

Panasonic



**Mixed Flow
Inline Fans**



**Centrifugal
Inline Fans**



**Destratification
Fans**



**Dryer Exhaust Duct
Power Ventilators**

Atmosphere InLine Fans and Dryer Exhaust Solutions





What are Inline fans?

Inline fans are typically integrated with the ducting and mounted in remote locations, such as an attic or crawlspace.

To ventilate an area that does not have clearance or space for a ceiling-mounted fan, an inline fan would be an appropriate alternative.

An inline fan connects to a dedicated duct system that would pull or push stale air from the space.

Since inline fans are not mounted directly to the ceiling, any sound created from the fan's operation is minimized within the living space.

Can accommodate single-port (exhausting from a single area) or multi-port (exhausting from multiple areas) ducts.

Very long or complicated duct runs can benefit from the use of inline fans.



Centrifugal Inline Fans



*Mixed Flow
Inline Fans*

Atmosphere Inline Fans

Atmosphere – distributed in the U.S. by Panasonic – offers a suite of inline fans and dryer exhaust duct power ventilators with a best-in-class, 10-year warranty for residential and light commercial applications.



Inline Fans

Choose from two styles of inline fans, depending upon the application. VTX Series centrifugal, inline fans and S-Line Series mixed-flow inline fans are designed to overcome high static pressure in long duct runs and are designed for residential and light commercial ventilation applications (supply or exhaust).

Install in ceilings, floors or walls. Available in various duct sizes (4"-12") with CFM flow rate performance from 198 to 1124 CFM (VTX). These fans deliver comfort and ensure healthy ventilation inside the home.



VTX Series



S-Line Series

Destratification Fans

Powerful, energy-saving, cost-saving fan for large spaces with ceiling heights from 15' to 75'.

These powerful 1082 CFM fans unobtrusively hang independently in spaces with no need to connect to duct work. They can be angled to provide an easy-to-direct column of air from ceiling heights from 15' to 75'.

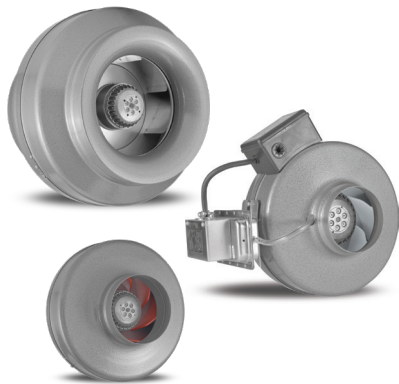
Used in commercial, industrial, and warehouse facilities to create uniform air temperatures when there are high ceilings, delivering energy savings up to 35% in heating season and up to 25% in cooling season.



D-65Black



D-65White



- 4" Models:** VTX400, VTX400P, VTX400C
- 6" Models:** VTX600, VTX600L
- 8" Models:** VTX800, VTX800L
- 10" Model:** VTX1000
- 12" Models:** VTX1200, VTX1200L

Atmosphere Vortex® Powerfan VTX Series

Powerful Centrifugal Inline Fans

Powerful centrifugal fans effectively overcome high static pressures. Use for multi-point bathroom exhaust applications to ventilate multiple bathrooms or other spaces with just one fan. Critical for long or complicated duct runs where there is high static pressure.

KEY FEATURES

Easy Installation

An extended collar and lip fan design allows for easy duct hook-up. Brackets are included for wall or ceiling mount. Typically integrated with the ducting and mounted in remote locations, such as an attic or crawlspace, only 4" or 6" of the grille is visible in the room for a low-profile, aesthetically appealing look. May be mounted in any position.

Speed Control

Variable-speed motor is 100% controllable with AVS-5 Speed Controller (sold separately).



KEY FEATURES (continued)

Current Sensor

The VTX400C model fan has a current sensor that detects when to automatically activate the fan. The current sensor is available either with or without a five-minute, turn-off time delay.

Pressure Switch Detection

The VTX400P model fan has a built-in, automatic pressure switch that detects when the air is flowing through the ventilation duct. This fan will automatically turn on for a period of 10 minutes, shut off for 15 seconds and turn back on if there is still positive pressure in the duct.

10-Year Warranty

Other Details

- Does not include backdraft damper (available separately)
- Pre-wired with 120V power cord
- Maintenance-free operation with heavy -gauge, steel casing with a hammer-tone, powder-coat finish enabling sound absorption for a durable and rust-proof product
- ETL and AMCA Air Listed
- Suitable for airstream temperatures up to 140°F (60°C)
- Available in 4" to 12" duct diameters, 198 to 1124 CFM

