



Indoor Air Purifiers

CUBE

Standalone / Portable

Commercial / Residential

CenterPoint™ Photocatalytic Oxidation Technology



Product Description

The Genesis Air CUBE is a stand-alone unit used to reduce the levels of Volatile Organic Compounds (VOC's) and viable airborne biological contaminants. The unit may be utilized as a portable "point-of-use" air purifier or may be permanently placed in a room. The CUBE uses (1) Genesis Air 1212 PCP Compound Panel. The Genesis Air CUBE is suitable for spaces up to 3,000 square feet*. For recommend configurations, consult engineering at Genesis Air, Inc. The Genesis Air CUBE incorporates 3-step GAP™ Technology: MERV Filtration, UVGI Lamps, and Photocatalyst.

**Refer to page 8 for performance in different room sizes.*

Shipping and Packing List

(1) CUBE Housing

(1) 1212 PCP Compound Panel with 12" x 12" UV Shielding

(1) 12" x 12" x 2" MERV 13 Pre-filter

Standard Features:

- Variable Speed Control
- Powder Coated Exterior

Copyright

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Revision Summary

Original installation and maintenance manual create in July 2021.

Current manual last revised on August 4th , 2021.

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Safety Certifications

UL Classified UL File No. E326567

FIFRA....EPA EST No. 87747--TX--001



UL Requirements

- 105°C minimum supply connection rating.
- For catalyst marked “XXXX”, 50°C/122°F maximum ambient temperature. For those marked “XXXX-E”, 80°C/176°F maximum ambient temperature.
- Suitable for air-handling units.
- Access above ceiling may be required.
- The health aspects associated with the use of this product and its ability to aid in disinfection of environment air have not been investigated by UL.
- Only use type T5 lamps specified by the PCP Compound manufactured by First Light Technologies, Inc or UV Engineering Solutions LLC.
- **Caution:** *Equipment Damage Hazard. Ultraviolet light can cause color shift or surface degradation and sometimes structural degradation of non-metallic components. Select mounting location rubber hoses, wiring insulation, filtration media, etc. If mounting options are limited, items above should be protected with ultraviolet resistant materials such as aluminum foil, aluminum duct tape or metallic shields.*

Applicable Warning Labels

WARNING!



Electric / Shock Hazard

Electrical Shock can cause serious injury or death. Disconnect all remote electrical power supplies before servicing.

WARNING!

To reduce the potential of electric shock or fire, the wiring required by this manual should be performed by a licensed electrician in accordance with applicable National Electric Cod, NFPA 70, and local codes.

WARNING!



UVC Light hazard. UVC light can cause temporary or permanent loss of vision and sunburn. Take proper precautions to protect eyes and skin from direct exposure. Replace lamp with Model No. 3103, Manufactured by First Light Technologies, Inc.

WARNING!

Mercury Hazard

Do not break lamps. Each UVC lamp contains a small amount of Mercury. In case of breakage use proper lamp disposal techniques on page 13.

WARNING!

Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or death. Installation and service must be performed by a qualified installer or service agency.

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!

Children should be supervised to ensure that they do not play with the appliance.

Product Overview

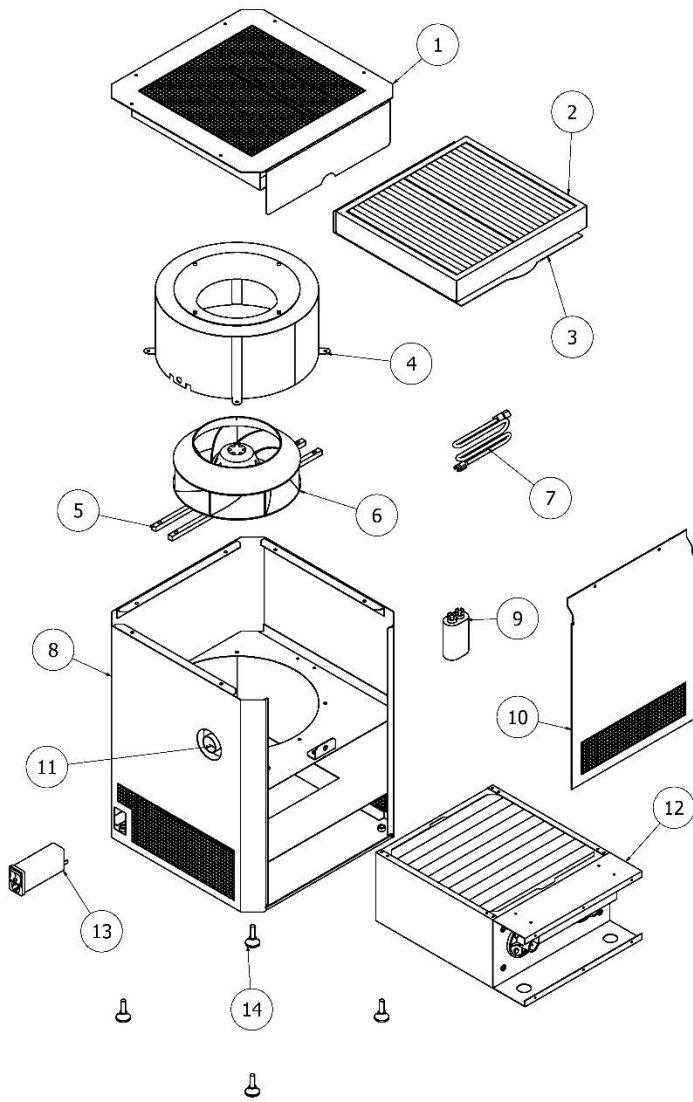


Figure 1: Components of CUBE

*Report missing or damaged parts to Genesis Air.
Refer to warranty section for more information.*

1.) Filter Grille / Filter Door Flap – Provides access to pre-filter.

2.) Pre-filter – 12" x 12" x 1" MERV 13. Removes large particles from air stream.

3.) Filter Tray – Use this tray to help remove pre-filter.

4.) Fan Shroud – Funnel's air into the fan wheel.

5.) Motor Bracket – Holds fan motor in place.

6.) Fan Motor – Conveys air through the unit.

7.) Power Cord – 120 Volt AC type C13 power cord.

8.) Shell – Housing which contains all components.

9.) Capacitor – Works in conjunction with fan motor.

10.) Access Panel – Provides access to internal components.

11.) Steady State Speed Controller – Controls the speed of the fan moving air through the unit.

12.) 1212 PCP Panel – CenterPoint™ Technology. Contains ballast tray, UVC lamps, Catalyst mesh, and UVC shielding. This is not a particle filter.

13.) Power Entry Module – Power cord terminal. Main power ON / OFF switch.

14.) Leveling Feet – (4) Leveling mounts to prevent damage to surface CUBE is placed onto.

