



Ballast Compatibility List and Guide – Uni-Fit T8 Tube Lamps

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


IMPORTANT! You **MUST** verify that your ballast is on the **most recent version** of this list at www.rvlti.com **BEFORE** installation! Please also go to the “Important Safeguards for Pre-Installation, Installation, and Post-Installation of All Revolution Lighting Ballast-Ready Tube Lamps” section at the later in this document for important information and requirements that can affect warranty claims for your product if they are not followed!

Ballast Compatibility for Uni-Fit T8 Tube Lamps – Recommended Ballasts (Subject to Change)

 Uni-Fit T8 Tube Recommended Ballasts	Uni-Fit Tube	Ballast Manufacturer	Ballast Model No.	Correct Number of Tube Lamps	Start Type	Power Level
	T8s Applicable SKU Family: 202220-XXX, 203220-XXX, 204220-XXX, & 204221-XXX	General Electric	GE132MAX-N/ULTRA	1	ISE	Normal
		General Electric	GE232MAXP-N/ULTRA	2	ISE	Normal
		General Electric	GE332MAX-N/ULTRA	3	ISE	Normal
		General Electric	GE432MAXP-N/ULTRA	4	ISE	Normal

 U-Bent Tube Recommended Ballasts	Uni-Fit Tube	Ballast Manufacturer	Ballast Model No.	Correct Number of Tube Lamps	Start Type	Power Level
	U-Bent Applicable SKU Family: 207280-11X	General Electric	GE132MAX-N/ULTRA	1	ISE	Normal
Sylvania		QHE 2x32T8/UNV ISN-SC	2	ISE	Normal	

Ballast Compatibility for Uni-Fit T8 Tube Lamps – Recommended DIMMABLE Ballasts for Popular Four Foot Tubes (Subject to Change)

 Uni-Fit T8 Tube Recommended Dimmable Ballasts	Uni-Fit Tube	Ballast Manufacturer	Ballast Model No.	Correct Number of Tube Lamps	Start Type	Power Level
	T8s Applicable SKU Family: 204220-XXX and 204221-XXX	General Electric	GE132MVPS-N-V03 [®]	1	PSE ²	Normal
		General Electric	GE232MVPS-N-V03 [®]	2	PSE ²	Normal
		General Electric	GE332MVPS-N-V03 [®]	3	PSE ²	Normal
		General Electric	GE432MVPS-N-V03 [®]	4	PSE ²	Normal

Ballast Compatibilities for Uni-Fit T8 Tube Lamps – Complete List (Subject to Change)

Ballast Model No.	Correct Number of Tube Lamps	Start Type	Power Level	Uni-Fit T8 Compatibility	Uni-Fit U-Bent Compatibility
				7.5W, 9W, 12W, & 14W T8s <i>Applicable SKUs: 202220-XXX, 203220-XXX, 204220-XXX, & 204221-XXX</i>	12W U-Bent <i>Applicable SKUs: 207280-11X</i>
Accupro					
AP-RC-232IP-120-1 ⁴	2	ISE	Normal	YES	YES
AK-RC-432IP-120 ⁴	4	ISE	Normal	YES	YES
Fulham					
WHSG3-UNV-T8-IS	3	ISE	Normal +	YES	NO
General Electric					
GE132MAX-L/ULTRA	1	ISE	Low	YES	YES
GE132MAXP-L/ULTRA	1	ISE	Low	YES	NO
GE132MAX-N/ULTRA	1	ISE	Normal	YES	YES
GE132MAX-H/Ultra	1	ISE	High	YES	NO
GE-132-MV-N	1	ISE	Normal	YES	YES
GE132MAX-G-N	1	ISE	Normal	YES	NO
GE-132-MV-PS-L	1	PSE ²	Low	YES	NO
GE-132-MV-PS-N	1	PSE ²	Normal	YES	NO
GE132-MVPS-H	1	PSE ²	High	YES	NO
GE-132-MV-PS-H	1	PSE ²	High	YES	NO
GE132MAX-G-347	1	ISE - HiVolt	Normal	YES	NO
GE132-N-347	1	ISE - HiVolt	Normal	YES	NO
GE132MVPS-N-V03 ⁶	1	PSE ²	Normal	YES	NO
GE232MAX-L/ULTRA	2	ISE	Low	YES	YES
GE232MAXP-L/ULTRA	2	ISE	Low	YES	NO
GE232MAX-N/ULTRA	2	ISE	Normal	YES	NO
GE232MAXP-N/ULTRA	2	ISE	Normal	YES	NO
GE232MAXP-N+	2	ISE	Normal +	YES	YES
GE232MAX347-N	2	ISE - HiVolt	Normal	YES	YES
GE232MAX-G-347	2	ISE - HiVolt	Normal	YES	NO
GE232-N-347	2	ISE - HiVolt	Normal	YES	NO
GE232MAXP480-H	2	ISE - HiVolt	High	YES	NO
GE232MAX-G-L	2	ISE	Low	YES	NO
GE232MAX-G-N-42T	2	ISE	Normal	YES	NO
GE-232-MV-PS-N	2	PSE ²	Normal	YES	NO
GE-232-MV-PS-H	2	PSE ²	High	YES	NO
GE-232-MVPS-XL	2	PSE ²	Extra Low	YES	NO
GE-232-MV-PS-L	2	PSE ²	Low	YES	NO
GE232MVPS-N-V03 ¹	2	PSE ²	Normal	YES	NO
GE232MVPSH-V03 ⁶	2	PSE ²	High	YES	NO
GE332MAX-L/ULTRA	3	ISE	Low	YES	NO
GE332MAX-N/ULTRA	3	ISE	Normal	YES	NO



