



MERCMASTER[™] III 400 LUMINAIRE FOR HAZARDOUS AND WET LOCATIONS

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 Il 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, Super CWA and REG LAG).
- One-piece ballast housing for each component provides even 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).

APPLETON For product information: www.appletonelec.com 1.800.621.1506

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

NEC/CEC RATINGS

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

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



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MERCMASTER™ III 400 LUMINAIRE FOR HAZARDOUS AND WET LOCATIONS

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**.
- Ex nR fixtures are available with a Class I, Zone 2 rating. Add suffix **-ZV**.
- Quartz Auxiliary comes to full brightness immediately and remains lit until the HID lamp attains 25-50% of full illumination. Quartz Auxiliary supplied with relay switch and socket to accept 120V 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

385 - 380/415, 50 Hz

- 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.

CATALOG NUMBERING GUIDE

<u>КР</u> 	A 	L 	<u>40</u>	<u>10</u> J	<u>5</u>	<u>G №</u>	1 T	<u>s</u> 	Z2
Series: KP - Mercmaster III 400	P -	Lamp Type: High Pressure Sodium Pulse Start Metal Halide	75 - 3/4' 10 - 1" N 125 - 1-1 stan 150 - 1-1	IPT I/4" NPT chion	Guard Oj G - Globe G BG - Refrac Guard Blank - No G	iuard tor I	E - Emergen F - Fuse Kit (Voltage S - Smart Sta H1 - Photoc H2 - Photoc H3 - Photoc	Specify) arter ontrol 120 V ontrol 208 V ontrol 240 V ontrol 277 V : Socket	
Mo A - Pendant (C - Ceiling CH - Pendant F - Pendant (mount ST - 90° Stan S - 25° Stanc WB - Wall	ing) t Cone Ho flexible ing) ichion	25 - 250 W H 40 - 400 W P	,	Blank - Glass C J2 - NEMA II Gl	lass Refractor ④ lass Refractor ④ efractor with	Volta MT - 120/208, 60 Hz 5MT - 120/200 277/48(TT - 120/277/ 48 - 480, 60 H AM - 127/220 125 - 120, 501 226 - 220, 60 235 - 230, 60 236 - 230, 60 245 - 240, 50 246 - 240, 60	8/240/ 0, 60 Hz 347, 60 Hz z , 60 Hz Hz Hz Hz Hz Hz	Su Z2 - Zone 2 s (require AEx nA rating) ZB - Zone 2 s (require AEx nR	ed for nR suffix ed for

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 quards.
- ③ Other voltages available. Contact your local sales representative.

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

APPLETON

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

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

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