



SERVICE AND APPLICATION NOTES

Heathy Climate® Germicidal Light

Models UVC-24V, UVC-41W-S, & UVC-41W-D in a Low GWP Refrigerant System

Issue:

Application compliance with UL 60335-2-40 approved furnaces and air handlers

Resolution:

Models covered by this Service and Application Note (100152) include:

- » UVC-24V
- » UVC-41W-S
- » UVC-41W-D

Furnaces		Air Handlers
EL196	ML196	CBK45UHPT, CBK45HET, CBK45UHVT
EL280	ML296	CBK47UHET
EL296	SL280	CBK48MV
EL297	SL297	
ML180	SLP99	
ML193		

Packing List

UVC Model	UVC-24V	UVC-41W-S	UVC-41W-D
Cat. No.	29V27	29V28	29V29
Contents	1 - Installation Instructions	1 - Installation Instructions	1 - Installation Instructions
	1 - 24V Safety Circuit Relay Box	1 - 120/240V Safety Circuit Relay Box	1 - 120/240V Safety Circuit Relay Box
	1 - Safety Switch and Magnet (Door Interlock Switch)	1 - Safety Switch and Magnet (Door Interlock Switch)	1 - Safety Switch and Magnet (Door Interlock Switch)
	1 - Lamp Shielding Baffle	1 - Lamp Shielding Baffle	2 - Lamp Shielding Baffles
	1 - UVC Danger Label	1 - UVC Danger Label	1 - UVC Danger Label
	1 - UVC Warning Label	1 - UVC Warning Label	1 - UVC Warning Label

Replacement Parts:

UVC Model	UVC-24V	UVC-41W-S	UVC-41W-D
Requires	Qty. 1 - 26Z78 (Safety Circuit UVC-24V)	Qty. 1 - 26Z79 (Safety Circuit Assembly UVC-41W)	Qty. 1 - 26Z79 (Safety Circuit Assembly UVC-41W)
	Qty. 1 - 26Z80 (Door Interlock Switch)	Qty. 1 - 26Z80 (Door Interlock Switch)	Qty. 1 - 26Z80 (Door Interlock Switch)
	Qty. 1 - Y5171 (Lamp Shielding Baffle)	Qty. 1 - Y5171 (Lamp Shielding Baffle)	Qty. 2 - Y5171 (Lamp Shielding Baffle)

Special Installation Notes:

- » Do not install in closet return applications where light can possibly penetrate the area.
- » Do not install a bulb in the access door or blower compartment without the safety circuit.
- » Do not install in rooftop/outdoor applications.
- » Do not expose wiring or plastic parts to the UVC light.
- » Do not install the device beneath a humidifier or source of water.
- » If the UVC device is installed near an air filter, check with filter manufacturer for UVC resistance properties and/or use the shielding baffle to protect the air filter.
- » A shielding baffle is required for non-UVC resistant filters, which includes Healthy Climate filters.
- » Adhere to all **Caution**, **Warning**, and **Danger** notes in the installation manual.