Specifications

U.S. Patent Number: 10946116

Model Name: CUBE

Volumetric Flow Rate (CFM): 300 (Low Speed) – 500 (High Speed)

Power Requirements: 120 Volts, 60 Hertz

Current (amps): 3.02

Weight (lbs.): 40

Size: 19" x 15" x 15"

Number of Lamps: 2

UVGI Life Cycle: 12,000 operational hours

PCP Compound Panel Life Cycle: 5 years*

Particle Filter: MERV 13 up to HEPA

Installation Type: Portable

Temperature Rating: -20°F to 122°F

Sound Level (dB from 3 ft away): 50 (Low Speed) – 55 (High Speed)

** Genesis Air equipment must be properly maintained to allow PCP Compound Panels to last the full 5-year warranty period. If MERV particle filters are not used or are not replaced at the appropriate intervals, the life of the Compound Panels will be reduced. If PCPs are cleaned incorrectly or too frequently, the life of the Compound Panels will be reduced. **High pressure spray may not be used directly on PCP Panels.** Performing maintenance improperly will result in a voided product warranty. Catalyst can exceed warranty and last up to 15 years if well maintained.*

Air Changes Per Hour

Volumetric Flow Rate (CFM)						
Room Square Footage			Air Changes Per Hour			
(8 ft ceiling)	(9 ft ceiling)	(10 ft ceiling)	1	2	3	4
875	778	700	117	233	350	467
1000	889	800	133	267	400	533
1125	1000	900	150	300	450	600
1250	1111	1000	167	333	500	667
1500	1333	1200	200	400	600	800
1750	1556	1400	233	467	700	933
2000	1778	1600	267	533	800	1067
2250	2000	1800	300	600	900	1200
2500	2222	2000	333	667	1000	1333
3000	2667	2400	400	800	1200	1600
3500	3111	2800	467	933	1400	1867
4000	3556	3200	533	1067	1600	2133

Table 1: Air changes per hour at varying flow rates

Note: Highlighted Cells indicate unit range. See ASHRAE standard 62.1 for required ventilation for acceptable indoor air quality. CenterPoint devices do not deactivate or oxidize 100% of all contaminants in the air. Lower air speeds increase the effectiveness of the air purifier.

UV Lamp Safety Information

Ultraviolet germicidal irradiation (UVGI) is used for the activation of the PCO Catalyst. The residual light presents a variety of potential health hazards to humans. These hazards include eye damage, skin burns, and the potential to cause skin cancer. Because germicidal UV rays are invisible to the human eye, personnel may be subjected to a hazardous dose of UV without warning. There is no Occupational Safety and Health Administration standard for exposure to ultraviolet light. UV can be associated with adverse health effects depending on duration of exposure and wavelength. These adverse health effects include erythema (sunburn), photokeratitis (a feeling of sand in the eyes), skin cancer, melanoma, cataracts, and retinal burns. Ideally, activated UV sources should be attended by knowledgeable personnel at all times.

The UVC lamps in Genesis Air CenterPoint™ products do not produce ozone! The lamps provide a minimum intensity of 775 microwatts/cm² at 10.77 cm to activate the catalyst effectively to maintain tested performance. Lamps may not be substituted with an unapproved manufacturer. These lamps provide UV-C light at a wavelength of 254 nm. Despite their appearance to the naked eye, the lamp intensity will reduce over time. All lamps must be replaced every 16 months (12,000 hrs.) of continuous use to maintain intensity requirements. Lamps provided by Genesis Air Contain trace amounts of mercury. Lamps include a Teflon case to encapsulate the lamp and reduce the risk of exposing the consumer and environment to mercury.

Personal Protective Equipment

While in normal operation, Genesis Air units will not emit harmful levels of UV radiation to the surrounding area. When checking for proper lamp connection, you may be exposed to harmful levels of UV radiation. If you must have the lamps powered on to check for proper operation, follow these instructions.

- All personnel exposed to UV radiation must wear UV protective glasses.
- All personnel exposed to UV radiation must protect exposed skin with UV resistant clothing.

Maintenance

Filter Replacement

The Genesis Air CUBE unit includes a pre-filter to remove large particles from the air stream. This prevents the buildup of debris on the PCP compound panel. The pre-filter should be replaced when it has become built up with dirt and other contaminants. Genesis Air recommends replacing filter with a 12" x 12" x 2" MERV 13 after 1 month of continuous use.

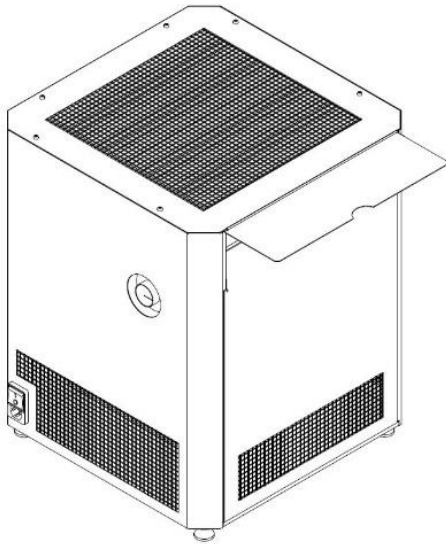


Figure 1

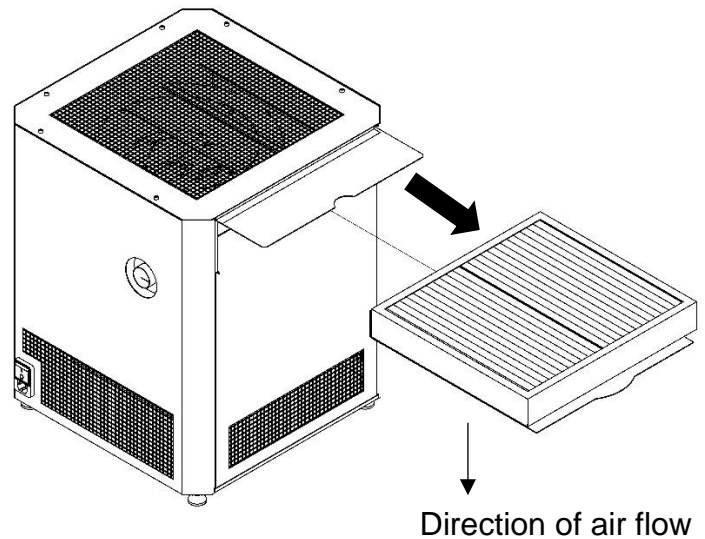


Figure 2

Filter Replacement Procedure

- 1.) Disconnect unit from power supply.
- 2.) Open filter door flap on the side of the unit. See Figure 1.

Caution: If the unit is powered on while the filter flap is opened or filter grille is removed, safety switch will **not** disconnect power.

- 3.) Remove old air filter by sliding out removable filter tray. See Figure 2.
- 4.) Compare new filter to original filter to ensure that it is the same size.
- 5.) Reinsert removable filter tray with new pre-filter. Ensure that arrows on filter are pointed down to match the direction of air flow.

Note: *Air will move in through the filter grille and exhaust out the sides of the unit.*

- 6.) Close filter door flap.
- 7.) Plug-in unit and power on to ensure that the unit works properly.

Lamp Replacement

The Genesis Air CUBE includes (2) 12" UVC lamps. UV lamps are used to energize the catalyst. These lamps will either be manufactured by First Light Technologies, Inc or UV Engineering Solutions LLC. Lamps must be replaced after 12,000 hours of continuous use. Genesis Air recommends replacing lamps every 16 months or once a year.

