
SUPPLEMENTAL INSTRUCTIONS

8620-343 & 8620-344 W42-72AC/42-60HC UV-C LED Field Kits

WARNING

*Electrical shock hazard.
Disconnect the remote electric power supply or supplies before servicing.
Failure to do so can result in serious injury or death.*

WARNING

*Exposed moving parts.
Disconnect all electrical power before servicing.
Failure to do so can result in severe injury or amputation.*

CAUTION

*Sharp metallic edges.
Take care and wear appropriate protective devices to avoid accidental contact with sharp edges.
Failure to do so can result in personal injury.*

CAUTION

Ultraviolet band C (UV-C) energy may cause damage to non-metallic components except for UV-rated and HVAC-style drain pans. Select mounting locations that prevent exposure to vulnerable components. If mounting locations are limited, protect components with UV-resistant material such as aluminum foil, aluminum duct tape, metallic shields, etc.

WARNING

*UV-C exposure can cause burns to skin and damage eyes.
Ensure proper safety precautions are taken during installation.
A trained, experienced technician must install the UV-C field kit.*



CAUTION

*UV radiation hazard.
Use only with shielding in place.
Protect eyes and skin from exposure to UV light.*

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SINCE 1914

Climate Control Solutions

Bard Manufacturing Company, Inc.
Bryan, Ohio 43506
www.bardhvac.com

Manual: 7960-912A
Supersedes: 7960-912
Date: 3-14-22

Product Specifications

Model	
Olympia UV-C Light F15T5-15W-UVC-DL	
Electrical Specs	
Input Voltage	120-277VAC
Power Consumption	15W
Frequency	50/60Hz
Dimensional Specs	
Unit Dimensions	15-1/8" L x 3/4" H x 1" D
Weight	1 lb
Performance	
Irradiance	170 μ W/cm ²
UL Listing and Certifications	
Compliance and Certifications	UL 1598
	CSA C22.2#250.0
	UL 8750
	UL 2043
	CE
	RoHS Directive
"UV-C LED Light Bar Installed" Label 7961-622-0375 is located near unit serial plate	

Overview

The UV-C field-installed light kits utilize UV-C LED lighting technology to sterilize and improve overall air quality within an occupied space. UV-C exposure is proven to damage the DNA of microorganisms and render them inactive aiding in preventing the spread of diseases.

These instructions are applicable to the following models:

Kit	Voltage	Wall-Mount Models
8620-343	460V	W42AC-72AC
8620-344	230V	W42HC-60HC

Personal Protective Equipment (PPE)

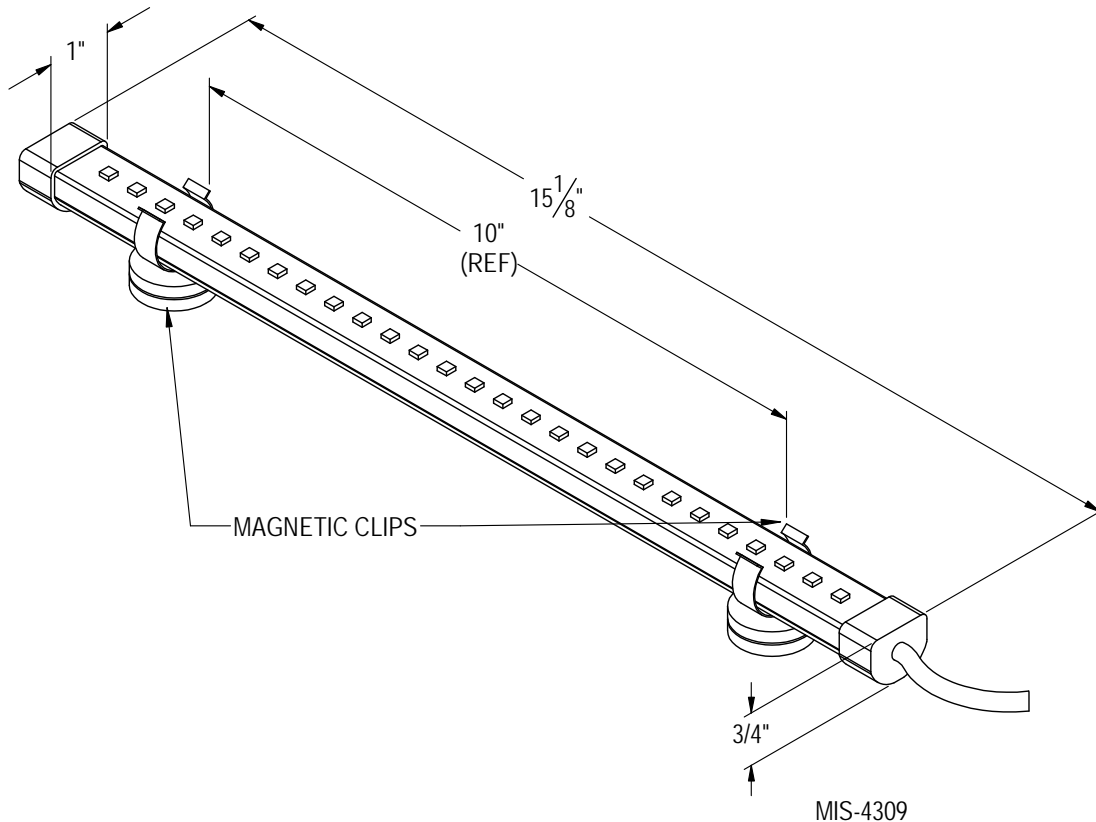
UV radiation is absorbed by clothing, plastic or glass. Once absorbed, the UV radiation is no longer active. Wear UV goggles or face shield. Cover any exposed skin with coats, gloves, etc.