Ballast Model No.	Correct Number of Tube Lamps	Start Type	Power Level	Uni-Fit T8 Compatibility	Uni-Fit U-Bent Compatibility
				7.5W, 9W, 12W, & 14W T8s <i>Applicable SKUs: 202220-XXX, 203220-XXX, 204220-XXX, & 204221-XXX</i>	12W U-Bent <i>Applicable SKUs: 207280-11X</i>
GE332MAXP-H/ULTRA	3	ISE	High	YES	NO
GE332MV-H	3	ISE	High	YES	YES
GE332MAX347-N	3	ISE - HiVolt	Normal	YES	NO
GE332MAXP480-H	3	ISE - HiVolt	High	YES	NO
GE332MAX-G-L	3	ISE	Low	YES	NO
GE332MAX-G-N	3	ISE	Normal	YES	NO
GE-332-MVPS-XL	3	PSE ²	Extra Low	YES	NO
GE332-MVPS-L	3	PSE ²	Low	YES	NO
GE332-MVPS-N	3	PSE ²	Normal	YES	NO
GE332MVPS-N-V03 ⁶	3	PSE ²	Normal	YES	NO
GE332MVPSH-V03 ⁶	3	PSE ²	High	YES	NO
GE432MAXP-L/ULTRA	4	ISE	Low	YES	NO
GE432MAXP-N/ULTRA	4	ISE	Normal	YES	NO
GE432MV-L	4	ISE	Low	YES	NO
GE432MAX-G-N	4	ISE	Normal	YES	NO
GE432-MVPS-L	4	PSE ²	Low	YES	NO
GE432-MVPS-N	4	PSE ²	Normal	YES	NO
GE432MVPS-H	4	PSE ²	High	YES	NO
GE432MAX-G-347	4	ISE - HiVolt	Normal	YES	NO
GE432-N-347	4	ISE - HiVolt	Normal	YES	NO
GE432PS347-N	4	PSE ² - HiVolt	Normal	YES	NO
GE432MAX480-H	4	ISE - HiVolt	High	YES	NO
GE432MVPS-N-V03 ⁶	4	PSE ²	Normal	YES	NO
GE432MVPSH-V03 ⁶	4	PSE ²	High	YES	NO
GE432MVPSN-V03W ¹	4	PSE ²	Normal	YES	NO
Howard					
EP2/32IS/MV/MC/HE	2	ISE	Normal	YES	YES
Keystone					
KTEB-232-UV-IS-N-P	2	ISE	Normal	YES	NO
KTEB-332-UV-IS-N-P	3	ISE	Normal	YES	NO
KTEB-432-UV-IS-N-P	4	ISE	Normal	YES	NO
KTEB-432RIS-1-TP/INB ⁴	4	ISE	Normal	YES	NO
LumaPro					
EB-232IS-120-PFC ⁴	2	ISE	Normal	YES	NO
Sylvania					
QHE 1x32T8/UNV ISL-SC	1	ISE	Low	YES	YES
QHE 1x32T8/UNV ISN-SC	1	ISE	Normal	YES	YES
QHE 1X32T8/UNV ISN-SC-1	1	ISE	Normal	YES	NO
QTP 1X32T8/UNV ISL-SC	1	ISE	Low	YES	NO
QTP 1x32T8/UNV ISN-SC	1	ISE	Normal	YES	NO
QTP 1X32T8/UNV PSX-TC	1	PSE ²	Extra Low	YES	NO
QHE 1x32T8/UNV PSX-MC	1	PSE ²	Extra Low	YES	NO
QHE 1x32T8/UNV PSN-MC	1	PSE ²	Normal	YES	NO

