

Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

High Pressure Sodium and Pulse Start Metal Halide

Listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

NEC/CEC:

Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, AEx nA nR IIC (Z2)
Class I, Zone 2, AEx nR IIC (ZB)
Class II, Division 1 and 2, Groups E, F, G
Class III

NEC/CEC:

Simultaneous Exposure (Class I, Division 2/
Class II, Division 1)
Fixtures Outside Type (Salt Water)
Type 4X
IP66

Applications

- Enclosed and gasketed fixtures suitable for use in:
 - Marine and wet locations
 - A wide range of industrial, chemical processing and other areas where flammable gases and vapors or combustible dusts are present under conditions defined by the National Electrical Code as Class I, Division 2; Class II, Division 1 and 2; and Class III
 - In applications involving medium and high mounting heights
 - In applications where energy efficient, high lumen output is required
 - The AEx nA nR Mercmaster III fixture is factory sealed and prevents vapors and gases from entering the globe chamber. There are no seals or putty required.
 - The AEx nR Mercmaster III fixture requires all wiring entries to be sealed.
 - Non-hazardous locations where severe weather conditions, excessive moisture, dirt, dust, corrosive atmosphere or high ambient temperatures are encountered
- Typical applications include:
 - Pulp and paper mills
 - Processing plants
 - Chemical plants
 - Oil refineries
 - Foundries
 - Manufacturing plants
 - Storage areas
 - Waste and sewage treatment
 - Other areas where dust, water, dirt and rough usage are a problem

Features

- Superior corrosion resistance.
- Choice of light sources: high pressure sodium, and pulse start metal halide.
- Six mounting arrangements to suit any lighting layout: pendant, ceiling, wall bracket, 25° (angle) stanchion, 90° (straight) stanchion and cone.
- Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on ballast housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies servicing.
- Choice of optical assemblies: prismatic globe; enclosed reflector with sealed lens; or Type V or Type II closed prismatic glass refractor, with or without guards.
- Wide choice of photometric distributions.
- All fixtures designed to perform in a 40 °C (104 °F) ambient temperature. Selected fixtures are suitable for ambient temperatures up to 65 °C (149 °F) .
- Mogul base porcelain lamp holder with nickel-plated contacts has 200 °C (392 °F) rated welded leads, pre-wired to the ballast. Assures trouble-free operation in installations where high ambient temperatures are encountered.
- For electrical protection, a ground wire is provided on each Mercmaster to bond hood and ballast housing.
- Terminal blocks are provided for Zone 2 fixtures to facilitate wiring.
- Standard dome of 30° angle reflectors made of fiberglass reinforced white polyester. Highly resistant to corrosive atmospheres.
- A wide range of voltages available (120 to 600 Volt) and ballast types (CWA and Super CWA).
- One-piece ballast housing for each component provides even



Enclosed Reflector

Prismatic Glass Globe

12" Glass Refractor

- heat dissipation for cooler operation and longer ballast life.
- All Mercmaster mounting hoods have provision for easy field installation of fuses in fixtures (see fuse kit listings).

Standard Materials

- Mounting hoods and ballast bodies: cast copperfree (less than 4/10 of 1% copper) aluminum
- Reflectors: Fiberglass reinforced white polyester
- Guards, hardware and catch assemblies: stainless steel
- Globe: heat- and impact-resistant internally fluted glass
- Refractors: prismatic glass
- Enclosed reflector: etched Alzak aluminum with sealed, tempered heat- and impact-resistant lens
- Body and globe gaskets: high-temperature silicone rubber

Standard Finishes

- Mounting hoods and guards: epoxy powder coat, electrostatically applied for complete and uniform protection

Options

- AEx nA nR fixtures are available with a Class I, Zone 2 rating. Add suffix **-Z2**.
- AEx nR fixtures are available with a Class I, Zone 2 rating. Add suffix **-ZB**.
- Quartz Auxiliary comes to full brightness immediately and remains lit until the HID lamp attains 60-70% of full illumination. Quartz Auxiliary supplied with relay switch and socket to accept 120 V quartz double-contact bayonet base lamp (not included). (Not suitable for hazardous locations.) Add suffix **-E**.
- Factory sealed photocontrol available. See PCD2 Series.
- Smart Starter incorporates a 1-1/2-minute timer and performs as a conventional starter to normally start lamp. Removes itself from circuit if lamp burns out or is removed from socket. Eliminates starter failures caused by prolonged operation with cycling or failing lamps and simplifies finding their location, reducing maintenance and repair costs. Available for all HPS and PSMH fixtures. Add suffix **-S**.

