
SUPPLEMENTAL INSTRUCTIONS

8620-343 & 8620-344 Wall Mount 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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Climate Control Solutions

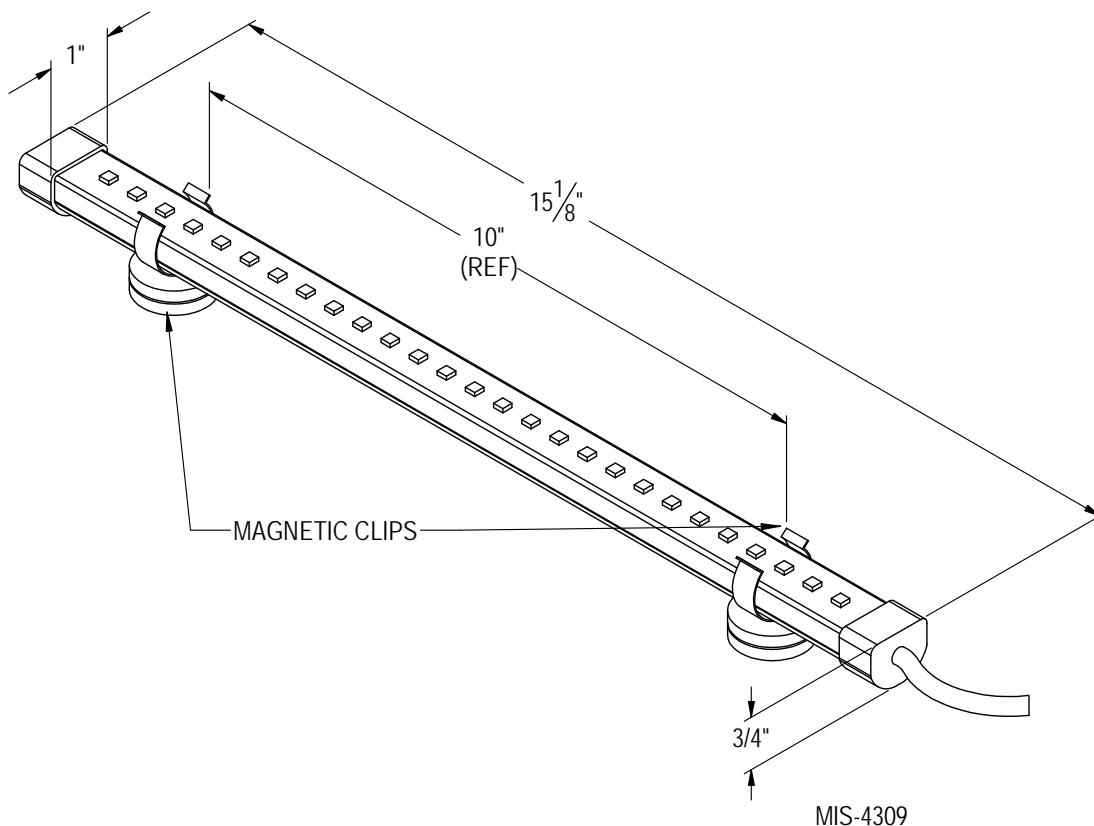
Bard Manufacturing Company, Inc.
Bryan, Ohio 43506
www.bardhvac.com

Manual: 7960-918
Supersedes: **NEW**
Date: 6-23-21

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	

Dimensions



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	W**A2, W**AA, W**AB W**L2, W**LA, W**LB
8620-344	230V	W**H2, W**HA, W**HB W*SAC, W*RV, W*LV

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.

