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IMPORTANT SAFETY INFORMATION READ AND SAVE THESE INSTRUCTIONS

WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS:

Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards.

CAUTION: The installation of a *VORTEX D-65* fan must be in accordance with the requirements specified in this installation manual and with any additional requirements set forth by the national electric code (NEC), ANSI/NFPA 70-1999, and all local codes.

WARNING: To reduce the risk of fire, electric shock, or personal injury, mount directly to a structural framing member.

WARNING: To prevent electrical shock and/or injury disconnect fan from power source before you move or service the fan. Suitable for use with solid-state speed controls.

CAUTION: When service or replacement of a component in the fan requires the removal or disconnection of a safety device, the safety device is to be reinstalled or remounted as previously installed.

WARNING: Risk of fire, electric shock, or injury to persons during cleaning and user maintenance. Disconnect the fan from the power supply before servicing.

WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

- a) Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
- **b**) Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

WARNING: Do not install in a cooking area.

WARNING: Fatal electric shock from metal cable glands in the plastic terminal box is possible if incorrectly connected – do not use metal cable glands in plastic terminal boxes.

WARNING: Do not operate the fan in spaces with Hazardous or Explosive Material and Vapors.

DANGER: Rotating equipment. Death, severe injury and property damage may result. **VORTEX D-65** fans are intended to be hung out-of-reach of people. The bottom of the fan must be no less than 3.05m (10') from any area capable of receiving pedestrian traffic.

WARNING: Stay alert and use common sense when installing fans. Do not install fans if tired or under the influence of drugs, alcohol, or medication.

WARNING: Do not bend the blade brackets when installing, adjusting, or cleaning the fan. Do not insert foreign objects in between rotating fan blades.

CAUTION: The **VORTEX D-65** fans product warranty will not cover equipment damage or failure that is caused by improper installation.

PRE-INSTALLATION page 2

The safe installation and operation of equipment supplied by **ATMOSPHERE** is the responsibility of the system designer, installer, maintainer, and operator (collectively, the "User"). The need for protective safety accessories to meet company standards, applicable codes, and the requirements of the Occupational Safety and Health Act ("OSHA") must be determined by the User since safety requirements may vary depending on the location and application of the equipment.

The elements of a successful installation consist of:

- 1. Good layout of fans, wiring, and controls
- 2. Hanging the fans where they'll be most effective and convenient to control
- 3. Completing the electrical hook-up
- 4. Start-up and commissioning
- 5. Conducting all work in a safe manner consistent with all relevant codes and regulations

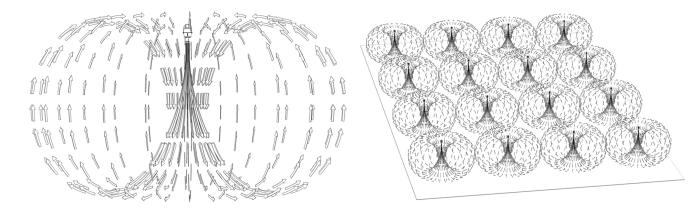
LAYOUT

This phase should have been completed prior to placing your order. If you don't have a plan or would like to consider modifications, please consult with your professional engineer, designer and/or installer. You may also contact your **ATMOSPHERE** representative or **ATMOSPHERE** directly if you require assistance.

Remember, the number of **VORTEX D-65 ATMOSPHERE** fans required for the job, as well as where they are hung, will depend on a number of variables, some of which are:

- Ceiling height, as well as the overall volume of air the fans need to move in order to achieve the targeted level for turnover of air in the facility every hour (a good design target for destratification is 100% turnover every hour)
- The availability of a sturdy and secure anchor point for attaching the fan
- · Obstructions, such as merchandise/inventory racks, lighting, overhead equipment, and other mechanical systems
- The location of existing HVAC diffusers and returns
- A desire to create air movement at a specific work station, machine or other locale to dissipate heat, provide spot cooling, dry floors, or reduce/eliminate condensation

Ask the electrician who will do the wiring for the fan(s) to review the following section to be sure your layout is a good one for your objectives and that it meets electrical requirements and any existing wiring. Ask the contractor who will be hanging your fans to review your layout for ease and safety of installation, as well as compatibility with existing mechanical systems and all applicable codes. If the installer(s) have any questions about where to locate your fan(s) or how to install them, please contact either your **ATMOSPHERE** representative or **ATMOSPHERE**. A copy of this installation guide can also be found at **www.atmosphere.com**.