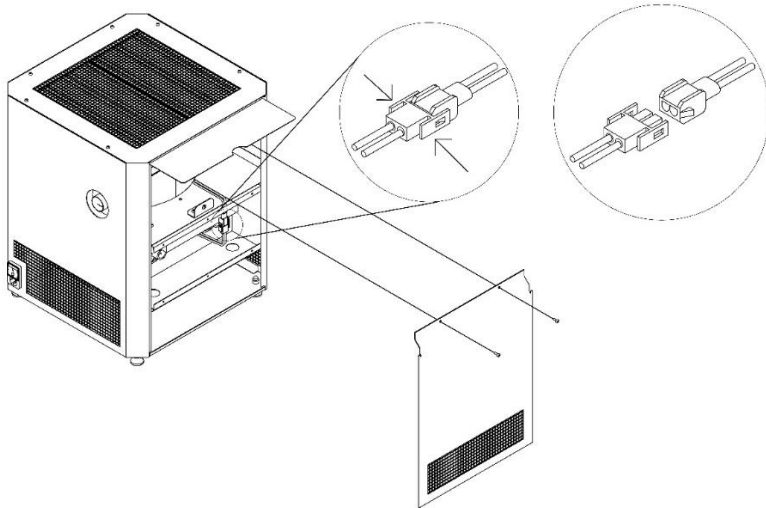


Figure 3

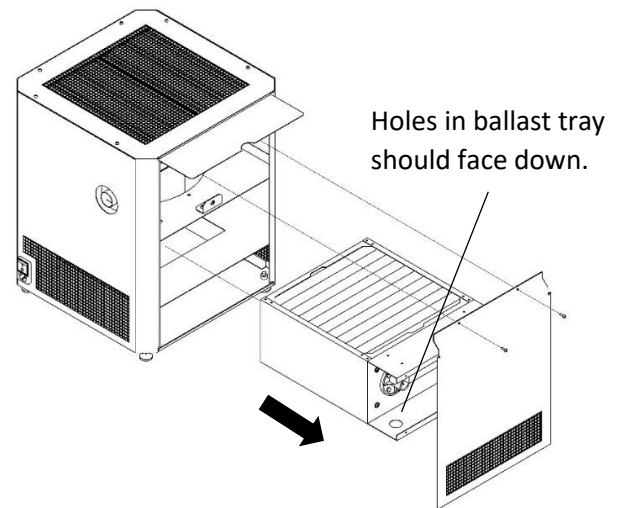


Figure 4

Lamp Replacement Procedure

- 1.) Disconnect unit from power supply.
- 2.) Remove access panel by loosening (2) screws with a 2.5 mm Allen wrench. See Figure 3.

Note: *If the unit is powered on while the access panel is removed, a safety switch will break power.*

Caution: *Electrical plug must be disconnected before servicing. A break in power caused by the safety switch is not considered disconnecting power.*

- 4.) Disconnect 2 pin MOLEX connector providing power to PCP Panel. See Figure 3.
- 5.) Remove PCP panel. See Figure 4.

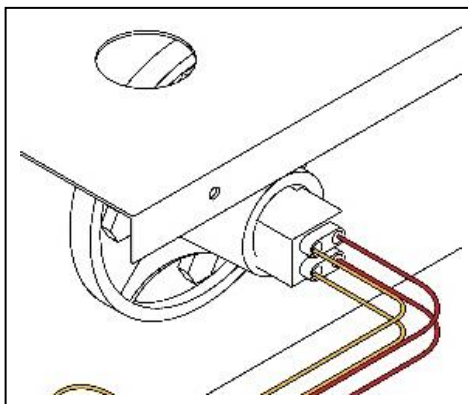


Figure 5

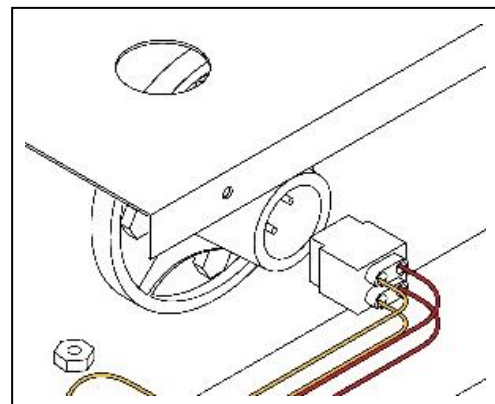


Figure 6

6.) Disconnect lamp plugs from lamps that will be replaced. See Figures 5 and 6.

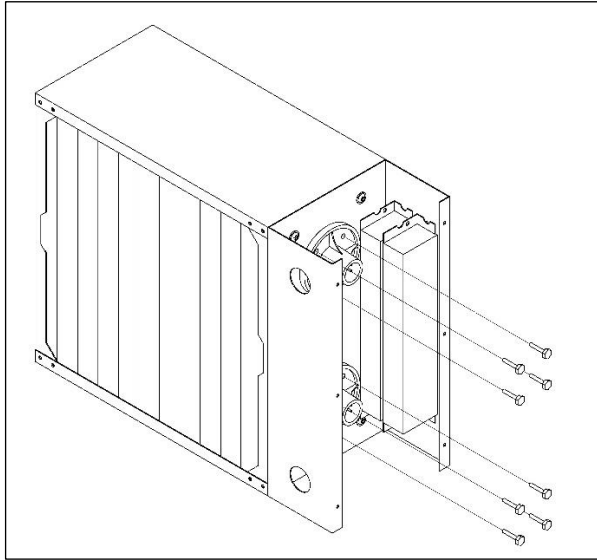


Figure 7

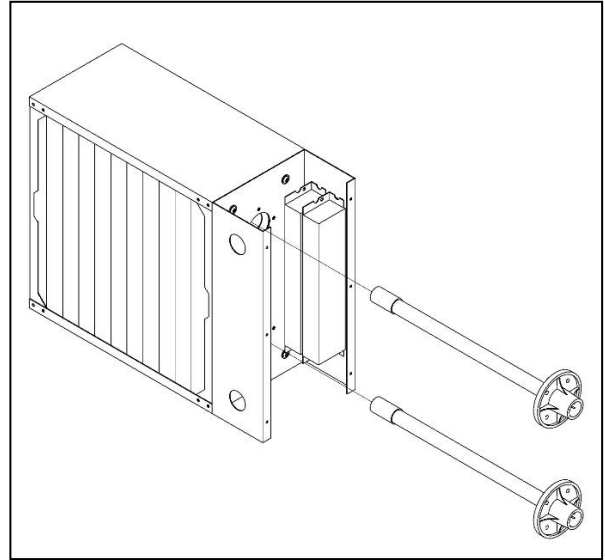


Figure 8

7.) Lamps are attached to PCP panel with (4) 10-16 Self-Drilling screws per lamp. Remove the screws using a 5/16" socket wrench. See Figure 7.

8.) Remove lamps by alternating a quarter turn clockwise and a quarter turn counterclockwise as it is pulled out. This will prevent the lamp from becoming bound up in the catalyst media. See Figure 8.

Caution: *Lamps may be hot if recently in operation. Allow lamps to cool before removing or wear heat insulating gloves to protect hands.*

9.) Inspect new lamp to ensure that it matches the length of the original lamp (12").

10.) Replace lamps by alternating a quarter turn clockwise and a quarter turn counterclockwise as it is pushed in. This will prevent the lamp from becoming bound up in the catalyst media. See Figure 8.

11.) Reinsert (4) screws per lamp using a 5/16" socket wrench. See Figure 7.

12.) Reconnect lamp plugs. See Figures 5 and 6.

13.) Reinsert PCP panel. Ensure that arrows on panel match the direction of air flow. See Figure 4.

Note: *Air will move in through the filter grille and exhaust out the sides of the unit.*

14.) Reconnect 2 pin MOLEX Connectors providing power to PCP Panel. See Figure 3.

15.) Reattach access panel with (2) screws. Tighten screws with an Allen wrench. See Figure 3.

17.) Plug-in unit and power on to ensure that the unit works properly.

Lamp Disposal

Products containing Mercury are considered hazardous waste. Since January 1, 2000, the United States Environmental Protection Agency (EPA) has allowed for spent lamps to be managed as Universal Wastes. The Universal Waste Rules (UWR) are designed in part to simplify the management of mercury containing wastes, including spent fluorescent lamps. The Rules are also intended to encourage recycling, thereby reducing mercury emissions to the environment.