NEC/CEC Certifications and Compliances

- cULus Listed: E10444
- UL Standard: ANSI/UL 844, 1598, 60079-0, 60079-15, Marine Type Electric Fixtures Outside Type (Salt Water)
- CSA Certified: 025428
- CSA Standard: CSA C22.2 No. 9, C22.2 No. 137; CAN/CSA E60079-0, E60079-15
- 250 W PSMH not available in MT ballast. See Mercmaster III, 50-250 Luminaires.

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Illustrated Features



High Temperature Sockets

Mogul base high-temperature porcelain sockets.

Aluminum Inner Reflector

Solid aluminum inner reflector (for refractor ballast housings only) improves photometric efficiency.

Globe Chamber

Completely sealed from the ballast housing and outside vapors/air (nR).



Vented Reflectors

Reflectors are thick, tough fiberglass-reinforced white polyester, vented for cooler operation. Quickly attach with furnished stainless steel screws.

Terminal Blocks (Zone 2)

A seven-point terminal block is provided to facilitate wiring. Terminal block accommodates wire size ranging from #8 to #24 AWG.

Stainless Steel Inserts

Ballast bodies have stainless steel threaded inserts to receive stainless steel screws for reflectors and guard. Prevents "freezing", allowing guards and reflectors to be easily removed and replaced at any time, without damage to the housing.



Ballast Assembly

Utilizing non-sparking components avoiding the ignition of gases or vapors that may be present (nA).

Mounting Hood and Globe Gaskets

Silicone rubber gasket seals out moisture, dirt and dust. Stays flexible, withstands high temperatures. Closure design assures uniform gasket compression.

Electrical Protection

Ground wire provided to bond mounting hood to ballast housing.



"Safety" High Hinge

Extra-high hinge provides additional protection against accidental ballast housing disengagement during installation or maintenance.

Epoxy Finish

Ballast housing, hoods and guards are copperfree aluminum with epoxy powder coat finish.

Photocell

Available for all fixtures except cone and ceiling mount. Installs through knock-out in mounting hood. Provides continuous ON-OFF dusk-to-dawn control.



Cooler Operating Cone Hood

Larger sloped surface sheds dusts, dirt and combustible fibers providing better heat dissipation.



Stainless Steel Latch Assembly

Captive, stainless steel latch assembly bolt and nut closes securely, resists attack of corrosive atmospheres. Swing-away design simplifies servicing.

Prismatic Glass Globes, Reflectors and Enclosed Reflector

Heat-resistant globes, reflectors and enclosed reflector thread into ballast housing and seal against a high temperature silicone rubber gasket.



Fuses

Two screws secure fuse kit to mounting boss in any Mercmaster mounting hood. Fuse included.