UV-C band light spectrum is not visible to the eye.

NOTE: The health aspects associated with the use of this product and its ability to aid in disinfection of environmental air have not been investigated by UL.

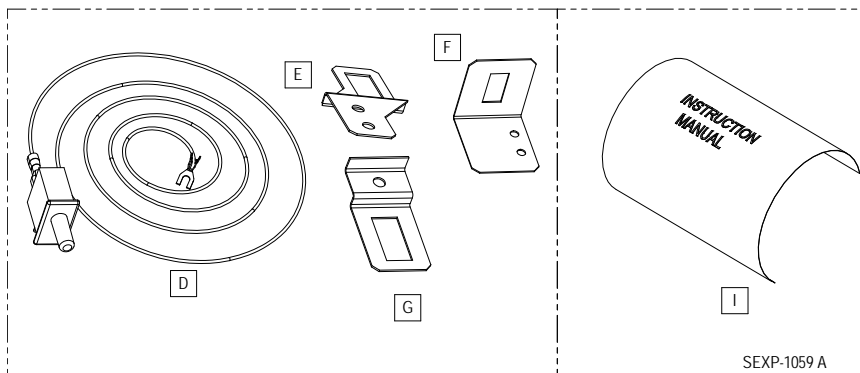
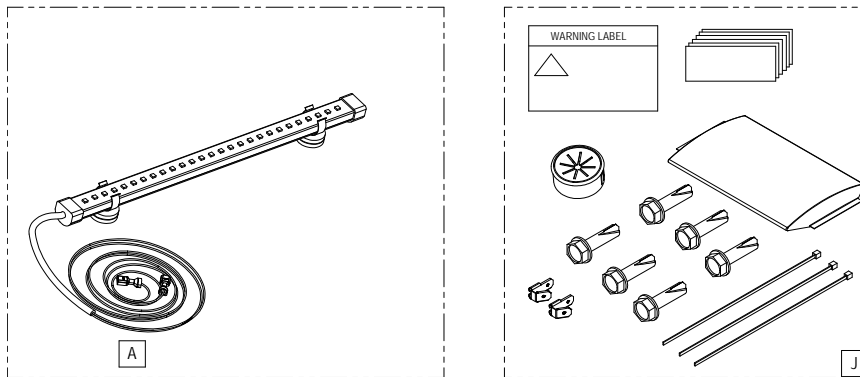
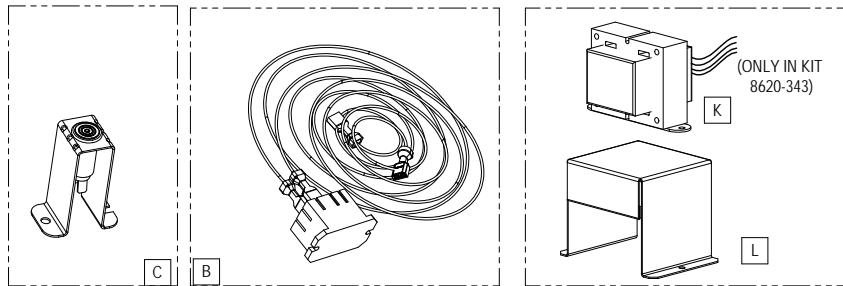
NOTE: Color shift or chalking may occur without affecting structural properties.