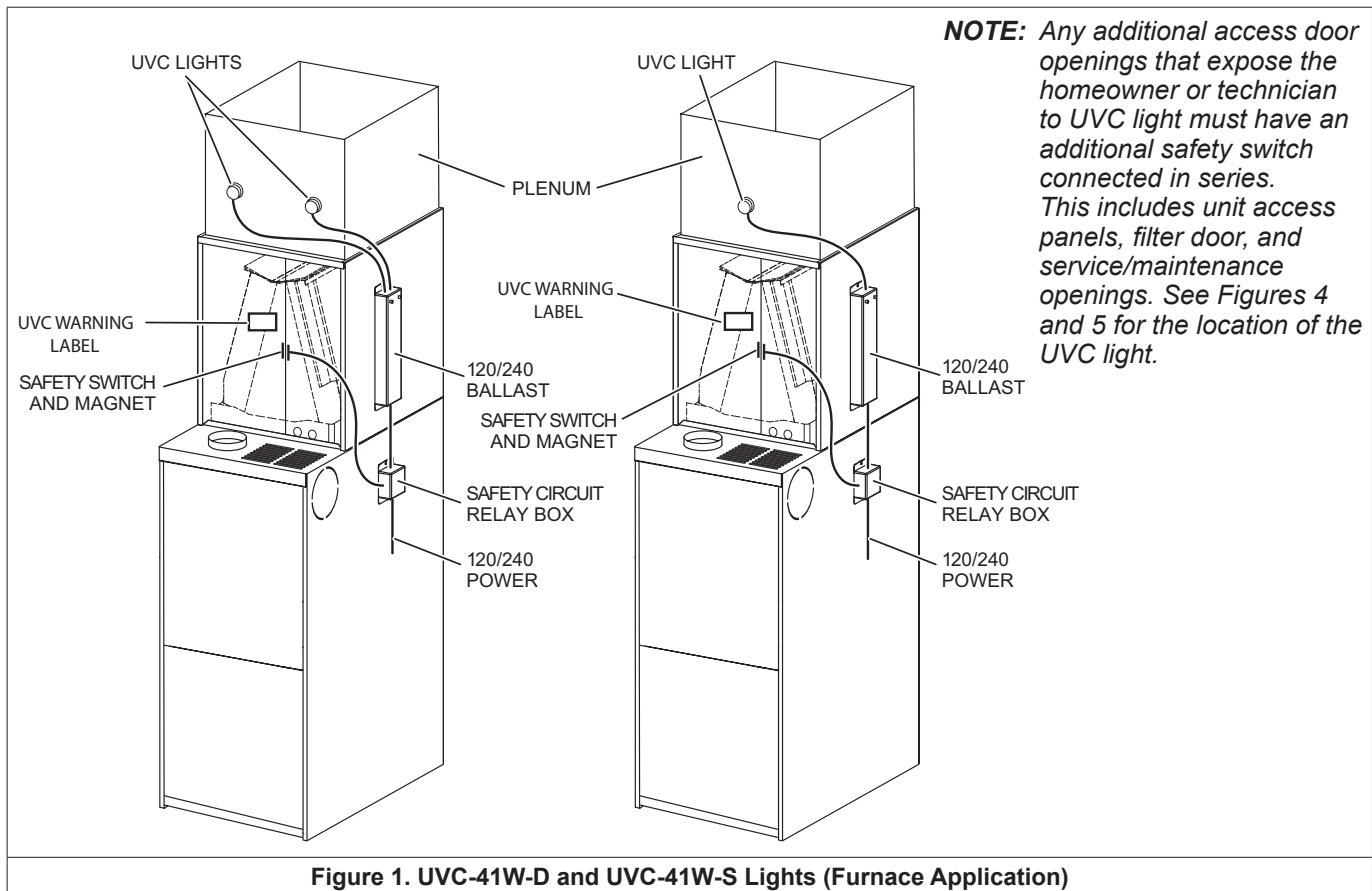