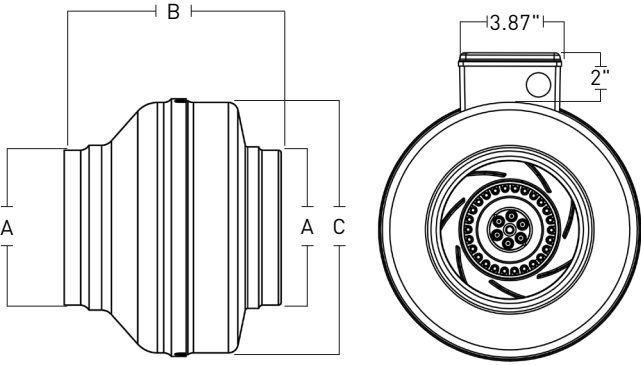


VTX Series

All dimensions in inches

Model	Weight (lbs)*	A**	B	C
VTX400 (P, C)	7.4	4.0	8.5	9.5
VTX600L	6.8	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

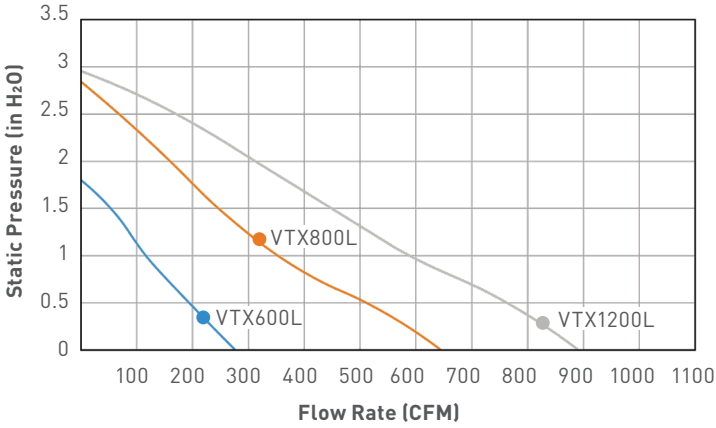


VTX Series Performance Data

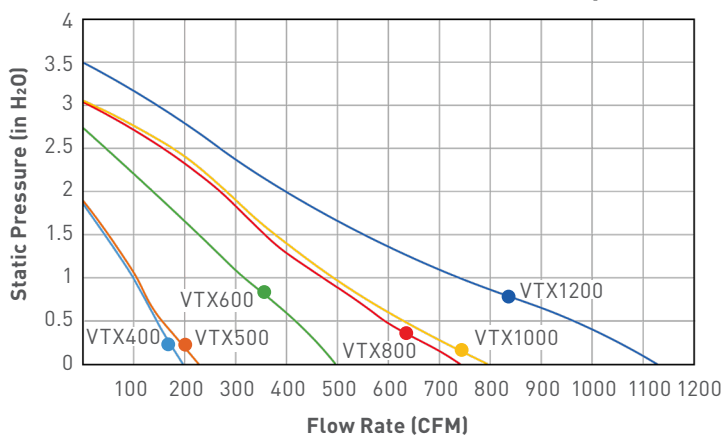
Model	Duct Dia.	RPM	Volts	Rated Watts	Max Amos	Static Pressure in Inches W.G.												Max Ps
						0"	0.125"	0.2"	0.25"	0.375"	0.5"	0.75"	1"	1.25"	1.5"	2"		
VTX400 (P, C)	4"	2970	120	69	0,57	198	184	175	170	157	144	122	98	71	15	---	1.885"	
VTX600L	6"	2950	120	70	0,58	278	256	244	237	215	191	152	117	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 outlet. Speed (RPM) shown is nominal. Performance is based an actual speed of test. Performance rating include the effects of appurtenances (accessories) Inlet Duct, Inlet Duct, Inlet Bell, Outlet Duct.

VTX Series "L" Air Performance Graph



VTX Series Air Performance Graph



VTX Series Performance Data

Model	Description	Static Pressure																					
		0"	0"	0.125"	0.125"	0.2"	0.2"	0.25"	0.25"	0.375"	0.375"	0.5"	0.5"	0.75"	0.75"	1"	1"	1.25"	1.25"	1.5"	1.5"	2"	2"
VTX400	Vortex Powerfans 4"	198	119	184	110	175	105	170	102	157	94	144	86	122	73	98	59	71	43	15	9	-	-
VTX600L	Vortex Powerfans 6L"	278	167	256	154	244	146	237	142	215	129	191	115	152	91	117	70	82	49	50	30	-	-
VTX600	Vortex Powerfans 6"	497	298	477	286	465	279	456	274	434	260	411	247	364	218	318	191	273	164	229	137	136	82
VTX800L	Vortex Powerfans 8L"	621	373	621	373	602	361	588	353	555	333	513	308	416	250	349	209	294	176	245	147	162	97
VTX800	Vortex Powerfans 8"	739	443	703	422	681	409	667	400	628	377	591	355	531	319	468	281	408	245	357	214	268	161
VTX1000	Vortex Powerfans 10"	748	449	748	449	723	434	706	424	664	398	624	374	555	333	489	293	431	259	378	227	280	168
VTX1200L	Vortex Powerfans 12L"	892	535	864	518	846	508	833	500	799	479	761	457	677	406	590	354	510	306	442	265	313	188
VTX1200	Vortex Powerfans 12"	1124	674	1090	654	1067	640	1051	631	1006	604	954	572	845	507	733	440	631	379	549	329	404	242