Dimensions



Parts List

Reference Letter	Bard P/N	Description	Qty.
A	910-2181	15" UV-C Assembly	1
B	910-2182	Relay Assembly	1
C	910-2183	Red Indicator Light Assembly	1
D	910-2184	Door Panel Switch Assembly (Interlock Safety Device)	1
E	113-908	Bracket (WH/Q-TEC Q**H/A4 Units)	1
F	113-909	Bracket (I-TEC Units)	1
G	113-913	Bracket (Q-TEC Units)	1
H	7961-963	UV-C Warning Label	1
I	Per Model	Supplemental Instructions Manuals and Wire Diagrams	4/2
J	400-0467	Parts Bag – Two (2) Multiplier Terminals, Six (6) Screws, Three (3) Zip Ties, Six (6) Pieces of Foil Tape, Bushing, UV-C Warning Label and “UV-C LED Light Bar Installed” Label	1
K	910-2191	460V Stepdown Transformer Assembly (820-343 Kit Only)	1
L	113-932	Transformer Enclosure (820-343 Kit Only)	1



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Installation

Field-supplied tools needed:

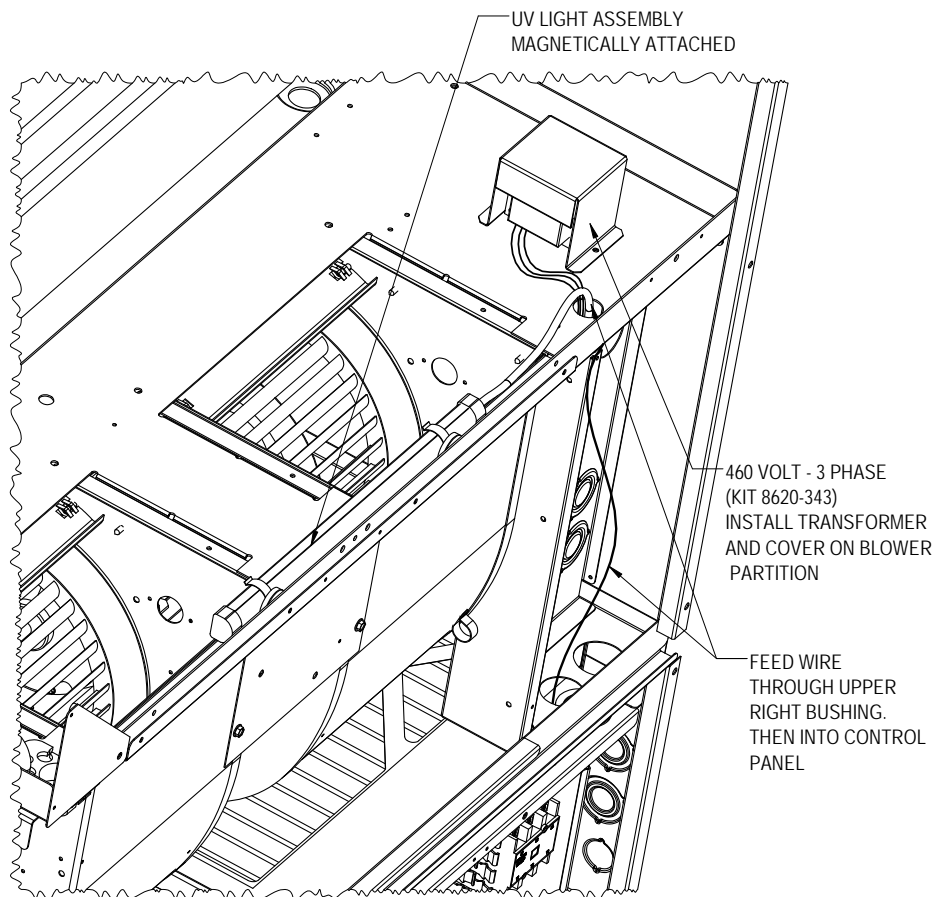
- Appropriate personal protection equipment, including gloves and safety glasses
- Electrical meter to verify power status
- Drill
- Phillips head screwdriver
- 5/16" nut driver

Installation Procedure

1. Disconnect all power to HVACR unit. Use the meter to verify that power has been disconnected.
2. Remove outer and inner control panel covers.
3. Remove blower housing cover (large upper panel).
4. Attach two (2) magnetic clips to the UV light assembly (see **Dimensions** drawing on page 2).
5. Install UV light assembly onto blower partition on the inside of the front flange as shown in Figure 1. UV light should be directed over blower outlets, facing evaporator coil.