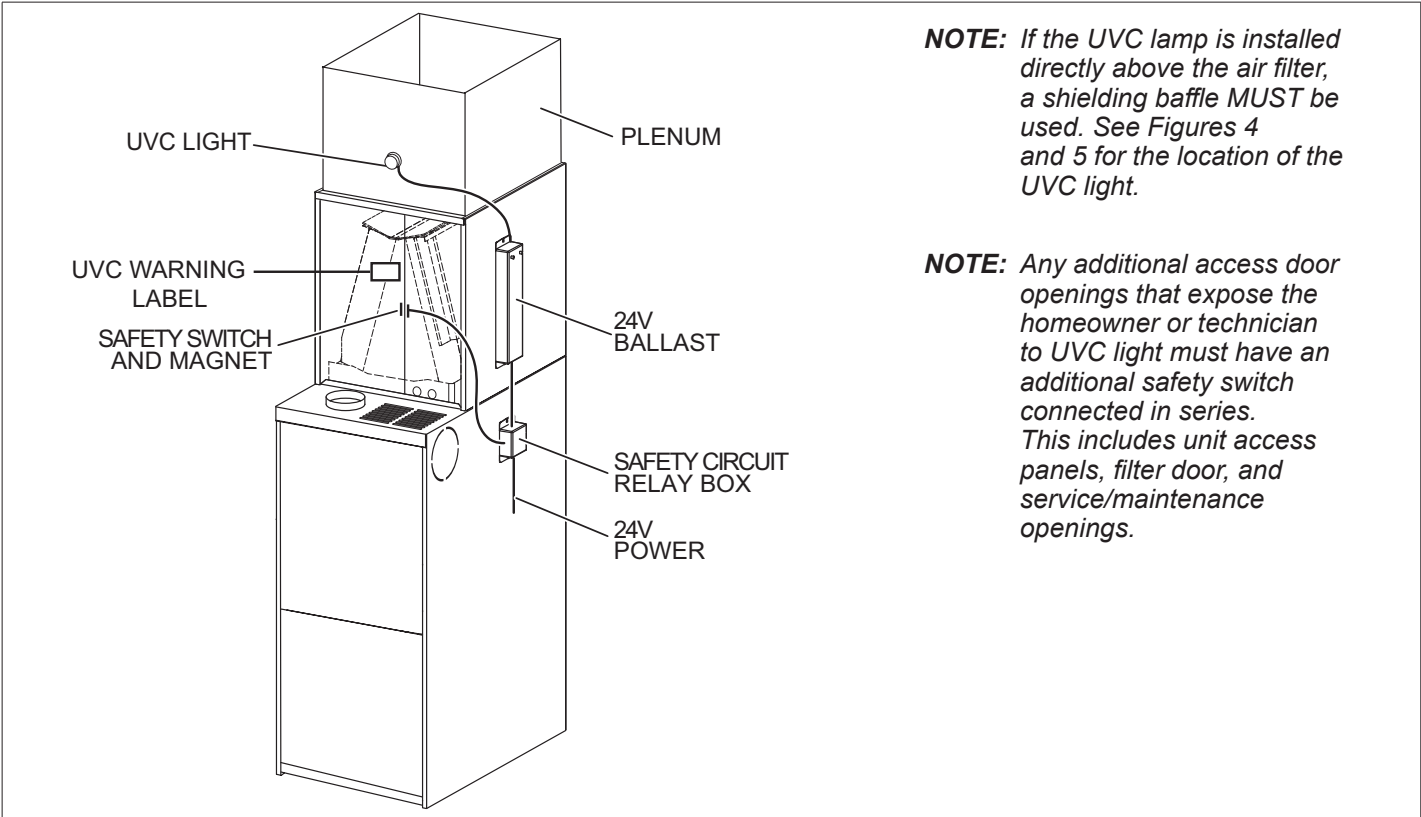


