



## Ballast Compatibility List and Guide – Eco-Fit T8 Tube Lamps

This list provides the known and tested compatible ballasts for Revolution Lighting Eco-Fit LED T8 Tube Lamps. Please read all notes and information after each table and at the end of this document.

**IMPORTANT!** Please verify that your ballast is on the most recent version of this list at [www.rvlti.com](http://www.rvlti.com) **BEFORE** installation.

### Ballast Compatibilities for Eco-Fit T8 Tube Lamps<sup>1, 2, 3, 4</sup> (Subject to Change)

Ballast Model No.	Correct Number of Tube Lamps	Start Type	Eco-Fit T8 Compatibility
			7.5W, 9.5W, 10W, 12W & 14W T8s <i>Applicable SKUs: 202620-11X, 203620-11X, 204620-11X, 204621-11X &amp; 204622-11X</i>
<b>General Electric</b>			
GE132MAX-L/ULTRA	1	ISE	YES
GE132MAX-N/ULTRA	1	ISE	YES
GE-132-MV-N	1	ISE	YES
GE232MAX-L/ULTRA	2	ISE	YES
GE232MAXP-N+	2	ISE	YES
GE232MAXP-L/ULTRA	2	ISE	YES
GE232MAX-G-L	2	ISE	YES
GE232MAXP-N/ULTRA	2	ISE	YES
GE232MV-H	2	ISE	YES
GE232MAX-G-N-42T	2	ISE	YES
GE232MAX-N/ULTRA	2	ISE	YES
GE232MAX-L/ULTRA	2	ISE	YES
GE232MAXP-H/ULTRA	2	ISE	YES
GE332MAX-L/Ultra	3	ISE	YES
GE332MAX-N/Ultra	3	ISE	YES
GE332MAXP-H/ULTRA	3	ISE	YES
GE332MV-H	3	ISE	YES
GE332MAX-G-L	3	ISE	YES
GE332MAX-G-N	3	ISE	YES
GE332MAX-N+/ULTRA	3	ISE	YES
GE432MAXP-L/ULTRA	4	ISE	YES
GE432MAXP-N/ULTRA	4	ISE	YES
GE432MAX-G-N	4	ISE	YES
GE432MV-L	4	ISE	YES
GE432MAXP-H/ULTRA	4	ISE	YES
<b>Osram</b>			
QHE 1x32T8/UNV ISL-SC	1	ISE	YES
QHE 1X32T8/UNV ISN-SC	1	ISE	YES

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QHE 1X32T8/UNV ISN-SC-1	1	ISE	YES
QHE 2X32T8/UNV ISL-SC-1	2	ISE	YES
QHE 2x32T8/UNV ISH-SC	2	ISE	YES
QHE 2x32T8/UNV ISN-SC-1	2	ISE	YES
QHE 2x32T8/UNV ISH HT SC	2	ISE	YES
QTP 2x32T8/UNV ISN-SC	2	ISE	YES
QTP 2x32T8/UNV ISL-SC	2	ISE	YES
QHE 3x32T8/UNV ISN-SC-1	3	ISE	YES
QHE 3x32T8/UNV ISL-SC-1	3	ISE	YES
QTP 3x32T8/UNV ISH-SC	3	ISE	YES
QHE 3X32T8/UNV ISL-SC	3	ISE	YES
QHE 3X32T8/UNV ISN-SC	3	ISE	YES
QHE 3X32T8/UNV ISH-SC	3	ISE	YES
QTP 3X32T8/UNV ISL-SC	3	ISE	YES
QHE 4X32T8/UNV ISN-SC	4	ISE	YES
QHE 4X32T8/UNV ISN-SC-1	4	ISE	YES
QHE 4x32T8/UNV ISN-SC-1	4	ISE	YES
QHE 4x32T8/UNV ISL-SC-1	4	ISE	YES
QTP 4x32T8/UNV ISN-SC	4	ISE	YES
<b>Philips Advance</b>			
ICN-1P32-N	1	ISE	YES
IOPA-1P32-N	1	ISE	YES
IOPA-1P32-LW-N	1	ISE	YES
IOP-2P32HL-SC	2	ISE	YES
IOP-2P32-SC	2	ISE	YES
ICN-2P32-N	2	ISE	YES
ICN-2P16-TLED-N	2	ISE	YES
IOP-2P32-HL-N	2	ISE	YES
IOP-3P32-LW-N	3	ISE	YES
IOPA-3P32-LW-N	3	ISE	YES
ICN-3P32-N	3	ISE	YES
IOP-3P32-N	3	ISE	YES
ICN-4P32-N	4	ISE	YES
IOP-4P32-LW-N	4	ISE	YES
IOPA-3P32-LW-N	4	ISE	YES
IOP-3P32HL-90C-SC	4	ISE	YES
IOPA-4P32-LW-N	4	ISE	YES
ICN-4P16-TLED-N	4	ISE	YES
IOP-4P32-LW-N	4	ISE	YES
IOP-4P32-HL-SC	4	ISE	YES
IOPA-4P32-N	4	ISE	YES
IOPA-4P32-SC	4	ISE	YES
<b>Universal</b>			

