



© 2013 Genesis Air, Inc.
Lubbock, Texas U.S.A.

06/2014
06141403

Commercial Residential /2008 CU

2008 CU GAP™ Compound Induct Photocatalytic Oxidation Technology (PCO)

Installation and Maintenance Instructions for All 2008 CU Compounds

General

The Genesis Air 2008CU is a ducted-in unit used to reduce the levels of airborne biological contaminants and to help keep surfaces clean. The 2008CU uses one Genesis Air PCP Compound panel. It is suitable for air handlers up to 3 tons; however, the 2008CU may be custom-sized for your application. Contact Genesis Air for custom units. For recommended unit configurations, consult the 2008 GAP Product Calculator supplied with packet. Contact Genesis Air if you do not have one. All Genesis Air products incorporate 3-step GAP technology: MERV Filtration, UVGI Lamps and Photocatalysis.

Shipping and Packing List

- 1 - 2008 CU
- 1 - Electrical Whip
- Accessories Options
- Dwyer Fan Proof Switch
- 1/4 Air Tubing

Nomenclature

XXXX

2440 = 24" Height / 40" Length

Packaged Unit Description

- 56 = Power Unit Compound (Line Voltage Input)
- 57 = Center Section Compound
- 58 = End Section Compound

WARNING



Electric shock hazard
Can cause injury of death
Disconnect all remote electrical power supplies before servicing.
Access panels must be in place during operation.

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.

WARNING!

Mercury Hazard. Do not Break
Each UVC lamp contains a small amount of Mercury.
In case of breakage use proper disposal techniques on page 5-6.

WARNING!

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

Clearance and Requirements

Air Speed: 500 fpm

Pressure drop: .05 in wc

UVGI life cycle: 12,000 operation hours

Installation location: After filtration

Installation location preference: Down stream of evap. coil in saturated zone

Clearance from AHU to nearest obstacle: Clearance must be at least the distance of the length longest compound installed in the system.

Safety Certifications

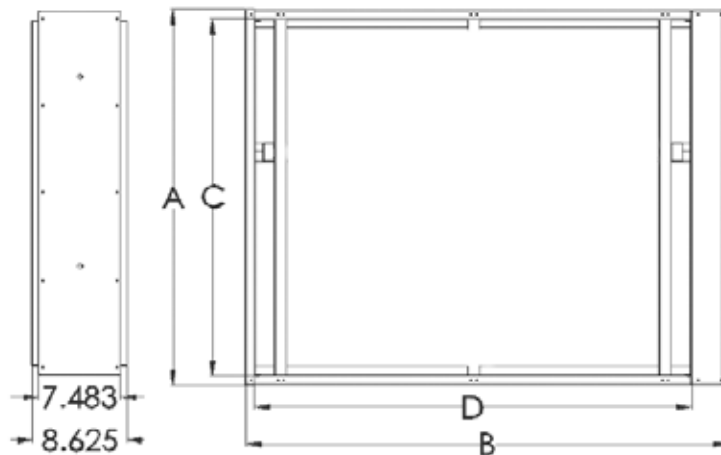
UL Classified UL File No. E326567
FIFRA....EPA EST No. 877447--TX--001
OSHPOD - Pending

UL REQUIREMENTS

- 105°C minimum supply connections
- 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.
- Use only First Light type T5 lamps specified by the PCP Compound.
- **Warning:** *The electrical supply circuit connected to this UV appliance must be routed through an electrical interlock switch placed on the HVAC system duct access panels and doors to prevent accidental UV exposure when servicing the air ducts or equipment.*
- **Caution:** *Equipment Damage Hazard. Ultraviolet light can cause color shift or surface degradation and sometimes structural degradation of non-metallic components. Select mounting location that prevents exposure to plastic flexible duct components, polyurethane foam insulation material, rubber hoses, wiring insulation, filtration media, etc. If mounting options are limited, items above should be protected with ultraviolet resistant material such as aluminum foil, aluminum duct tape, or metallic shields.*

Dimensional Data

The standard sizes for the PCP Compounds are found in the chart below. The first dimension is the measurement of the panel across the lamps; the second measurement is along the lamps (see figure 1 & 2)



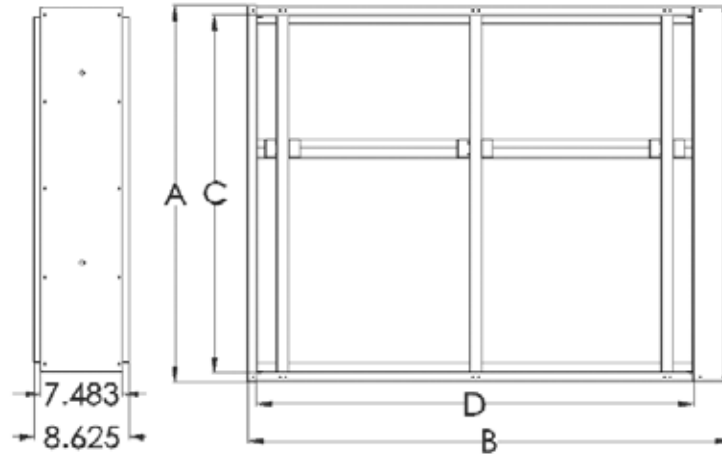
Model	A	B	C	D	CFM	Voltage	Amps
1620	17.4"	23.3"	15.8"	19.2"	1000	120	1.2
2424	25.4"	27.3"	23.8"	23.2"	2000	120	2.1

