

INSTRUCTIONS

PLC HYBRID INSTALLATION



RAB Lighting is committed to creating high-quality, affordable, well-designed and energy-efficient LED lighting and controls that make it easy for electricians to install and end users to save energy. We'd love to hear your comments. Please call the Marketing Department at 888-RAB-1000 or email: marketing@rablighting.com

**** DON'T TOSS IT—RECYCLE IT! MAKE THE SUSTAINABLE CHOICE BY RECYCLING THIS FIXTURE AT END OF LIFE WITH A LICENSED RECYCLING PROVIDER. ****

PLC-5-O-8FA-HYB-GX23
PLC-7-O-8XX-HYB-G24D
PLC-9-O-8XX-HYB-G24D

PLC-5-O-8FA-HYB-G24D
PLC-7-O-8FA-HYB-GX32D
PLC-9-O-8FA-HYB-G24D
PLC-9-O-8FA-HYB-GX32D



IMPORTANT

READ CAREFULLY BEFORE INSTALLING LAMPS. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.

RAB lamps must be wired in accordance with the National Electrical Code and all applicable local codes. Proper grounding is required for safety. THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

WARNING: Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician. Installation should be performed only by a qualified electrician in accordance with the National Electrical Code and relevant local code. Luminaire wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for enclosed wiring and components.

Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation. Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawings and where the input rating of the retrofit kit does not exceed the input rating of the luminaire. To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

Installers should not disconnect existing wires from lampholder terminals to make new connections at lampholder terminals. Instead installers should cut existing lampholder leads away from the lampholder and make new electrical connections to lampholder lead wires by employing applicable connectors.

Risk of fire. Input ratings may need to be determined based on any configuration(s) permitted by the installation instructions. Regardless of the configuration(s) of the retrofit kit, the input ratings of the overall retrofit kit shall not exceed the marked input ratings of the host luminaire. The installation instructions shall indicate the environmental locations the retrofit kit is suitable for Damp locations. "Prior to installation, review all environmental designation locations in the retrofit kit installation instructions. Only install in damp locations if so indicated in the installation instructions.

THIS LAMP ONLY OPERATES ON MAGNETIC BALLASTS. IF LAMP DOES NOT LIGHT WHEN THE LUMINAIRE IS ENERGIZED, REMOVE LAMP FROM LUMINAIRE AND CONTACT LAMP MANUFACTURER OR QUALIFIED ELECTRICIAN.

CAUTION: DO NOT INSTALL THIS LAMP IN A PRE-HEAT LUMINAIRE.

THE RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY AUTHORITIES HAVING JURISDICTION. PRODUCT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH THE APPLICABLE AND APPROPRIATE ELECTRICAL CODES. THE INSTALLATION GUIDE DOES NOT SUPERSEDE LOCAL OR NATIONAL REGULATIONS FOR ELECTRICAL INSTALLATIONS.

Installers should examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit.

DO NOT INSTALL THIS LAMP IN A PRE-HEAT LUMINAIRE. THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS.

Disconnect power at the source before installation, inspection or removal. Do not simply switch off fixture.

This item is rated for 120-277V. Installer must determine whether line voltage 120-277V is available at the luminaire before installation. This lamp is non-dimmable. Not for use with dimmers.

"This luminaire has been modified to operate LED lamps" shall be marked on the retrofit luminaire where readily visible by the during normal maintenance including re-lamping.

Risk of fire or electric shock. Do not open or modify. No user serviceable parts inside.

SUITABLE FOR DAMP LOCATIONS. Not for use where directly exposed to the weather or water.

Complies with Part 15 of FCC. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received including interference that may cause undesired operate.

SUITABLE FOR "TYPE NON-IC" RECESSED LUMINAIRES WITHOUT DIFFUSER.

No external weight or mechanical force should be applied to lamp or components.

RISK OF FIRE. IF THE LAMP OR LUMINAIRE EXHIBITS UNDESIRABLE OPERATION (BUZZING, FLICKERING, ETC.), IMMEDIATELY TURN OFF POWER, REMOVE LAMP FROM LUMINAIRE AND CONTACT THE MANUFACTURER.