Light gray highlight indicates lowest CFM output when cfm is dialed down via wall control* AVR-5



6" Duct Model: S-600
8" Duct Model: S-800
10" Duct Model: S-1000

Atmosphere Vortex® Powerfan S-Line

Compact, Powerful Mixed Flow Inline Fans

Powerful and compact mixed flow fan for applications where high static pressure conditions are not present, there are space constraints, or where a quieter, more energy-efficient unit is required. Gasketed to provide airtight seal to eliminate air leakage or mixing of higher and lower temperature air. Insulated body prevents condensation. Includes built-in backdraft damper for energy efficiency.

KEY FEATURES

Easy Installation

Easy to install in wall or ceiling. Mounting brackets are included. May be mounted in any position.

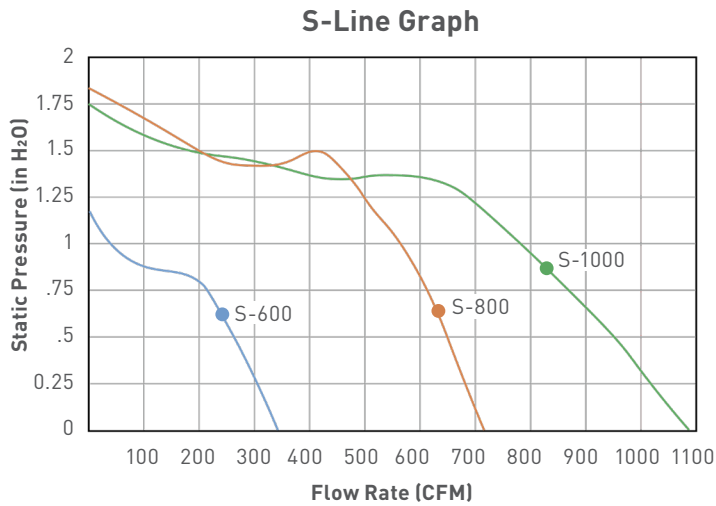
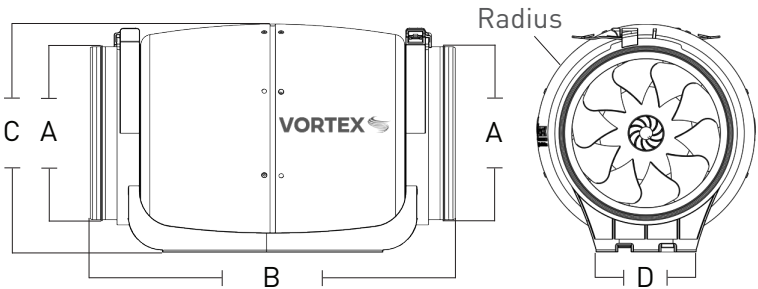
Speed Control

Variable-speed motor is 100% controllable with AVS-5 Speed Controller (available separately).

10-Year Warranty

Other Details

- Space-saving design
- Pre-wired with 120V power cord
- Simple clipping system allows quick removal of fan for maintenance
- ETL and AMCA Air Listed
- Suitable for airstream temperatures up to 140°F (60°C)
- Available in 6" to 10" duct diameters, 312 to 1032 CFM



S-Line Series

All dimensions in inches

Model	Weight (lbs)*	A**	B	C	D	Radius
S-600	6.8	6.0	15.37	9.02	3.94	4.20
S-800	10.4	8.0	16.64	10.38	4.57	4.97
S-1000	13.2	10.0	17.394	13.613	5.709	6.014

* Mounting brackets included
** Represents duct dimensions

S-Line Performance Data

Model	Duct Dia.	RPM	Volts	Rated Watts	Max Amos	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"		
S-600	6"	2970	120	72	0,68	340	323	312	305	285	265	215	39	---	---	1.885"	
S-800	8"	3150	120	232	1,99	711	697	688	682	666	649	612	570	501	204	1.844"	
S-1000	10"	2970	120	232	2,12	1082	1051	1032	1019	984	946	866	781	687	197	1.766"	

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



Models: D-65Black
D-65White

Atmosphere Vortex® D-65

Fine-Tune Your Thermal Comfort

Create uniform air temperatures from floor to ceiling for maximum thermal comfort in large spaces with ceiling heights from 15' to 75' instead of large diameter fans. Save up to 35% in the heating season and up to 25% in the cooling season while increasing comfort of those in the space.

KEY FEATURES

Space-saving, Smart Design

The 3D-shaped fan blade design converts rotational energy loss into air flow for straight air movement. Angle the fan along any vector for an easy-to-direct column of air. Speed is controllable with AVR-5 (sold separately).