6. Route wires into control panel through upper right bushing in blower partition, then into control panel as shown in Figure 1.
7. **Kit 8620-343 (460V-3PH Units) Only:** Install 460V stepdown transformer on blower partition and route wires through blower partition as shown in Figure 1.
8. Connect red wire from UV light assembly to "NO" contact on the relay assembly (see **Field Installation Diagram** on page 8).
9. Determine unit supply voltage—located on the unit serial plate. Connect black wire from UV light assembly to:
(230V-1PH) – "L2"
(230V-3PH) – "L3"
(460V-3PH) – Black Wire-Transformer
See **Field Installation Diagram** on page 8.
10. Connect red wire from "COM" on relay assembly to:
(230V-1PH) – "L1"
(230V-3PH) – "L1"
(460V-3PH) – White Wire-Transformer
See **Field Installation Diagram** on page 8.

FIGURE 1
Install UV Light Assembly and Route Wires



MIS-4311

11. Connect short orange wire from relay assembly to indicator light assembly.
12. Connect short black/white wire from relay assembly to indicator light.
13. Control panel assemblies vary due to available control options. Find unused space on control panel and install relay and indicator light
14. Install door panel switch into panel switch bracket 113-908 (see Figure 3). **Door panel switch acts as interlock safety device to disable UV light source upon removal of blower access panel preventing UV exposure.**

