

Magic Direct Replacement Ballast Compatible LED Tube

**There is a Magic Tube!
Works like Magic!**

Brief Description

The Magic T8 LED tube is UL & ETL listed and can work with specific T8 electronic start ballasts. This T8 tube also can work without a ballast when wired directly to AC100-277V input.



Advantage

This tube can work both with ballast or without ballast. It is a fantastic direct replacement tube as well as a retrofit kit.

Compatible with more than 90 percent of electronic ballasts in the North American market.

The wattages and Lumens for the tube itself work with the ballast and without the ballast. It is perfect for big projects which have different types of ballasts.

Input voltage can be AC100-277V with ballast and AC100-277 without ballast.

Reduces energy consumption up to 40%.

No UV emission.

Suitable for dry and damp environments.

T8 housing available.

UL and ETL Qualified.

Common Technical Data

Color Temperature	3000K to 5000K	Input Voltage with ballast	100-277VAC
Beam Angle	120 degree	Input Voltage without ballast	100-277VAC
Color Consistency	4 steps	Frequency	50-60Hz
CRI	More than 80	Power Factor	More than 0.99
Operation Temperature	-30-40C	Rated Life	50000 hours
Efficiency with ballast	More than 110 LPW	Led Type	SMT 2835
Efficiency without ballast	More than 125 LPW	Housing	Aluminum

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Product Specification

Product Number	Qualification	Length	Watt	CCT	Lumens	Package (in)	Weight/Carton
ZY-T8-18W1200 BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL and DLC	4ft	18W	3000K	2160	50"x10"x9" 30 pcs/Carton	22 lbs
ZY-T8-18W1200 BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL and DLC	4ft	18W	4000K	2160	50"x10"x9" 30 pcs/Carton	22 lbs.
ZY-T8-18W1200 BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL and DLC	4ft	18W	5000K	2160	50"x10"x9" 30 pcs/Carton	22 lbs.
ZY-T8-15W1200 BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL and DLC	4ft	15W	3000K	1800	50"x10"x9" 30 pcs/Carton	22 lbs.
ZY-T8-15W1200 BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL and DLC	4ft	15W	4000K	1800	50"x10"x9" 30 pcs/Carton	22 lbs.
ZY-T8-15W1200 BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL and DLC	4ft	15W	5000K	1800	50"x10"x9" 30 pcs/Carton	22 lbs.
ZY-T8-15W600 BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL and DLC	2ft	15W	3000K	1800	26"x10"x9" 30 pcs/Carton	18 lbs.
ZY-T8-15W600 BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL and DLC	2ft	15W	4000K	1800	26"x10"x9" 30pcs/Carton	18 lbs.
ZY-T8-15W600 BIXXBALLAST COMPATIBLE TUBE	UL,cUL,ETL and DLC	2ft	15W	5000K	1800	26"x10"x9" 30 pcs/Carton	18 lbs.
ZY-T8-15W900 BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL	3ft	15W	4000K	1800	38"x10"x9" 30 pcs/Carton	20 lbs.
ZY-T8-18W1500 BIXX BALLAST COMPATIBLE TUBE	ETL	5ft	18W	4000K	2160	62"x10"x9" 30 pcs/Carton	28 lbs.
ZY-T8-15W600U BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL	2ft	15W	4000K	1800	24"x16"x9" 10pcs/Carton	14 lbs.

* The wattage for tube itself w/ ballast and without ballast will be same. Lumens per watt will be almost 10 percent less with ballast

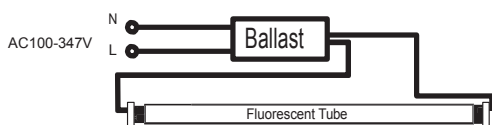
Ordering Guide

ZY	T8	18W/15W/13W	2/4	B	I	XX
Company Code	Housing Type	Wattage	Length	2835 Led	Internal Driver	Input Type

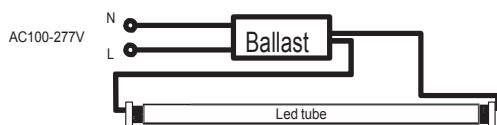
Installation Procedure

"Plug" and "Play" procedure

1. Turn off the power to the light fixture at the breaker panel before installation.
2. Open the diffuser from the light fixture.
3. Remove the fluorescent tubes. Please dispose of these items properly as they contain mercury.