2008 CU Residential

Service Clearance

Model#	W (in)	L (in)	Lamps	Tons	CFM	Area ft ²	Velocity	*Front/Side/Back Clearance req.
1620	24	20	3	3	1000	2.2	450	24"/0"/0"
2424	24	30	4	5	2000	4	500	28"/0"/0"

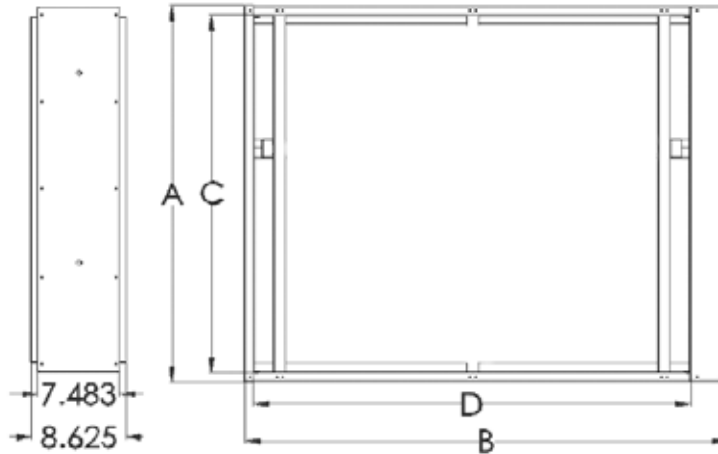
2008 CU Commercial



Model	A	B	C	D	CFM	Voltage	Amps
1620	17.4"	23.3"	15.8"	19.2"	1000	120	1.2
2424	25.4"	27.3"	23.8"	23.2"	2000	120	2.1
2440	25.4"	42.9"	23.8"	38.8"	3000	120	3.4
3240	33.4"	42.9"	31.7"	38.8"	4000	120	4.3
4048	41.4"	50.9"	39.7"	46.8"	6000	120	5.9
4062	41.4"	64.7"	39.7"	60.6"	8000	120	7.1
4862	49.4"	64.7"	47.7"	60.6"	10000	120	9.4

Service Clearance

Model#	W (in)	L (in)	Lamps	Tons	CFM	Area ft ²	Velocity	*Front/Side/Back Clearance req.
1620	24	20	3	3	1000	2.2	450	24"/0"/0"
2424	24	30	4	5	2000	4	500	28"/0"/0"
2440	40	24	4	7.5	3000	7	450	43"/0"/0"
3240	40	32	5	10	4000	9	450	43"/0"/0"
4048	40	48	6	15	6000	13	450	51"/0"/0"
4062	40	64	6	20	8000	19	463	65"/0"/0"
4862	48	64	8	25	10000	21	484	65"/0"/0"



Model	A	B	C	D	CFM	Voltage	Amps
1620	17.4"	23.3"	15.8"	19.2"	1000	120	1.2
2424	25.4"	27.3"	23.8"	23.2"	2000	120	2.1

Service Clearance

Model#	W (in)	L (in)	Lamps	Tons	CFM	Area ft ²	Velocity	*Front/Side/Back Clearance req.
1620	24	20	3	3	1000	2.2	450	24"/0"/0"
2424	24	30	4	5	2000	4	500	28"/0"/0"

*=Service Side

Fan Proof Accessory



Dwyer Fan Proof Specifications

Service: Air and non combustible gases.

Wetted Materials: Consult Dwyer

Temperature Limits: -30 to 180F (34 to 82C) (32F for non dry air)

Pressure Limits: 45" w.c. continuous 10 psig surge

Switch Type: Single-pole double-throw (SPDT)

Repeatability: +- 3%

Electrical Rating: 15A@ 120-480 VAC, 60Hz. Resistive 1/8 HP @ 125VAC, 1/4 HP @250 VAC,60 Hz. Derate to 10 A for operation at high cycle rates.

Electrical Connection: 3 screw type, common, normally open and normally closed.