As an alternative to managing lamps as universal wastes, a facility may elect to manage its spent lamps as hazardous wastes. Hazardous waste rules, like the universal waste rules, are promulgated under the federal Resource Conservation Recovery Act (RCRA) and state laws equivalent to RCRA. RCRA regulates hazardous wastes from the cradle to the grave. RCRA Subtitle C requires a waste generator to properly identify, treat, store, transport, and delegate to the States the responsibility for the day-to-day management of the program.

List of Lamp Recycling Facilities in the US

- AERC Recycling Solutions – Hayward, CA ; West Melbourne, FL ; Allentown, PA
- Universal Recycling Technologies – Dover, NH ; Clackamas, OR ; Fort Worth, TX ; Janesville, WI
- Veolia ES – Phoenix, AZ ; Tallahassee, FL ; Stoughton, MA ; Port Washington, WI

Go online to find you nearest lamp recycling facility.

Ballast Replacement.

There is not a set lifetime for Genesis Air ballasts. Ballasts are intended to last the life of the unit. However, ballasts can fail prematurely and will need to be replaced. Always replace with ballasts sold through Genesis Air. See Ballast Troubleshooting on page 19 for diagnosing ballast faults.

Ballast Replacement Procedure

- 1.) Disconnect unit from power supply.
- 2.) Remove access panel by loosening (2) screws with a 2.5 mm Allen wrench. See Figure 3.

Note: *If the unit is powered on while the access panel is removed, a safety switch will break power.*

Caution: *Electrical plug must be disconnected before servicing. A break in power caused by the safety switch is not considered disconnecting power.*

- 4.) Disconnect 2 pin MOLEX connector providing power to PCP panel. See Figure 3.
- 5.) Remove PCP panel. See Figure 4.

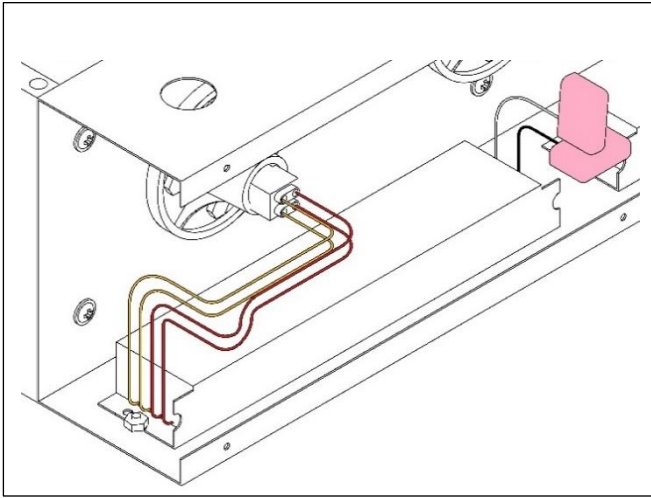


Figure 7

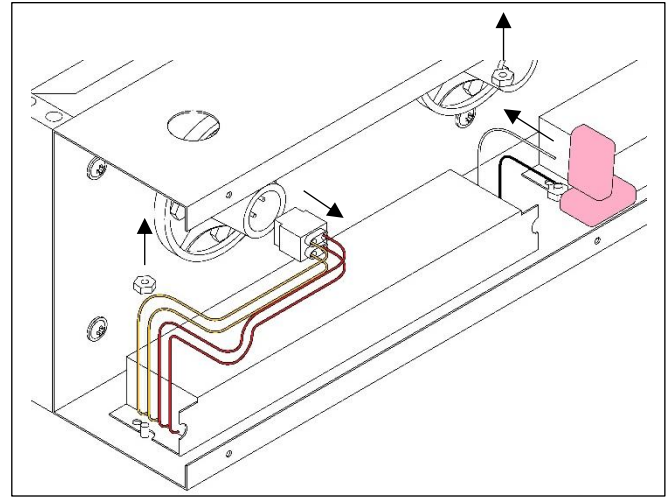


Figure 8

6.) Disconnect lamp plug and power attached to defective ballast. Take note of which terminals power the defective ballast so the new one can be wired correctly. See Figures 7 and 8.

7.) Disconnect wire providing power to the ballast. See Figures 7 and 8.

8.) Use an 11/32" socket wrench to remove the (2) nuts holding the ballast into place. See Figures 7 and 8.

9.) Inspect the new ballast and ensure that it matches the original one.

10.) Reinsert and tighten the (2) nuts that hold the ballast in place with an 11/32" socket wrench. See Figures 7 and 8.

11.) Reconnect lamp plugs and reconnect wiring clip powering ballast. See Figures 7 and 8.

12.) Reinsert PCP panel. Ensure that arrows on panel match the direction of air flow. See Figure 4.

Note: Air will move in through the filter grille and exhaust out the sides of the unit.

13.) Reconnect 2 pin MOLEX connector providing power to PCP panel. See Figure 3.

14.) Reattach access panel with (2) screws. Tighten screws with an Allen wrench. See Figure 3.

15.) Plug-in unit and power on to ensure that the unit works properly.

Fan Motor Replacement

There is not a set lifetime for fan motors. Fan motors are intended to last the life of the unit. However, fan motors can fail prematurely and will need to be replaced. Always acquire replacement fan motor from Genesis Air.

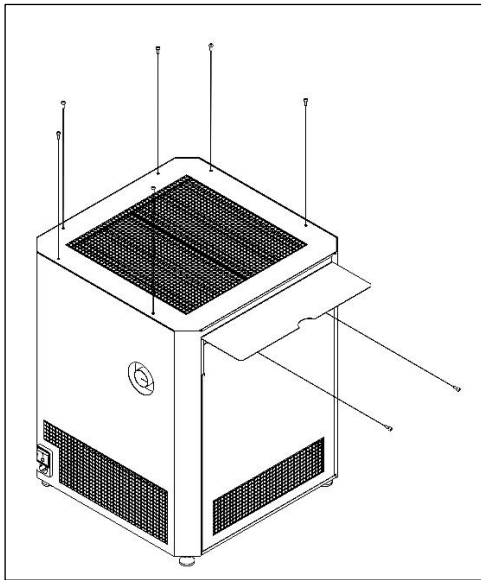


Figure 9

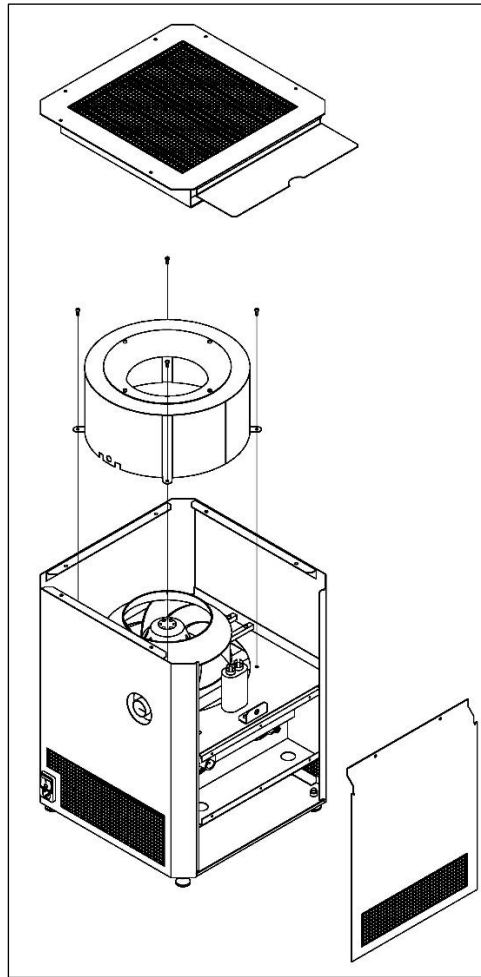


Figure 10

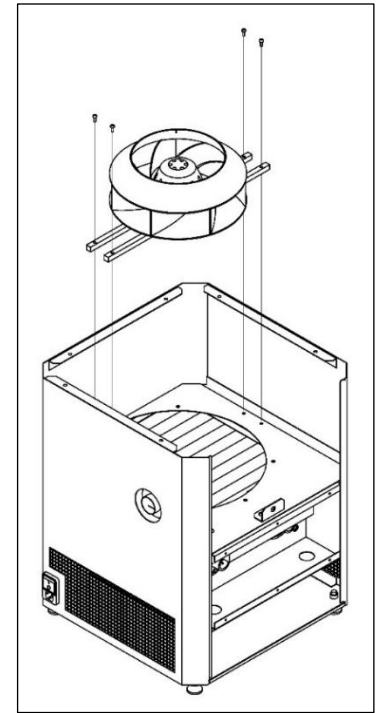


Figure 11

Fan Motor Replacement Procedure

- 1.) Disconnect unit from power supply.
- 2.) Remove filter grille by loosening (6) screws on the top of the unit with a 2.5 mm Allen wrench. Also remove (2) screws holding access panel in place. See Figure 9.