Ballast Model No.	Correct Number of Tube Lamps	Start Type	Power Level	Uni-Fit T8 Compatibility	Uni-Fit U-Bent Compatibility
				7.5W, 9W, 12W, & 14W T8s <i>Applicable SKUs: 202220-XXX, 203220-XXX, 204220-XXX, & 204221-XXX</i>	12W U-Bent <i>Applicable SKUs: 207280-11X</i>
QHE 2x32T8/UNV ISL-SC	2	ISE	Low	YES	YES
QHE 2x32T8/UNV ISL-SC-1	2	ISE	Low	YES	NO
QHE 2x32T8/UNV ISN-SC	2	ISE	Normal	YES	YES
QHE 2x32T8/UNV ISN-SC-1	2	ISE	Normal	YES	NO
QHE 2X32T8/UNV ISH HT SC ⁵	2	ISE	High	YES	NO
QHE 2X32T8/347 ISN-SC	2	ISE - HiVolt	Normal	YES	NO
QTP 2x32T8/UNV ISL-SC	2	ISE	Low	YES	NO
QTP 2x32T8/UNV ISN-SC	2	ISE	Normal	YES	YES
QHE 2x32T8/UNV PSX-MC	2	PSE ²	Extra Low	YES	NO
QHE 2x32T8/UNV PSN-MC	2	PSE ²	Normal	YES	NO
QHES 2x32T8/UNV PSN-SC	2	PSE ²	Normal	YES	NO
QHE 2x32T8/UNV PSH-HT ⁵	2	PSE ²	High	YES	NO
QHE 3x32T8/UNV ISL-SC	3	ISE	Low	YES	NO
QHE 3x32T8/UNV ISL-SC-1	3	ISE	Low	YES	NO
QHE 3x32T8/UNV ISN-SC	3	ISE	Normal	YES	NO
QHE 3x32T8/UNV ISN-SC-1	3	ISE	Normal	YES	NO
QHE 3x32T8/UNV ISH-SC	3	ISE	High	YES	NO
QTP 3x32T8/UNV ISL-SC	3	ISE	Low	YES	NO
QTP 3x32T8/UNV ISN-SC	3	ISE	Normal	YES	NO
QTP 3x32T8/UNV ISH-SC	3	ISE	High	YES	NO
QHE 3x32T8/UNV PSN-SC	3	PSE ²	Normal	YES	NO
QHE 4x32T8/UNV ISL-SC	4	ISE	Low	YES	NO
QHE 4x32T8/UNV ISL-SC-1	4	ISE	Low	YES	NO
QHE 4x32T8/UNV ISN-SC	4	ISE	Normal	YES	NO
QHE 4x32T8/UNV ISN-SC-1	4	ISE	Normal	YES	NO
QHE 4x32T8/UNV ISH-SC	4	ISE	High	YES	NO
QHE 4x32T8/UNV ISH	4	ISE	High	YES	NO
QTP 4X32T8/UNV ISN-SC	4	ISE	Normal	YES	NO
QHE 4x32T8/UNV PSX-SC	4	PSE ²	Extra Low	YES	NO
QHE 4x32T8/UNV PSN-SC	4	PSE ²	Normal	YES	NO
QHE 4x32T8/UNV PSH-HT ⁵	4	PSE ²	High	YES	NO
QHE 4x32T8/347 ISL-SC	4	ISE	Low	YES	NO
Philips Advance					
ICN-1P32-N ³	1	ISE	Normal	YES	YES
IOPA-1P32-LW-N ³	1	ISE	Low	YES	NO
IOPA-1P32-N ³	1	ISE	Normal	YES	NO
IOP-1PSP32-N ³	1	PSE ²	Normal	YES	NO
IZT-132-SC	1	PSE	High	YES	NO
IOPA-2P32-LW-N ³	2	ISE	Low	YES	NO
IOP-2P32-HL-SC ³	2	ISE	High	YES	NO
IOP-2P32-SC ³	2	ISE	Normal	YES	NO
ICN-2P32-N ³	2	ISE	Normal	YES	YES