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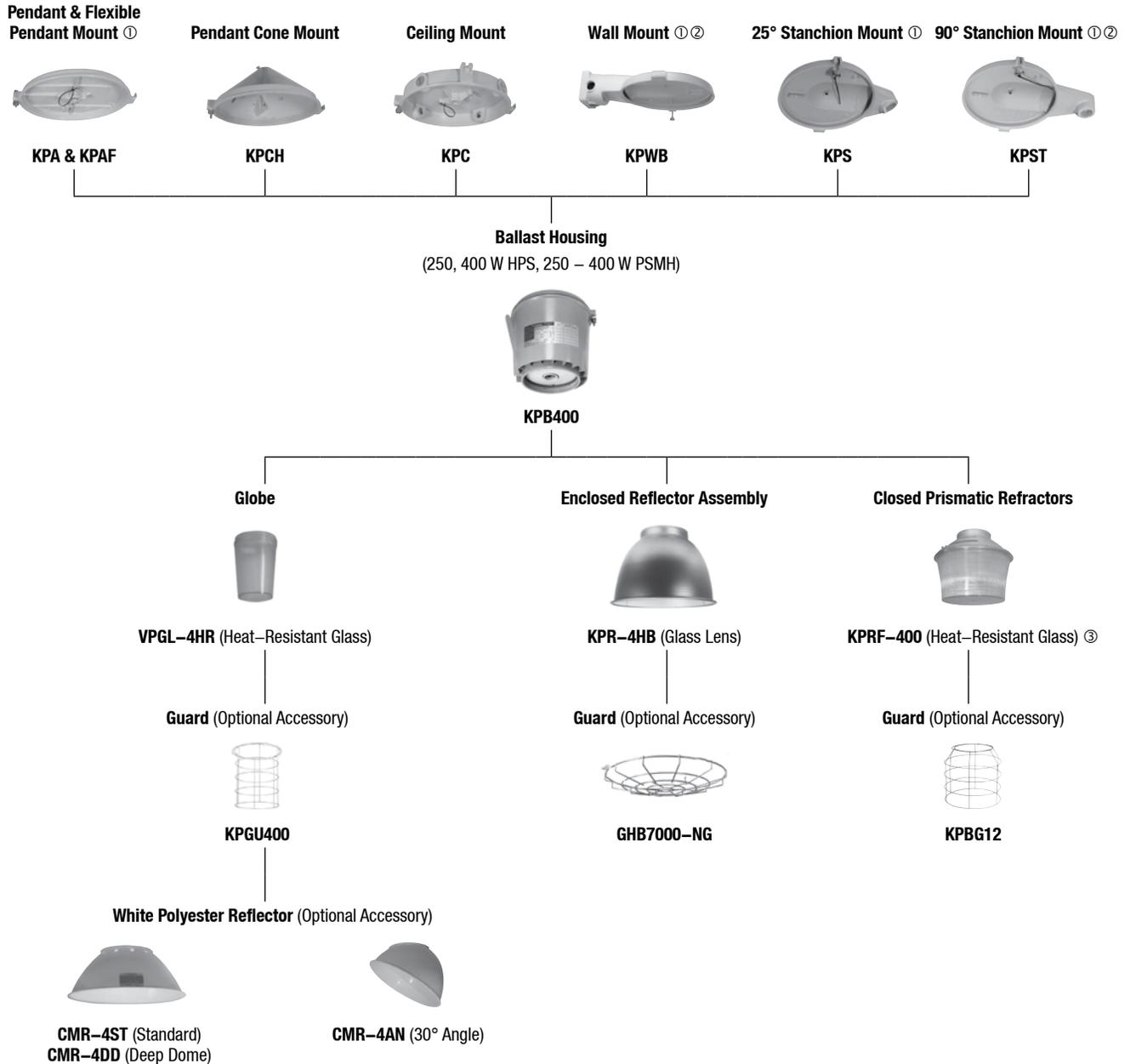
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Mercmaster III 400 Family Tree



① Mounting hood with a 120 V or 208-277 V factory installed photocell is available.

② Standard and deep dome reflectors may interfere with bottom conduit entry if used with KPST and KPWB mounting hoods.

③ Available in NEMA Type II and V.

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Order using catalog numbering guide below or select catalog number from tables on following pages.

Catalog Numbering Guide

<p>KP</p> <p>Series: KP - Mercmaster III 400</p>	<p>A</p> <p>Mounting: A - Pendant (rigid mounting) C - Ceiling CH - Pendant Cone Hood F - Pendant (flexible mounting) ST - 90° Stanchion S - 25° Stanchion WB - Wall</p>	<p>L</p> <p>Lamp Type: L - High Pressure Sodium P - Pulse Start Metal Halide</p>	<p>40</p> <p>Wattage: 25 - 250 W HPS, PSMH ⑤ 32 - 320 W PSMH 35 - 350 W PSMH 40 - 400 W PSMH & HPS</p>	<p>10</p> <p>Hub Size: 75 - 3/4" NPT 10 - 1" NPT 125 - 1-1/4" NPT stanchion 150 - 1-1/2" NPT stanchion</p>	<p>J5</p> <p>Optical Assembly: ① Blank - Glass Globe J2 - NEMA II Glass Refractor ④ J5 - NEMA V Glass Refractor ④ R - Enclosed Refractor with Sealed Lens</p>	<p>G</p> <p>Guard Options: ② G - Globe Guard BG - Refractor Guard Blank - No Guard</p>	<p>MT</p> <p>Voltage: ③ MT - 120/208/240/277, 60 Hz 5MT - 120/208/240/ 277/480, 60 Hz 48 - 480, 60 Hz 125 - 120, 50Hz 226 - 220, 60 Hz 235 - 230, 50Hz 245 - 240, 50 Hz</p>	<p>S</p> <p>Options: E - Emergency Quartz F - Fuse Kit (Specify Voltage) S - Smart Starter H1 - Photocontrol 120 V H2 - Photocontrol 208 V H3 - Photocontrol 240 V H4 - Photocontrol 277 V E40 - Export Socket</p> <p>Optional Fusing ⑥ FN - 120 V FP - 208 V FS - 240 V FT - 277 V FF - 480 V</p>	<p>Z2</p> <p>Suffix: Z2 - Zone 2 suffix (required for AEx nA nR rating) ZB - Zone 2 suffix (required for AEx nR rating)</p>
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Refer to "Mounting Hoods and Ballast" page for available Voltage Configuration.