Applications

Warehouses, manufacturing facilities, gyms, theaters, hospitals, airports/hangars, arenas, grocery stores.

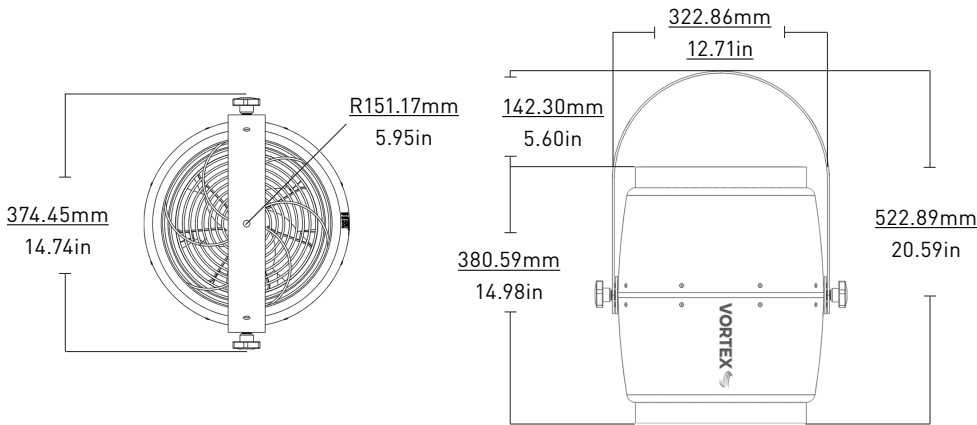
10-Year Warranty

Other Details

- Includes three types of UL-approved, fast-mounting hardware
- ETL certified for US and Canada. Conforms to UL-507, CAN/CSA C22.2# 113
- Single-phase, permanent, split capacitor motor (variable speed with optional speed control, AVR-5 or Dial-a-Temp - ADAT 2.5 - sold separately)
- Motor is class F thermally protected
- No lubrication required. Bearings are sealed

Specifications

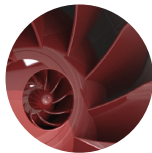
Weight	Max RPM	Volts	Watts	Amps	Max CFM	dB(A)
15.62 lbs (7.1 kg)	2800	120	232	2.1	1082	54



3-D Shaped Vanes

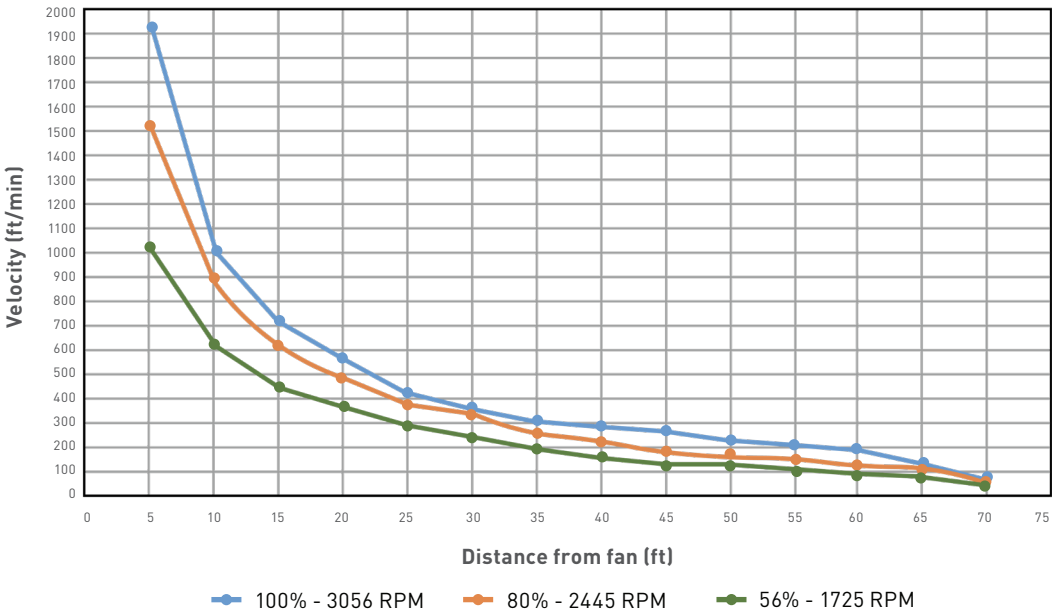


Easy-to-direct airflow



Quiet due to Mixed Flow Impeller

D-65 Velocity Chart





4" Model: BDD-4

6" Model: BDD-6

8" Model: BDD-8

10" Model: BDD-10

12" Model: BDD-12

Atmosphere Backdraft Dampers

Keep “In” the Conditioned Air

Control the airflow in your ductwork to keep conditioned air inside and prevent outside air from coming in. Control the temperature, improve indoor air quality, and reduce energy costs by preventing conditioned air from escaping.