FIGURE 2
Install Relay and Indicator Light Assemblies

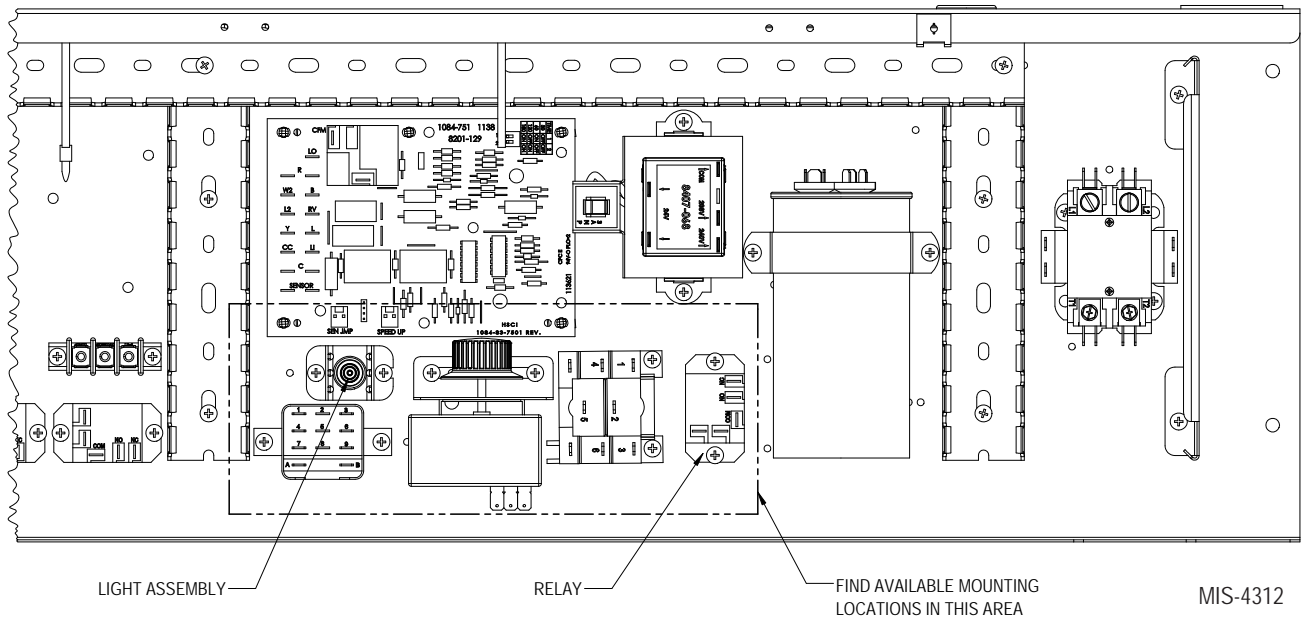
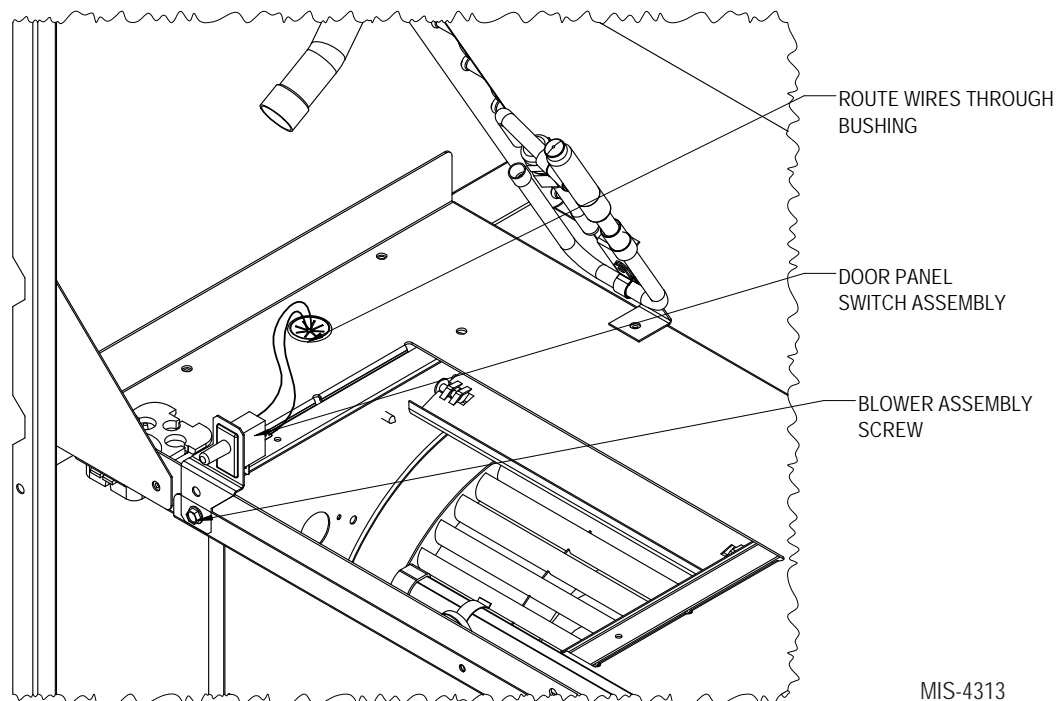
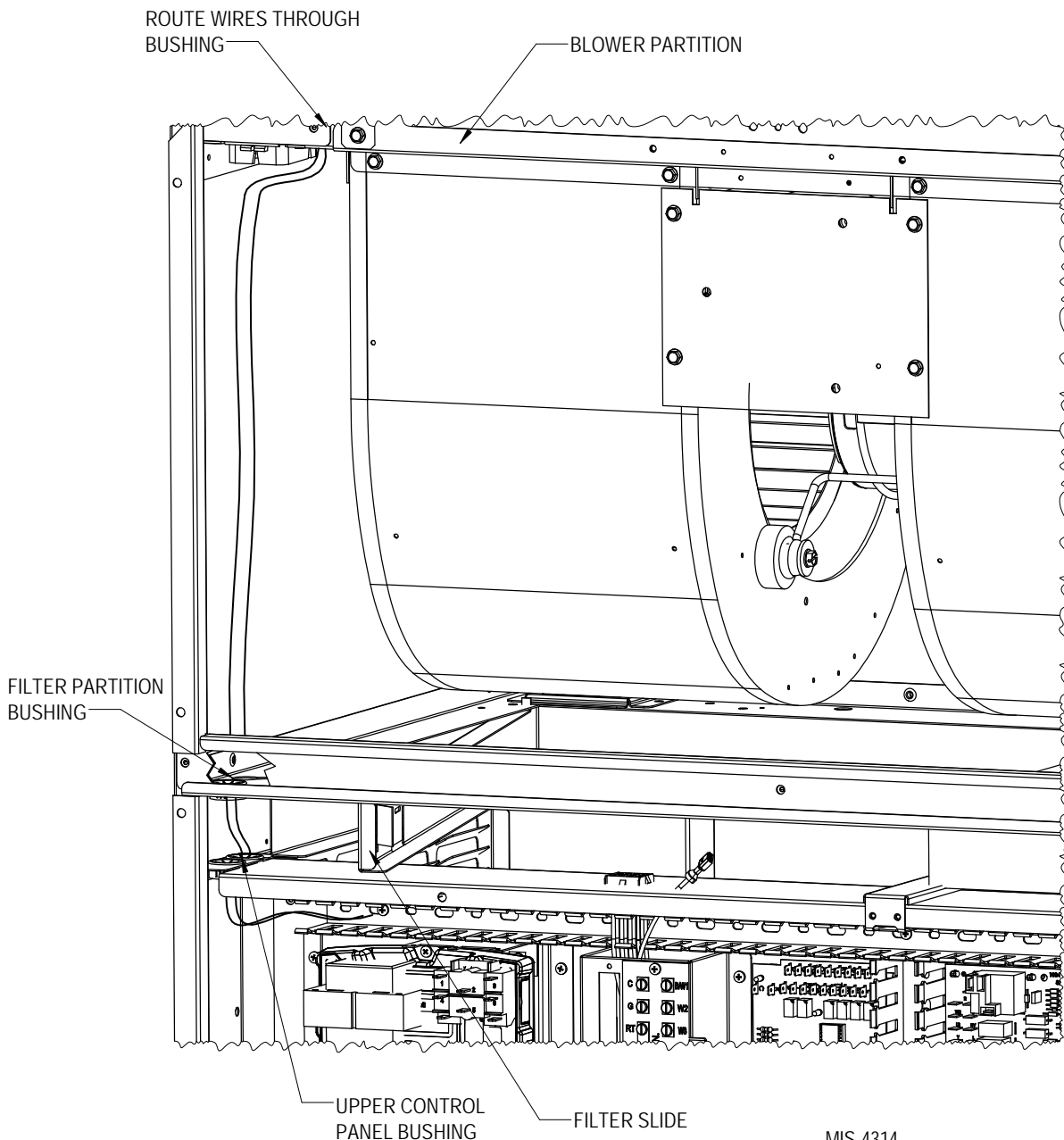