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B132IUNVHP-N	1	ISE	YES
B132IUNVEL-N	1	ISE	YES
B232IUNVEL-N	2	ISE	YES
B232IUNVHE-N	2	ISE	YES
B232IUNVHP-N	2	ISE	YES
B332IUNVHE-A	3	ISE	YES
B432IUNVHE-A	4	ISE	YES

**NOTES:**

ISE = Instant-Start Electronic Ballast

YES = Tested and Compatible

NO = Not Compatible

<sup>1</sup> Compatibility in Revolution Lighting's in-house testing does not guarantee compatibility in the end user's application. These ballast listings are intended only as recommendations and do not guarantee reliability or longevity. As always, Revolution Lighting products should be installed in their actual intended fixture/area for final verification of operation and performance.

<sup>2</sup> Please note that programmed-start electronic ballasts are inherently less predictable than the instant-start counterparts listed here. Programmed-start electronic ballasts are not recognized or recommended by DesignLights Consortium (DLC). As always, Revolution Lighting products should be installed in their actual intended fixture/area for final verification of operation and performance.

<sup>3</sup> Residential ballast product: Such ballasts often show lower power factors and higher harmonic distortion values than the commercial-grade ballasts. It is the responsibility of the end user to determine if these ballasts will meet their requirements. As always, Revolution Lighting products should be installed in their actual intended fixture/area for final verification of operation and performance.

<sup>4</sup> High temperature ballast product: These ballasts are constructed to withstand higher ambient temperatures. It is the responsibility of the end user to ensure that they do not exceed the temperature ratings of both the ballast and tube lamp. Revolution Lighting will not be responsible for any damages related to using our tube lamps in an excessively high-temperature atmosphere. As always, Revolution Lighting products should be installed in their actual intended fixture/area for final verification of operation and performance.

Several factors can adversely affect actual ballast performance, including ballast condition, wiring/socket condition, power supply instability, power switch type, installation situation, ambient temperature, and vibration. The quality of the main power supplied to the region/facility/room/area, existing wiring and installation, and varying production versions of the above listed ballasts may affect ballast/lamp performance. As always, Revolution Lighting products should be installed in their actual intended fixture/area for final verification and approval of operation and performance.

When checking ballasts on this compatibility list, ensure that the EXACT model number on the ballast matches the listed Ballast Model No. EXACTLY. A single different letter or digit can signify completely different functionality and compatibility. The presence of a ballast in these tables is not a guarantee or warranty of the compatibility of the LED lamp/luminaire in any particular installation. Incompatibility of ballasts not listed in these tables should not be assumed. If an intended ballast is not listed in the tables above, contact your Revolution Lighting representative to request specific ballast compatibility testing.

Please refer to the ballast manufacturer's specifications and installation instructions for additional information.

Please refer to the "Important Safeguards for Pre-Installation, Installation, and Post-Installation of All Revolution Lighting Ballast-Ready Tube Lamps" section below for additional information about system safety and performance.

**TESTING NOTE:**

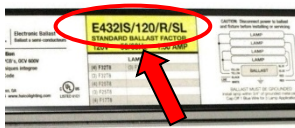
Revolution Lighting's in-house compatibility testing is conducted in a controlled laboratory environment utilizing basic on/off switching and 24 - 72 hour longevity tests. During this time we collect electrical and thermal measurements to determine the overall stress on the ballast and on our tube lamps. From these data, we determine whether the ballast-lamp relationship is efficient, reliable, and safe. Several factors can adversely affect actual ballast performance, including ballast condition, wiring/socket condition, power supply instability, power switch type, installation situation, ambient temperature, and vibration.