NOTE: This retrofit may be used in fixtures with 2 pin or 4 pin sockets and can replace 13W, 18W, 26W CFL lamps with G24q, GX24q, G24d and GX24d bases. And 2pin GX32d sockets can replace 20W, 27W CFL lamps with GX32D bases.

DAMAGED CONTACT A SERVICE PERSON. DO NOT MIX FLUORESCENT AND LED LAMPS IN THE SAME LUMINAIRE UNLESS BALLAST IS MARKED FOR THIS PURPOSE. EXAMINE LUMINAIRE FOR DAMAGE BEFORE INSTALLING LED LAMP.

IF LAMP HOLDERS OR OTHER PARTS ARE VISIBLY.

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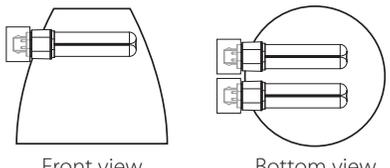
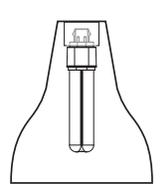
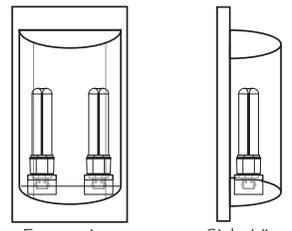
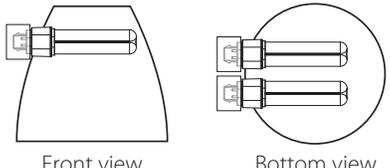
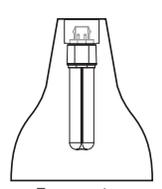
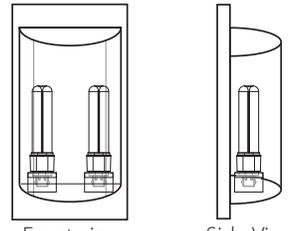


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COMPARTMENT DIMENSION

Please make sure the minimum dimensions of the lamp compartment in the non-enclosed fixture meet the below guidelines.

<p>Non-enclosed Fixture Horizontal Installation</p>  <p>Front view Bottom view</p>	Model Number		PLC-7-O-8XX-HYB-G24D PLC-5-O-8FA-HYB-GX23 PLC-5-O-8FA-HYB-G24D	PLC-9-O-8XX-HYB-G24D PLC-9-O-8FA-HYB-G24D
	Fixture Dimension	Diameter	6.12 in	6.12 in
		Height	4.75 in	4.75 in
	Maximum Lamps in Fixture		2	
Lampholder-to-Lampholder Spacing		0.375 in		
<p>Non-enclosed Fixture Vertical Installation</p>  <p>Front view</p>	Model Number		PLC-7-O-8XX-HYB-G24D PLC-5-O-8FA-HYB-GX23 PLC-5-O-8FA-HYB-G24D	PLC-9-O-8XX-HYB-G24D PLC-9-O-8FA-HYB-G24D
	Fixture Dimension	Diameter	4.50 in	6.31 in
		Height	8.06 in	9.06 in
	Maximum Lamps in Fixture		1	
Lampholder-to-Lampholder Spacing		N/A		
<p>Enclosed Fixture Installation</p>  <p>Front view Side View</p>	Model Number		PLC-7-O-8XX-HYB-G24D PLC-5-O-8FA-HYB-GX23 PLC-5-O-8FA-HYB-G24D	PLC-9-O-8XX-HYB-G24D PLC-9-O-8FA-HYB-G24D
	Fixture Dimension	Length	11.81 in	11.81 in
		Width	6.31 in	6.31 in
		Height	2.75 in	2.75 in
	Maximum Lamps in Fixture		2	
Lampholder-to-Lampholder Spacing		1.87 in		
<p>Non-enclosed Fixture Horizontal Installation</p>  <p>Front view Bottom view</p>	Model Number		PLC-7-O-8FA-HYB-GX32D PLC-9-O-8FA-HYB-GX32D	
	Fixture Dimension	Diameter	7.78 in	
		Height	5.91 in	
	Maximum Lamps in Fixture		2	
Lampholder-to-Lampholder Spacing		0.375 in		
<p>Non-enclosed Fixture Vertical Installation</p>  <p>Front view</p>	Model Number		PLC-7-O-8FA-HYB-GX32D PLC-9-O-8FA-HYB-GX32D	
	Fixture Dimension	Diameter	6.10 in	
		Height	7.78 in	
	Maximum Lamps in Fixture		1	
Lampholder-to-Lampholder Spacing		N/A		
<p>Enclosed Fixture Installation</p>  <p>Front view Side View</p>	Model Number		PLC-7-O-8FA-HYB-GX32D PLC-9-O-8FA-HYB-GX32D	
	Fixture Dimension	Length	11.81 in	
		Width	6.31 in	
		Height	2.75 in	
	Maximum Lamps in Fixture		2	
Lampholder-to-Lampholder Spacing		1.87 in		