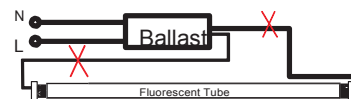
4. Put led tube into the lighting fixture.



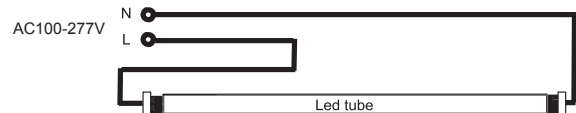
5. Install the LED tubes, close the diffuser.
6. Turn on the Power.

Retrofit procedure

1. Turn off the power to the light fixture at the breaker panel before installation.
2. Open the diffuser from the light fixture.
3. Remove the fluorescent tubes. Please dispose of these items properly as they contain mercury.
4. Cut the wires shown as the diagram below.



5. Make the new wire connect to branch circuit shown as the diagram below.
6. Replace the cover over the wiring channel..
7. Install the LED tubes, close the diffuser.



8. Turn on the Power.

* For one 4 tube fluorescent ballast, at least 3 ballast compatible tubes must be installed. For one 2 tube fluorescent ballast, at least 2 ballast compatible tubes must be installed.

Warranty

This product has a warranty of period of 5 years from the date of purchase. The warranty is invalid in the case of improper use installation, tampering, and removal of the Q.C. date label. installation in an improper working environment or installation not according to the current edition of the National Electric Code. Should this product fail during the warranty period it will be replaced free of charge, subject to correct installation and return of the faulty unit. James does not accept responsibility for any installation costs associated with the replacement of this product. This warranty is in addition to the statutory rights in your country of purchase. James reserves the right to alters specifications without prior notice.

Magic Ballast Compatible LED Tube

Tested Ballast List

Item	Manufacturer	Model	Type	Compatible
1	Philips-Advance	ICN-IP32-N	Instant Start Ballast	✓
2	Philips-Advance	ICN-2P32-N	Instant Start Ballast	✓
3	Philips-Advance	ICN-3P32-N	Instant Start Ballast	✓
4	Philips-Advance	ICN-4P32-N	Instant Start Ballast	✓
5	Philips-Advance	ICN-IP32-SC	Instant Start Ballast	✓
6	Philips-Advance	ICN-2P32-SC	Instant Start Ballast	✓
7	Philips-Advance	ICN-3P32-SC	Instant Start Ballast	✓
8	Philips-Advance	ICN-4P32-SC	Instant Start Ballast	✓
9	Philips-Advance	IOP-1P32-LW-SC	Instant Start Ballast	✓
10	Philips-Advance	IOP-2P32-LW-SC	Instant Start Ballast	✓
11	Philips-Advance	IOP-3P32-LW-SC	Instant Start Ballast	✓
12	Philips-Advance	IOP-4P32-LW-SC	Instant Start Ballast	✓
13	Philips-Advance	IOPA-1P32-LW-N	Instant Start Ballast	✓
14	Philips-Advance	IOPA-2P32-LW-N	Instant Start Ballast	✓
15	Philips-Advance	IOPA-3P32-LW-N	Instant Start Ballast	✓
16	Philips-Advance	IOPA-4P32-LW-N	Instant Start Ballast	✓
17	Philips-Advance	IOPA-1P32-N	Instant Start Ballast	✓
18	Philips-Advance	IOPA-2P32-N	Instant Start Ballast	✓
19	Philips-Advance	IOPA-3P32-N	Instant Start Ballast	✓
20	Philips-Advance	IOPA-4P32-N	Instant Start Ballast	✓
21	Philips-Advance	IOP-1P32-SC	Instant Start Ballast	✓
22	Philips-Advance	IOP-2P32-SC	Instant Start Ballast	✓
23	Philips-Advance	IOP-3P32-SC	Instant Start Ballast	✓
24	Philips-Advance	IOP-4P32-SC	Instant Start Ballast	✓
25	Philips-Advance	IOPA-1P32-HL-SC	Instant Start Ballast	✓
26	Philips-Advance	IOPA-2P32-HL-SC	Instant Start Ballast	✓
27	Philips-Advance	IOPA-3P32-HL-SC	Instant Start Ballast	✓
28	Philips-Advance	IOPA-4P32-HL-SC	Instant Start Ballast	✓
29	Philips-Advance	GOPA-1P32-SC	Instant Start Ballast	✓
30	Philips-Advance	GOPA-2P32-SC	Instant Start Ballast	✓
31	Philips-Advance	GOPA-3P32-SC	Instant Start Ballast	✓
32	Philips-Advance	GOPA-4P32-SC	Instant Start Ballast	✓
33	Philips-Advance	GOP-IPSP32-SC	Instant Start Ballast	✓
34	Philips-Advance	GOP-2PSP32-SC	Instant Start Ballast	✓
35	Philips-Advance	GOP-3PSP32-SC	Instant Start Ballast	✓
36	Philips-Advance	GOP-4PSP32-SC	Instant Start Ballast	✓