① NO DESIGNATION is required for fixtures with standard type globe.

② NO DESIGNATION is required for fixtures without guards.

③ Other voltages available. Contact your local sales representative.

④ J2 and J5 refractors are not available with Z2 or ZB suffix.

⑤ Available for 480 V, 50 Hz and 5MT ballast options. For MT and TT voltage suffix, see Mercmaster III 50-250 Luminaires.

⑥ Optional fusing is available for use with MT, 5MT and 48 voltage suffixes ONLY.

Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

Class I, Division 2; Class II, Division 1; Simultaneous Exposure to Hazardous Conditions on Both Classifications

Temperature identification numbers of Mercmaster III – 400 Fixtures.

NEC/CEC:

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 Class I, Zone 2, AEx nA nR IIC (Z2)
 Class I, Zone 2, AEx nR IIC (ZB)
 Class II, Division 1 and 2, Groups E, F, G
 Class III

NEC/CEC:

Simultaneous Exposure (Class I, Division 2/
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 Fixtures Outside Type (Salt Water)
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“T” Numbers

Lamp Watts	Supply Type	Wire Temp. °C (°F) ①	Ambient Temp. °C (°F) ①	Class I, Division 2				Class II, Division 1 Groups E, F and G				Simultaneous Exposure Class I, Division 2 / Class II, Division 1			
				Globe	Reflector	Reflector	Enclosed Reflector	Globe	Reflector	Reflector	Enclosed Reflector	Globe	Reflector	Reflector	Enclosed Reflector
250	HPS	125 °C (257 °F)	40 °C (104 °F)	T2	T2	T2	T2	T3B	T3B	T4	T4A	325	325	325	325
		125 °C (257 °F)	55 °C (131 °F)	325	325	T2	T2	—	—	T3B	T4A	—	—	T1	325
		125 °C (257 °F)	65 °C (149 °F)	—	—	T2	T2	—	—	T3B	T4	—	—	T1	350
400	HPS	90 °C (194 °F)	40 °C (104 °F)	350	T1	T1	350	T3 ②	T3 ②	T3C	T3C	T1	T1	T1	350
		90 °C (194 °F)	40 °C (104 °F)	T2A	T2A	T2B	T2C	T3 (EF)	T3 (EF)	T4	T4A	—	—	—	—
250	PSMH	90 °C (194 °F)	55 °C (131 °F)	T2A	T2A	T2B	T2C	—	—	—	—	—	—	—	—
		90 °C (194 °F)	65 °C (149 °F)	—	—	—	T2C	—	—	—	—	—	—	—	—
		90 °C (194 °F)	40 °C (104 °F)	T2B	T2B	T2B	T2B	—	—	T3C	T3C	—	—	—	—
320	PSMH	90 °C (194 °F)	55 °C (131 °F)	T2A	T2A	T2A	T2B	—	—	—	—	—	—	—	—
		90 °C (194 °F)	40 °C (104 °F)	T2B	T2B	T2B	T2B	—	—	T3C	T3C	—	—	—	—
350	PSMH	90 °C (194 °F)	55 °C (131 °F)	T2A	T2A	T2A	T2B	—	—	—	—	—	—	—	—
		90 °C (194 °F)	40 °C (104 °F)	T2A	T2A	T2B	T2B	—	—	T3C	T3C	—	—	—	—
400	PSMH	90 °C (194 °F)	40 °C (104 °F)	T2A	T2A	T2B	T2B	—	—	T3C	T3C	—	—	—	—

“T” Numbers Represent the Maximum Lamp Temperature for Class I, Division 2 Locations and Maximum Surface Temperature Under Dust Blanket for Class II, Division 1 Locations

“T” Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temp. Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185

① Use +90 °C (+194 °F) rated supply wire.
 ② “T” numbers are for Groups E and F only.

Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

Class I, Zone 2, AEx nR IIC, AEx nA nR IIC, IP66, NEMA 4X

Temperature identification numbers of Mercmaster III – 400 Fixtures.

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“T” Numbers

Lamp Watts	Type	Supply Wire Temp. °C (°F) ①	Ambient Temp. °C (°F) ①	Class 1, Zone 2 AEx nA nR			Class 1, Zone 2 AEx nR		
				Globe	Globe & Reflector	Enclosed Reflector	Globe	Globe & Reflector	Enclosed Reflector
250	HPS	125 (257)	40 (104)	T4	T4	T5	T4	T4	T5
	HPS	125 (257)	55 (131)	T3	T3	T3	T3	T3	T3
	HPS	125 (257)	65 (149)	—	—	T3	—	—	T3
400	HPS	90 (194)	40 (104)	T4	T4	T5	T4	T4	T5
	PSMH	90 (194)	40 (104)	T3	T3	T3	—	—	—
	PSMH	90 (194)	55 (131)	T3	T3	T3	—	—	—
320	PSMH	90 (194)	40 (104)	T4	T4	T4	T4	T4	T4
	PSMH	90 (194)	55 (131)	T3	T3	T4	T3	T3	T4
	PSMH	90 (194)	40 (104)	T4	T4	T4	T4	T4	T4
350	PSMH	90 (194)	40 (104)	T4	T4	T4	T4	T4	T4
	PSMH	90 (194)	55 (131)	T3	T3	T4	T3	T3	T4
400	PSMH	75 (167)	40 (104)	T3	T3	T3	T3	T3	T3
400	MH	90 (194)	40 (104)	T3	T3	T3	—	—	—

“T” Numbers represent the maximum surface temperature for luminaires with AEx nA nR and AEx nR rating:

To comply with AEx nR Requirements, all wiring entries must be sealed.

“T” Number	T1	T2	T3	T4	T5	T6
Temp. Range (°C)	301-450	201-300	136-200	101-135	86-100	85
Temp. Range (°F)	547-842	394-572	277-392	214-275	187-212	185

① Use +90 °C (+194 °F) rated supply wire.

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250 W, 400 W HPS

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Type Mounting	Lamp Type	Lamp Watts	Hub Size (Inches)	With Globe	Catalog Numbers ③④⑤		
					With Type V 12" Refractor ②	With Enclosed Reflector	

Wall Five Hubs, Four Close-Up Plugs



HPS	250	3/4	KPWBL2575	KPWBL2575J5	KPWBL2575R
		1	KPWBL2510	KPWBL2510J5	KPWBL2510R
HPS	400	3/4	KPWBL4075	KPWBL4075J5	KPWBL4075R
		1	KPWBL4010	KPWBL4010J5	KPWBL4010R

Shown with 12" Glass Refractor

25° Stanchion One Hub



HPS	250	1-1/4	KPSL25125	KPSL25125J5	KPSL25125R
		1-1/2	KPSL25150	KPSL25150J5	KPSL25150R
HPS	400	1-1/4	KPSL40125	KPSL40125J5	KPSL40125R
		1-1/2	KPSL40150	KPSL40150J5	KPSL40150R

Shown with Prismatic Glass Globe and Optional Guard

90° Stanchion One Hub



HPS	250	1-1/4	KPSTL25125	KPSTL25125J5	KPSTL25125R
		1-1/2	KPSTL25150	KPSTL25150J5	KPSTL25150R
HPS	400	1-1/4	KPSTL40125	KPSTL40125J5	KPSTL40125R
		1-1/2	KPSTL40150	KPSTL40150J5	KPSTL40150R

Shown with Prismatic Glass Globe and Optional Guard

② To order fixture with NEMA Type II refractor, change digits **J5** in catalog number to **J2**. Refractor not available for Z, Z2 or ZB suffix.

③ For fixtures with guards, add suffix **G** before adding voltage suffix. **BG** for refractor. **NG** for enclosed reflector.

