0810VSS1  
FV-0510VSC1



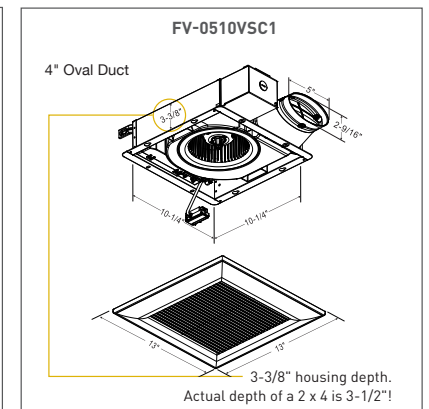
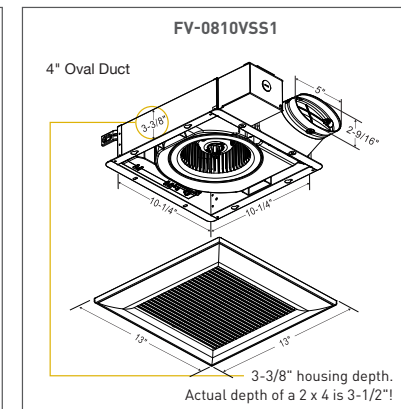
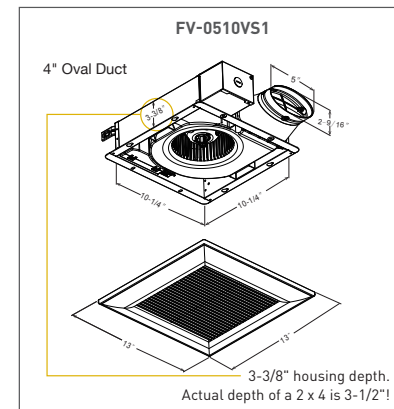
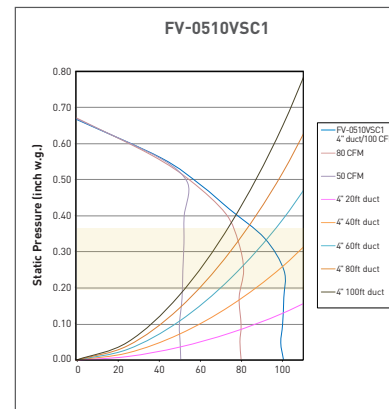
FV-0510VS1