Item	Manufacturer	Model	Type	Compatible
37	Philips-Advance	GOPA-1P32-LW-SC	Instant Start Ballast	✓
38	Philips-Advance	GOPA-2P32-LW-SC	Instant Start Ballast	✓
39	Philips-Advance	GOPA-3P32-LW-SC	Instant Start Ballast	✓
40	Philips-Advance	GOPA-4P32-LW-SC	Instant Start Ballast	✓
41	SYLVANIA	QHE 1X32T8/UNV ISL-SC	Instant Start Ballast	✓
42	SYLVANIA	QHE 2X32T8/UNVISL-SC	Instant Start Ballast	✓
43	SYLVANIA	QHE 3X32T8/UNVISL-SC	Instant Start Ballast	✓
44	SYLVANIA	QHE 4X32T8/UNVISL-SC	Instant Start Ballast	✓
45	SYLVANIA	QHE 1X32T8/UNV ISN-SC	Instant Start Ballast	✓
46	SYLVANIA	QHE 2X32T8/UNV ISN-SC	Instant Start Ballast	✓
47	SYLVANIA	QHE 3X32T8/UNV ISN-SC	Instant Start Ballast	✓
48	SYLVANIA	QHE 4X32T8/UNV ISN-SC	Instant Start Ballast	✓
49	SYLVANIA	QHE 1X32T8/UNV ISH-SC	Instant Start Ballast	✓
50	SYLVANIA	QHE 2X32T8/UNV ISH-SC	Instant Start Ballast	✓
51	SYLVANIA	QHE 3X32T8/UNV ISH-SC	Instant Start Ballast	✓
52	SYLVANIA	QHE 4X32T8/UNV ISH-SC	Instant Start Ballast	✓
53	SYLVANIA	QTP 1X32T8/UNV ISL-SC	Instant Start Ballast	✓
54	SYLVANIA	QTP 2X32T8/UNV ISL-SC	Instant Start Ballast	✓
55	SYLVANIA	QTP 3X32T8/UNV ISL-SC	Instant Start Ballast	✓
56	SYLVANIA	QTP 4X32T8/UNV ISL-SC	Instant Start Ballast	✓
57	SYLVANIA	QTP 1X32T8/UNV ISN-SC	Instant Start Ballast	✓
58	SYLVANIA	QTP 2X32T8/UNV ISN-SC	Instant Start Ballast	✓
59	SYLVANIA	QTP 3X32T8/UNV ISN-SC	Instant Start Ballast	✓
60	SYLVANIA	QTP 4X32T8/UNV ISN-SC	Instant Start Ballast	✓
61	SYLVANIA	QTP 1X32T8/UNV ISH-SC	Instant Start Ballast	✓
62	SYLVANIA	QTP 2X32T8/UNV ISH-SC	Instant Start Ballast	✓
63	SYLVANIA	QTP 3X32T8/UNV ISH-SC	Instant Start Ballast	✓
64	SYLVANIA	QTP 4X32T8/UNV ISH-SC	Instant Start Ballast	✓
65	SYLVANIA	QHE 1X32T8/347 ISL-SC	Instant Start Ballast	✓
66	SYLVANIA	QHE 2X32T8/347 ISL-SC	Instant Start Ballast	✓
67	SYLVANIA	QHE 3X32T8/347 ISL-SC	Instant Start Ballast	✓
68	SYLVANIA	QHE 4X32T8/347 ISL-SC	Instant Start Ballast	✓
69	SYLVANIA	QHE 1X32T8/347 ISN-SC	Instant Start Ballast	✓
70	SYLVANIA	QHE 2X32T8/347 ISN-SC	Instant Start Ballast	✓
71	SYLVANIA	QHE 3X32T8/347 ISN-SC	Instant Start Ballast	✓
72	SYLVANIA	QHE 4X32T8/347 ISN-SC	Instant Start Ballast	✓
73	SYLVANIA	QTP 1X32T8/347 ISN-SC	Instant Start Ballast	✓
74	SYLVANIA	QTP 2X32T8/347 ISN-SC	Instant Start Ballast	✓
75	SYLVANIA	QTP 3X32T8/347 ISN-SC	Instant Start Ballast	✓
76	SYLVANIA	QTP 4X32T8/347 ISN-SC	Instant Start Ballast	✓