FIGURE 3
Install Panel Switch Assembly



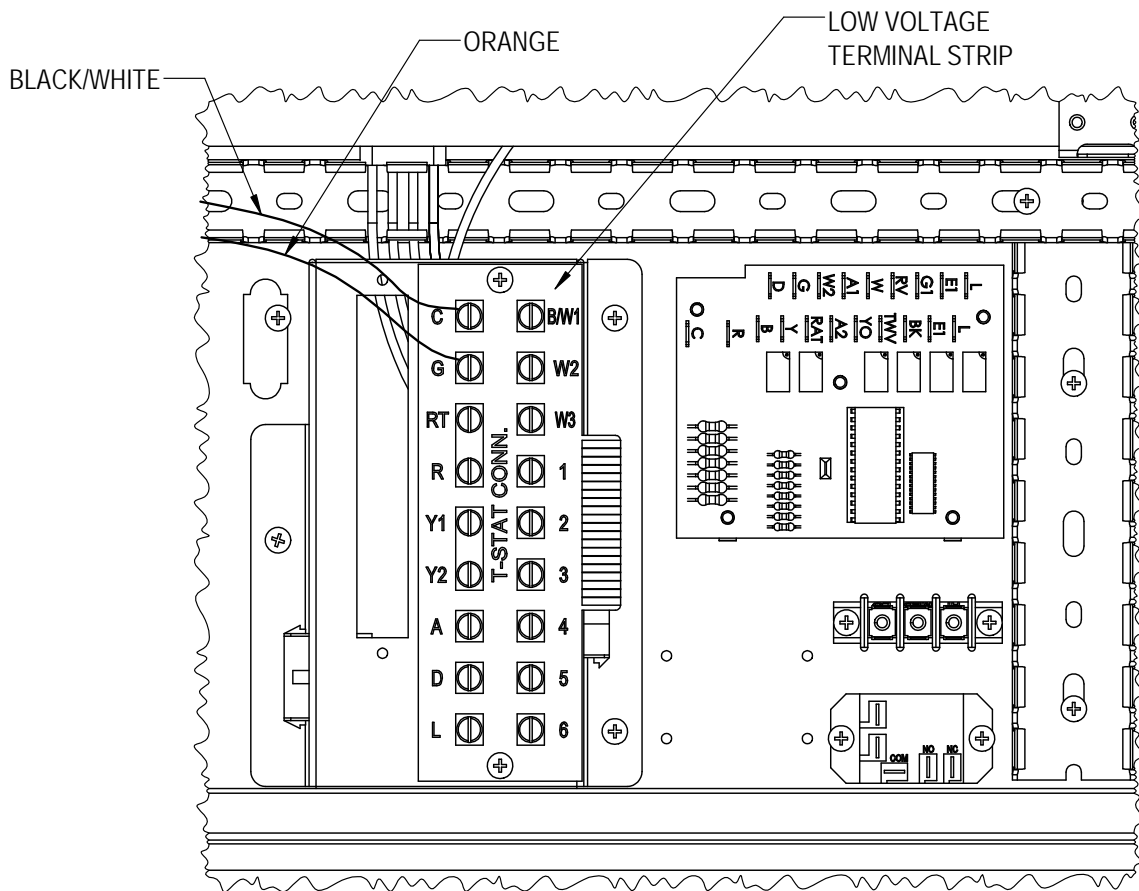
15. Remove right screw from blower assembly (see Figure 3). Do NOT discard screw as it will be re-installed.
16. Install panel switch bracket directly behind blower mounting angle where screw was removed (see Figure 3). Align bottom hole in bracket with hole where screw was removed in Step 13.
17. Re-install screw to secure blower assembly and panel switch assembly.
18. Remove left filter and filter slide, then route long orange wire from relay assembly (up to door panel switch) and connect to "NO". Route wire from door panel switch (down to control panel) through upper right control panel bushing, through filter partition housing and blower partition as shown in Figure 4.
19. Seat spade end of orange wire from panel switch assembly under the "G" terminal on low voltage strip assembly, then seat spade end of black/white wire from coil on relay assembly under the "C" terminal on low voltage strip (see Figure 5).