Process Connections: 1/8" NPT

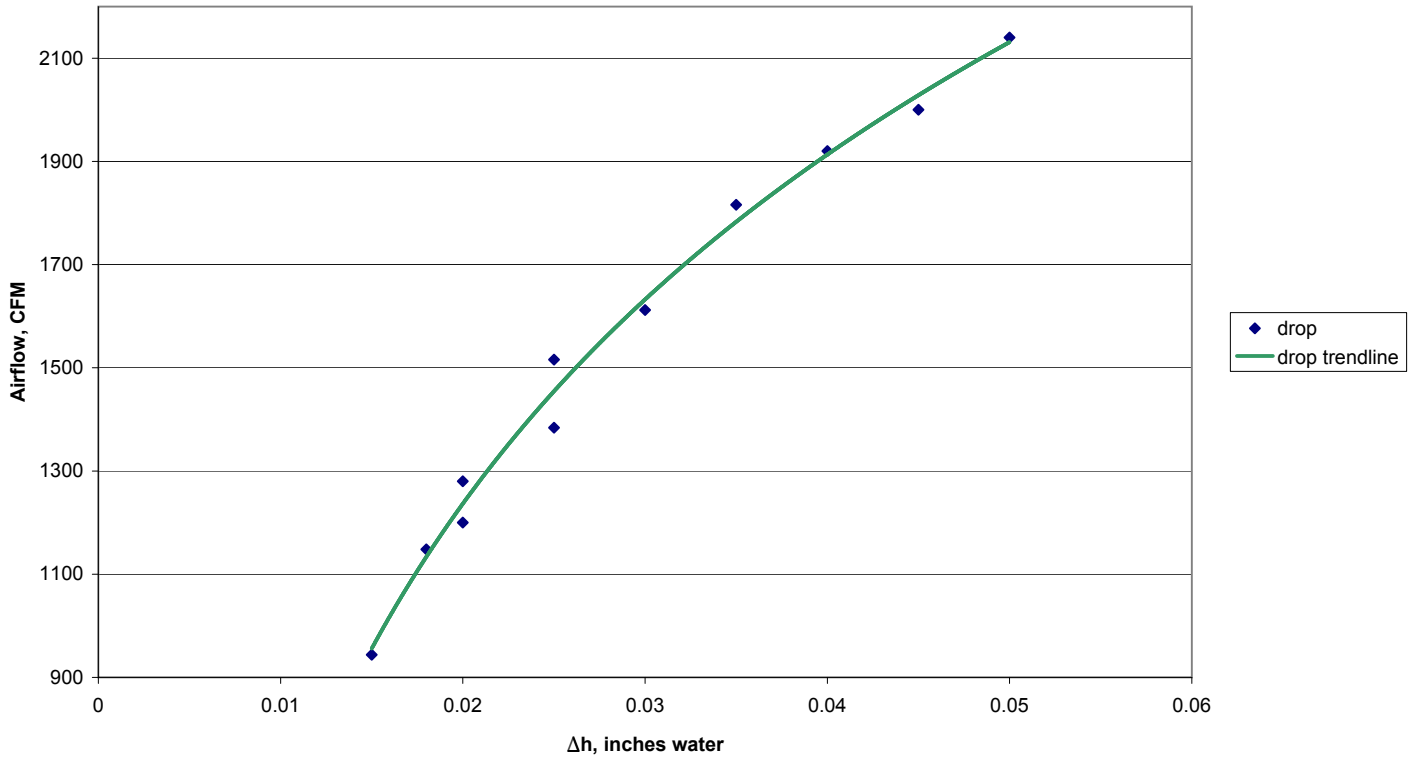
Mounting Orientation: Diaphragm in vertical position.

Consult Dwyer for other position orientations

Agency Approvals: CE, UL, CSA,FM.

Pressure Drop Across 2008 CU

PCP Standard 24"x24"x6" Pressure Drop



Air velocity, FPM	Air flow, CFM	Δh, in H ₂ O
236	944	0.015
287	1148	0.018
300	1200	0.02
320	1280	0.02
346	1384	0.025
379	1516	0.025
403	1612	0.03
454	1816	0.035
480	1920	0.04
500	2000	0.045
535	2140	0.05

This test was performed at Genesis Air, inc. on Thursday, June 05, 2008.

Air conditions:

Temp 74°F

RH 38.4

DEW 47.1

Meter: Dwyer Magnehelic 1" scale
± 0.02"

UVGI Lamps

Genesis Air lamps do not produce ozone! The lamps provide a minimum intensity of 775 microwatts/cm² (5 milliwatts per square inch) at 10.77 centimeters (4.24") to activate the catalyst effectively. To maintain tested performance, lamps may not be substituted with another manufacturer's products. These lamps provide UV-C wavelengths @ 254 nm. All lamps must be replaced every 16 months (12000 hrs) of continuous use to maintain intensity requirements. Genesis Air lamps contain trace amounts of mercury, encapsulated within the lamp and therefore reducing risk to the consumer or ecosphere.

LAMP SERVICE

ALL UNITS MUST BE POWERED DOWN BEFORE REPLACING LAMPS.

ALL MAINTENANCE PERSONNEL MUST WEAR UV PROTECTIVE SAFETY GLASSES. ALL EXPOSED SKIN MUST BE PROTECTED BY UV RESISTANT CLOTHING.

GENERAL

To operate effectively, the lamps must be replaced every 16 months, as the intensity of the lamps decreases over time. The catalyst must be energized by the lamps to create the field of hydroxyl radicals that is required to remove VOC's and biologicals. Without the proper lamp output, VOC's and biologicals will not be reduced!