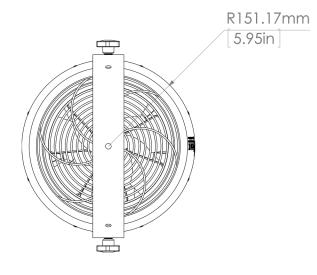


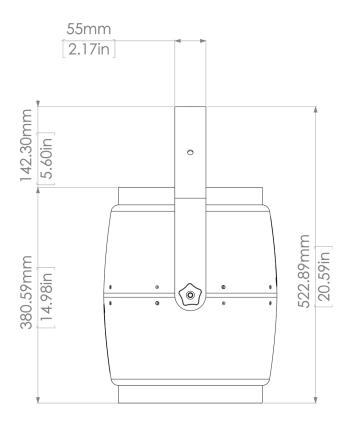
For the fans to be most effective, they should generally be evenly spaced throughout the facility and have a "clear shot" to the floor. As with any other equipment installation, the individual characteristics of the site will dictate the overall fan layout, as well as the placement of each individual fan.

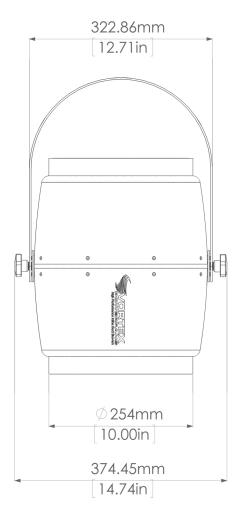
VORTEX D-65 SPECIFICATIONS

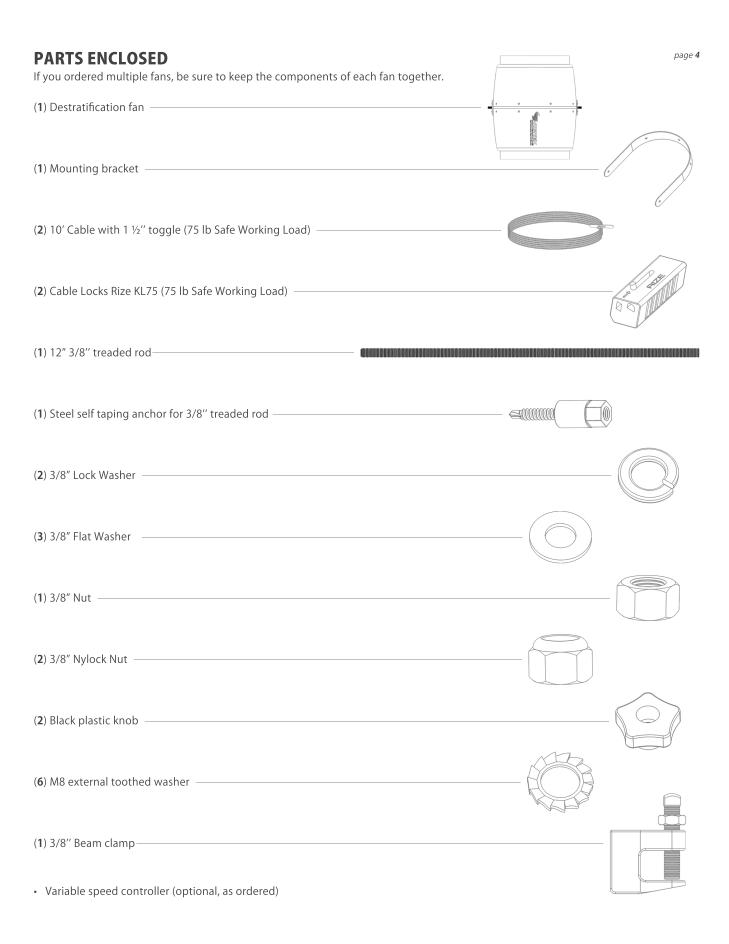
Weight	Full Load Current	Max RPM	Max CFM
15.62 lbs (7.1 kg)	2.1 A @ 120V	2800	1082