Ballast Model No.	Correct Number of Tube Lamps	Start Type	Power Level	Uni-Fit T8 Compatibility	Uni-Fit U-Bent Compatibility
				7.5W, 9W, 12W, & 14W T8s <i>Applicable SKUs: 202220-XXX, 203220-XXX, 204220-XXX, & 204221-XXX</i>	12W U-Bent <i>Applicable SKUs: 207280-11X</i>
ICN-2M32-MC ³	2	ISE	Normal	YES	NO
Izt-2S32-SC	2	PSE	High	YES	NO
IOP-3P32-LW-N ³	3	ISE	Low	YES	NO
IOPA-3P32-LW-N ³	3	ISE	Low	YES	NO
IOP-3P32-N ³	3	ISE	Normal	YES	NO
ICN-3P32-SC ³	3	ISE	Normal	YES	NO
IOP-3PSP32-SC ³	3	PSE ²	Normal	YES	NO
IOP-4PSP32-LW-SC ³	4	PSE ²	Low	YES	NO
ICN-4P32-N ³	4	ISE	Normal	YES	NO
IOP-4P32-LW-N ³	4	ISE	Low	YES	NO
IOP-4PSP32-SC ³	4	PSE ²	Normal	YES	NO
IOPA-4P32-LW-N ³	4	ISE	Low	YES	NO
IOPA-4P32-N ³	4	ISE	Normal	YES	NO
Universal					
B132IUNVHP-N	1	ISE	Normal	YES	YES
B132IUNVHE-N	1	ISE	Normal	YES	NO
B132IUNVEL-N	1	ISE	Low	YES	NO
B132PUNVHP-A	1	PSE ²	Normal	YES	NO
B232IUNVEL-N	2	ISE	Low	YES	NO
B232IUNVHE-N	2	ISE	Normal	YES	NO
B232IUNVHP-N	2	ISE	Normal	YES	YES
B232PU104S50A ⁷	2	PSE ²	High	YES	NO
B332IUNVEL-A	3	ISE	Low	YES	NO
B332IUNVHP-A	3	ISE	Normal	YES	NO
B332PUNVHP-A	3	PSE ²	Normal	YES	NO
B432IUNVEL-A	4	ISE	Low	YES	NO
B432IUNVHE-A	4	ISE	Normal	YES	NO

NOTES:

ISE = Instant-Start Electronic Ballast

PSE = Programmed-Start Electronic Ballast

YES = Tested and Compatible

NO = Not Compatible

Yellow Row Highlight = Dimmable Ballast; check specific compatibility in footnotes

¹ Dimmable ballast product: special dimmers, such as "0-10V" or "Mk.10 Powerline" units may be required for proper functionality. It is the end user's responsibility to determine the correct dimmer type for use with their particular ballast according to the ballast manufacturer's recommendations. As always, Revolution Lighting products should be installed in their actual intended fixture/area for final verification of operation and performance.

² Please note that programmed-start electronic ballasts are inherently less predictable than their instant-start counterparts. As such, 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. 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.

³ If using this ballast, the end user may experience a slight buzzing/humming on start-up and/or in regular use. As always, Revolution Lighting products should be installed in their actual intended fixture/area for final verification of operation and performance.

⁴ Residential ballast product: these 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.

⁵ 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.

⁶ Revolution Lighting compatibility testing has been performed and confirmed with the 4' 12W (SKU 204220-XXX) and 14W (SKU 204221-XXX) tubes only. "0-10V" dimmer is required for proper functionality. It is the end user's responsibility to determine the correct dimmer type for use with their particular ballast according to the ballast manufacturer's recommendations. As always, Revolution Lighting products should be installed in their actual intended fixture/area for final verification of operation and performance.

⁷ This is a STEP-DIMMING ballast. Revolution Lighting compatibility testing has been performed and confirmed with the 4' 12W (SKU 204220-XXX) and 14W (SKU 204221-XXX) tubes only. It is the end user's responsibility to determine the correct dimmer type for use with their particular ballast according to the ballast manufacturer's recommendations. As always, Revolution Lighting products should be installed in their actual intended fixture/area for final verification of operation and performance.

GENERAL NOTE - 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.

GENERAL NOTE - 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.

GENERAL NOTE - 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.

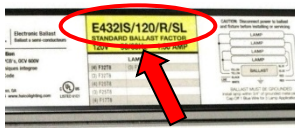
TESTING NOTE - Revolution Lighting's in-house compatibility testing is conducted in a controlled laboratory environment utilizing basic on/off switching and 24 - 72 hour longevity tests. During this time we collect electrical and thermal measurements to determine the overall stress on the ballast and 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 Uni-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#Uni-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 Uni-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 Uni-Fit Tube Lamps, **ALWAYS ENSURE THAT THE POWER TO THE FIXTURE (BALLAST) IS OFF BEFORE AND DURING THE INSTALLATION** of any Revolution Lighting Uni-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 Uni-Fit Tube Lamp warranty.

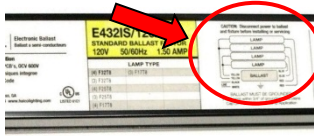
USE CORRECT NUMBER OF TUBES



Before installing Revolution Lighting Uni-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 Uni-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.

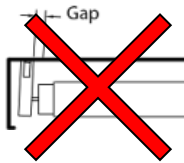
REPLACE SOCKETS



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 Uni-Fit Tube Lamps. Any damaged or defective sockets MUST be replaced prior to installing Uni-Fit Tube Lamps.

ENSURE GOOD FIT AND CONTACT IN SOCKETS



When installing Uni-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