KEY FEATURES

Durable Construction

The backdraft dampers are manufactured with galvanized steel and a neoprene damper seal to minimize leakage. Their exterior foam gaskets are designed to withstand temperatures from -22°F to 180°F, and ensure a quiet, sealed operation.

- 4", 6", and 8" models include stamped metal sleeves with a center pin design
- 10" and 12" models include rolled metal sleeves with a center post design

Operation

These spring-loaded backdraft damper blades require from 0.04" to 0.08" w.g. pressure to open. They prevent contaminated air from flowing back into a space when the fan is not running.

Simple Installation

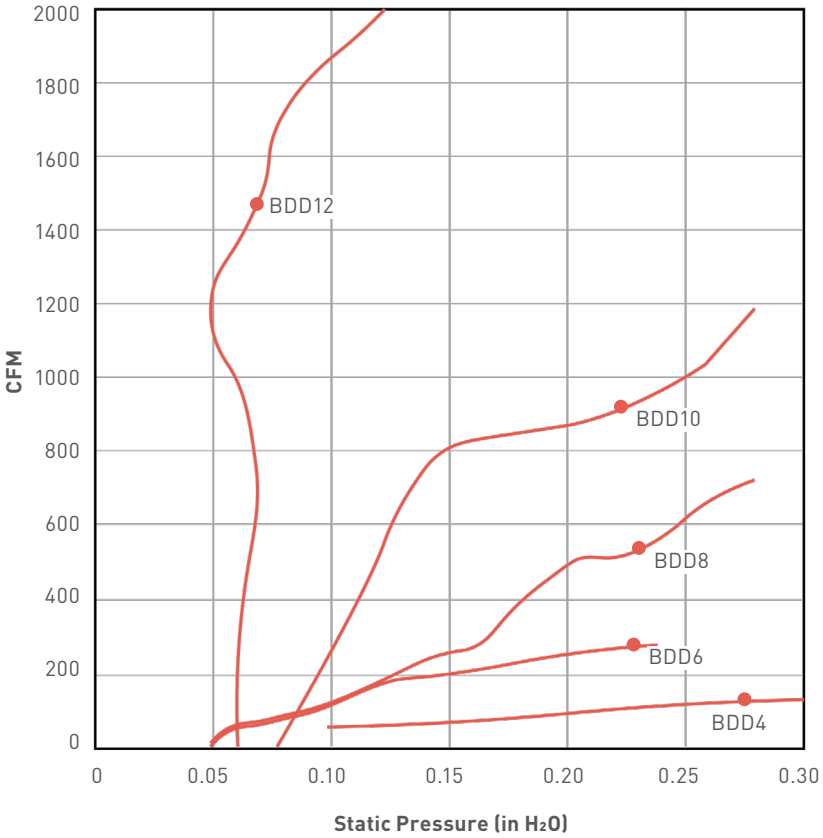
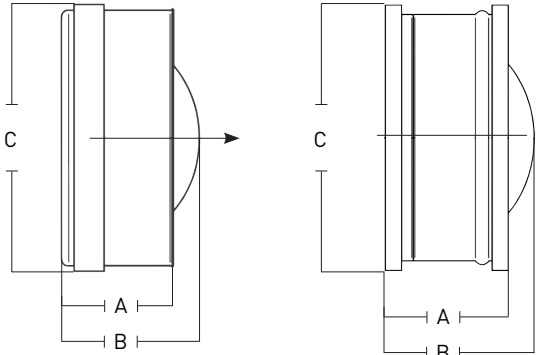
The entire assembly inserts into the duct.

Application

For use with the Atmosphere Vortex Series of inline fans and Atmosphere Dryer Exhaust Duct Power Ventilators.

Backdraft Dampers Sizes

4", 6", 8", 10", 12"



Backdraft Dampers

All dimensions in inches

Model	A	B	C (Nominal)	Gauge
BDD-4	1.8	2.0	4	20
BDD-6	2.5	3.0	6	20
BDD-8	2.8	3.8	8	20
BDD-10	4.8	6.0	10	20
BDD-12	6.3	6.8	12	20



Model: ACS-5

Atmosphere AC Current Switch

Boost Your Duct Fan

This small, compact switch senses when the interlock device is drawing one amp of current then closes the output switch to activate the duct booster fan. Use when installing standard, inline fans to provide supplemental airflow.

KEY FEATURES

Application - The solid-state current switch outputs to control high-current line-voltage AC loads. This means that the switch can operate a duct booster fan directly in response to the current of a monitored AC circuit.

Easy to Install

Solid, reliable mounting method. Internal circuits are powered by induction from the line being monitored.



Model: AVR-5

Atmosphere Variable Speed Control

Speed Control at your Fingertips

The UL-listed, solid-state, variable speed AC Motor Control controls the variable levels of speed of the fan's motor with an on-off switch and rotary knob so the speed can be changed.

