

Mercmaster™ Jr. Luminaires

High Pressure Sodium. Suitable for Use in Wet Locations

UNILETS® for Use with Threaded Metal Conduit. 120 V Integral Ballast. Medium Base Socket for Medium Base Lamps.

With Globe:

35 W, 50 W: †

Class I, Division 2, Groups A, B, C, D

Class II, Division 1 and 2, Groups E ‡, F, G

Class III

70 W: †

Class I, Division 2, Groups A, B, C, D

Class II, Division 1 and 2, Groups E ‡, F, G

100 W, 150 W: †

Class I, Division 2, Groups A, B, C, D

With Refractor (NEMA V):

35 W, 50 W, 70 W, 100 W: †

Class I, Division 2, Groups A, B, C, D

Class II, Division 1 and 2, Groups E ‡, F, G

Class III

150 W: †

Class I, Division 2, Groups A, B, C, D

Applications

- Inexpensive HID integrally ballasted fixture for use in hazardous locations – inexpensive to buy and inexpensive to operate (uses one-fifth as much electrical energy as incandescent and three-quarters as much as fluorescent).
- Enclosed and gasketed HID lighting fixtures for use in tunnels, walkways, bridges, storage facilities, processing plants, parking lots, foundries, manufacturing plants, power plants and other locations where moisture, dirt, dust or corrosive atmospheres are encountered.

Features

- “Wireless” design. Threading of fixture unit onto mounting hood makes electrical connection. Only wiring required is attaching two wires to connection block in mounting hood.
- Safe, easy servicing without disconnecting any wiring. “Wireless” fixture unit easily threads off mounting hood for convenient servicing.
- Quick, easy conversion from Appleton V-51® incandescent installation to Mercmaster Jr. HID. Just remove V-51® fixture unit and thread Mercmaster Jr. fixture unit onto existing V-51® mounting hood.
- Choice of mounting hoods. Standard fixtures in pendant, ceiling, outlet box, wall and stanchion mountings.
- Standard pendant mounting hood for rigid or flexible mounting. Balanced round design automatically hangs plumb when used with flexible hanger.
- Unitized construction reduces installation and maintenance costs.
- Ballast has standard non-PCB biodegradable capacitors.
- Medium base socket is furnished with 392 °F/200 °C leads, prewired to the ballast. Porcelain socket assures trouble-free operation in high ambient installations.
- Prismatic glass globe or glass refractor is standard and threads directly into fixture housing. Eliminates glare and provides uniform light distribution.
- Fiberglass reinforced polyester reflector for exceptionally severe corrosive atmospheres. Vented for cooler, dirt-free operation, increased lumen output.

Standard Materials

- Mounting hoods: copperfree (4/10 of 1% max.) aluminum or malleable iron
- Ballast bodies: copperfree (4/10 of 1% max.) aluminum
- Guards: copperfree (4/10 of 1% max.) aluminum or steel
- Reflectors: fiberglass reinforced polyester or porcelain
- Globe: 35 W-100 W, threaded prismatic glass and threaded polycarbonate; 150 W, threaded heat-resistant prismatic glass
- Refractor: heat-resistant prismatic glass

Standard Finishes

- Ballast bodies, aluminum guard and VMA, VXHA-A, OBVW1-A, OBV1-A, JBW1-A, JB1-A, GSW2 and MS mounting hoods: epoxy powder coat finish, electrostatically applied for complete, uniform surface protection
- VA, VXHA, OBVW1, OBV1, GS-2, JBW1, and JB1 malleable iron mounting hoods: triple coat – (1) zinc electroplate; (2) chromate; and (3) epoxy powder coat
- Steel guard: zinc electroplate

† The MJBW Wall Mount Fixture is suitable for Class I, Division 2, Groups A, B, C and D only.

‡ Per NEC 500.6(1), there is no such classification as Class II, Division 2, Group E.



Illustrated Feature

Conversion from Appleton V-51 incandescent installation to HID Mercmaster Jr. is easy and fast.



Step No. 1:

After power is shut off, remove present incandescent V-51 fixture unit from existing V-51 mounting hood.



Step No. 2:

Thread Mercmaster Jr. HID fixture unit onto existing V-51 mounting hood – and conversion is completed.

Options

- Fuses for fixtures, factory installed. Add suffix -F.