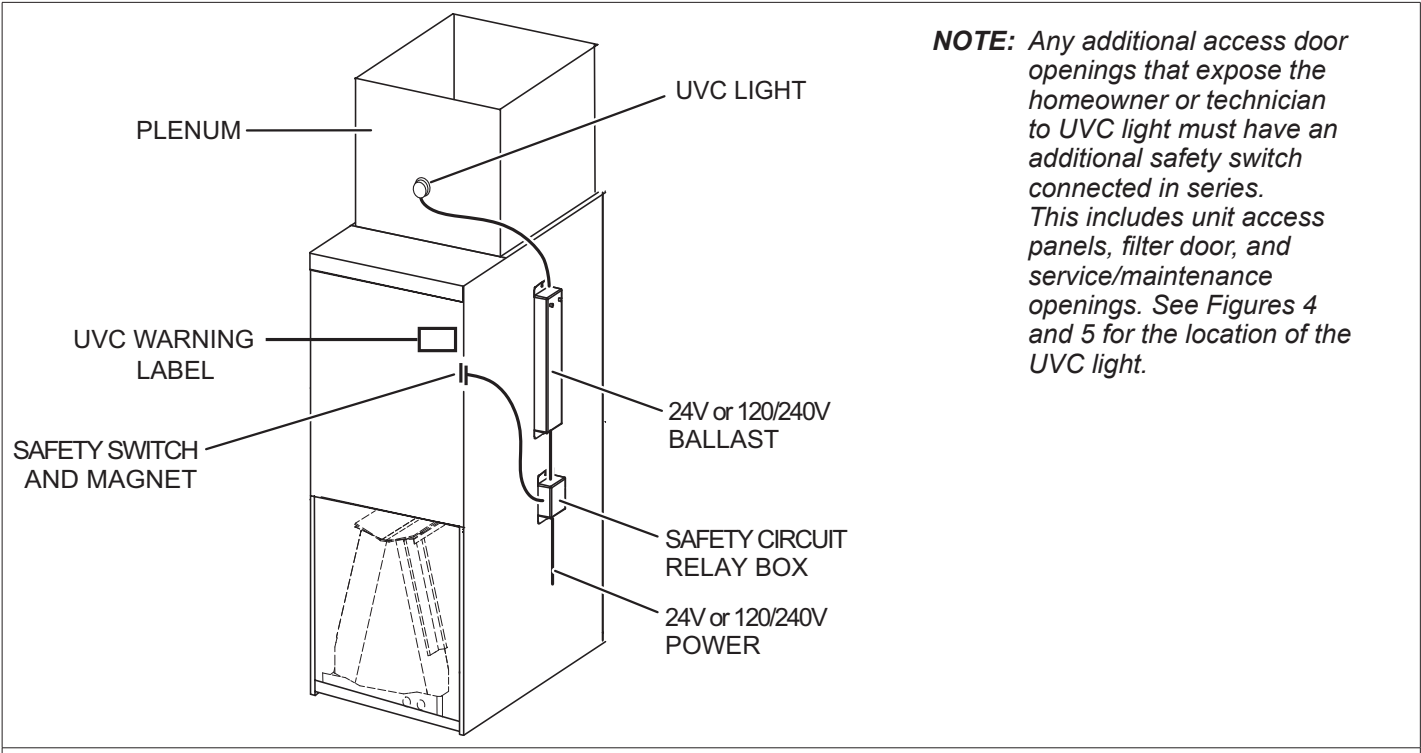
Figure 1. UVC-41W-D and UVC-41W-S Lights (Furnace Application)