) FV-0810VSS1



) FV-0510VSC1



WhisperValue® DC 4” Oval Duct (Fan Only Models)																																								
SPECIFICATIONS		FV-0510VS1									FV-0810VSS1																		FV-0510VSC1											
	Duct Diameter (Inches)	4 Oval			4 Oval			4 Oval			4 Oval			4 Oval			4 Oval			4 Oval			4 Oval			4 Oval			4 Oval			4 Oval			4 Oval					
Characteristics (HVI tested data for 0.1” S.P.)	Static Pressure in inches w.g.	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375			
	Air Volume (CFM)	100	100	83	80	81	75	50	53	52	100	101	83	80	81	75	70	72	70	60	64	65	50	52	52	40	41	42	30	31	30	100	101	83	80	81	75	50	52	52
	Noise [sones]	0.9	1.3	-	0.4	0.8	-	<0.3	0.5	-	0.9	1.3	-	0.4	0.8	-	<0.3	0.6	-	<0.3	0.6	-	<0.3	0.5	-	<0.3	0.5	-	<0.3	0.5	-	0.9	1.3	-	0.4	0.8	-	<0.3	0.5	
	Power Consumption (watts)	11.1	16.0	18.0	7.2	11.5	16.0	4.4	7.5	12.0	12.4	18.0	18.0	8.5	13.2	16.0	6.5	10.8	15.0	5.3	9.3	13.0	4.5	7.7	12.0	3.8	6.7	10.0	3.4	6.0	9.0	12.4	18.0	18.0	8.5	13.2	16.0	4.5	7.7	12.0
	Energy Efficiency (CFM/Watt)	9.2	6.4	4.6	11.4	7.2	4.7	12.8	7.9	4.3	8.2	5.7	4.6	10.0	6.5	4.7	11.2	6.9	4.7	11.8	7.2	5.0	12.1	7.3	4.3	11.8	6.9	4.2	10.2	6.0	3.3	8.2	5.7	4.6	10.0	6.5	4.7	12.1	7.3	4.3
	Speed (RPM)	902	1121	1300	797	1070	1270	708	1025	1230	954	1176	1300	856	1114	1270	805	1088	1260	770	1076	1250	733	1050	1230	723	1037	1215	711	1033	1200	954	1176	1300	856	1114	1270	733	1050	1230
	Current (amps)	0.20	0.27	0.25	0.13	0.20	0.24	0.09	0.14	0.17	0.18	0.25	0.25	0.13	0.20	0.24	0.10	0.16	0.22	0.09	0.15	0.20	0.08	0.13	0.17	0.07	0.11	0.15	0.06	0.10	0.13	0.18	0.25	0.25	0.13	0.20	0.24	0.08	0.13	0.17
	MAX. Current (amps)	0.39									0.39																		0.39											
Power Rating (W/Hz)	120/60									120/60																		120/60												
Specifications	Motor Type	ECM									ECM																		DC											
	Type of Motor Bearing	Ball									Ball																		Ball											
	Thermal Fuse Protection	Yes									Yes																		Yes											
	Blower Wheel Type	Sirocco									Sirocco																		Sirocco											
	ENERGY STAR Qualified	Yes									Yes																		Yes											
Installation	Duct Diameter (Inches)	4 Oval									4 Oval																		4 Oval											
	Mounting Opening (Inches sq.)	10-1/2									10-1/2																		10-1/2											
	Grille Size (Inches sq.)	13									13																		13											
Light Specifications	Lamp Watts	N/A									N/A																		N/A											
	Lumens (lm)	N/A									N/A																		N/A											
	Lumens Per Watt (LPW)	N/A									N/A																		N/A											
	Color Rendering Index	N/A									N/A																		N/A											
	Color Temperature (Kelvin)	N/A									N/A																		N/A											
	Rated Life (hours)	N/A									N/A																		N/A											
	Lamp Model #	N/A									N/A																		N/A											
Night Light Specs	Night Light Watts	N/A									N/A																		N/A											
Shipping	Gross Weight (lbs)	8.8									9.0																		9.0											
Approved Code/Standard/ Regulation	UL tub/Shower Enclosure	Yes									Yes																		Yes											
	Washington VIAQ Code	Yes									Yes																		Yes											
	California Title 24 Compliant	Yes									Yes																		Yes											
	Mfg in ISO 9001 Certified Facility	Yes									Yes																		Yes											

# Installed Performance



## ECM Motor with SmartFlow™ Technology

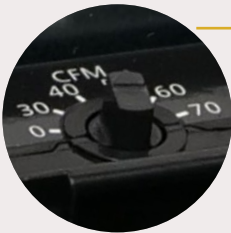
WhisperValue® DC is designed to perform as rated. When the fan senses static pressure, its speed is automatically increased to ensure optimal CFM output. This feature provides peace of mind, as the installer doesn't have to worry about compromising the fan's performance, even with a complicated duct run.



## Pick-A-Flow Airflow Technology

Built-in Pick-A-Flow Airflow selector provides the unique ability to select your required airflow (50-80 - 100 CFM) with the simple flip of a switch.

## Optional Built-In Controls



### Multi-Speed for ASHRAE 62.2 Compliance

(FV-0810VSS1 and FV-0810VSSL1 only)

**Multi-Speed for ASHRAE 62.2 Compliance** allows you to select the proper CFM settings to satisfy ASHRAE 62.2 continuous ventilation requirements. The fan runs continuously at a preset lower level (0, 30-70, in 10 CFM increments), then elevates to a maximum level of operation (80 or 100 CFM) when the wall switch is turned on.



### Condensation Sensor

(FV-0510VSC1 and FV-0510VSSL1 only)

**Condensation Sensor** helps control bathroom condensation to prevent mold and mildew. Sensor technology detects relative humidity and temperature to anticipate dew point, automatically turning the fan on to control humidity. Built-in Relative Humidity (RH) sensitivity adjustment enables fine tuning for moist conditions and for satisfying CALGreen requirements. The fan will run for 20 minutes before turning off.



## LED Lighting

WhisperValue® DC fan/light models feature a contemporary flush mount grille that incorporates one 10W Dimmable LED chip panel with <1W LED night light for warm, energy efficient illumination. Panel specifications include: 3000 Kelvin Warm White/90CRI/700 lumens/70 LPW/ENERGY STAR 2.0 certified/50,000 hours rated average life.