④ Add the following voltage and frequency designations before Z2 or ZB suffix:

Lamp Type	Lamp Watts	Voltage Suffixes							
		MT	5MT	48	125	225	226	235	245
HPS	250	X	X	X	X	—	X	X	—
HPS	400	X	X	X	X	—	—	X	—
PSMH	250	—	X	X	X	—	—	X	—
PSMH	320	X	X	X	X	—	—	X	—
PSMH	350	X	X	X	X	—	—	X	—
PSMH	400	X	X	X	—	—	—	X	—

Voltages:
MT - 120/208/240/277 V 60 Hz
5MT - 120/208/240/277/480 V 60 Hz
48 - 480 V 60 Hz
125 - 120 V 50 Hz
225 - 225 V 50 Hz
226 - 220 V 60 Hz
235 - 230 V 50 Hz
245 - 240 V 50 Hz

⑤ Add **Z2** suffix for factory sealed non-sparking/restricted breathing protection (AEx nA nR). Add **ZB** suffix for restricted breathing protection (AEx nR).

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Electrical Specifications

Line Voltage	Type of Ballast ①	Frequency	Starting Amps	Operating Amps	Total Watts
250 Watt High Pressure Sodium					
120	C.W.A.	60	2.00	2.50	295
208	C.W.A.	60	1.20	1.50	295
240	C.W.A.	60	1.00	1.30	295
277	C.W.A.	60	0.85	1.10	295
480	C.W.A.	60	0.40	0.65	295
120	C.W.A.	50	1.85	2.75	300
230	C.W.A.	50	0.95	1.44	300
400 Watt High Pressure Sodium					
120	C.W.A.	60	3.30	3.80	465
208	C.W.A.	60	1.80	2.20	465
240	C.W.A.	60	1.60	1.90	465
277	C.W.A.	60	1.40	1.70	465
480	C.W.A.	60	0.80	1.00	465
120	C.W.A.	50	3.70	4.00	465
230	C.W.A.	50	1.85	2.00	465
250 Watt Pulse Start Metal Halide					
120	C.W.A.	60	2.00	2.30	278
208	C.W.A.	60	1.10	1.40	278
240	C.W.A.	60	1.00	1.20	278
277	C.W.A.	60	0.80	1.00	278
480	C.W.A.	60	0.30	0.60	278
480	Super C.W.A.	60	0.45	0.60	285
120	Super C.W.A.	50	1.90	2.60	288
230	Super C.W.A.	50	1.00	1.35	288
400 Watt Pulse Start Metal Halide					
120	Super C.W.A.	60	3.10	3.70	447
208	Super C.W.A.	60	1.70	2.10	447
240	Super C.W.A.	60	1.50	1.90	447
277	Super C.W.A.	60	1.30	1.60	447
480	Super C.W.A.	60	0.80	0.95	446
120	Super C.W.A.	50	3.17	3.90	454
230	Super C.W.A.	50	1.65	2.00	454

Fuse Kit

Order fuses as a separate item by catalog number from right columns.

Lamp Watts	Volts	Fuse Quantity Required	Fuse Catalog Number	
			HPS	PSMH
250	120	1	F7	F10
	208	2	F4	F6
	240	2	F4	F6
	277	1	F3	F5
	480	2	F2	F3
	120	1	F7	—
250	230	2	F4	—
	480	2	—	F2
	230	1	—	F3
	120	1	F15	F12
	208	2	F8	F6
	240	2	F8	F6
400	277	1	F5	F5
	480	2	F5	F3
	120	1	F10	F10
	230	2	F6	F5

Appleton®

HID/AREA: NEC/CEC ENCLOSED AND GASKETED

① C.W.A. – Constant Wattage Autotransformer. HX-HPF – High Reactance High Power Factor Autotransformer.
 Super C.W.A. – Super Constant Wattage Autotransformer.

Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

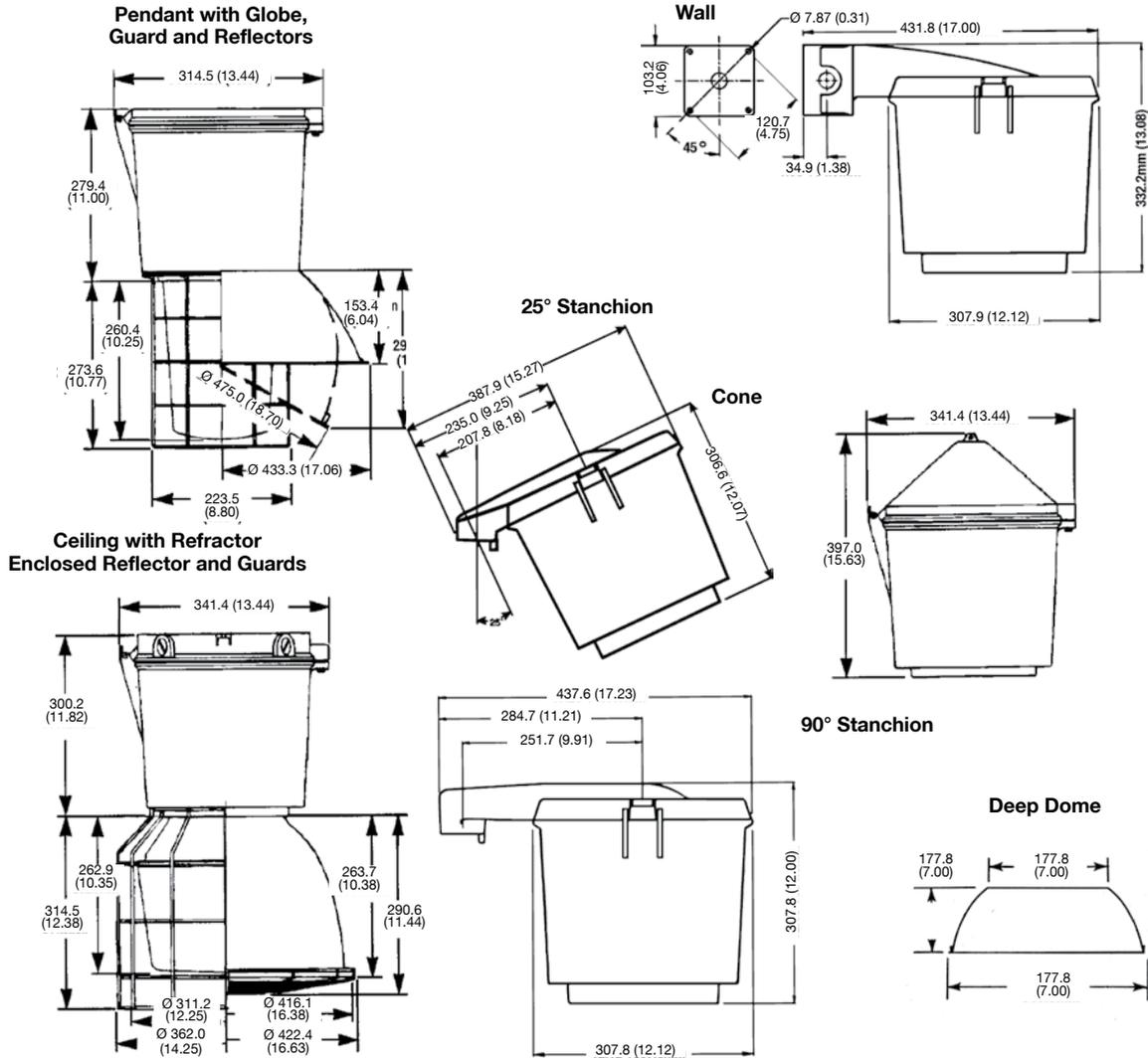
High Pressure Sodium and Pulse Start Metal Halide - Hazardous and Wet Locations

Listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

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 Class III

NEC/CEC:
 Simultaneous Exposure (Class I, Division 2/
 Class II, Division 1)
 Fixtures Outside Type (Salt Water)
 Type 4X
 IP66

Dimensions in Millimeters (Inches)



Mercmaster III – 400 Ballast and Accessory Weights

Lamp Watts	Ballast Housing Wt. kg (lb)		Mounting Hoods and Reflectors	Wt. kg (lb)	Globe Refractor, Enclosed Reflector and Guards	
	HPS	PSMH			Reflector and Guards	Wt. kg (lb)
250	11.1 (24.5)	—	Pendant	1.0 (2.25)	Glass Globe	3.2 (7.0)
320	—	12.7 (28.0)	Pendant Cone	1.1 (2.50)	Globe Guard	1.4 (3.0)
			Ceiling	1.4 (3.00)	12" Glass Refractor	5.4 (12.0)
350	—	12.9 (28.5)	Wall	1.8 (4.00)	Refractor Guard	2.0 (4.5)
			25° Stanchion	1.5 (3.25)	Enclosed Reflector	5.0 (11.0)
400	12.9 (28.5)	12.9 (28.5)	90° Stanchion	1.7 (3.75)	Enclosed Reflector Guard	0.9 (2.0)
			Standard Dome	1.6 (3.50)		
			30° Angle	1.6 (3.50)		

Weights are approximate. Add 0.11 kg (0.25 lb). for Quartz option.