NOTE: If the UVC lamp is installed directly above the air filter, a shielding baffle **MUST** be used. See Figures 4 and 5 for the location of the UVC light.

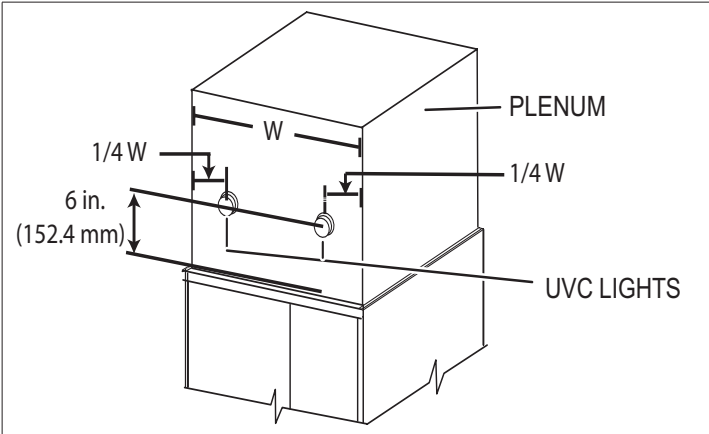
NOTE: Any additional access door openings that expose the homeowner or technician to UVC light must have an additional safety switch connected in series. This includes unit access panels, filter door, and service/maintenance openings.

Figure 2. UVC-24V Light (Furnace Application)