INSPECTION

- **To inspect the lamps, the lamps must be powered. Wear UV resistant face shields and personal protective equipment!**
- On all units, inspect the green mounting sleeves (Green Sleeve) on the unit. If the lamps are lit, they will emit a bright green glow.
- If any lamp is unlit, power off the unit. Unplug the wiring harness from the lamp and plug the harness onto a lamp known to be operational. Power on the unit. If the new lamp does not light, the problem could be in the ballast. Keep in mind that the safety switch will not allow the lamps to light if the filter grille door is open. **THIS IS NOT CONSIDERED POWERING DOWN THE UNIT!** A pressure-kill box is an accessory that provides electricians with single point to wire to and two safety devices. One will kill power to the lamps when pressure drops below a set point, and the other kills power to the lamps when an access door is opened. A momentary safety bypass, also included, will allow power to bypass the safeties to power the lamps for visual inspection.
- If the new lamp lights, the old lamp is faulty. Proceed to removal.

Removal

- **Power the Genesis Air unit down using the kill switch or breaker to unit.**
- **Caution! The lamps may be hot! Wear gloves to protect hands.**
- Unplug the harness from the faulty lamp.
- Unscrew the GreenSleeve from the base of the unit and remove lamp with sleeve from the unit.

Disposal

- Mercury produces a hazardous waste. Every form of it is toxic and yet mercury is an essential element in millions of fluorescent lamps throughout the United States and millions more throughout the world. State and federal regulatory agencies are working to reduce mercury releases to the environment. Since January 1, 2000, the United States Environmental Protection Agency (USEPA) 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 dispose of hazardous wastes. The USEPA oversees the RCRA program but has delegated to the States the responsibility for the day-to-day management of the program.

List of Lamp Recycling Facilities for the US

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

Installation

- Installation is the reverse of removal
- Push socket onto lamp pins until socket butts against lamp



Catalyst

- ALL UNITS MUST BE POWERED DOWN BEFORE SERVICING.
- ALL MAINTENANCE PERSONNEL MUST WEAR UV PROTECTIVE FACE SHIELDS. ALL EXPOSED SKIN MUST BE PROTECTED BY UV RESISTANT CLOTHING.

General

Genesis Air recommends catalyst replacement every fifteen years to provide an efficient system. As debris and contaminants accumulate on the catalyst, the effectiveness of the catalyst is decreased. The catalyst must be inspected periodically for buildup of particulate.

Inspection

- Power down the unit undergoing inspection.
- Locate the Genesis Air PCP Compound in question.
- Visually inspect each catalyst wearing UV protective clothing and face shields. If the catalyst appears clean and free of particulate, proceed to the next unit. If the catalyst cannot be seen, continue to next item.
- Remove some of the lamps. With a flashlight, visually inspect the catalyst through the holes.
- If the catalyst appears clean and free of particulate, replace lamps and proceed to the next AHU. Otherwise, proceed to removal.

Cleaning

- If the catalyst needs cleaning from light to moderate dust build up. Disconnect power, use a hand sprayer with water only and rinse the catalyst. Avoid heavy concentrations of spray on ballast tray.
- If catalyst is soiled by resin (E.T.S.) or grease. Remove and spray catalyst liberally with Nu-Cal-gon CalClean, Special HD or other suitable coil cleaner on catalyst only. Allow to sit 15 minutes, then wash off with pump up water spray bottle. Do not remove installation reminders!
- Allow catalyst to lightly dry before returning to service.

Removal

- If catalyst will be cleaned and reused, keep track of which area the catalyst came from so they will be returned from where they were removed. This will prevent installation problems. Write or draw on the metal frames to help with installation.
- Remove all lamps from the catalyst.
- Remove from the rack. *You may need to contact the installer.*

WARNING!

High pressure spray will damage the windowing in the catalyst substrate

Power

Ballasts are matched to the specific length of lamp. To maintain tested performance, ballasts may not be substituted with another manufacturer's products. The ballasts must be specified either 120v or 240v, 60 Hz: contact the factory for other voltage/frequency requirements. The ballast operating temperature range is -20°F to 158°F.