FIGURE 4
Panel Switch Wire Routing



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FIGURE 5
Low Voltage Terminal Strip Connection Points



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20. Wires can be dressed with provided zip ties or by tucking into wire channels. Ensure wires are secured away from sharp edges and moving parts to prevent damage.

Cover wires and plastic components within a distance of 6" of the UV light with foil tape to create a protective barrier from the UV light.

21. UV light will not function without blower panel installed because of panel switch (interlock safety switch). **Do NOT press door panel switch with blower panel removed as the UV source could become active and create UV exposure.**

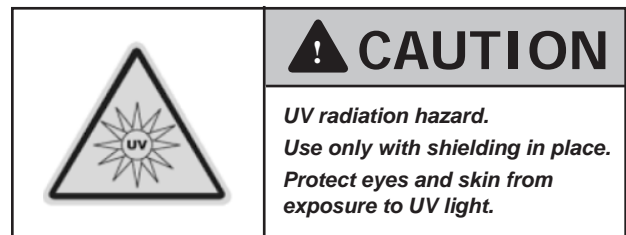
Replace blower access cover (large upper panel).

Adhere UV-C Warning Label 7961-963 to blower access panel.

Adhere "UV-C LED Light Bar Installed" Label 7961-622-0375 to unit serial plate. (Serial plate is silver and located on the exterior of the unit cabinet or on a service panel with "5253-039-XXXX" printed in the lower right corner.)

22. Now that blower panel is installed, UV light operation can be safely verified. Restore power to unit and provide a "G" call signal from the thermostat. Operation can be confirmed if indicator light installed in Step 8 is ON in control panel.

Do NOT attempt to look at UV source to confirm operation!