Note: *If the unit is powered on while the access panel is removed, a safety switch will break power.*

Caution: *Electrical plug must be disconnected before servicing. A break in power caused by the safety switch is not considered disconnecting power.*

- 3.) Remove (4) screws holding fan shroud in place using an Allen wrench. See Figure 10.
- 4.) Disconnect fan motor 4 pin MOLEX connector from frame wiring harness.
- 5.) Remove fan motor and motor bracket from the frame by loosening (4) screws with an Allen wrench. See Figure 11.

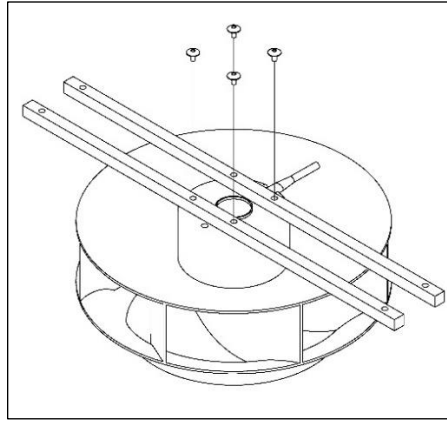


Figure 12

- 6.) Disconnect fan motor from motor bracket by loosening (4) screws with an Allen wrench. See Figure 12.
- 7.) Inspect new fan motor to ensure it matches the old motor.
- 8.) Connect new fan motor to the fan bracket using (4) screws. Tighten with an Allen wrench. See Figure 12.
- 9.) Reconnect fan bracket to frame using (4) screws. Tighten with an Allen wrench. See Figure 11.
- 10.) Connect fan motor 4 pin MOLEX connector to wiring harness.
- 11.) Reconnect fan shroud to frame using (4) screws. Tighten with an Allen wrench. See Figure 10.
- 12.) Reattach filter grille to frame using (6) screws. Tighten with an Allen wrench. See Figure 9.
- 13.) Reattach access panel to frame using (2) screws. Tighten with an Allen wrench. See Figure 9.
- 14.) Plug-in unit and power on to ensure that the unit works properly.

Note: *Adjustments may be needed if fan blade rubs against fan shroud.*

Catalyst Cleaning

As debris and contaminants accumulate on the catalyst, the effectiveness of the unit decreases. The catalyst must be inspected periodically for buildup. It is recommended that this inspection be performed during pre-filter replacement.

Catalyst Inspection Procedure

- 1.) Disconnect unit from power supply.
- 2.) Remove access panel by loosening (2) screws with a 2.5 mm Allen wrench. See Figure 3.

Note: *If the unit is powered on while the access panel is removed, a safety switch will break power.*

Caution: Electrical plug must be disconnected before servicing. A break in power caused by the safety switch is not considered disconnecting power.

- 4.) Disconnect 2 pin MOLEX connector providing power to PCP panel. See Figure 3.
- 5.) Remove PCP panel. See Figure 4.
- 6.) Using a flashlight, visually inspect catalyst. Look for clumps of dirt and debris.
- 7.) If catalyst appears clean and free of particulate, the catalyst will not need to be cleaned. Proceed to step 8 to reassemble. If catalyst has accumulated dirt and debris, the catalyst panel should be cleaned. Proceed to step 6 of Catalyst Cleaning Procedure.
- 8.) Reinsert PCP panel. Ensure that arrows on panel match the direction of air flow. See Figure 4.
Note: *Air will move in through the filter grille and exhaust out the sides of the unit.*
- 9.) Reconnect 2 pin MOLEX connector providing power to PCP panel. See Figure 3.
- 10.) Reattach access panel with (2) screws. Tighten screws with an Allen wrench. See Figure 3.
- 11.) Plug-in unit and power on to ensure that the unit works properly.

Catalyst Cleaning Procedure

- 1.) Disconnect unit from power supply.
- 2.) Remove access panel by loosening (2) screws with a 2.5 mm Allen wrench. See Figure 3.
Note: *If the unit is powered on while the access panel is removed, a safety switch will break power.*

Caution: Electrical plug must be disconnected before servicing. A break in power caused by the safety switch is not considered disconnecting power.

- 4.) Disconnect 2 pin MOLEX connector providing power to PCP panel. See Figure 3.
- 5.) Remove PCP panel. See Figure 4.
- 6.) If the catalyst has only light to moderated dust build up, use a hand sprayer with water only to rinse the catalyst. Avoid heavy concentration of spray on ballast tray.

If catalyst is soiled with resin (E.T.S.) or grease, pray catalyst liberally with Nu-Calgon CalClean, Special HD, or another suitable coil cleaner. Do not spray ballast tray. Allow to sit for 15 minutes before rinsing with pump up water spray bottle.

Caution: *Do not spray high-pressure water to clean catalyst. Excessive use of high-pressure water will remove catalyst coating. This type of damage will void the product warranty.*

- 7.) Allow catalyst to dry before reinserting into unit.
- 8.) Reinsert PCP panel. Ensure that arrows on panel match the direction of air flow. See Figure 4.
Note: *Air will move in through the filter grille and exhaust out the sides of the unit.*
- 9.) Reconnect 2 pin MOLEX connector providing power to PCP panel. See Figure 3.
- 10.) Reattach access panel with (2) screws. Tighten screws with an Allen wrench. See Figure 3.

11.) Plug-in unit and power on to ensure that the unit works properly.

Replacement Parts

Part	Description	Name / Model Number
Ballast	120 VAC, 60 Hz	Fulham WH-5
Catalyst	11.5" x 11.5" x 5.8"	1212 PCP Compound Panel
Pre-filter	12" x 12" x 2"	12" x 12" x 2" MERV 13
Motor Assembly	Black EBM-papst Fan or Red EBM-papst Fan	R2E225-RA40-21 or R2E225-RA40-27
Capacitor	15 μ F	Packard Titan Pro Capacitor
UVGI Lamps	12" UV-C Lamp	First Light Technologies, Inc. 3103
UVGI Shielding	12" x 12"	CGS UV Shield
Power Cord	16 AWG	Qualtek Electronics Corp. 233058-01
Motor Controller	Steady State Speed Controller	KBWC-16LRK
Lamp Screws	Hex Screw	10-16 Self-Drilling Screw
Catalyst Cover Screws	Phillips Head Screw	PPH 1/2" Self-Drilling Screw
Feet	CUBE Feet	5/16" – 18 Leveling Mount
Screws	CUBE Screws	M4 Allen Head Screw