Safety

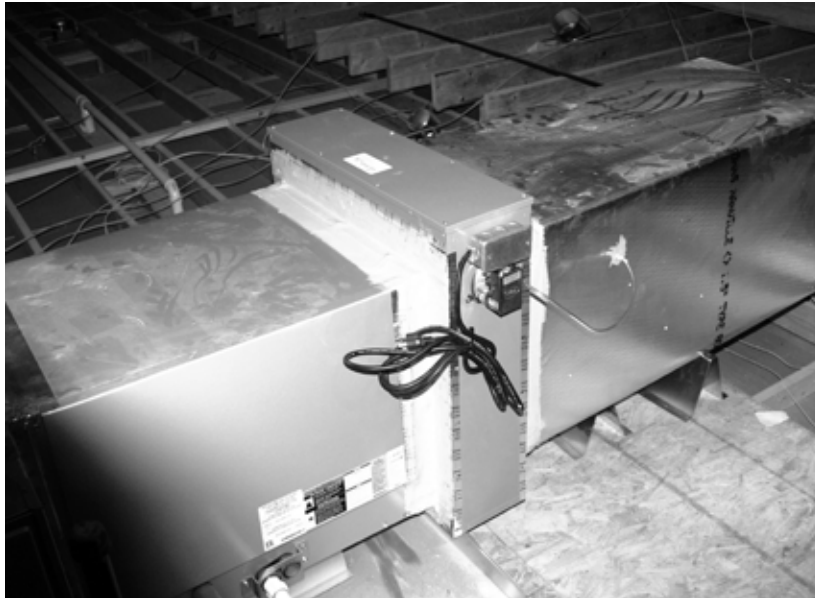
UVGI

Ultraviolet germicidal irradiation (UVGI) used for the activation of the PCO Catalyst. The residual light can be used for irradiating the evap. coil surface for biological microorganisms but presents a variety of potential health hazards to humans as well, including eye damage, skin burns, and even has the potential to cause skin cancer. Because germicidal UV rays are invisible to the eye, humans may be subject to hazardous doses of UV long before they realize it. There is no Occupational Safety and Health Administration (OSHA) standard for exposure to ultraviolet light. UV can be associated with adverse health effects depending on duration of exposure and the wavelength. The adverse health effects that may occur are erythema (sunburn), photokeratitis (a feeling of sand in the eyes), skin cancer, melanoma, cataracts, and retinal burns. Since maintenance personnel may be accidentally exposed to the radiation from UV lamps while in the course of their duties, it is essential that all UV sources and facilities be adequately labeled to instruct such personnel of the danger of exposure (in some cases, these warnings should be in both English and Spanish; Danger – Ultraviolet Radiation > Peligro -- Radiación Ultravioleta). Ideally, all activated UV sources should either be attended by knowledgeable personnel at all times.

- DISCONNECT ALL POWER TO SYSTEM BEFORE SERVICING
- PROPER **SAFETY GLASSES** OR FACE SHIELD MUST BE WORN WHEN INSPECTING OPERATIONAL LAMPS
- PROPER CLOTHING MUST BE WORN TO COVER EXPOSED SKIN
- **ALL ENTRY DOORS THAT HAVE DIRECT SITE TO THE CATALYST MUST HAVE SAFETY LIMIT SWITCHES INSTALLED TO SHUT OFF LAMPS DURING ENTRY INTO AHU.**
- **ALL VIEWING WINDOWS OR PORTS MUST BE HAVE UV RESISTANT AND FILTERING PROPERTIES. NO GLASS IS PERMITTED**
- Harden all plastic in direct site of the catalyst (Foil Tape)
- All field wiring when possible should be in metal conduit or of a UV resistant type.
- In case of lamp breakage the lamps are incased in a Teflon coating to reduce any chance of glass or mercury of entering the air stream.

Installation

Installation Example



WARNING!

Do not use silicone to seal catalyst racks to floor or ceiling. The presence of silicone in UV light will pollute the catalyst.

WARNING!

Sharp edges hazard.
Equipment sharp edges can cause injuries
Use protective gloves when grasping equipment edges.

WARNING!

Unpacking required

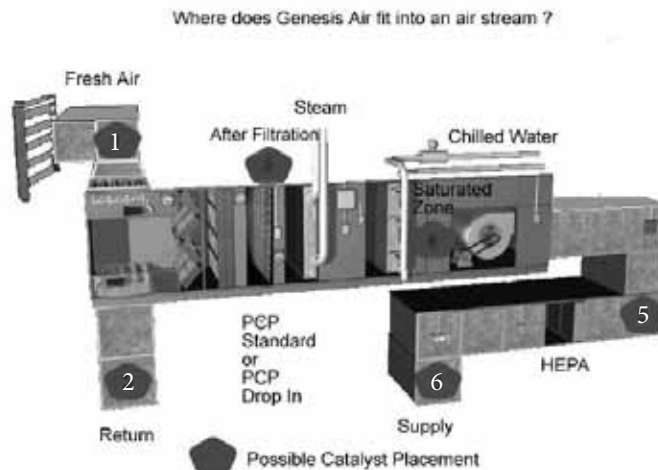
Remove all protective packing material from the box before removal of catalyst panel. All packing material should be discarded properly.

WARNING!

Lamps contain Mercury.