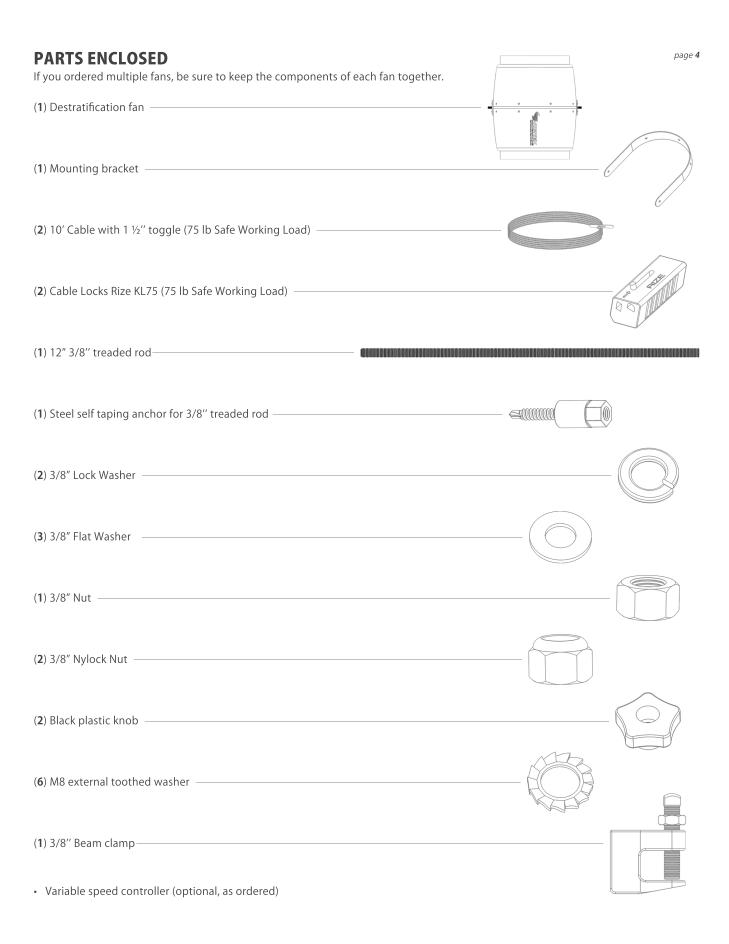
OVERALL DIMENSIONS

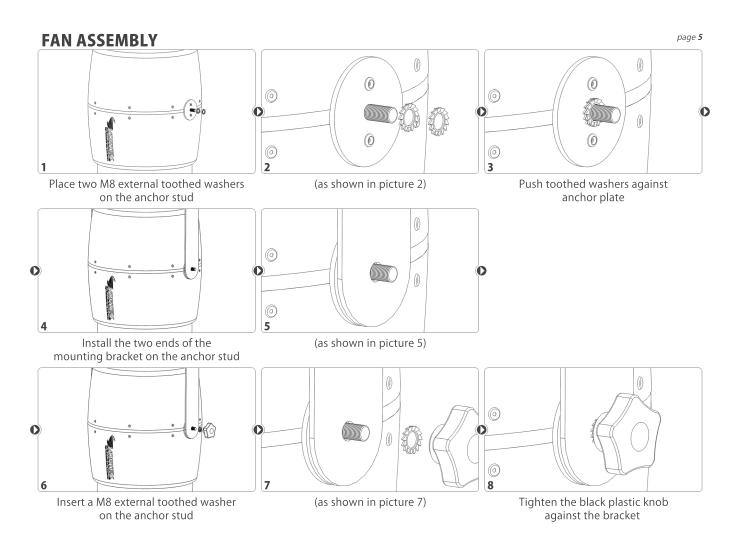


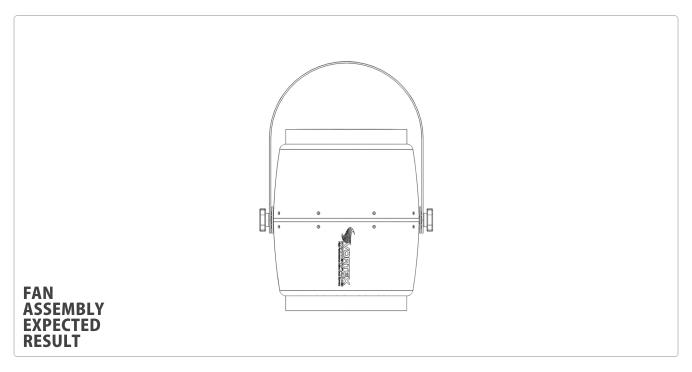


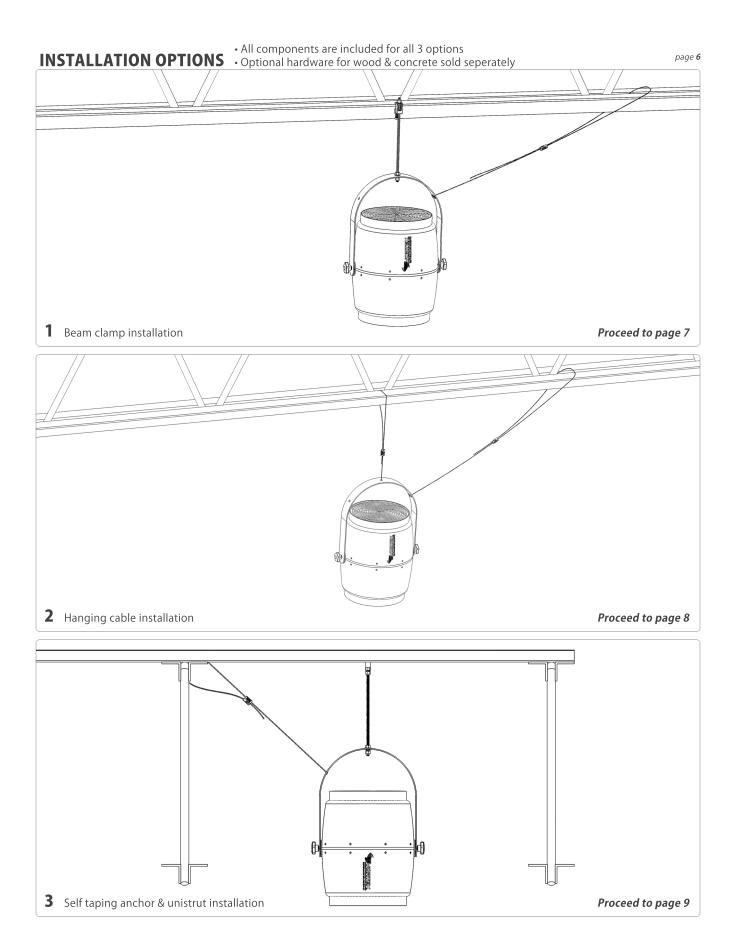








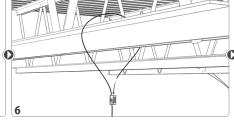


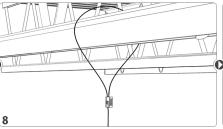


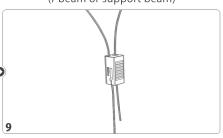
Proceed to Tether Installation (page 10)

EXPECTED RESULT





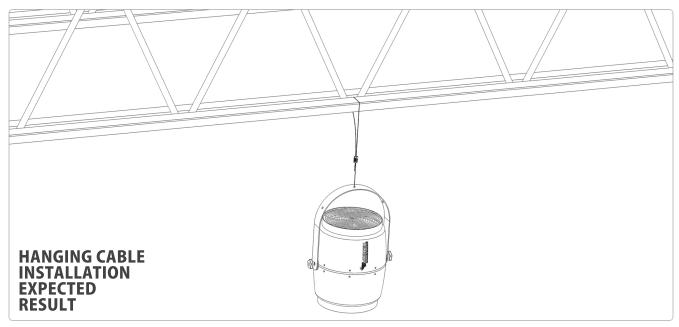




Insert the cable through the square hole of the **RIZE** in the direction of the arrow