Table 2: Replacement Parts

**Only use genuine Genesis Air replacement parts. Parts highlighted in gray may be substituted with other manufactures.*

To place an order for replacement parts, please contact Genesis Air at

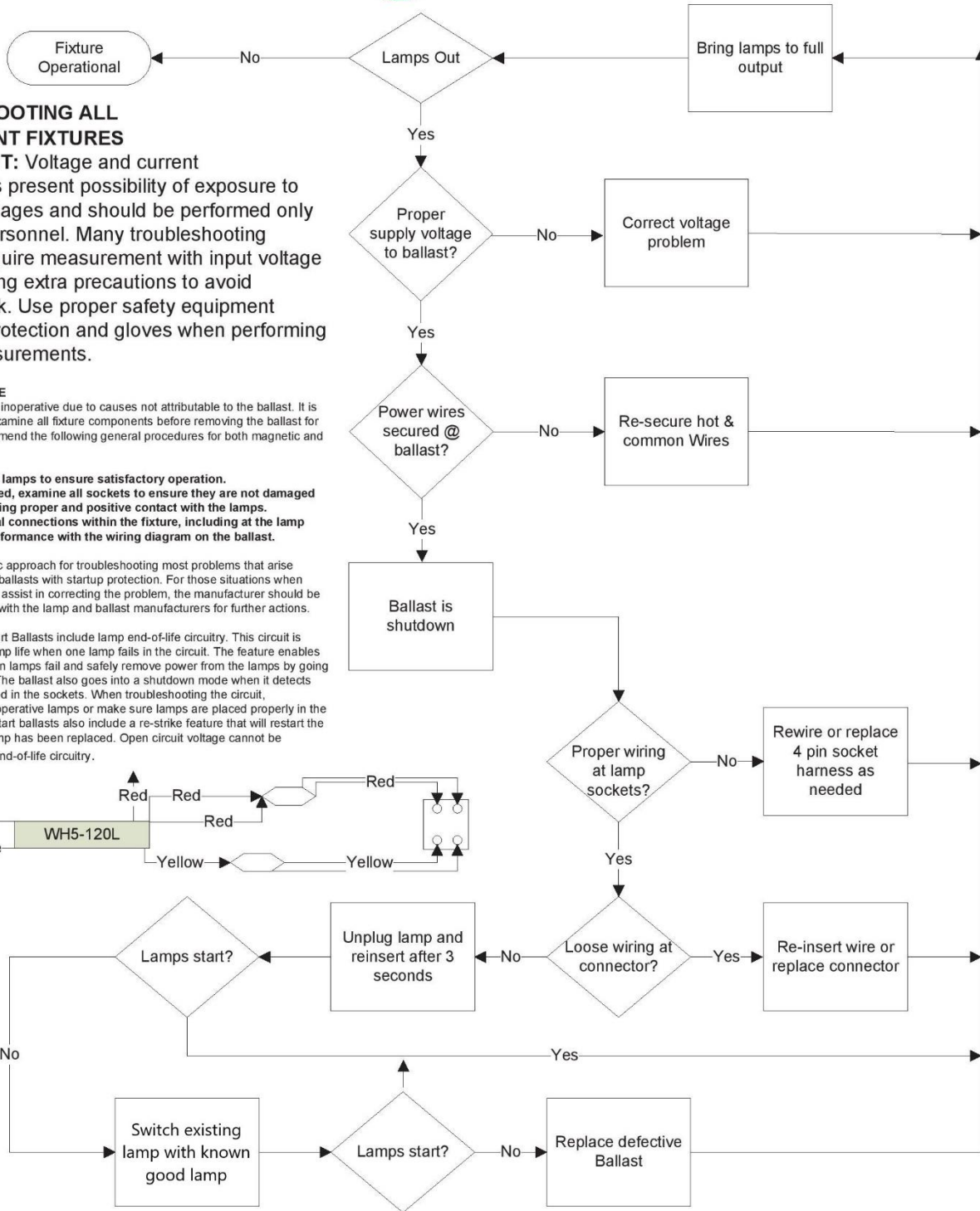
Phone: 806-745-7000

Web: www.genesisair.com

Physical Address: 5202 CR 7350 Suite D Lubbock, TX 79424

Ballast Troubleshooting Chart

Figure 1a



TROUBLESHOOTING ALL FLUORESCENT FIXTURES

SAFETY FIRST: Voltage and current measurements present possibility of exposure to hazardous voltages and should be performed only by qualified personnel. Many troubleshooting techniques require measurement with input voltage applied requiring extra precautions to avoid electrical shock. Use proper safety equipment such as eye protection and gloves when performing electrical measurements.

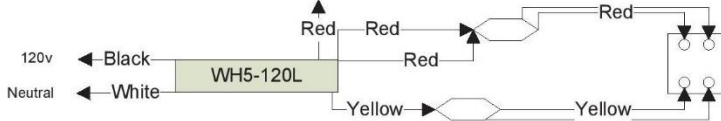
INOPERATIVE FIXTURE

Often a fixture becomes inoperative due to causes not attributable to the ballast. It is therefore important to examine all fixture components before removing the ballast for replacement. We recommend the following general procedures for both magnetic and electronic ballast:

1. Replace or check all lamps to ensure satisfactory operation.
2. As lamps are removed, examine all sockets to ensure they are not damaged or broken and are making proper and positive contact with the lamps.
3. Examine all electrical connections within the fixture, including at the lamp sockets, to ensure conformance with the wiring diagram on the ballast.

Figure 1a is a systematic approach for troubleshooting most problems that arise regarding fixtures using ballasts with startup protection. For those situations when these documents do not assist in correcting the problem, the manufacturer should be contacted to coordinate with the lamp and ballast manufacturers for further actions.

NOTE: Programmed Start Ballasts include lamp end-of-life circuitry. This circuit is included to maximize lamp life when one lamp fails in the circuit. The feature enables the ballast to detect when lamps fail and safely remove power from the lamps by going into a shutdown mode. The ballast also goes into a shutdown mode when it detects lamps not properly placed in the sockets. When troubleshooting the circuit, make sure to replace inoperative lamps or make sure lamps are placed properly in the sockets. Programmed Start ballasts also include a re-strike feature that will restart the lamps after the failed lamp has been replaced. Open circuit voltage cannot be measured due to lamp end-of-life circuitry.



Installation

The Genesis Air CUBE is designed to be utilized as a portable, desktop unit. Installation must be completed by competent personnel. Genesis Air, Inc. assumes no liability for damages or injuries sustained from installations done by persons other than qualified Genesis Air technicians.

Portable Installation

Make the following considerations when choosing an appropriate placement location.

- Choose a suitable location on the ground or on furniture within a room or corridor.
- Ensure that the intake and outlet grills of the unit are not blocked by adjacent furniture or walls.
- Ensure that the placement of the unit does not interfere with the flow of foot traffic or block entrances or exits to rooms within the building.

Caution: *Placing the unit in a location on the floor that impede foot traffic may be considered a fire hazard. Consults local building and fire codes to find a suitable floor location.*

- Choose a location that has access to a 120V power outlet. An extension cord with ground pin may be used if the supplied power cable is too short for your application.