## Important Safeguards for Pre-Installation, Installation, and Post-Installation of All Revolution Lighting Ballast-Ready Tube Lamps

**Please read the following safeguards to be taken before, during, and after installation.**

### CHECK BALLAST COMPATIBILITY

Before installing any Eco-Fit Tube Lamps, Revolution Lighting strongly suggests replacing all ballasts with new ballasts that have been tested and listed on the Revolution Lighting Ballast Compatibility List. The latest compatibility list can be found here: <http://rvlti.com/support.php#Eco-Fit-Ballast-Compatibility-List>.



If full ballast replacement is not possible, EACH AND EVERY ballast at the job site must be checked to ensure that it has been tested and is listed on the Revolution Lighting Ballast Compatibility List prior to the installation of the Eco-Fit Tube Lamps. Therefore, ballasts ideally should be checked during the initial sales audit/quoting phase or during the installation phase of the project. Ballasts that are three (3) years old or older should be replaced with new compatible ballasts.

### TURN POWER OFF WHEN INSTALLING LED TUBES



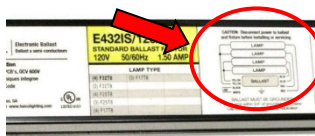
Before installing Revolution Lighting Eco-Fit Tube Lamps, **ALWAYS ENSURE THAT THE POWER TO THE FIXTURE (BALLAST) IS OFF BEFORE AND DURING THE INSTALLATION** of any Revolution Lighting Eco-Fit Tube Lamps or other products. Remove and replace ALL tubes in the fixture before turning power to the fixture (ballast) back ON. **NO HOT SWAPPING!** Failure to have the power OFF will void the Eco-Fit Tube Lamp warranty.

### USE CORRECT NUMBER OF TUBES



Before installing Revolution Lighting Eco-Fit Tube Lamps, ensure that the number of tubes installed in the fixture matches the allowable number of tubes as printed on the ballast. **DO NOT DE-LAMP THE FIXTURE AND INSTALL FEWER THAN THE NUMBER OF LED TUBES INTENDED.**

For example, if the ballast is made to handle 4 tubes, ensure that 4 LED tubes are installed. If fewer than 4 tubes are needed, install an appropriate ballast for that number of tubes.



### FOLLOW WIRING DIAGRAM EXACTLY

Before buying and installing Revolution Lighting Eco-Fit Tube Lamps, check the configuration and condition of the fixture wiring. Ensure that the wiring configuration used matches the appropriate wiring diagram

printed on the ballast to be used **EXACTLY**. Revolution Lighting strongly suggests replacing ALL of the wiring in the fixture if any wires are damaged or in poor condition.

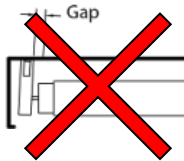
#### REPLACE SOCKETS



Revolution Lighting strongly suggests replacing ALL of the sockets in the fixture using the appropriate size and style to match the fixture and ballast type in order to avoid any complications or failures due to damaged or fatigued sockets.

If full replacement of all sockets is not possible, check the condition of the fixture sockets (tombstones) BEFORE buying and installing Eco-Fit Tube Lamps. Any damaged or defective sockets MUST be replaced prior to installing Eco-Fit Tube Lamps.

#### ENSURE GOOD FIT AND CONTACT IN SOCKETS



When installing Eco-Fit Tube Lamps, install the lamp properly so that it is fully seated in its proper orientation (see diagram below). Ensure that there is no gap between the tube lamp and the socket and that the sockets are not pushed outward after the tube is installed.

Failure to ensure proper installation and contact may lead to poor contact, which may generate high-voltage arcing between the tube's bi-pins and the copper contacts inside the socket.



**WARNING – High-voltage arcing from poor contact can generate high heat that could potentially lead to melting and charring of the socket or tube damage! Always ensure that the tubes fit properly in the fixture and sockets before restoring power to the fixture!**



CORRECT



WRONG



WRONG