

T12**LAMP / BALLAST COMPATIBILITY**

SHADED AREAS INDICATE AVAILABILITY

		T12 (MEDIUM BI-PIN) LAMPS				
Ballast Description	Ballast Designation	15"	18"	2'	3'	4'
		14 watt preheat	15 watt preheat	20 watt preheat	30 watt rapid start	40 watt rapid start
1 LAMP MAGNETIC	MB1	*	*	*	*	*
1 LAMP MAGNETIC, 0°F STARTING	MBLO1					
2 LAMP MAGNETIC	MB2	*	*	*		
2 LAMP MAGNETIC, 0°F STARTING	MBLO2					
3 LAMP MAGNETIC	MB3					
1 LAMP MAGNETIC DIMMING	MBD1					
2 LAMP MAGNETIC DIMMING	MBD2					
1 LAMP ELECTRONIC	EB1					
2 LAMP ELECTRONIC	EB2					
3 LAMP ELECTRONIC	EB3					

T12: EB & MB default to rapid start

* = Ballast available in low power factor (LPF) or high power factor (HPF) type. HPF will be used as standard. When LPF is required, specify LPF in lamp description of catalog number. Example: 75-4-140T12-LPF-MB1

- NOTES:**
- For magnetic dimming ballasts, specify ballast manufacturer and catalog number. Example: MBD2-MAGNETEK-502-A-TC-P
 - Starting Temperatures:
 HPF, 1 and 2 lamp 14, 15, 20 Watt 0°F Starting
 LPF, 1 and 2 lamp 14, 15, 20 Watt 50°F Starting
 3', 4' RAPID START, MB1, MB2, EB1, EB2 50°F Starting with full light output lamps
 - Energy saving ballast supplied, where mandated (in accordance with the National Appliance Energy Conservation Amendments of 1988). Standard on fixtures that use 1 and 2 lamp 40 Watt rapid start T12 ballasts operating at input of 120V or 277V with a power factor >90%

SHADED AREAS INDICATE AVAILABILITY

		T12 (SLIMLINE, HO, & VHO) LAMPS								
Ballast Description	Ballast Designation	4'			6'		8'			
		F48 SL	F48 HO	F48 VHO	F72 SL	F72 HO	F96 SL	F96 HO	F96 VHO	
1 LAMP MAGNETIC	MB1	0°F	50°F	-20°F	0°F	50°F	0°F	-20°F	-20°F	
1 LAMP MAGNETIC, STARTING, TEMP. -20°F	MBLT1		-20°F			-20°F				
2 LAMP MAGNETIC	MB2	50°F	50°F	-20°F	50°F	-20°F	50°F	-20°F	-20°F	
2 LAMP MAGNETIC STARTING TEMP. -20°F	MBLT2		-20°F							
1 LAMP ELECTRONIC	EB1				50°F		50°F			
2 LAMP ELECTRONIC	EB2				50°F	-20°F	50°F	-20°F		

Starting temperatures based on full light output lamp (Non-Energy Saving)

- NOTES:**
- Energy saving ballast supplied, where mandated (in accordance with the National Appliance Energy Conservation Amendment of 1988). Standard on fixtures that use 296SL, 296HO, ballasts operating at input of 120V or 277V with power factor > 90%

Slimline: EB & MB default to instant start
HO & VHO: EB & MB default to rapid start

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T8

LAMP / BALLAST COMPATIBILITY

SHADED AREAS INDICATE AVAILABILITY

T8 (MEDIUM BI-PIN) LAMPS

Ballast Description	Ballast Designation	2'	3'	4'
		16/17 Watt	24/25 Watt	31/32 Watt
1 LAMP MAGNETIC, RAPID START	MB1			
2 LAMP MAGNETIC RAPID START	MB2			
1 LAMP ELECTRONIC, INSTANT START	EB1			
2 LAMP ELECTRONIC, INSTANT START	EB2			
3 LAMP ELECTRONIC INSTANT START	EB3			
4 LAMP ELECTRONIC, INSTANT START	EB4			
1 LAMP ELECTRONIC, INSTANT START, <10% THD	EBLH1			
2 LAMP ELECTRONIC, INSTANT START, .10% THD	EBLH2			
1 LAMP ELECTRONIC RAPID START	EB8R1			
2 LAMP ELECTRONIC, RAPID START	EB8R2			
3 LAMP ELECTRONIC RAID START	EB8R3			
4 LAMP ELECTRONIC RAID START	EB8R4			
1 LAMP ELECTRONIC, RAPID START, LOW HARMONIC, <10% THD	EB8RLH1			
2 LAMP ELECTRONIC, RAPID START, LOW HARMONIC, <10% THD	EB8RLH2			
3 LAMP ELECTRONIC, RAPID START, LOW HARMONIC, <10% THD	EB8RLH3			
4 LAMP ELECTRONIC, RAPID START, LOW HARMONIC, <10% THD	EB8RLH4			
1 LAMP ELECTRONIC DIMMING	EBD1			
2 LAMP ELECTRONIC DIMMING	EBD2			
3 LAMP ELECTRONIC DIMMING	EBD3			