Wiring Diagram

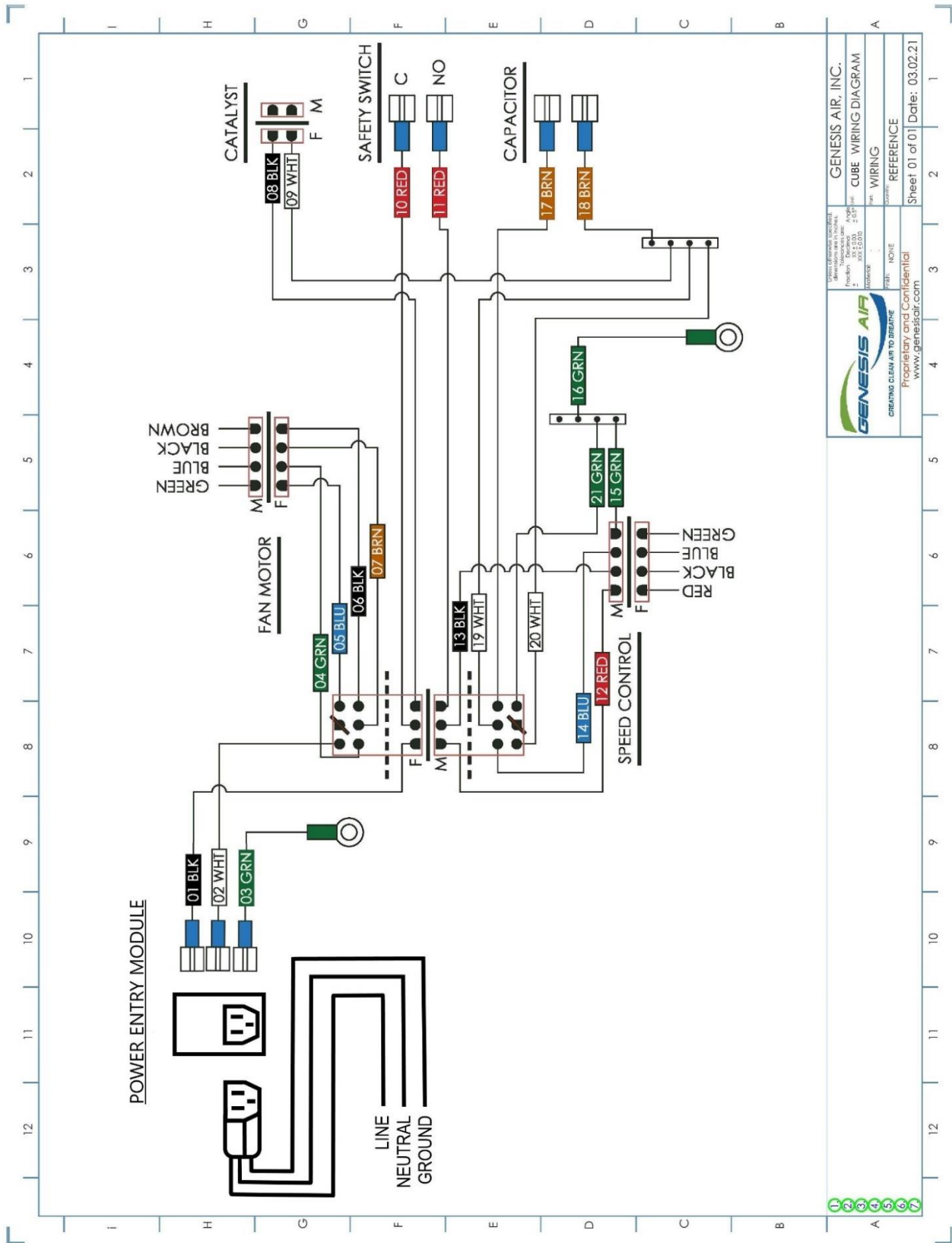


Figure 13: RGS Wiring Harness

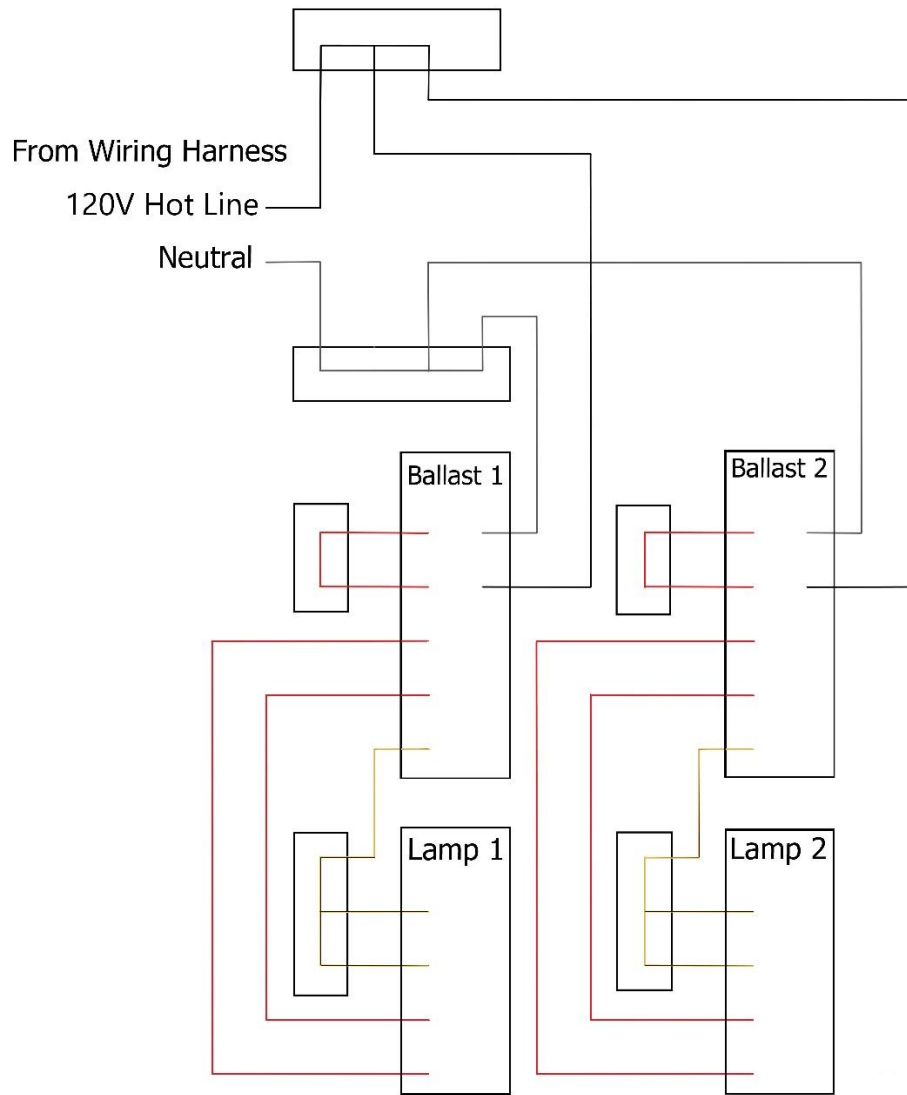


Figure 14: 1212 PCP Wiring Diagram

AC centrifugal fans - RadiCal®

Series R2E225 RA Ø225 mm



Highlights:

- Backward curved
- 7-blade impeller, single phase motor
- Thermal overload protector (TOP) wired internally
- Mounting position: Any
- Condensate discharge holes: None
- Ingress protection of IP44; dependent on installation and position

Material: Fiberglass reinforced composite

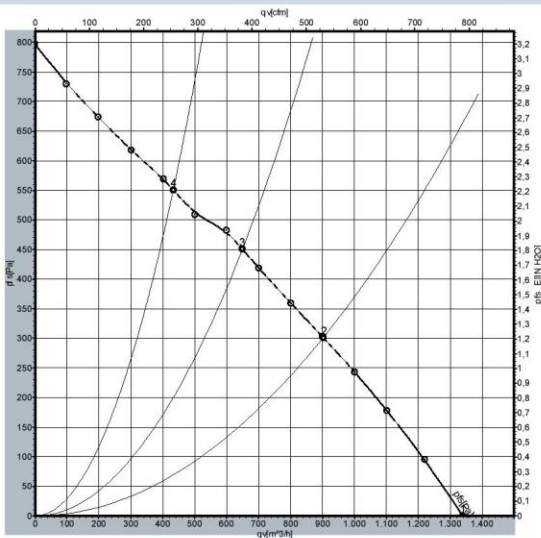
Impeller: PA

Direction of rotation: Clockwise, seen on rotor

Nominal Data	Air flow	Nominal voltage	Hertz	Ball bearings	Power input	Speed (1)	Temperature range (1)	Mass	Ingress Protection Rating	Capacitor	UL
	CFM	VAC			Watts	RPM	°C	g		µF	
R2E225-RA40-21	788.7	115	50/60	Yes	225	2,700	-25...40	2,300	IP44	14	Yes
R2E225-RA92-20	765.2	230	50/60	Yes	225	2,600	-25...45	2,300	IP44	3.5	Yes

(1) Nominal data at operating point with maximum load.