### WhisperValue® DC to WhisperValue®/ WhisperValue® Lite Cross Reference

	WhisperValue® DC		WhisperValue®/ WhisperValue® Lite	
	New Model #	Description	Discontinued Model #	Description
Fan Only	FV-0510VS1	Fan Only, 50-80-100 CFM	FV-05VS3	Fan Only, 50 CFM
			FV-08VS3	Fan Only, 80 CFM
	FV-0510VSC1	Fan Only, 50-80-100 CFM, Condensation Sensor	FV-10VS3E	Fan Only, 100 CFM
	FV-0810VSS1	Fan Only, 80-100 CFM, Multi-Speed for ASHRAE 62.2	N/A	N/A
Fan/LED Light	FV-0510VSL1	Fan/LED Light, 50-80-100 CFM	FV-08VSL3	Fan/CFL Light, 80 CFM
			FV-10VSL3E	Fan/CFL Light, 100 CFM
	FV-0510VSSL1	Fan/LED Light, 50-80-100 CFM, Condensation Sensor	N/A	N/A
	FV-0810VSSL1	Fan/LED Light, 80-100 CFM, Multi-Speed for ASHRAE 62.2	N/A	N/A
Contractor Packs	FV-0510VSA1	FV-0510VS1 Housing Can	FV-05-10VSA3	Universal Housing Can
			FV-05VSB3	Motor/Grille Assembly, 50 CFM
	FV-0510VSB1	FV-0510VS1 Motor/Grille Assembly, 50-80-100 CFM	FV-08VSB3	Motor/Grille Assembly, 80 CFM
			FV-10VSB3E	Motor/Grille Assembly, 100 CFM





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## INDUSTRY'S MOST POWERFUL INLINE FANS

When these high performance inline duct blowers were conceived, reliability and efficiency were the main goals. Its more powerful motor combined with its aerodynamically designed shape make **Vortex Powerfans** the performance leader in its category.

Never seen in the ventilation industry, the **Vortex Powerfan VTX Series** feature a 10 year warranty.



### Easy installation

The **VTX Series** feature an extended collar and lip allowing easy duct hook-up.

- Brackets included for wall or ceiling mount

### Maintenance Free Operation

All **VTX Series** are made of heavy gauge steel casing with a hammertone powder coat finish making it more sound absorbing, durable and rust proof.

- Permanently lubricated sealed bearings
- External rotor motor with automatic reset thermal overload protection
- Suitable for airstream temperatures up to 140°F (60°C)
- 10 year warranty
- ETL Listed

### Features and Benefits

- 4" to 12" duct diameters
- From 198 to 1124 CFM
- Aerodynamic design allowing more air flow
- 100% speed controllable easing air flow adjustment
- Prewired with 120V power cord
- AMCA Air Listed

### Typical Residential Applications

Inline fans enhance air quality and reduce point source pollutants in a variety of indoor spaces, such as damp basements, crawl spaces, attics, etc.

#### Kitchen ventilation

Proper kitchen ventilation is the key to reduce cooking odors, smoke, contaminants and moisture. An inline fan connected to your range hood will increase exhaust performance and ensure clean air in the kitchen area.

#### Bathroom ventilation

Moisture buildup can create structural damages and cause growth of mold mildew and bacteria. The **VTX Series** is an efficient and quiet solution for proper bathroom ventilation.

#### Duct boosting

Inline Fans are ideal for ventilating a new addition or for improving the efficiency of an existing air system.

#### Garage ventilation

Inline Fans are ideal for removing harmful car fumes and pollutants.

#### Dryer booster

Ideal clothing dryer venting arrangements with short duct length are often not possible. An inline vent boosting blower is a common solution to this problem.