Adjust the cable so that it is held in position tightly

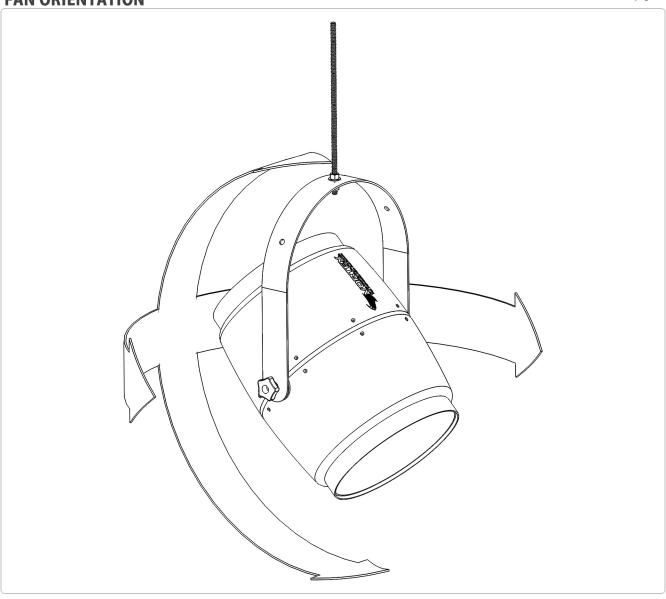
Excess cable should be rolled up or cut for a clean installation



Proceed to Tether Installation (page 10)

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FAN ORIENTATION page 11



VORTEX D-65 fans are extremely versatile and can be installed as close as 12" to side-walls and ceilings. It is also easy to angle the fans to direct the airflow to hit or miss a particular area.

