

Ballast Bypass or Ballast Compatible

VH Series

Hybrid, works direct to line 120-480 VAC line. Also works with HID magnetic ballast compatible. When connected to a ballast, input voltage to ballast is shielded from lamp, therefore input to ballast can go up to 347VAC or 480VAC.

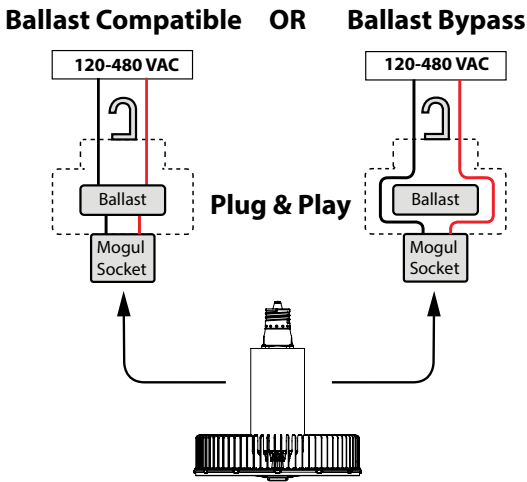
VL Series

Ballast bypass only direct to 120-480 VAC.

Ballast Bypass

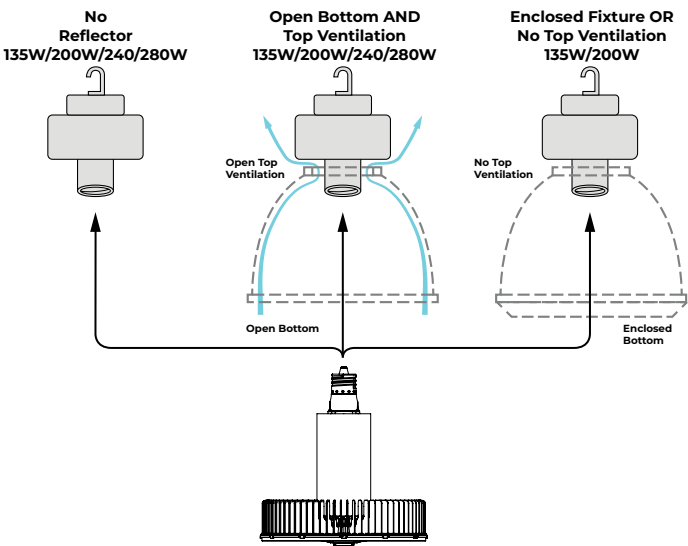
Bypassing the ballast enables the best energy saving by rerouting the main power around the ballast to power the lamp directly. In this configuration, the ballast no longer consumes power saving typically an additional 50W. This creates the optimum power factor of >0.95. See reverse side for ballast bypass installation instructions.

Ballast Compatible The ballast compatible mode offers unparalleled flexibility. It is the first in the industry to be UL Listed for use with all ANSI magnetic ballasts (250-1000W) as well as ballast bypass to main line voltage (120-480V). This option is the simplest way to replace existing HID lamps, without the need for electricians: just change the lamp. In event of future ballast failure, you can still use the existing asset and bypass the failed ballast to power the lamp directly from the main line voltage.



Type	HID Ballast Compatibility					
	250W	320W	400W	600W	750W	1000W
Metal Halide	M138/ M153	M132/ M154	M135/ M155 MH400	-	M149	M141, M47
HPS	NG250	-	S51, NG400	S106, NG600		NG1000, S52

Fixture Compatibility



Reflector Optional

Valto Lamp contains its own optics and does not require an external reflector. However, to preserve the traditional look the reflector may be added.

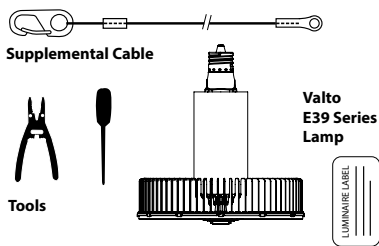
Open with Top Ventilation (240W/280W Lamps)

Open fixture must also have ventilation at top of fixture.

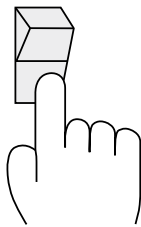
Enclosed or No Top Ventilation (135W and 200W Lamps)

The 135W and 200W versions are compatible with fully enclosed fixtures. Fixtures with no top ventilation should also use the 135W or 200W. This lamp is only suitable to retrofit ceiling-mounted surface and ceiling-mounted dependent HID luminaires, the minimum lamp compartment dimensions of the luminaire is 558.8 mm (W) x 558.8 mm (L) x 340mm (H)", or the equivalent should be described.

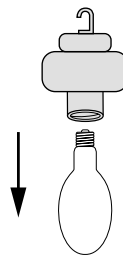
1. Make sure you have the required parts and tools.



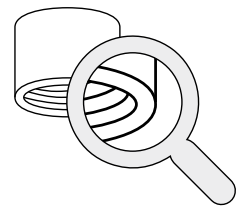
2. Turn power to fixture off.