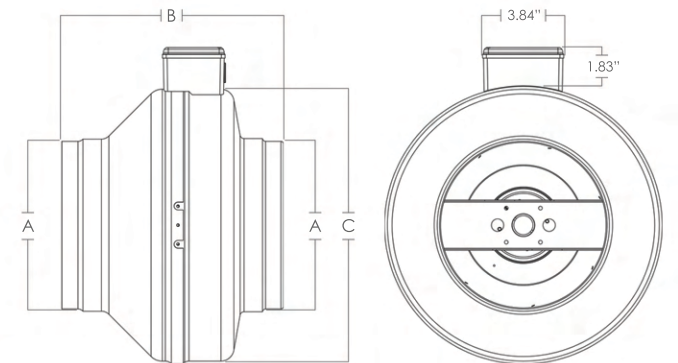
### VTX Series View & Sizes

All dimensions in inches

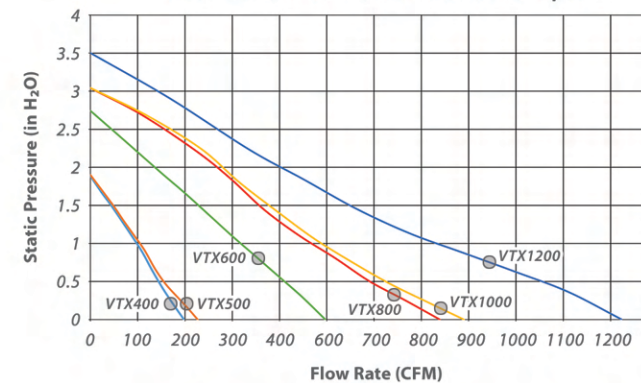
FAN MODEL	Weight (lbs)**	A*	B	C
VTX400	7.4	4.0	8.5	9.5
VTX600L	8.8	6.0	8.5	9.5
VTX600	10.8	6.0	10.5	13.0
VTX800L	12.0	8.0	10.5	13.0
VTX800	12.2	8.0	10.5	13.0
VTX1000	12.4	10.0	10.5	13.0
VTX1200L	14.4	12.0	12.3	16.0
VTX1200	14.6	12.0	12.3	16.0

\*\* Mounting Brackets included

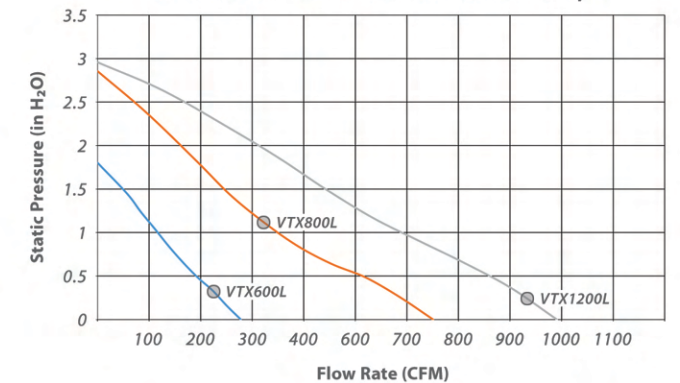
\* Represents Duct Dimensions



### VTX Series Air Performance Graph



### VTX Series "L" Air Performance Graph



### VTX Series Performance Data

ALL VTX PRODUCTS INCORPORATE MOTORS SUITABLE FOR 120 Volts AC 60Hz ELECTRICAL SUPPLY ONLY

FAN MODEL	Duct Dia.	RPM	Volts	Rated Watts	Max Amps	Static Pressure in Inches W.G.												Max Ps
						0"	0.125"	0.2"	0.25"	0.375"	0.5"	0.75"	1"	1.25"	1.5"	2"		
VTX400	4"	2970	120	69	0,57	198	184	175	170	157	144	122	98	71	15	---	1.885"	
VTX600L	6"	2950	120	70	0,58	278	256	244	237	215	191	152	117	82	50	---	1.803"	
VTX600	6"	3050	120	140	1,28	497	477	465	456	434	411	364	318	273	229	136	2.744"	
VTX800L	8"	3000	120	196	1,62	651	621	602	588	555	513	416	349	294	245	162	2.856"	
VTX800	8"	3060	120	260	2,29	739	703	681	667	628	591	531	468	408	357	268	3.042"	
VTX1000	10"	3070	120	273	2,28	791	748	723	706	664	624	555	489	431	378	280	3.044"	
VTX1200L	12"	2970	120	272	2,26	892	864	846	833	799	761	677	590	510	442	313	2.958"	
VTX1200	12"	2820	120	393	3,26	1124	1090	1067	1051	1006	954	845	733	631	549	404	3.503"	

Performance certified is for installation type D - Ducted inlet, Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of appurtenances (accessories) Inlet Duct, Inlet Bell, Outlet Duct



**Panasonic**

Panasonic is the exclusive distributor of Atmosphere products in the US

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FEBRUARY 2020

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Sales inquiries : sales@atmosphere.com

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ventfans@us.panasonic.com

Design and specifications subject to change without notice.

\*Pending AMCA Certification\*