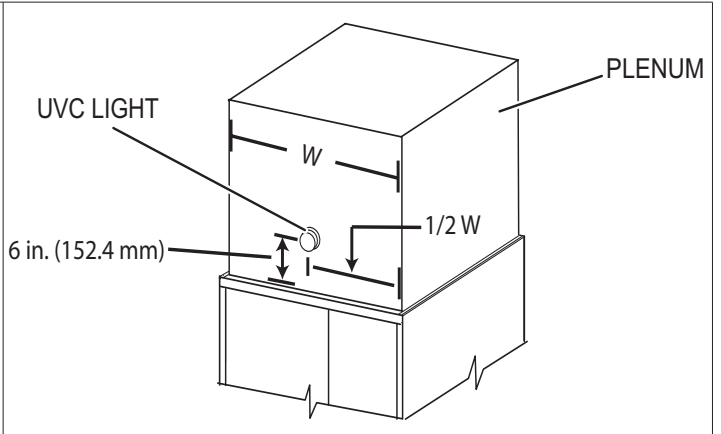


NOTE: Any additional access door openings that expose the homeowner or technician to UVC light must have an additional safety switch connected in series. This includes unit access panels, filter door, and service/maintenance openings. See Figures 4 and 5 for the location of the UVC light.

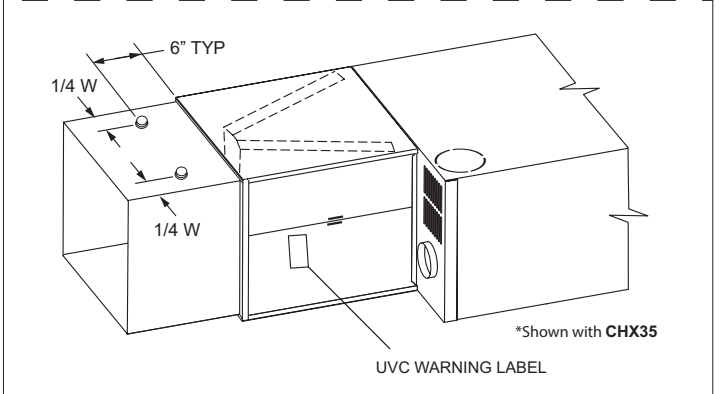
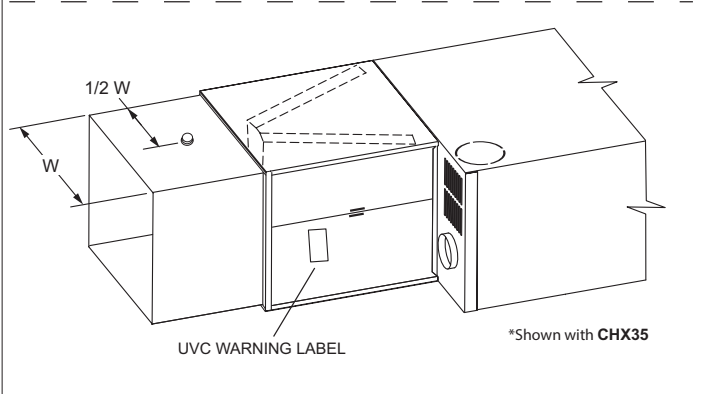
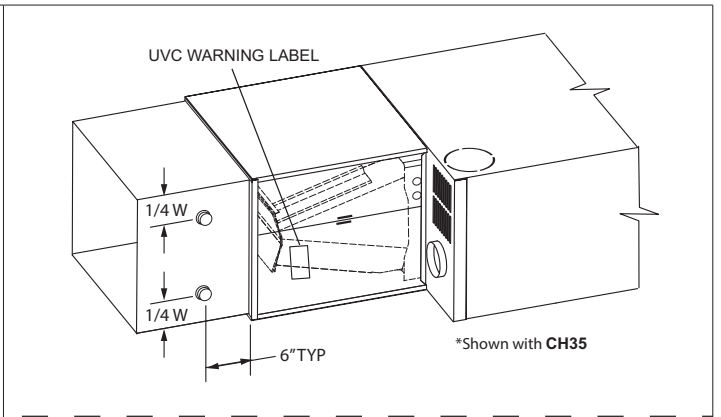
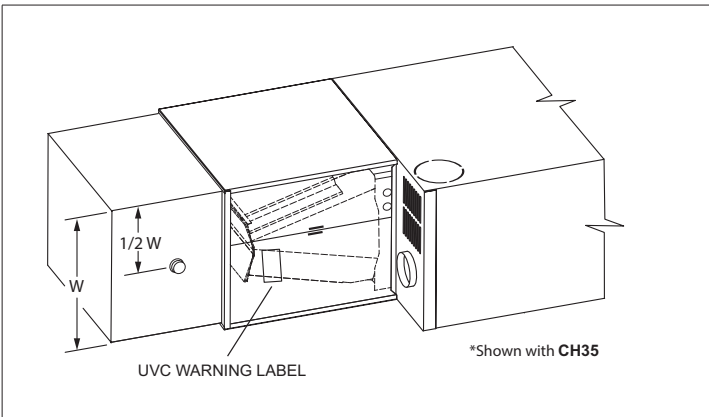
Figure 3. UVC-24V or UVC-41W-S Light (Air Handler Application)