R2E225-RA40-21 Curves



Measurement: LU-128357

Air performance measured as per: ISO 5801, Installation category A, without protection against accidental contact.

Suction-side noise levels: L_{WA} as per ISO 13347, L_{pA} measured at 1m distance to fan axis.

The values given are valid under the measuring conditions mentioned and may vary according to the actual installation situation.

With any deviation to the standard set-up, the specific values have to be checked and reviewed once installed or fitted.

For detailed information on the measuring set-up, please contact ebm-papst.

	n rpm	Pe W	I A (115V)	L _{WA} dB(A)
Ⓐ 1	3025	187	1.61	76
Ⓐ 2	2700	225	1.95	70
Ⓐ 3	2765	218	1.89	69
Ⓐ 4	2890	204	1.76	71

Air Purification Testing

Genesis Air, Inc. has conducted numerous tests to authenticate that CenterPoint™ Technology is an effective means of reducing airborne indoor air contaminants. Genesis Air will make copies of test results available to those who request it.

Testing Protocol

There are two main types of tests that can be performed with air purifying equipment: single pass tests and chamber tests. A single pass test measures the contaminant level at the inlet of the equipment and compares that value to the level of contaminants at the outlet. A chamber test measures the change in contaminant level within an enclosed space over a given amount of time. Tests can measure volatile organic compound (VOCs) reduction, reduction of viable biological contaminants (bacteria, viruses, fungi), and particulate reduction.

Genesis Air equipment is intended to reduce VOCs and deactivate viable biological contaminants. **Genesis Air equipment is not intended to significantly reduce non-viable biological contaminants. Genesis Air equipment is not intended to significantly reduce particle contaminants.**

Many testing groups do not make a distinction between viable and non-viable biological contaminants. When testing Genesis Air equipment, a distinction must be made between viable and non-viable biological contaminant in the air. **Tests must only measure viable biological contaminants that appear in the air.** The bodies of inactivated biological contaminants will remain in the air. **Inactive bodies are incapable of reproducing or infecting persons occupying the space.**

For more information, please contact Genesis Air at

Phone: 806.745.7000

Email: information@genesisaair.com

Physical Address: 5202 CR 7350 Suite Lubbock, TX 79424

LIMITED WARRANTY

FAILURE TO MAINTAIN YOUR EQUIPMENT WILL VOID THIS WARRANTY

Your GENESIS AIR™ purification system is expressly warranted from the date of installation to be free from manufacturing defects for the coverage period stated below. Defective parts must be returned by you to the installing contractor together with the GENESIS AIR™ purification system's model number, serial number, and documented installation date no later than thirty (30) days after the failure.

ONE (1) YEAR COVERAGE -- RESIDENTIAL AND COMMERCIAL APPLICATIONS

The covered equipment and covered components are warranted by GENESIS AIR for a period of ONE (1) year from the date of the original unit installation, when installed in a residential or commercial application. If during this period, a covered component fails because of a manufacturing defect, GENESIS AIR will provide a free replacement part. You must pay shipping charges and all other costs of warranty service. GENESIS AIR will not pay labor involved in diagnostic calls or in removing, repairing, servicing, or replacing parts. Such costs may be covered by a separate warranty provided by the installer. NOTE - If the date of original installation cannot be verified, the warranty period will be deemed to begin six (6) months after the date of manufacture.

EXCLUDED COMPONENTS

The following components are not covered by this warranty: the UVCGI lamps or the pleated photocatalytic material. These are replacement items, which must be replaced as stated in the Maintenance section of the installation instructions to ensure effective operation.

REPAIRS

All repairs of covered components must be made with authorized service parts by a qualified service dealer or contractor. Labor charges are not covered by this warranty.

WARRANTY LIMITATIONS

This warranty will be voided if the covered equipment is removed from the original installation site. This warranty does not cover damage or defect resulting from:

- 1 - Flood, wind, fire, or lightning damage. Storage, installation, or operation in a corrosive atmosphere (chlorine, fluorine, salt, recycled wastewater, urine, fertilizers, or other damaging chemicals).**
- 2 - Accident, or neglect or unreasonable use or operation of the equipment, including operation of electrical equipment at voltages other than the range specified on the unit nameplate (Includes damages caused by brownouts).**
- 3 - Modification, change or alteration of the equipment, except as directed by GENESIS AIR.**
- 4 - Operation with system components (indoor unit and control devices), which do not match, or meet the specifications recommended by GENESIS AIR.**
- 5 - Operation with system components (indoor unit and control devices), which exceed operational temperature range of; -20 F to 122F.**
- 6 – Cleaning equipment with high pressure water spray so that the PCP catalyst coating is damaged.**
- 7 – Damage caused by allowing non-functioning equipment to be in an air stream for a prolonged period.**

THIS WARRANTY SHALL NOT OBLIGATE THE MANUFACTURER FOR ANY LABOR COSTS AND SHALL NOT APPLY TO DEFECTS IN WORKMANSHIP OR MATERIALS FURNISHED BY THE INSTALLING CONTRACTOR AS CONTRASTED TO DEFECTS IN THE GENESIS AIR™ PURIFICATION SYSTEM ITSELF. IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED IN DURATION TO THE AFORESAID COVERAGE PERIOD. THE MANUFACTURER'S LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, OTHER THAN DAMAGES FOR PERSONAL INJURIES, RESULTING FROM ANY BREACH OF THE AFORESAID IMPLIED WARRANTIES OR THE ABOVE LIMITED WARRANTY IS EXPRESSLY EXCLUDED. THIS LIMITED WARRANTY IS VOID IF DEFECT(S) RESULT FROM FAILURE TO HAVE THIS UNIT INSTALLED BY A QUALIFIED HEATING AND AIR CONDITIONING CONTRACTOR. IF THE LIMITED WARRANTY IS VOID DUE TO FAILURE TO USE A QUALIFIED CONTRACTOR, ALL DISCLAIMERS OF IMPLIED WARRANTIES SHALL BE EFFECTIVE UPON INSTALLATION.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

Last Revision: 7/30/2021

To register your new GENESIS AIR™ Purification System, PLEASE CUT ON DOTTED LINE AND RETURN THE REGISTRATION FORM TO THE ADDRESS NOTED BELOW.

Customer Registration Form

Customer Name: _____ Address: _____

City: _____ State/Province: _____ Zip/Postal Code: _____

Home Phone: _____ E-mail: _____

Installing Contractor: _____ Phone: _____

Date of installation: _____ Model Number: _____ Serial Number: _____

Please send this completed form to: GENESIS AIR™

GENESIS AIR, INC.

5202 CR 7350, SUITE D LUBBOCK, TX 79424

