

# Ceramic MH Retrofit Kit

A simple change that will save energy and lower maintenance costs

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## applications

- Ceramic MH Retrofit Kit designed to reduce energy consumption and maintenance.
- For use with wall packs, post-top, decorative, industrial, or commercial luminaires in street lighting, parking areas, and many other applications.

## general specifications

- Kit includes electronic ballast, lamp and socket converter
- May be installed by custodial personnel
  - Obtain approval of local authorities if required
  - Install pulse rated socket if necessary
  - Replace ballast
  - Retro-fit with socket kit
  - Test retro-fit that ballast does not cycle
  - If lamp cycles: use lower wattage lamp or remote ballast
- Premium white ceramic MH lamps and ballasts
- Uses existing pulse rated socket
- Choice of 45W, 60W, 90W, 140W, 210W and 315W lamps
- Protected ballast cycles but does not fail if overheated
- Optional remote ballast enclosure available
- White ceramic MH provides more visibility than yellow HPS
- Smaller arc-tube increases fixture efficiency in most cases
- Lamp arc is close to original location inside fixture
- Same energy reduction as LEDs at less cost

## dimensions



Ballast	Lamp	Volt	L	W	H
ICW-M	45/60W	120	5.9"	2.6"	2.6"
ICW-M	60W	277	5.3"	2.6"	2.6"
ICW-M	90-140W	120	6.3"	3.9"	2.4"
ICW-M	90-140W	277	5.9"	2.6"	2.6"
IZT-MH	210-315W	277	8.2"	4.9"	2.2"

## specifications

- 45, 60, 90, 140W Lamps - Ballast**
- 2800K, 70 CRI color
  - Up to 30,000 hour lamp life
  - Requires enclosed fixture
  - Up to 30,000 hour lamp life
  - .85 Lamp lumen depreciation
  - Thermally protected ballast (lamp cycles)
  - UL recognized electronic ballast
- 210, 315W Lamps - Ballast**
- 3000K & 4200K, 90 CRI color
  - .9 Lamp lumen depreciation
  - Universal burn (no tilt correction factor)
  - 0-10V Dimming
  - Use with open or enclosed fixtures
  - Thermally protected ballast (lamp cycles)
  - UL listed universal 210W/315W electronic ballast

## product advantages

- 110 to 120 Lumens per Watt reduces energy up to 50%
- Replaces up to 400W HID for application versatility
- 24-30,000 hour lamp life reduces maintenance
- 10-15% lamp lumen depreciation for high maintained lumens
- 70-90 CRI white light provides white light visibility
- Up to -22°F (-30°F) starting
- 40-70% less cost than LED for a 1-3 year payback
- Thermally protected ballast cycles lamp if overheated

## lamp replacement guide

Lamp	Lumens	Replaces
45W CMH	4,300	50 HPS, 70 MH
60W CMH	6,900	70 HPS, 100 MH
90W CMH	10,450	100 HPS, 175 MH
140W CMH	16,500	150 HPS, 250 MH
210W MCE	24,150	250 HPS, 400 MH
315W MCE	37,800	450MH

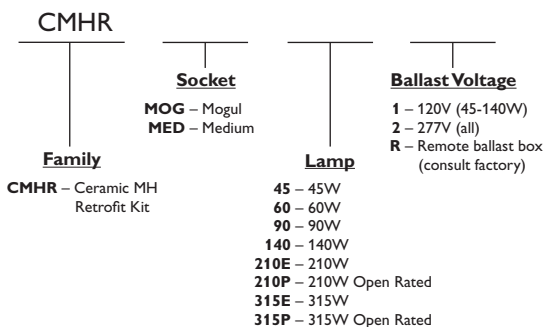
Lamp+Socket	Hgt
45/60W	7"
90W	7.2"
140W	7.75"
210/315W	9.4"
210P/315P	9.7"



## system performance comparison

Lamp	Position	Watts	Maintained Lumens	Lamp Life	CRI
60 CMH	U	67	6,200	30K	70
90 CMH	U	99	8,800	30K	70
140 CMH	U	153	14,020	30K	70
210 CMH	U	235	20,790	24K	90
315 CMH	U	340	34,000	30K	90
175 PSMH	H	198	8,064	11K	62
175 MH	H	198	6,750	8.5K	62
250 PSMH	H	283	12,924	12K	62
250 MH	H	283	10,305	8.5K	62
400 PSMH	H	455	24,984	15K	62
400 MH	H	462	18,954	15K	62
150 HPS	U	188	12,150	24K+	21
250 HPS	U	295	21,870	24K+	21
400 HPS	U	465	40,500	24K+	21

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