Air flow can be directed along any vector for precision use.

Installation instructions

- 1 To install the S-line fan, the fan assembly must first be removed. To unlock the mounting bracket: while lifting the LIFT button (1), push the security tab (2) down and open the flance.
- 2 Once the fan is removed secure the mounting bracket assembly to a fixed structure with the supplied screws.
- 3 Install the ductwork on the fan.
- 4 Replace the fan assembly and tighten the two flanges to secure the product.

CAUTION: Before carrying out any maintenance or servicing, ensure the unit is disconnected from the main supply. FOR GENERAL VENTILATION USE ONLY. DO NOT USE TO EXHAUST HAZARDOUS OR EXPLOSIVE VAPOURS.

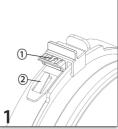
WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS. OBSERVE THE FOLLOWING:

- a) Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
- b) Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device such as a tao to the service panel.
- c) Installation work and electrical wiring must be done by a qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- d) When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities
- e) Ducted fans must always be vented to the outdoors.
- f) NEVER place a switch where it can be reached from a tub or shower.
- g) When used in an attic install this side of the fan facing an unoccupied space.
- h) To reduce the risk of electric shock do not expose to water or rain.
- This unit has an unguarded impeller. Do not use in locations readily accessible to people or animals.
- j) Suitable for use with solid-state speed controls.
- k) This fan shall not be installed behind a suspended floor/ceiling or a structural wall, ceiling or floor.
- CAUTION: THIS DUCT FAN SHALL BE INSTALLED A MINIMUM OF ONE METRE FROM ANY ACCESSIBLE OPENING OF THE DUCT.

MAINTENANCE:

All S-line exhaust fans incorporate sealed for life bearings and therefore do not require any lubrication. We would recommend inspection of the product at least once every twelve (12) months to avoid the excessive accumulation of dust and dirt on the impelier. To inspect the unit, disconnect from electrical supply and remove from ducting, if any debris is evident on the impelier, clean with a damp (not well) oloth.

DO NOT USE any detergents or abrasive materials for cleaning.



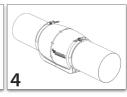


To install the S-line fan, the fan assembly must first be removed. To unlock the mounting bracket: while lifting the LIFT button (1), push the security tab (2) down and open the flange.

Install the ductwork on the mounting bracket assembly.



Once the fan is removed secure the mounting bracket assembly to a fixed structure with the supplied screws.



Replace the fan assembly and tighten the two flanges to secure the product.





10 YEAR LIMITED WARRANTY

All S-line exhaust fans are warranted to be free from defective materials and workmanship for the period of ten (10) years from the date of original purchase. In the event that we find any part is defective the product will be repaired or, in the Company's discretion, replaced without charge provided that the product has been installed in accordance with the enclosed instructions and all applicable EPA Standards and state and local building codes.

IF CLAIMING UNDER WARRANTY

Please return the complete product, freight paid, to your local authorized distributor. All returns must be accompanied by a valid Bill Of Sale. All returns must be clearly marked "Warranty Claim" with an accompanying description stating the nature of the fault.

Warranty does not apply to:

- 1 Backdraft Damper
- 2 Shipping damage, either concealed or visible. Claims must be filled with the carrier.
- 3 Damage caused by improper installation or improper wiring, including incorrect electrical voltage.
- 4 Product which has been modified.
- 5 Damage caused by corrosion, abrasion or severe temperatures.
- 6 Product which has had the identification label removed or altered.
- 7 Product which has been subjected to improper maintenance, abuse, misuse, abnormal usage or accident.

WARRANTY VALIDATION The end user must keep a copy of the Bill of sale to verify purchase date.

THE ABOVE TEN (10) YEARS LIMITED WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED, WRITTEN OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE. IN NO EVENT SHALL ATMOSPHERE INC BE LIABLE FOR ANY SPECIAL, CONSEQUENCIAL, OR INCIDENTAL DAMAGES, INCLUDING LOSS OF PROPERTY, REVENUES, LOST PROFITS, COST OF REMOVAL, INSTALLATION OR REINSTALLATION.