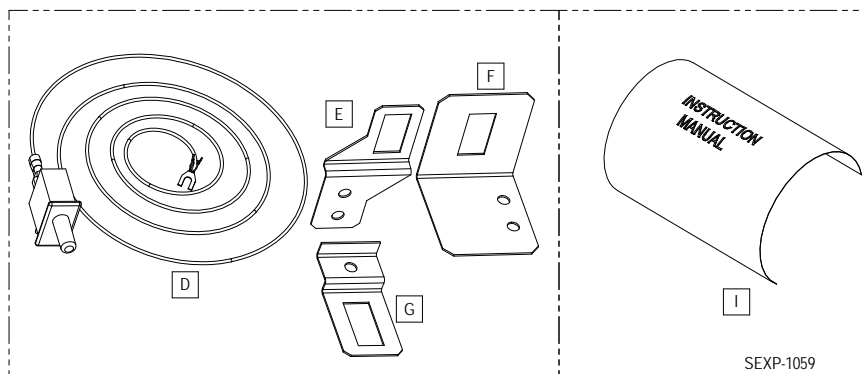
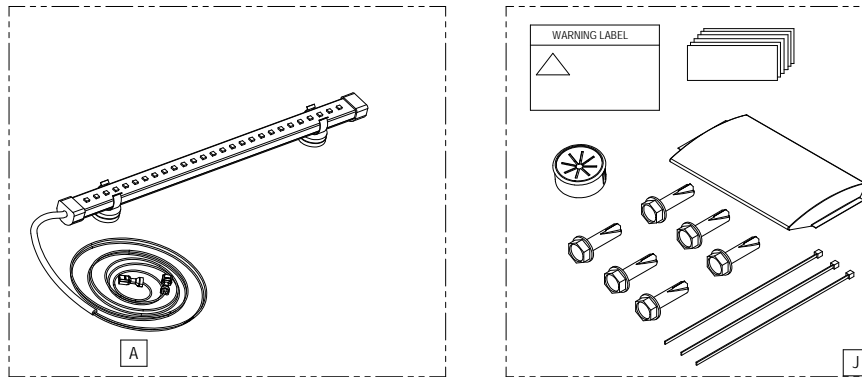
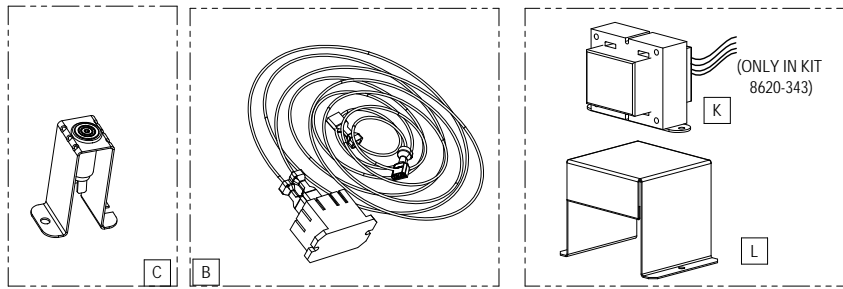
UV-C band light spectrum is not visible to the eye.

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.

Parts List

Reference Letter	Part 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 – 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 (8620-343 Kit Only)	1
L	113-932	Transformer Enclosure (8620-343 Kit Only)	1



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
- 7/8" drill bit (optional)

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 the 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. (Models may have air deflector or control box mounted to blower partition; however, UV light can still be installed as shown.)

6. Route wires into control panel through bushing in blower partition or copper grommet or wire bushing, then into control panel as shown in Figure 1.

NOTE: Not all models will have bushing in blower partition. A 7/8" hole can be drilled and supplied bushing can be installed.

7. **Kit 8620-343 (460V-3PH Units) Only:** 460V stepdown transformer can be installed in any of these four locations: In control panel assembly, on side flange of control panel, on blower partition or under blower partition (see Figure 2).

8. Connect red wire from UV light assembly to "NO" contact on the relay assembly (see **Field Installation Diagram** on page 9).