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INSTALLATION

1. Read all WARNINGS before continuing this section.
2. Ensure fixture is powered by 120-277V.
3. Make sure POWER IS TURNED OFF AT THE SOURCE.
4. Remove lens if applicable, remove cover and fluorescent lamp.
5. Before rewiring, check the ballast type and refer to the relevant diagram.
6. Before rewiring, check the number of lamps per fixture and refer to the relevant diagram.
7. If fixture is new without ballast please refer to Fig.1.
8. If fixture ballast type is electronic please refer to Fig. 2.
9. If fixture ballast type is magnetic please refer to Fig. 3.
10. This device is powered by two pins; Install lamp into the wired lampholder end.
11. Visibly affix 'Modificion Sticker' and reinstall housing cover and lens if applicable.
12. Select desired color temperature. (*Do not select when power on*).
13. Return power back to source and installation is now complete.

WIRING DIAGRAM

Fig: 1 New fixture without ballast wiring

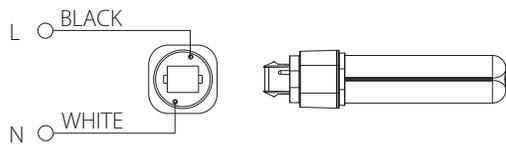


Fig: 3 Magnetic ballast fixture wiring modification

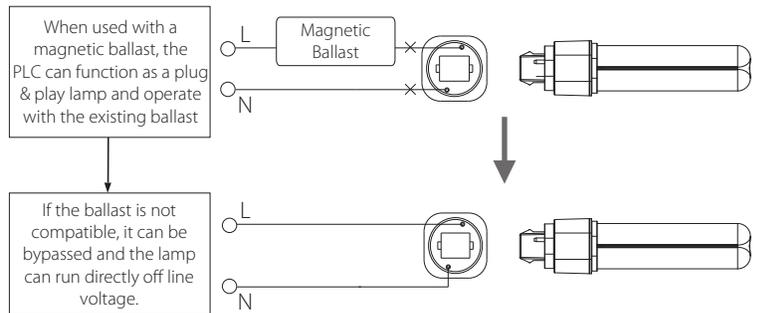
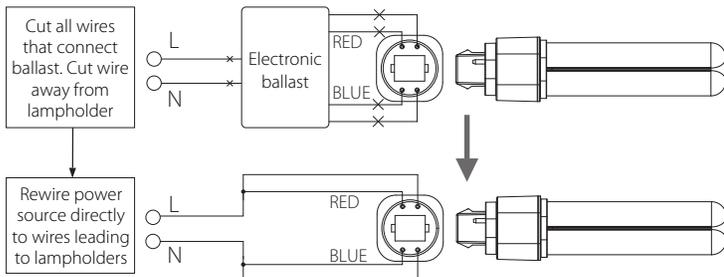


Fig: 2 Electronic ballast fixture wiring



Note: These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation, operation or maintenance.



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Free Lighting Layouts
Answered online or by request