Item	Manufacturer	Model	Type	Compatible
77	GE	GE-132-MV-N	Instant Start Ballast	✓
78	GE	GE-232-MV-N	Instant Start Ballast	✓
79	GE	GE-332-MV-N	Instant Start Ballast	✓
80	GE	GE-432-MV-N	Instant Start Ballast	✓
81	GE	GE-132-MV-N-DIY	Instant Start Ballast	✓
82	GE	GE-232-MV-N-DIY	Instant Start Ballast	✓
83	GE	GE-332-MV-N-DIY	Instant Start Ballast	✓
84	GE	GE-432-MV-N-DIY	Instant Start Ballast	✓
85	GE	GE232MAX347-N	Instant Start Ballast	✓
86	GE	GE432MAX347-N	Instant Start Ballast	✓
87	GE	GE-132-MAX-N/Ultra	Instant Start Ballast	✓
88	GE	GE-232-MAX-N/Ultra	Instant Start Ballast	✓
89	GE	GE-332-MAX-N/Ultra	Instant Start Ballast	✓
90	GE	GE-432-MAX-N/Ultra	Instant Start Ballast	✓
91	GE	GE-132-MAX-L/Ultra	Instant Start Ballast	✓
92	GE	GE-232-MAX-L/Ultra	Instant Start Ballast	✓
93	GE	GE-332-MAX-L/Ultra	Instant Start Ballast	✓
94	GE	GE-432-MAX-L/Ultra	Instant Start Ballast	✓
95	GE	GE-132-MAX-H/Ultra	Instant Start Ballast	✓
96	GE	GE-232-MAX-H/Ultra	Instant Start Ballast	✓
97	GE	GE-332-MAX-H/Ultra	Instant Start Ballast	✓
98	GE	GE-332-MAX-L/Ultra	Instant Start Ballast	✓
99	GE	GE-432-MAX-L/Ultra	Instant Start Ballast	✓
100	GE	GE-132-MAX-H/Ultra	Instant Start Ballast	✓
101	GE	GE-232-MAX-H/Ultra	Instant Start Ballast	✓
102	GE	GE-332-MAX-H/Ultra	Instant Start Ballast	✓
103	GE	GE-332-MAX-H/Ultra	Instant Start Ballast	✓
104	SUNPARK	U-1/32ISE-HBF	Instant Start Ballast	✓
105	SUNPARK	U-2/32ISE-HBF	Instant Start Ballast	✓
106	SUNPARK	U-3/32ISE-HBF	Instant Start Ballast	✓
107	SUNPARK	U-4/32ISE-HBF	Instant Start Ballast	✓
108	SUNPARK	U-1/32ISE-LBF	Instant Start Ballast	✓
109	SUNPARK	U-2/32ISE-LBF	Instant Start Ballast	✓
110	SUNPARK	U-3/32ISE-LBF	Instant Start Ballast	✓
111	SUNPARK	U-4/32ISE-LBF	Instant Start Ballast	✓

Item	Manufacturer	Model	Type	Compatible
112	SUNPARK	U-1/32ISE	Instant Start Ballast	✓
113	SUNPARK	U-2/32ISE	Instant Start Ballast	✓
114	SUNPARK	U-3/32ISE	Instant Start Ballast	✓
115	HOWARD	EP3/32IS/MV/MC/HE	Instant Start Ballast	✓
116	KEYSTONE	KTEB-432-UV-IS-N-P	Instant Start Ballast	✓
117	KEYSTONE	KTEB-432-UV-IS-N-P	Instant Start Ballast	✓
118	PROLUME	EP232IS/L/MV/SL	Instant Start Ballast	✓
119	PROLUME	EP232IS/L/MV/HE	Instant Start Ballast	✓
120	RADIONIC	E232H12	Instant Start Ballast	✓

Note: 1. This tube may not work with the ballasts in the above list if they are too old or maybe have special technical data.

2. This tube could work with ballasts not covered by the above list.

3. Do not make mass installation without testing.