9. Determine unit supply voltage—located on the unit serial plate. Connect black wire from UV light assembly to:

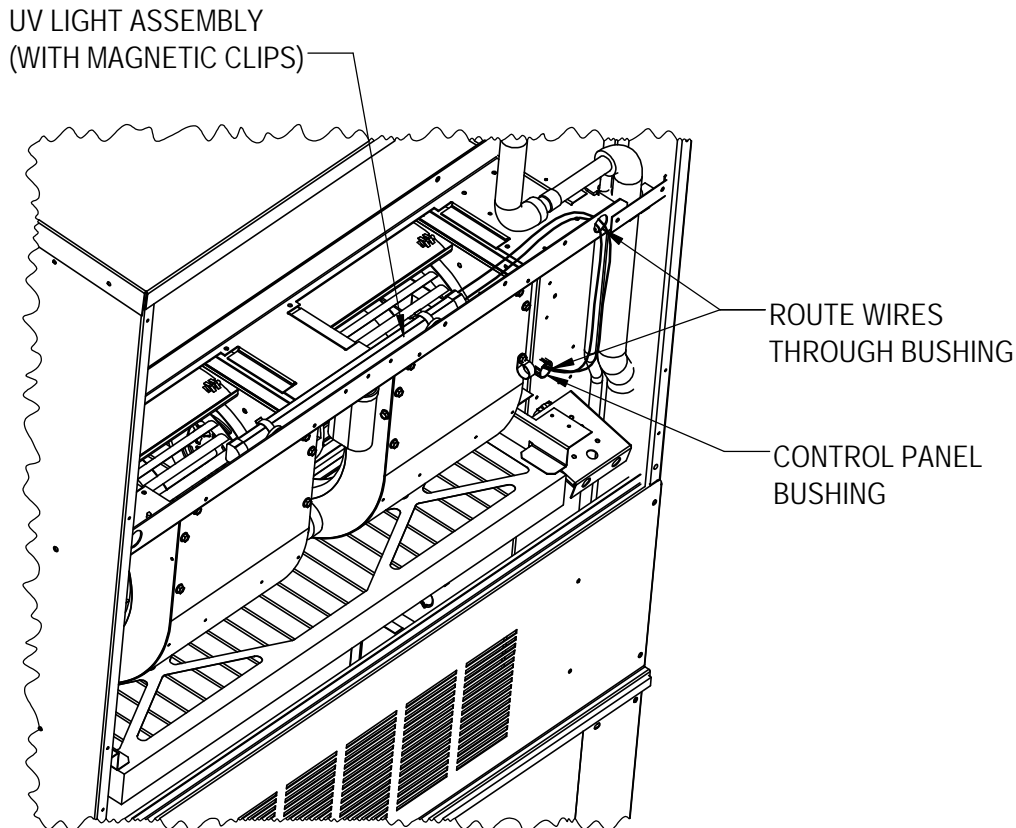
(230V-1PH) – "L2"

(230V-3PH) – "L3"

(460V-3PH) – Black Wire-Transformer

See **Field Installation Diagram** on page 9.

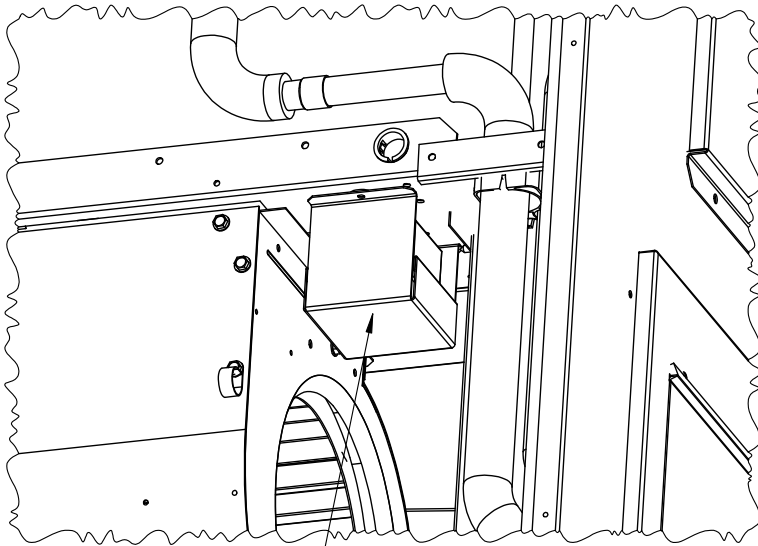
FIGURE 1
Install UV Light Assembly and Route Wires