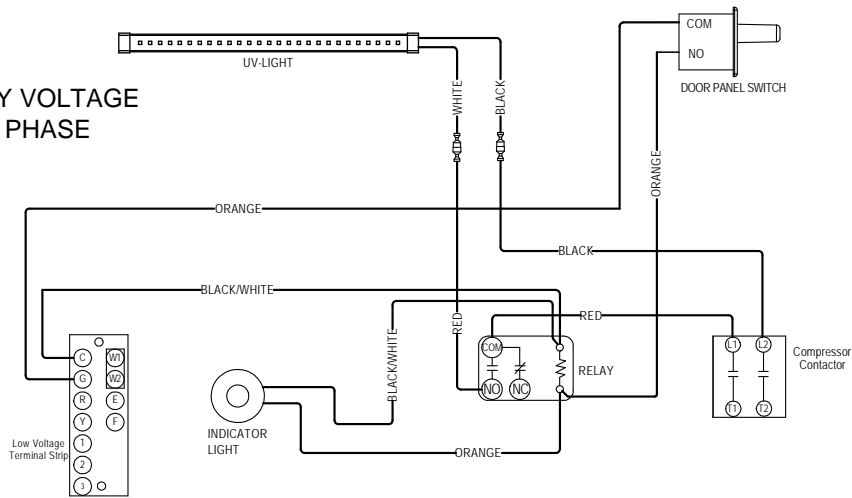


23. Disconnect power to unit. Replace all inner and outer panel covers.

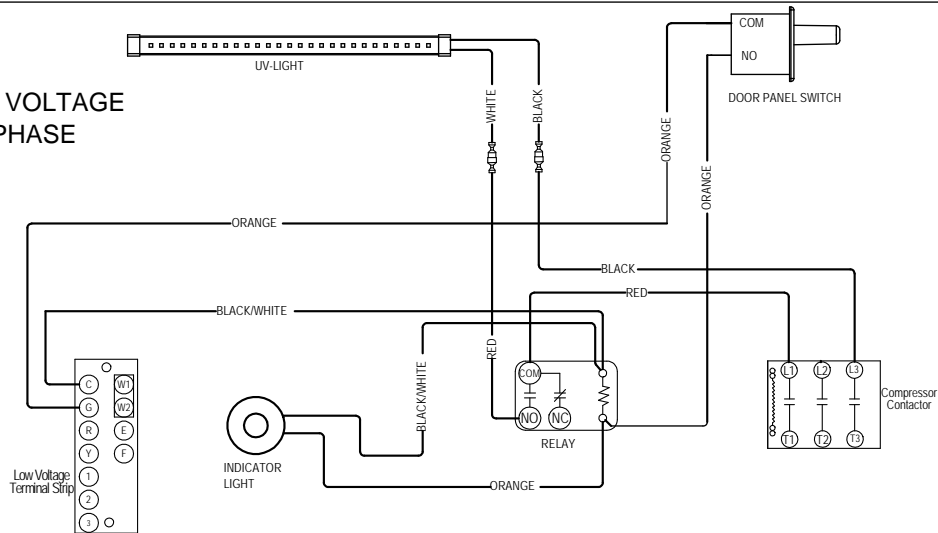
24. Restore power to unit.

FIGURE 6
Field Installation Diagram

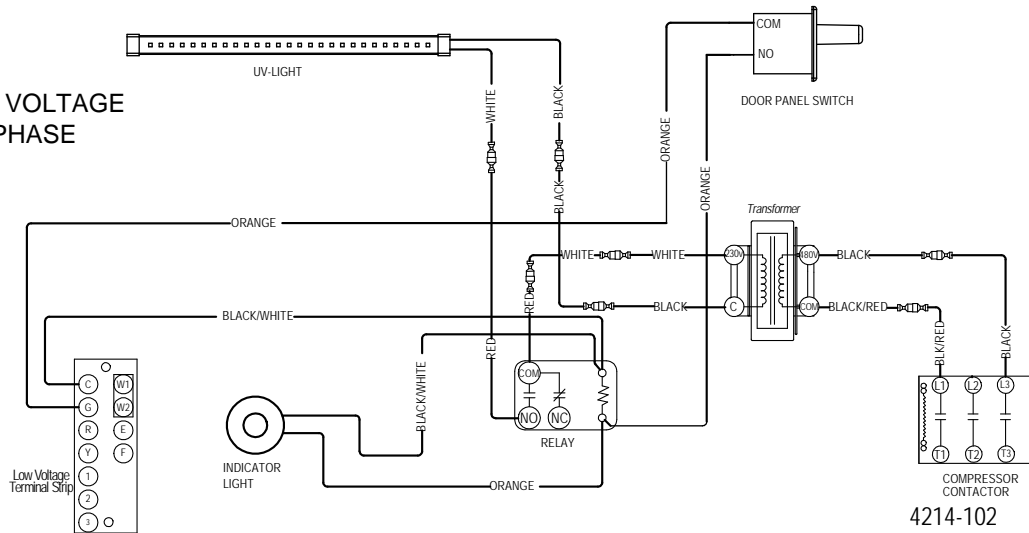
UNIT SUPPLY VOLTAGE
230 VOLT - 1 PHASE



UNIT SUPPLY VOLTAGE
230 VOLT - 3 PHASE



UNIT SUPPLY VOLTAGE
460 VOLT - 3 PHASE



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