- NOTES:**
- MB1/MB2: Minimum Starting Temperature = 50°
 - EB/EBLH2: Minimum Starting Temperature = 0°F, Instant Start
 - EB8R: Minimum Starting Temperature = 50°F
 - All of the above ballast combinations are **NOT** available from all manufacturers
 - For ballast not mentioned above, specify manufacturer and catalog number

- EBD1/EBD2/EBD3: **Generic Specifications**
- Operates on line voltage
 - 5% – 100% full range continuous dimming
 - End of life detection system
 - Operates above 40 KHz

SHADED AREAS INDICATE AVAILABILITY

T8 SLIMLINE, HO LAMPS

Ballast Description	Ballast Designation	4'	6'	8'	
		F48T8 HO	F72T8 HO	F96T8 SL	F96T8 HO
1 LAMP MAGNETIC	MB1				-20°F
2 LAMP MAGNETIC	MB2	-20°F	-20°F		-20°F
1 LAMP ELECTRONIC	EB1	-20°F	-20°F		-20°F
2 LAMP ELECTRONIC	EB2	-20°F	-20°F	32°F	-20°F

Slimline: EB defaults to instant start HO: EB & MB default to rapid start

T5

LAMP / BALLAST COMPATIBILITY

SHADED AREAS INDICATE AVAILABILITY

		T5 LAMPS									
Ballast Description	Ballast Designation	6"	9"	12"	21"	NOMINAL 24"		NOMINAL 36"		NOMINAL 48"	
		4 watt preheat	6 watt preheat	8 watt preheat	13 watt preheat	14 watt standard	24 watt HO	21 watt standard	39 watt HO	28 watt standard	54 watt HO
1 LAMP MAGNETIC	MB1										
2 LAMP MAGNETIC	MB2										
1 LAMP ELECTRONIC	EB1										
2 LAMP ELECTRONIC	EB2										
1 LAMP DIMMING	EBD1										
2 LAMP DIMMING	EBD2										

NOTES: EBD1, EBD2 - For dimming ballasts, specify manufacturer and catalog number
T5 (14, 21, 28 watt) & T5HO (24, 35, 54 watt) default to program/rapid start

T4

SHADED AREAS INDICATE AVAILABILITY

		T4 LAMPS												
Ballast Description	Ballast Designation	O5T4	O7T4	O9T4	I3T4	I3T4Q	I8T4	I8T4T	I8T4Q	I26T4	I26T4T	I26T4TQ	I32T4T	I42T4T
		2 PIN G23	2 PIN G23	2 PIN G23	2 PIN GX23 2 PIN GX23-2	4 PIN G24q-1	2 PIN G24d-2	4 PIN Gx24q-2	4 PIN G24q-2	2 PIN G24d-3	4 PIN GX24q-3	4 PIN G24q-3	4 PIN GX24q-3	4 PIN GX24q-4
1 LAMP MAGNETIC	MB1													
2 LAMP MAGNETIC	MB2													
1 LAMP ELECTRONIC	EB1													
2 LAMP ELECTRONIC	EB2													
1 LAMP DIMMING	EBD1													
2 LAMP DIMMING	EBD2												*	*

NOTES: EBD1, EBD2 - For dimming ballasts specify manufacturer and catalog number
* Use (2) 1 lamp dimming ballasts



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T2

LAMP / BALLAST COMPATIBILITY

SHADED AREAS INDICATE AVAILABILITY

Ballast Description	Ballast Designation	T2 LAMPS			
		06T2	08T2	11T2	13T2
		6 watt	8 watt	11 watt	13 watt
1 LAMP ELECTRONIC	EB1				
2 LAMP ELECTRONIC	EB2				

LONG TWIN TUBE

SHADED AREAS INDICATE AVAILABILITY

Ballast Description	Ballast Designation	LONG TWIN TUBE LAMPS					
		18 watt	24 watt	36 watt	40 watt	50 watt	55 watt
		FT18W/ 2G11/RS	FT24W/ 2G11	FT36W/ 2G11	FT40W/ 2G11	FT50W/ 2G11	FT55W/ 2G11
1 LAMP MAGNETIC, RAPID START	MB1						
2 LAMP MAGNETIC, RAPID START	MB2						
1 LAMP ELECTRONIC, INSTANT START	EB1						
2 LAMP ELECTRONIC, INSTANT START	EB2						
3 LAMP ELECTRONIC, INSTANT START	EB3						
1 LAMP ELECTRONIC, RAPID START	EBTR1						
2 LAMP ELECTRONIC, RAPID START	EBTR2						
1 LAMP ELECTRONIC DIMMING	EBD1						
2 LAMP ELECTRONIC DIMMING	EBD2						

NOTES: For dimming ballasts specify manufacturer and catalog number.
 40 watt: EB & MB default to instant start
 50, 55 watt: EB defaults to program/rapid start
 18, 24, 36 watt: EB & MB default to rapid start



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