KEY FEATURES

Durable Construction - The controller has a tough, impact-resistant thermoplastic housing and a high gain RFI noise suppression filter.

Wall-Mounted

Designed for mounting in a 2" x 4" electrical wall box.

One-Year Warranty

Specs: 115 V, 50/60 Hz, 104°F (40°C) temperature



Model: APS

Atmosphere Air Pressure Sensing Switch

Automatically Control Your Auxiliary Fan

This switch is an airflow proving switch with an electronic cycle timing board for HVAC application. It can be used to sense positive air pressure and activate an auxiliary fan.

KEY FEATURES

Installation - The switch is equipped with a convenient barbed, 1/4", slip-on sample line connector that accepts flexible tubing. Select a mounting location which is free from vibration. This switch requires a qualified electrician for installation.

Electronic Cycle Timing Board - This feature functions as an integral recycling delay timer.

Operating Temperature Range: -40°F to 180°F.



Model: ADAT-2.5

Atmosphere Dial-a-Temp

Easy Plug-in Speed Control

Plug-in, Dial-a-Temp controls the variable levels of speed of the fan motor with an on-off switch and dial from high to low to reduce fan or blower noise and speed selection.

KEY FEATURES

Durable Construction - The Dial-a-Temp controller has a compact constructed with a fire-retardant, thermoplastic enclosure.

Easy to Install - Just plug it in. No internal wiring. No tools required.

One-Year Warranty

Other Details

- UL-Listed
- Max input/output: 120V 2.5 A, 50/60 Hz, 2.5 FLA, 6 LRA, 300W



Atmosphere Inline Fan Accessory Kits*

KEY FEATURES

- Durable, ABS grille, 9 1/2" x 9 1/2" with white gloss finish
- Galvanized Y-adaptor and inlet mounts
- Sealed backdraft dampers

Model: PC-NLF06D

Model	Duct Size	ABS inlet grille	Metal plate	Backdraft Damper	Clamps	Y-Adaptor
FV-NLF04G	4"	1	1	–	–	–
FV-NLF06G	6"	1	1	–	–	–
PC-NLF04S	4"	1	–	1	6	–
PC-NLF06S	6"	1	–	1	6	–
PC-NLF04D	4"	2	–	2	12	1
PC-NLF06D	6"	2	–	2	12	1
PC-NLF64D	6"	1	–	2	12	1

*Can also be used with BalancedHome® and Intelli-Balance® ERVs.



Adjustable Duct Clamps

KEY FEATURES

- The adjustable clamps are intended to simplify fan installation and isolate fan vibration from rigid metal duct
- Convenient in installations where regular removal of the fan is necessary for inspection and cleaning
- Available in sizes 4" through 12" to fit corresponding duct sizes
- The clamps in sizes 4" through 12" are equipped with integral hanging tabs

Adjustable Duct Clamps

All duct sizes

Model	Duct Size
ADC4	4"
ADC6	6"
ADC8	8"
ADC10	10"
ADC12	12"



Panasonic provides the most powerful and enhanced products in our industry.

Choose from two dryer duct exhaust power ventilators to solve the common issue of clothes not drying quickly and efficiently, and to meet local building codes. Solution for residential or commercial clothes dryer system to:

- Operate efficiently – with lower energy costs and reduced cycle times.
- Dry clothing appropriately with limited wear – whether by time, specialized setting or sensor.
- Last longer with few repairs or replacements.
- Reduce the risk of fire in homes.

Typically required when a clothes dryer's vent run is over 25 equivalent feet or the dryer is experiencing long drying time. When using equivalent feet, a 90° elbow equals 5 feet and a 45° elbow equals 2.5 feet.

Model - DBF-DEDPV

The only all-in-one solution on the market! No assembly required, saving time, labor, and money in the installation. Includes integrated lint trap and LED trouble light on the front panel indicating proper operation to the dryer operator as well as providing notification in the event of a problem. Nice finished look that is aesthetically appealing for greater customer satisfaction.

Model - VTX-DEDPV

Traditional style dryer exhaust duct power ventilator. Assembly required. Includes an integrated pressure sensor, wall-mounted indicator panel, four mounting clamps and two cleanouts. Optional lint traps available separately.

Both ventilation solutions are certified to UL 705. Always consult local building codes.



DBF-DEDPV



VTX-DEDPV



Model: DBF-DEDPV (4" duct dimension)

Atmosphere Vortex® Dryer Exhaust Duct Power Ventilator

All-in-one, Exhaust Fan with Integrated Lint Trap

All-in-one aesthetically pleasing product installs quickly and easily to meet UL 705 code for gas and electric dryers. Reduces drying time for less energy consumption and lower operating costs. Automatically energizes when the dryer is operated. An LED light on the front panel indicates proper operation to the dryer operator as well as provides notification in the event of an obstruction. Integrated lint trap with 50 square inch nylon mesh filter included.