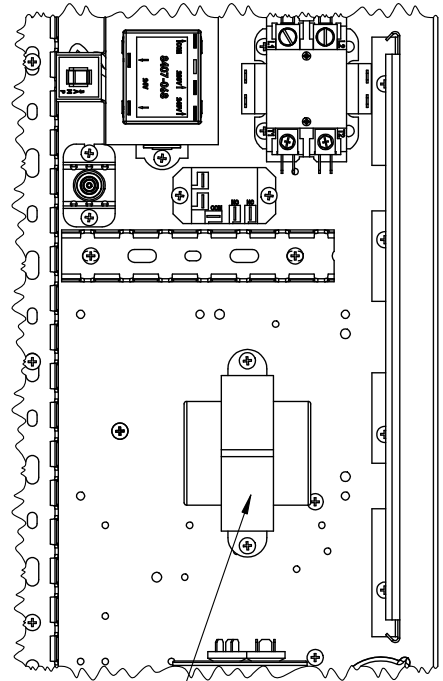
MIS-4328

FIGURE 2
Kit 8620-343 460V Stepdown Transformer Installation Locations

ON BOTTOM BLOWER PARTITION

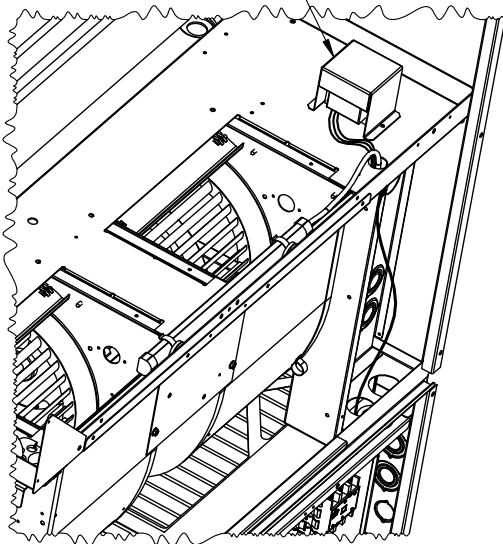


IN UNIT CONTROL PANEL

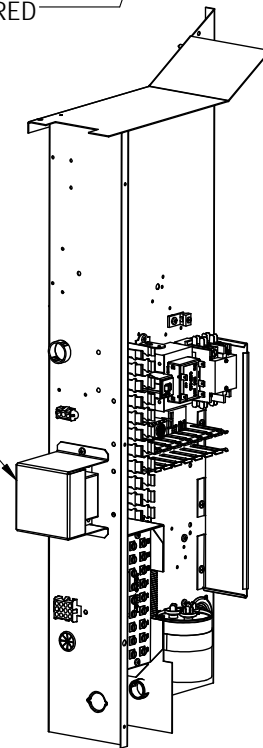


TRANSFORMER COVER
 NOT REQUIRED

TRANSFORMER COVER
 REQUIRED



ON TOP BLOWER PARTITION



ON SIDE FLANGE
 CONTROL PANEL

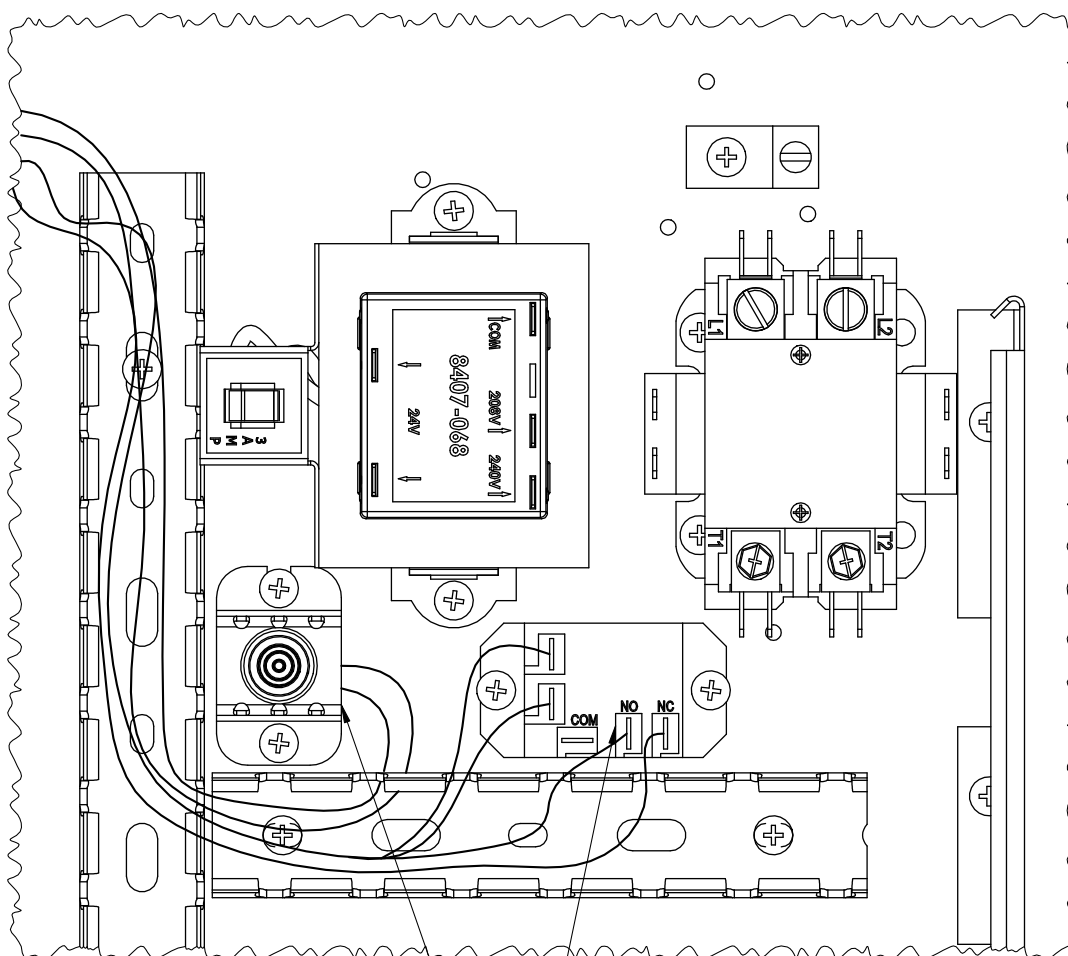
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10. Connect red wire from "COM" on relay assembly to:
 (230V-1PH) – "L1"
 (230V-3PH) – "L1"
 (460V-3PH) – White Wire-Transformer
 See **Field Installation Diagram** on page 9.
11. Connect short orange wire from relay assembly to indicator light.
12. 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

assemblies in control panel using self-drilling screws provided (see Figure 3).

14. Install door panel switch into panel switch bracket 113-908 (see Figure 4). **Door panel switch acts as interlock safety device to disable UV light source upon removal of blower access panel preventing UV exposure.**
15. Install panel switch assembly on the left side of blower partition using self -drilling screw as shown in Figure 4. Some models may have an air deflector installed on the blower partition; mount switch assembly next to the blower partition as shown.