Certifications and Compliances

- UL Standard: UL 1598, UL 1598A, UL 844
- UL Listed: E10444

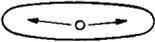
Mercmaster™ Jr. Luminaire Accessories

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Lighting

LIGHTING: ENCLOSED AND GASKETED – AREA – HID

Description		Catalog Number
Globes – 35 W-150 W		
	Clear Heat-Resistant Prismatic Glass Polycarbonate (100W lamp max.) ②	VPGL-1HR
		VPGL-2PL
Reflectors – 35 W-150 W		
	NEMA Type II	 LPJR-2CG
	NEMA Type V	 LPJR-5CG
Reflectors – 35 W-150 W ①		
	Standard (porcelain, 16" dia.; polyester, 16-1/4" dia.) 30° Angle (porcelain, 12" dia.; polyester, 14-3/8" dia.)	LPR-25ST
		LPRP-25ST
Standard		LPR-25AN
30° Angle		LPRP-25AN
Guards – 35 W-150 W		
	Copperfree Aluminum Guard	VPGU-1
	Steel Guard for 8" Reflectors	LPBG-8
VPGU-1		
LPBG-8		
Socket		
	35 W-150 W (Medium Base)	JRS-100
Gasket		
	Globe Gasket, Silicone Rubber – 35W-150W	VPGL-GK

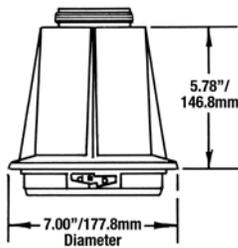
① V-51 reflectors cannot be used with Mercmaster Jr. Fixtures.

② Do not use Polycarbonate Globes in ambients exceeding 77 °F/25 °C. These globes for burning in vertical base-up position only.

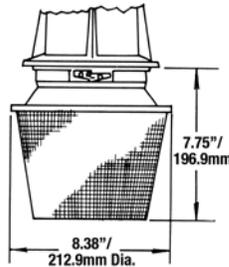
Mercmaster™ Jr. Luminaire Dimensions

35 W, 50 W, 70 W, 100 W, 150 W

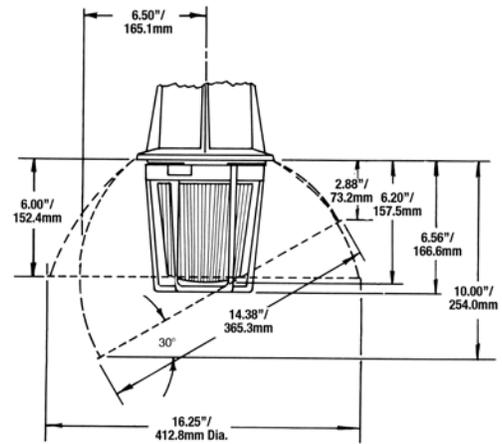
UNILETS® for Use with Threaded Metal Conduit. 120 V Integral Ballast. Medium Base Socket for Medium Base Lamps.



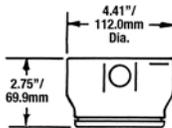
MBL Ballast Body



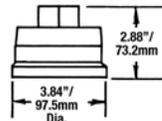
Fixture with 8" Refractor



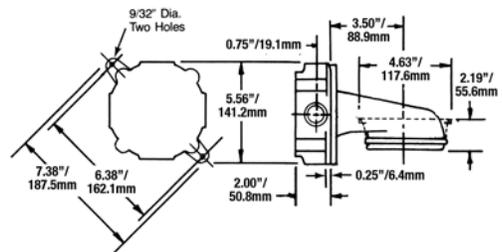
Fixture with Guard and Polyester Reflectors



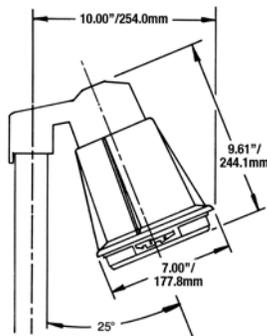
VXHA Ceiling Mount



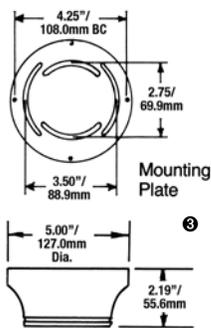
VMA Pendant Mount



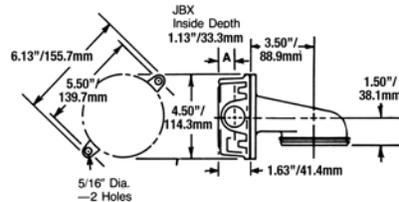
GSW Wall Mount ① and GS Ceiling Mount with GSU Box ②



Stanchion Mount ④



OBV Outlet Box Mount and Mounting Plate



JBW Wall Mount ① with JBX Box ②

① Mounting holes 9/32" diameter on 5-1/8" centers. Mounting plate is a separate piece furnished with outlet box mount fixture. The 2.75" dimension is for mounting on 3-1/4" octagonal boxes and the 3.50" dimension is for 4" octagonal boxes.

② Wall mount fixtures provide the following wall clearances: with GSU box – 2" from wall with globe and 1-5/16" from wall with refractor; with JBX box – 1-5/8" from wall with globe and 15/16" from wall with refractor. Reflectors cannot be used with wall mount fixtures.

③ Order GSU or JBX box separately.

④ Standard dome or 30° angle reflectors can be used with stanchion mount.