Aesthetically appealing for greater customer satisfaction.

KEY FEATURES

Assembly

Not required.

Installation

Installs in half the time of traditional dryer exhaust duct power ventilators—saving labor and cost.

Ducts

Supports duct length up to 130.

Overheating Warning

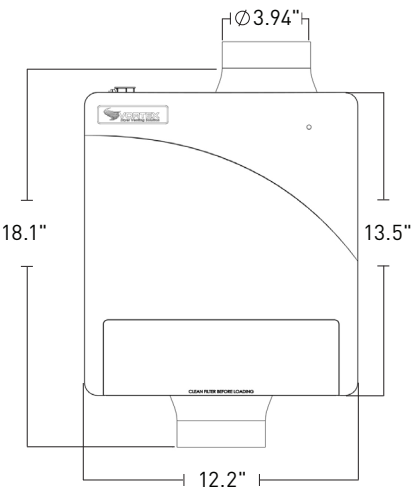
Thermal fuse will shut down the fan in case of excessive dryer heat.

10-Year Warranty

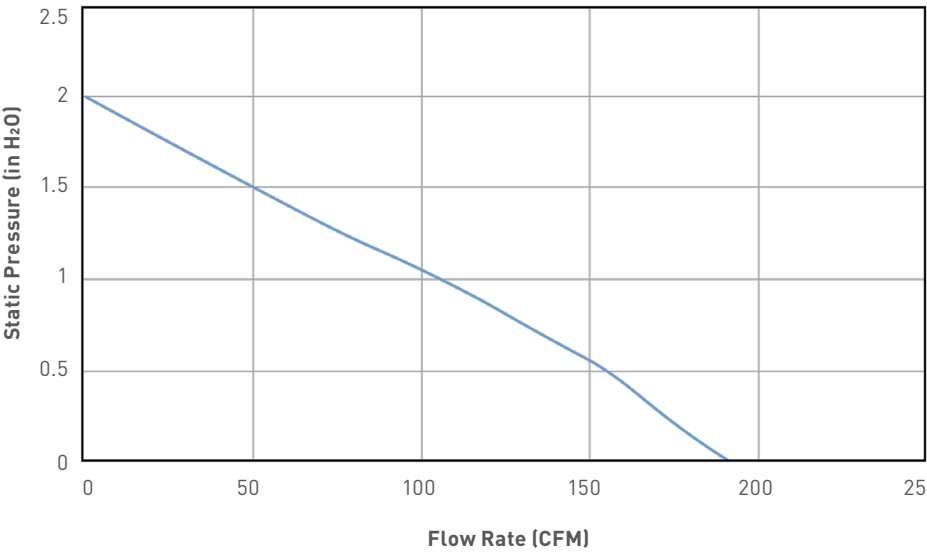
Other Details

- Quick and easy maintenance cleaning by removing the unit from the housing
- Wall-mounted installation
- 18ga galvanized steel housing ensures long-lasting, rust-free performance
- Certified to UL 705 dryer exhaust duct power ventilator for gas and electric dryers
- Pre-wired with 120V power cord
- Roof or wall exhaust

DBF-DEDPV Dimensions



DBF-DEDPV Performance Graph



DBF-DEDPV Performance Data

Model	Duct Dia.	RPM	Volts	Rated Watts	Max Amos	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"		
DBF-DEDPV	4"	2970	120	68	0,56	192	182	176	172	163	154	130	105	77	50	0	2.004"	

Performance certified is for installation type D - Ducted outlet. Speed (RPM) shown is nominal. Performance is based an actual speed of test. Performance ratings include the effects of appurtenances (accessories) Inlet Duct, Inlet Duct, Inlet Bell, Outlet Duct. All VTX products incorporate motors suitable for 120 Volts AC 60Hz electrical supply only.





Model: VTX-DEDPV (4" duct dimension)

Atmosphere Vortex® Dryer Exhaust Duct Power Ventilator

Traditional Exhaust Fan with Integrated Pressure Sensors

This basic, economical dryer exhaust duct power ventilator with integrated pressure sensor and wall-mounted indicator panel meets UL 705 code. Reduces drying time for less energy consumption and lower operating costs.

KEY FEATURES

Overheating Warning

Thermal fuse will shut down the fan in case of excessive dryer heat.

Pressure Sensor Detection

Detects airflow through the duct. Runs for 10 minutes, shuts off for 15 seconds, and restarts if dryer pressure is still present.