FIGURE 3
Install Relay and Indicator Light Assemblies



MIS-4329

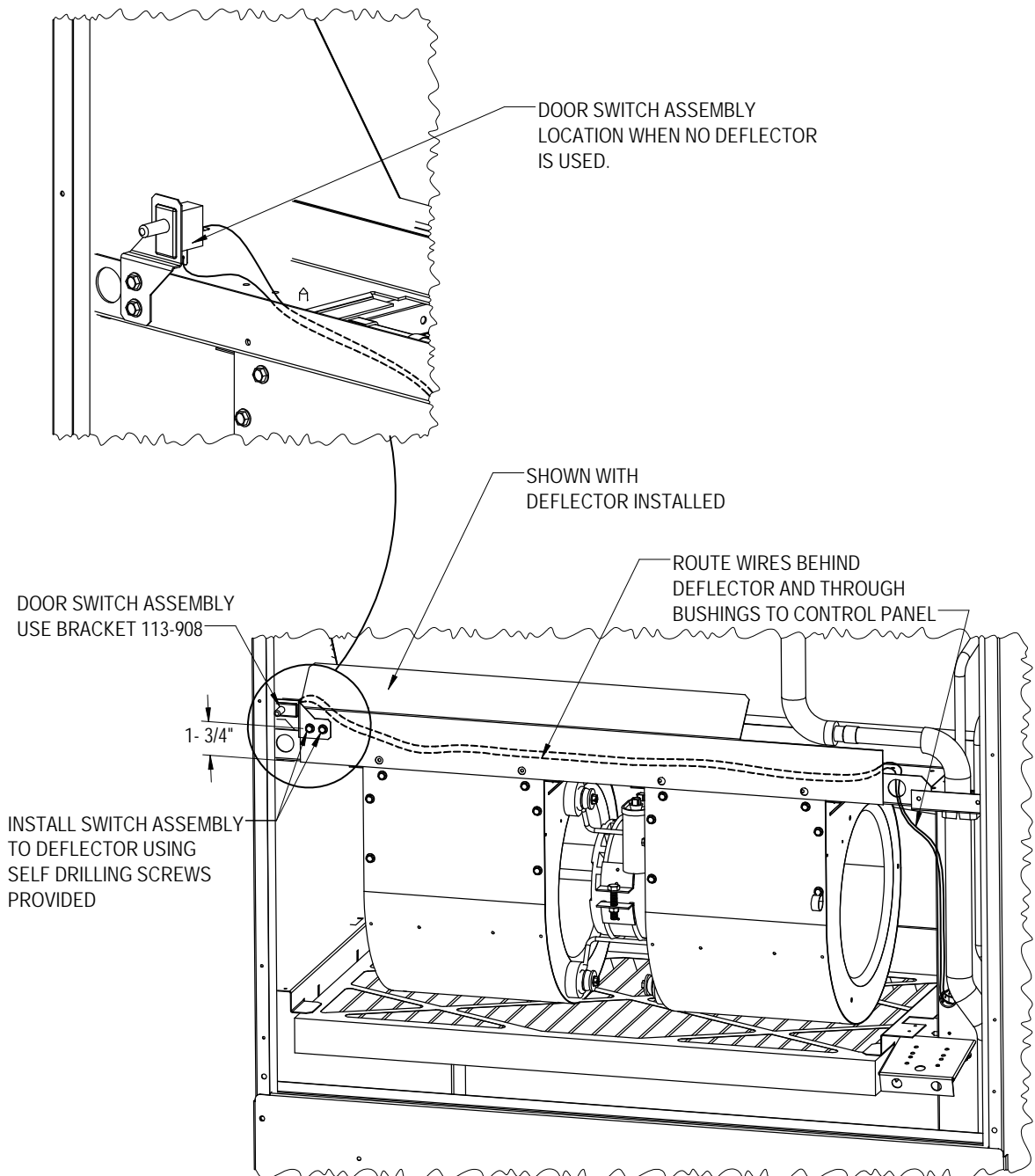
SPACE IS LIMITED IN CONTROL PANELS ON SOME MODELS. INSTALL RELAY AND INDICATOR LIGHT WHERE THERE IS SPACE AVAILABLE.

16. Route long orange wire from relay assembly (up to door panel switch) and connect to "NO". Route orange wire from door panel switch (down to control panel) through the blower partition and control panel bushing as shown in Figure 1 on page 4.

NOTE: Not all models will have bushing in blower partition. A 7/8" hole can be drilled and supplied bushing can be installed.