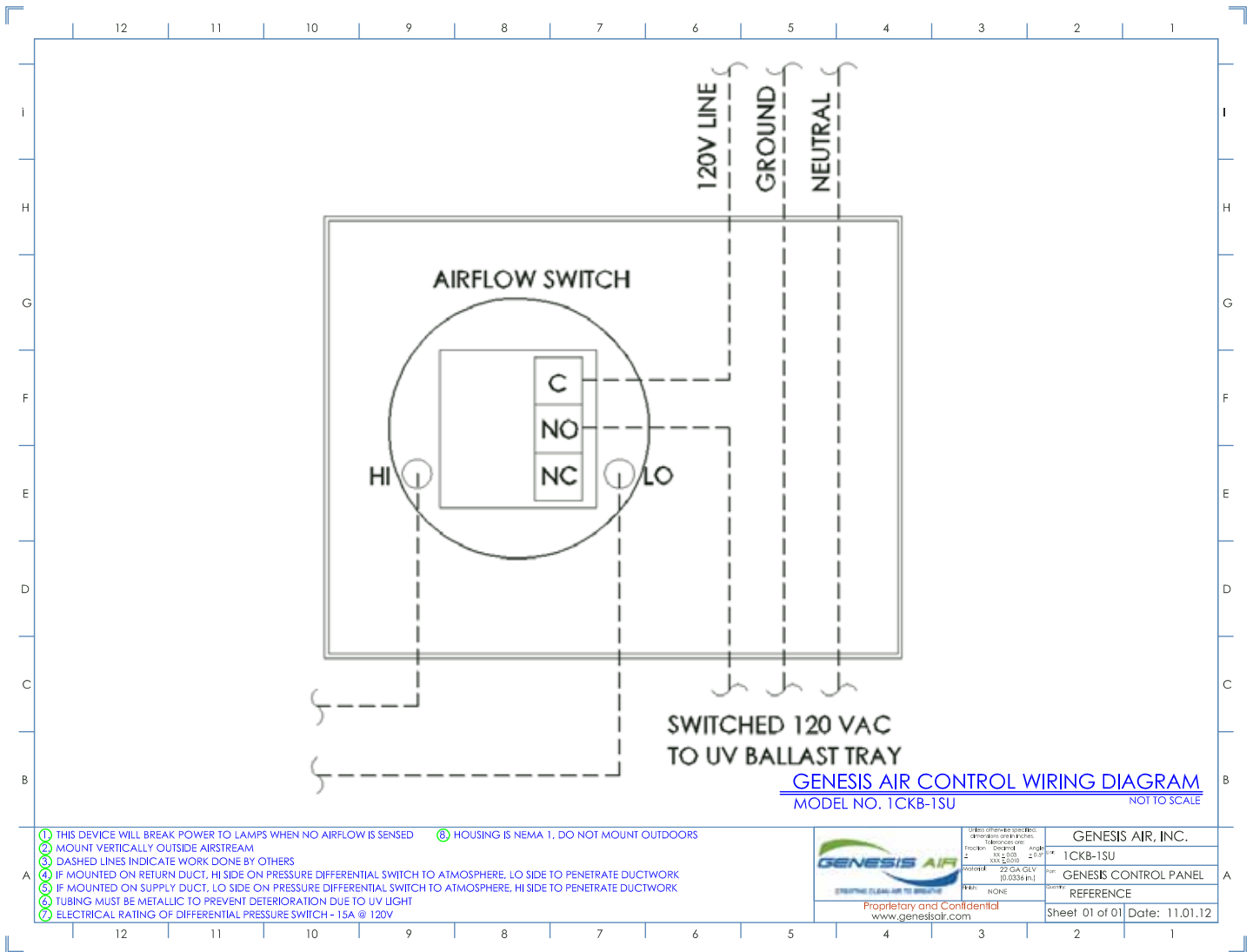
Ingestion or contact with mercury or mercury vapor is hazardous to your health.
Take care when handling lamps. If broken, avoid contact with mercury

Where to place the 2008 CU in the airstream.



Objective	Location	Solution
Reduce contaminants before entering the AHU	1	<p>Example – fresh air intake located near heliport</p> <ul style="list-style-type: none"> • Recommended for general IAQ to reduce TVOC and viable biologics entering unit • Ideal for Genesis Air PCP Compounds or 2008LB • Note: metal pre-filter required
Reduce contaminants leaving particular areas or offices from mixing into air stream	2	<ul style="list-style-type: none"> • Example – Funeral home body prep; coroner’s office; branch on common return with contamination problems (must have filter grille upstream)
Reduce contaminants entering unit in mixed air stream after filter bank	3	<ul style="list-style-type: none"> • Reduces viable biologics and particulate load • Ideal for Genesis Air Compounds • This placement is preferred when typical RH is 15% or more • Note: May accelerate filter degradation!
Reduce risk of viable biohazards entering supply duct by prohibiting biologics and mold from accumulating on the cooling coil	4	<ul style="list-style-type: none"> • Example – Accessory filter section to bathe coils in UV-C light • Ideal for Genesis Air PCP Compounds • These units are a cost-effective solution if the end user is requesting UV-C lamps since PCP Compounds will reduce biolevels as well as prohibit buildup on surfaces • This location is preferred when typical upstream RH is below 15%
Lengthen HEPA life by reducing load of contaminate upstream of HEPA	5	<ul style="list-style-type: none"> • Reduces viable biologics and particulate load • Typical applications include clean rooms and operating suites • Ideal for Genesis Air PCP Compounds • Renders captured contaminants non-viable

Note: It isn't recommended to use the EAC connections on residential furnaces that utilize a variable speed drive.