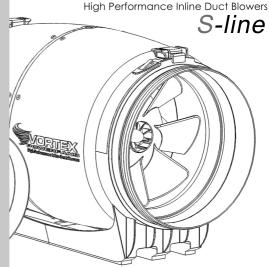
THE ABOVE SAID TEN (10) YEARS LIMITED WARRANTY WILL BE REDUCED TO SIX (6) YEARS FOR THOSE HVAC APPLICATIONS WHERE THE GOODS ARE REQUIRED TO OPERATE FOR TWENTY (20) HOURS OR MORE A DAY.





INSTRUCTIONS MANUAL







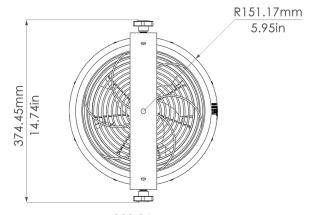


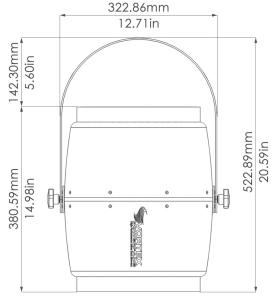
Submittal Sheet

D-1000

Destratification Fan

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





DESTRATIFICATION FAN DESCRIPTION

The **Vortex D-1000** creates uniform air temperatures from floor to ceiling for maximum thermal comfort and energy savings up to 35% in the heating season and up to 25% in the cooling season

CERTIFICATION:

ETL certified for US and Canada Conforms to UL-507, CAN/CSA C22.2# 113

HOUSING:

PC resin, UL94 V0 flame resistance rating

MOTOR:

- · Single phase, permanent split capacitor motor (variable speed with optional speed control)
- \cdot Motor is class F thermally protected
- \cdot Operating temperature: -13° F (-25° C) to 140° F (60° C)
- · No lubrication required
- · Bearings are sealed
- \cdot 6' cord and 3 prong plug provided for 120V

IMPELLER:

Mixed flow for high volume, longer throw and low sound level

STATOR:

3D shaped multi-vane stator significantly increases air throw to maximize performance

MOUNTING HARDWARE:

2 x 10' Quick attached toggle steel cable + beam clamp, 12" treaded rod and metal self tapping anchor

WARRANTY:

10 years (parts and workmanship)

ACCESSORIES (additional costs apply) **Speed Control** (coordinate w/ electrical rerquirement)

item	Description	Qty
AVS-5 115	120V AC - 5A wall mounted speed control	
AVS-8 115	120V AC - 8A wall mounted speed control	

Project ______ Submitted by ______
Customer _____ Approved by ______
Location



WWW.ATMOSPHERE.COM info@atmosphere.com

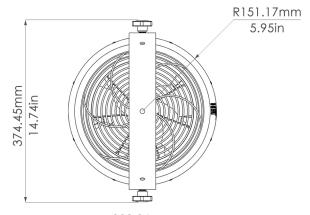


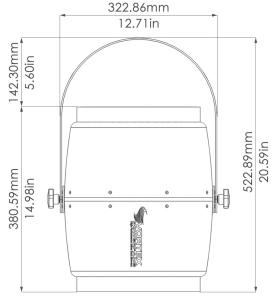
Submittal Sheet

D-65

Destratification Fan

Specifications								
Weight	Max RPM	Volts	Watts	Amps	Max CFM	dB(A)	Mounting height	Coverage area
15.62 lbs (7.1 kg)	2800	120	232	2.1	1082	54	up to 65 ft.	2000 ft.





DESTRATIFICATION FAN DESCRIPTION

The **Vortex D-65** creates uniform air temperatures from floor to ceiling for maximum thermal comfort and energy savings up to 35% in the heating season and up to 25% in the cooling season

CERTIFICATION:

ETL certified for US and Canada Conforms to UL-507, CAN/CSA C22.2# 113

HOUSING:

PC resin, UL94 V0 flame resistance rating

MOTOR:

- · Single phase, permanent split capacitor motor (variable speed with optional speed control)
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2 x 10' Quick attached toggle steel cable + beam clamp, 12" treaded rod and metal self tapping anchor

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10 years (parts and workmanship)

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item	Description	Qty
AVS-5 115	120V AC - 5A wall mounted speed control	
AVS-8 115	120V AC - 8A wall mounted speed control	

Project	Submitted by
Customer	Approved by
Location	



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