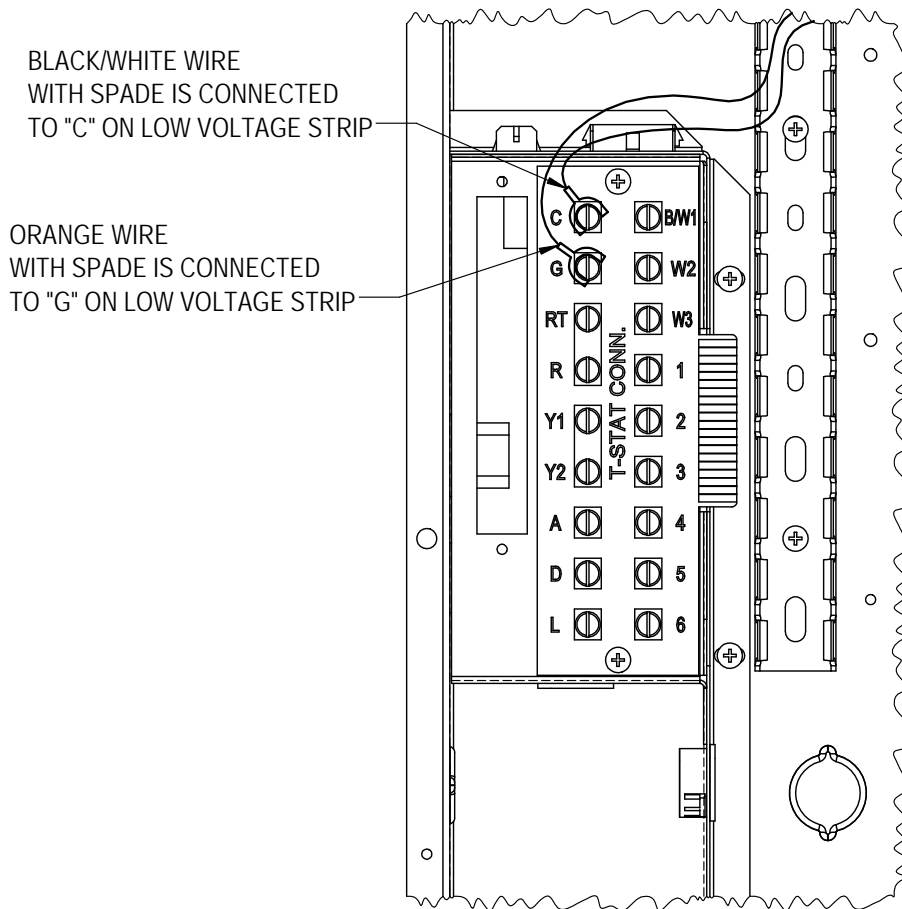
17. Locate low voltage strip in control panel. Seat spade end of orange wire from panel switch assembly under the "G" terminal on the low voltage strip assembly, then seat spade end of black/white wire from coil on relay assembly under the "C" terminal on low voltage strip (see Figure 5 on page 8).

FIGURE 4
Install Panel Switch Assembly



MIS-4330

FIGURE 5
Low Voltage Terminal Strip Connection Points



MIS-4331

18. 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.

19. 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.**

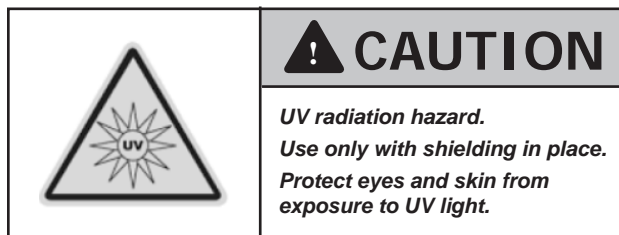
Replace blower access cover (large upper panel).

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.)

20. 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.

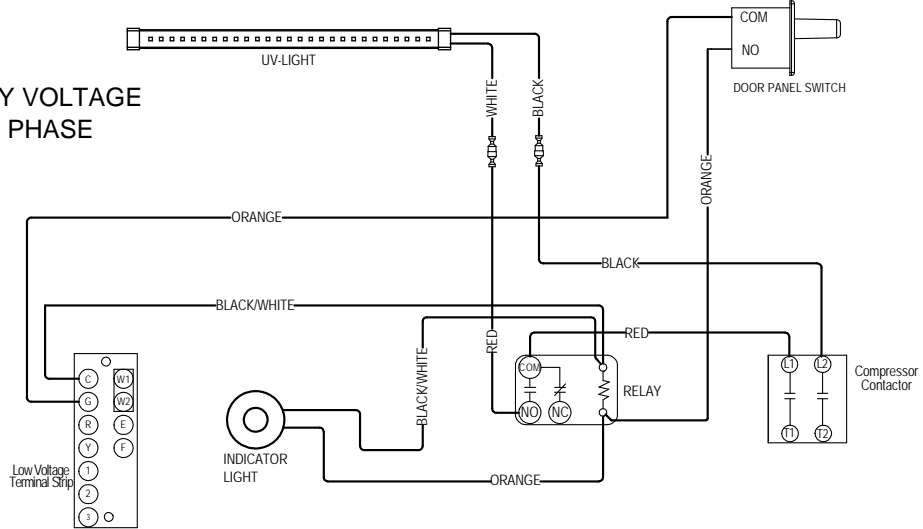
Do NOT attempt to look at UV source to confirm operation!