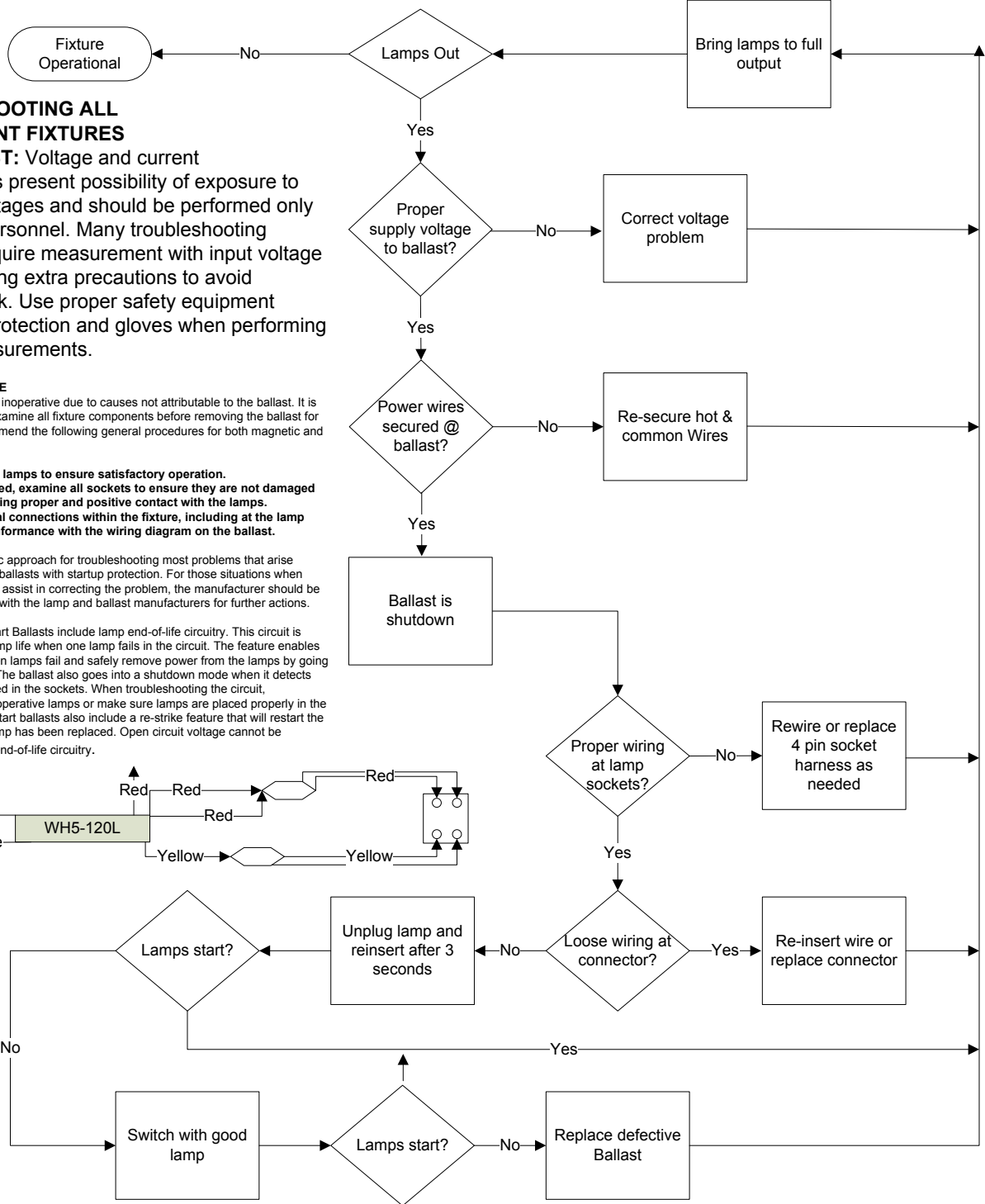
- ① THIS DEVICE WILL BREAK POWER TO LAMPS WHEN NO AIRFLOW IS SENSED
- ② MOUNT VERTICALLY OUTSIDE AIRSTREAM
- ③ DASHED LINES INDICATE WORK DONE BY OTHERS
- ④ IF MOUNTED ON RETURN DUCT, HI SIDE ON PRESSURE DIFFERENTIAL SWITCH TO ATMOSPHERE, LO SIDE TO PENETRATE DUCTWORK
- ⑤ IF MOUNTED ON SUPPLY DUCT, LO SIDE ON PRESSURE DIFFERENTIAL SWITCH TO ATMOSPHERE, HI SIDE TO PENETRATE DUCTWORK
- ⑥ TUBING MUST BE METALLIC TO PREVENT DETERIORATION DUE TO UV LIGHT
- ⑦ ELECTRICAL RATING OF DIFFERENTIAL PRESSURE SWITCH - 15A @ 120V
- ⑧ HOUSING IS NEMA 1. DO NOT MOUNT OUTDOORS