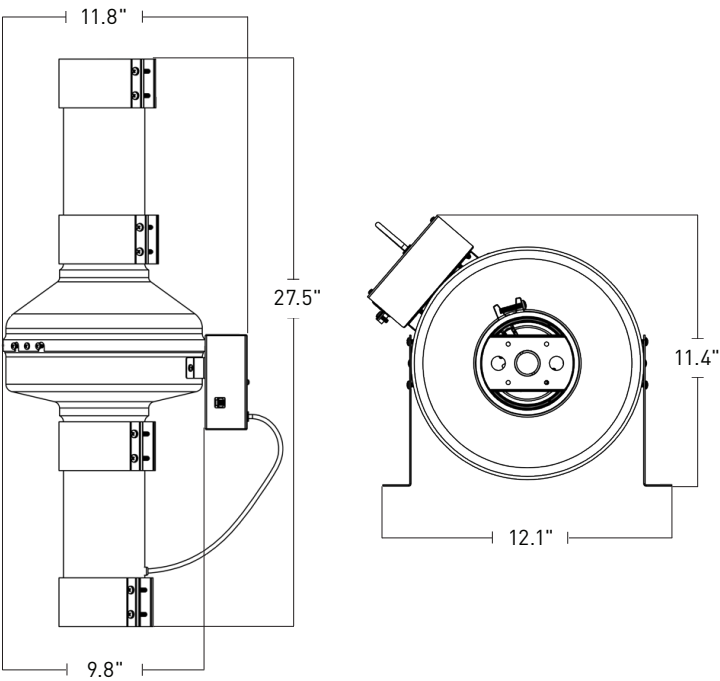
Roof or Wall Exhaust

10-Year Warranty

Other Details

- An LED light on the remote panel indicates proper operation to the dryer operator as well as provides notification in the event of an obstruction
- Thermal fuse will shut down the fan in case of excessive dryer heat
- Certified to UL 705 dryer exhaust duct power ventilator for gas and electric dryers
- Includes 50' of cable

VTX-DEDPV View & Sizes



This model requires a lint trap. There are 3 Atmosphere lint trap models:

- SLT - Slim Lint Trap
- LT4 - Lint Trap
- LT4S - Lint Trap

VTX-DEDPV Performance Data

Model	Duct Dia.	RPM	Volts	Rated Watts	Max Amos	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"		
VTX-DEDPV	4"	2970	120	68	0,56	198	184	175	169	156	143	121	96	69	41	0	1.852"	

Performance certified is for installation type D - Ducted outlet. Speed (RPM) shown is nominal. Performance is based an actual speed of test. Performance ratings include the effects of appurtenances (accessories) Inlet Duct, Inlet Duct, Inlet Bell, Outlet Duct. All VTX products incorporate motors suitable for 120 Volts AC 60Hz electrical supply only.



Models: LT4, LT4S

Atmosphere Lint Trap

Providing an Additional Layer of Protection

Lint Traps add another layer of protection from a hazardous buildup of lint in the exhaust duct that could lead to a serious fire. Installed between the dryer and the dryer exhaust duct power ventilator, these air filters catch lint that is missed by the dryer’s lint screen ensuring that the dryer duct stays cleaner, and the dryer performs more efficiently.

KEY FEATURES

Ensures Dryer Efficiency

Equipped with a nylon, mesh screen that filters the air that feeds into the dryer exhaust fan.

Easy to Keep Clean

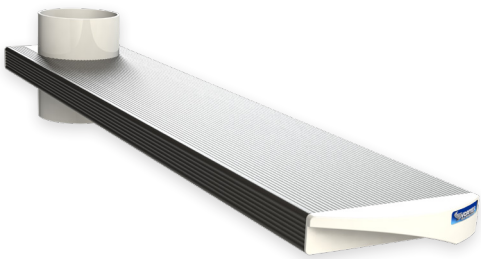
The 4" window enables monitoring of the lint accumulation to know when to clean the washable filter.

Ready for 4" Ducts

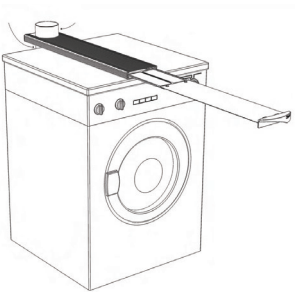
The powder-coated, 24Ga galvanized steel box has 4" duct adapters.

Easy to Install

With the finishing frame, installation is easy. The LT4S model is suitable for installation in a 2" x 4" wall.



Model: SLT



Atmosphere Slim Lint Trap

Designed For Stackable Dryer Installation

The Slim Lint Trap adds another layer of protection from a clogged exhaust duct that could lead to a serious fire hazard. Installed between the dryer and the dryer exhaust ventilator.

KEY FEATURES

Increases Dryer Efficiency

41 sq. inch filtering area increases dryer efficiency.

Easy to Keep Clean

The nylon filter screen is washable.

Ready for 4" Ducts

Includes a 4" duct adapter.

Durable

Composed of a durable aluminum extrusion body and slider.



Panasonic
IAQ Division
Two Riverfront Plaza
Newark, NJ 07102
iaq.na.panasonic.com

For Order Information
PHONE: 866-292-7299
FAX: 888-553-0723
ventfans@us.panasonic.com