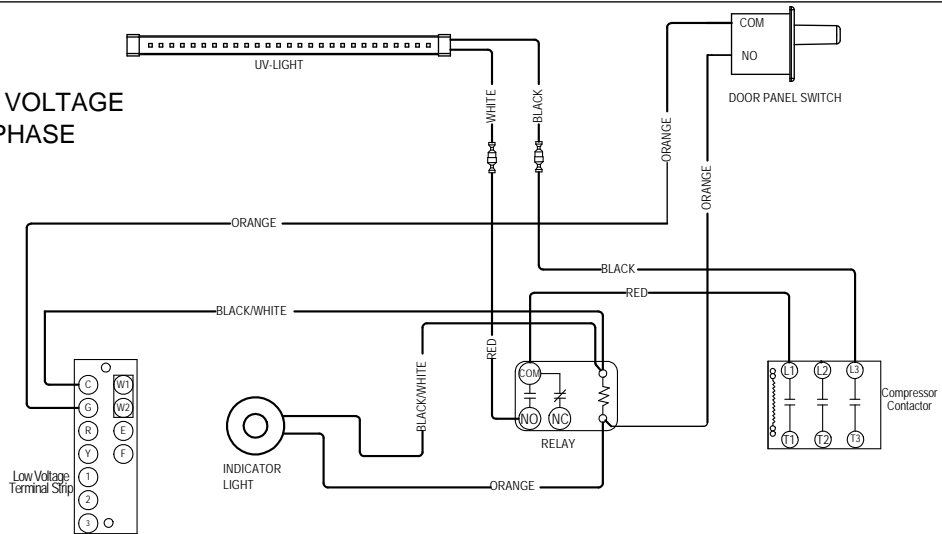
21. Disconnect power to unit. Replace all inner and outer panel covers.
22. Restore power to unit.

FIGURE 6
Field Installation Diagram

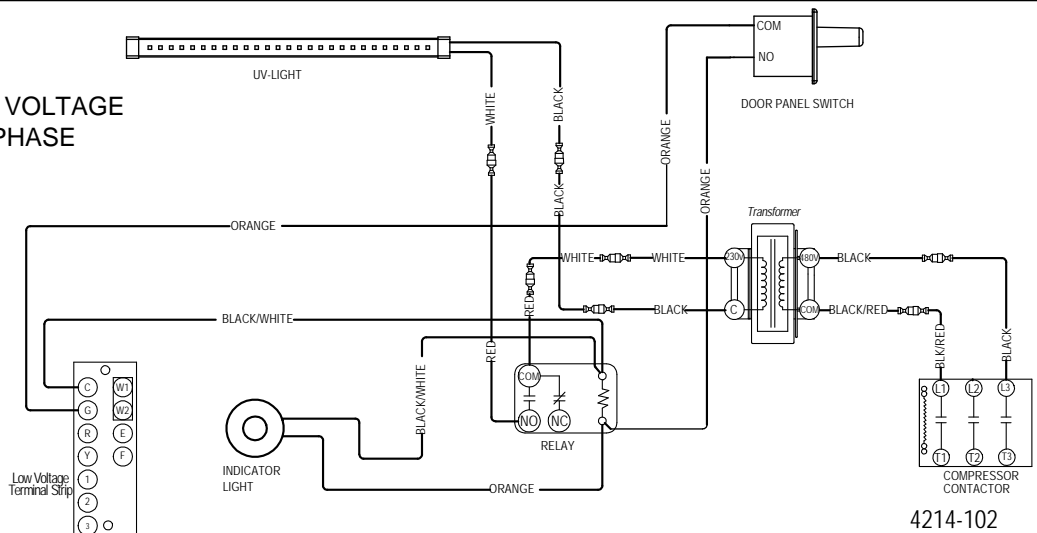
UNIT SUPPLY VOLTAGE
230 VOLT - 1 PHASE



UNIT SUPPLY VOLTAGE
230 VOLT - 3 PHASE



UNIT SUPPLY VOLTAGE
460 VOLT - 3 PHASE



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