<small> Unit: 1000 ft³/min Fraction: 1/16 Diameter: 1/8 Length: 4.00 Material: 304 SS Pressure: 22 GPa GLE (0.0336 Pa) Risk: NONE </small>	GENESIS AIR, INC. TCKB-1SU GENESIS CONTROL PANEL REFERENCE Sheet 01 of 01 Date: 11.01.12
---	--

Ballast Troubleshooting Chart

Figure 1a



TROUBLESHOOTING ALL FLUORESCENT FIXTURES

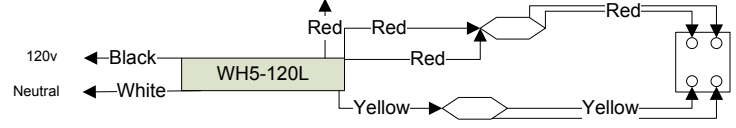
SAFETY FIRST: Voltage and current measurements present possibility of exposure to hazardous voltages and should be performed only by qualified personnel. Many troubleshooting techniques require measurement with input voltage applied requiring extra precautions to avoid electrical shock. Use proper safety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



General Genesis Air Spec Sheet

Document Revision Date: June 20, 2013

The following is a guide specification for the Genesis Air, Inc. PCP (Populated Catalyst Panel) Compound Product. This specification is not intended to be used without editing, as there are numerous choices throughout the document (enclosed in brackets “[]” & **highlighted in blue**) that require decisions to be made by the specifying design professional. **GENESIS AIR, INC. IS NOT RESPONSIBLE FOR THE USE OF SUPERCEDED OR INACCURATE SPECIFICATIONS BY OTHERS.** *Designers are encouraged to check with their local Manufacturer’s Representative, or with Genesis Air, Inc.,* to ensure that the guidance documents being used are the latest revision.

1.0 PHOTOCATALYTIC OXIDATION (PCO) UNIT

PCO unit shall be factory-fabricated and tested two-part integral assembly for treatment of air by: (1) Ultraviolet Germicidal Irradiation (UVGI) using UVC lamps; and (2) Photocatalytic Oxidation using TiO₂ media. Assembly shall be housed in casing. The combination of UVC lamps and TiO₂ media is intended to create hydroxyl radicals at the surface of the media (Passive) and not to broadcast radicals into the occupied spaces (Active).

1.1 Unit Casing

Casing shall be of single-wall construction, fabricated of **[5052 aluminum]** **[24 gauge 304 stainless steel]** **[22 gauge galvanized steel]**. All portions of the casing shall be free from sharp edges and burrs. Casing shall be 5 13/16” deep.

1.2 Unit Capacity

Unit shall be rated for a maximum velocity across the unit face of 500 feet per minute.

1.3 UL Certification

The entire PCP assembly shall bear the UL Classification Mark and be investigated in accordance with ANSI/UL 1598, “Luminaires,” and ANSI/UL 1995, “Heating and Cooling Equipment,” under the Air Duct Mounted Accessories category (ABQK). Compliance is to be verified by the UL Online Certifications Directory.

1.4 PCO Media

Media shall consist of six-inch (nominal) non-metallic media with face area to match casing opening, pleated at one pleat per inch (nominal), with a 40-200 nanometer TiO₂ coating. PCO media shall be placed perpendicular to the air stream in the unit casing. Media shall have an internal mechanism to eliminate the silica produced by the oxidation of ethanol.

1.5 UVGI Lamps & Ballasts

Lamps and ballasts shall be designed specifically to provide type-C ultraviolet light with a wavelength at or near 2537 Angstroms. Lamps shall be non-ozone-producing. Lamps shall be Teflon-coated to reduce breakage. Sufficient lamps shall be provided and positioned center point through the media equidistant from edges so as to achieve a minimum coverage of 9.5 milliwatts per square inch of UVC light, upstream and downstream, across all exposed surfaces of the PCO media. Lamp UVC output shall not drop below 9.5 milliwatts per square inch over their usable 12000 hr life.

1.6 Electrical

Unit shall be configured to operate with 120V/1 ϕ /60Hz electrical power. Unit shall be provided with junction box for point of connection.

1.7 Racking System

The racking system shall be constructed as either a front-loading or side-loading design. Either system must show proof of conformance to ICB 2012, CBC 2010 and ICC AC-156 (2010). The catalyst and the racking system shall bear the OSP certification number.

1.8 Unit exemplified by:

Manufacturer: Genesis Air, Inc.
Model No.: [XXXX] [E] PCP Compound
Manufacturer's Website: www.genesisair.com

Copyright © 2014, Genesis Air, Inc. Use without express consent of Genesis Air is prohibited. No changes to this document shall be made.



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 no later than thirty (30) days after the failure by you to the installing contractor together with the GENESIS AIR™ purification system's model number, serial number, and documented installation date of the GENESIS AIR™ purification system.

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 photo catalytic 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, lightning, or installation and operation in a corrosive atmosphere (chlorine, fluorine, salt, recycled waste water, 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.

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.

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

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
Customer Registration Form