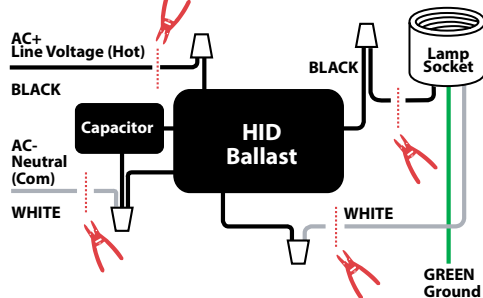
3. Remove HID lamp.



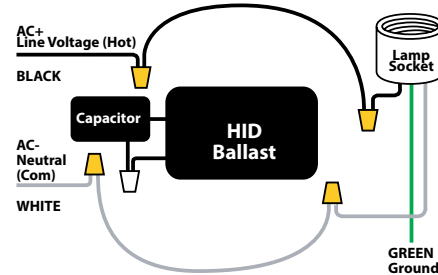
4. Make sure socket is not damaged.



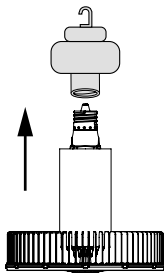
5. Disconnect wires from Ballast as shown.



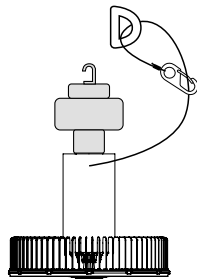
6. Connect Hot (100VAC-277VAC) to black wire and Neutral to white wire connected to socket.



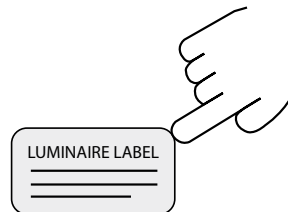
7. Install Valto Hybrid LED Lamp.



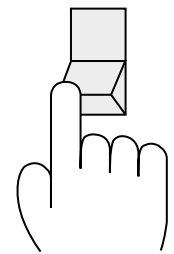
8. Attach safety harness.



9. Apply re-lamping label on a visible location outside the fixture.



10. Turn power on.



WARNING -

RISK OF FIRE OR ELECTRIC SHOCK. LED RETROFIT KIT INSTALLATION REQUIRES KNOWLEDGE OF LUMINAIRE'S ELECTRICAL SYSTEM. IF NOT QUALIFIED, DO NOT ATTEMPT INSTALLATION. CONTACT A QUALIFIED ELECTRICIAN.

WARNING -

THIS KIT IS ONLY SUITABLE TO RETROFIT CEILING-MOUNTED SURFACE AND CEILING-MOUNTED DEPENDENT HID LUMINAIRES, THE MINIMUM LAMP COMPARTMENT DIMENSIONS OF THE LUMINAIRE IS 569 MM (W) X 569 MM (L) X 326 MM (H). SUITABLE FOR ENCLOSED TYPE LUMINAIRE FOR 135W AND 200W, SUITABLE FOR OPEN TYPE LUMINAIRE ONLY FOR 240W/280W ", OR THE EQUIVALENT

WARNING -

RISK OF FIRE OR ELECTRIC SHOCK. INSTALL THIS KIT ONLY IN LUMINAIRES THAT HAVE THE CONSTRUCTION FEATURES AND DIMENSIONS SHOWN IN PRODUCT SPECIFICATION SHEET AND/OR DRAWINGS AND WHERE THE INPUT RATING OF THE RETROFIT KIT DOES NOT EXCEED THE INPUT RATING OF THE LUMINAIRE.

WARNING -

DO NOT MAKE OR ALTER ANY OPEN HOLES IN AN ENCLOSURE OF WIRING OR ELECTRICAL COMPONENTS DURING KIT INSTALLATION.

WARNING -

TO PREVENT WIRING DAMAGE OR ABRASION, DO NOT EXPOSE WIRING TO EDGES OF SHEET METAL OR OTHER SHARP OBJECTS.

WARNING -

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.

WARNING -

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.

WARNING -

THIS LAMP IS NOT INTENDED FOR USE WITH EXTERNAL LED DRIVER. LAMP INSTALLATION WITH EXTERNAL DRIVER VOIDS THE PRODUCT WARRANTY.

WARNING -

FOR LAMPS WITH A WEIGHT SIGNIFICANTLY HIGHER THAN THAT OF THE LAMPS FOR WHICH THEY ARE A REPLACEMENT, ATTENTION SHOULD BE DRAWN TO THE FACT THAT THE INCREASED WEIGHT MAY REDUCE THE MECHANICAL STABILITY OF CERTAIN LUMINAIRES AND LAMPHOLDERS AND MAY IMPAIR CONTACT MAKING AND LAMP RETENTION.

CAUTION -

DO NOT INSTALL THIS LAMP TO LINE VOLTAGE ABOVE 480VAC. THIS LAMP SUPPORTS 120VAC - 480VAC VOLTAGE RANGE. BALLAST OPERATION NOT COMPATIBLE WITH CONTROLS.

CAUTION -

WARNING CUL-

RISK OF FIRE OR ELECTRIC SHOCK. INSTALL THIS KIT ONLY IN THE LUMINAIRE THAT HAS 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

WARNING CUL-

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.