**Figure 4. Furnace - Dual Lamp Installation
UVC-41W-D**

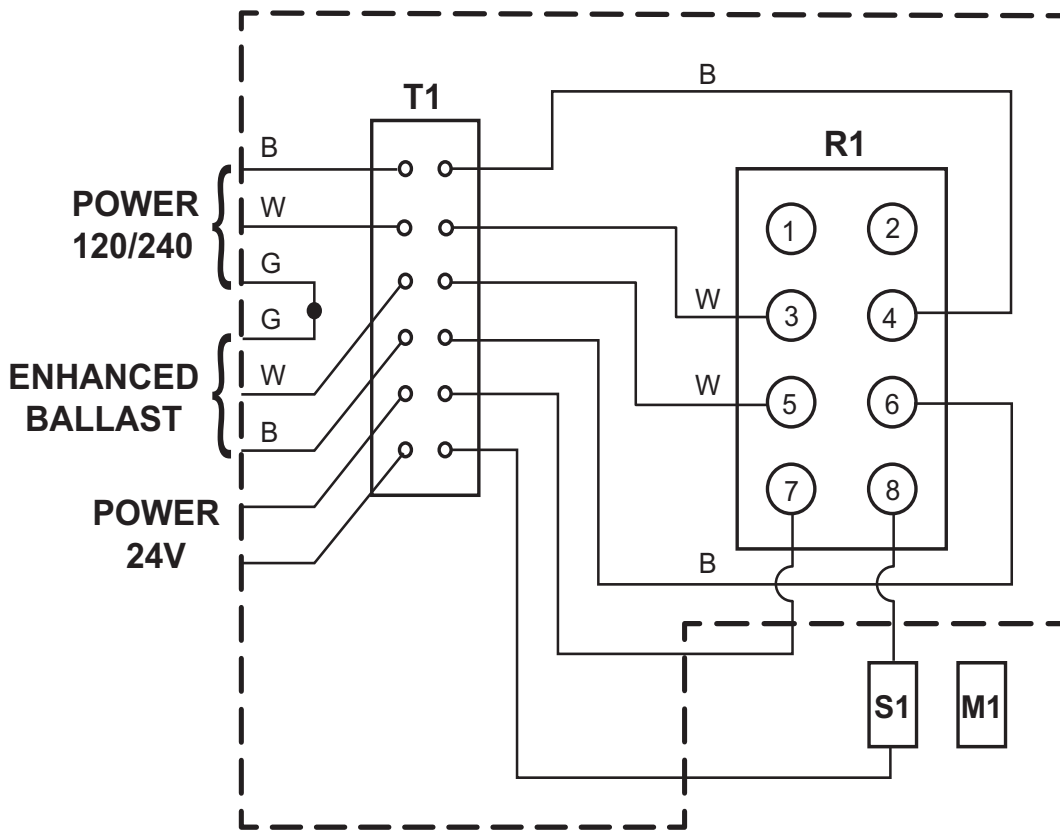


**Figure 5. Furnace - Single Lamp Installation
UVC-41W-S & UVC-24V**



**Figure 6. Furnace - Horizontal Single Lamp
Installation UVC-41W-S**

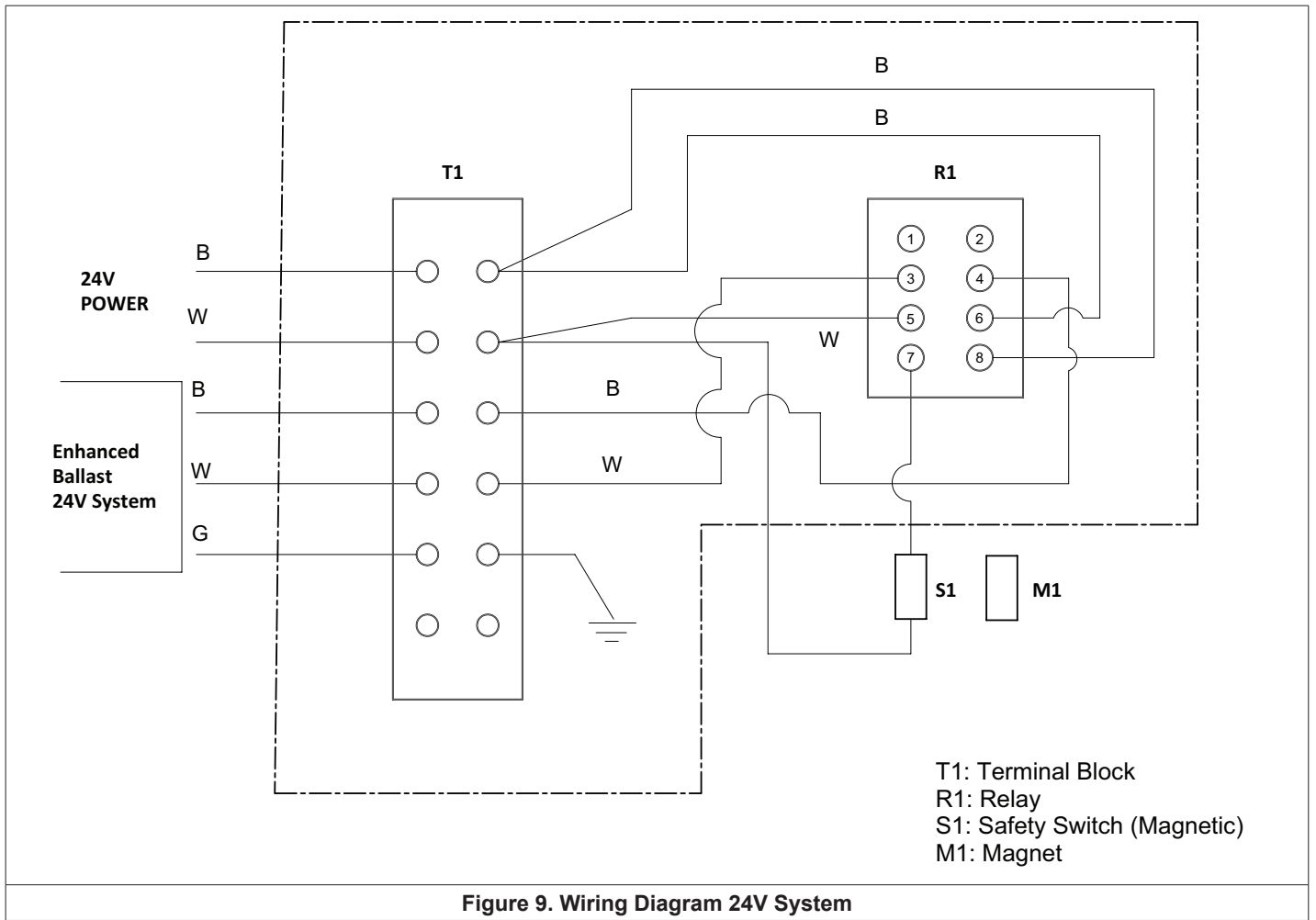
**Figure 7. Furnace - Horizontal Dual Lamp
Installation UVC-41W-D**



• Indicates a connector, which is provided.

Figure 8. Wiring Diagram 120V / 240V System

Wiring Diagram Key	
T1	Terminal Block
R1	Relay
S1	Safety Switch (Magnetic)
M1	Magnet



Wiring Diagram Key	
T3	Terminal Block (24V)
R1	Relay
S1	Safety Switch (Magnetic)
M1	Magnet

Operation and Maintenance:

Please refer to the installation manual for the specific model installed.