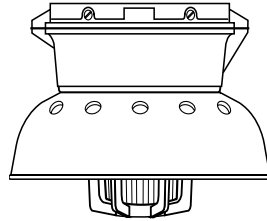




H.I.D. H SERIES

50 - 400 W HAZARDOUS LOCATIONS

DATE: _____ PROJECT MGR: _____
 JOB: _____
 CAT#: _____
 TYPE: _____



H.I.D. H SERIES: 50 - 400 WATTS

- TASK ①
- PAINTBOOTH ②
- VAPOR DUST ③
- VAPOR ④
- WET DAMP ⑤
- MARINE ⑥
- EXPLOSION PROOF ⑦
- HID ⑧**
- INSPECTION ⑨
- PORTABLE LIGHTING ⑩
- MOUNTING ⑪
- PHOTOMETRY ⑫
- LAMPS BALLASTS ⑬
- INFO ⑭
- CUSTOM ⑮
- ASK THE EXPERT ⑯

DESCRIPTION

The H.I.D. H Series has a powder coat finish over a cast copper-free aluminum housing designed for Hazardous Environments. The product is available in wattages of 50 – 400w and H.I.D. lamp choice of Metal Halide or High Pressure Sodium. Perfect for a multitude of applications such as Chemical Plants, Automobile Manufacturing and Marine and Coastal facilities, this fixture carries many CSA and UL listings. The H.I.D. H Series also has an assortment of options from Reflector choices, Auxiliary Quartz Lamp and a 3-sided Exit Sign attachment. Don't forget the UNIPACK option that provides a fully assembled product for ease of installation!

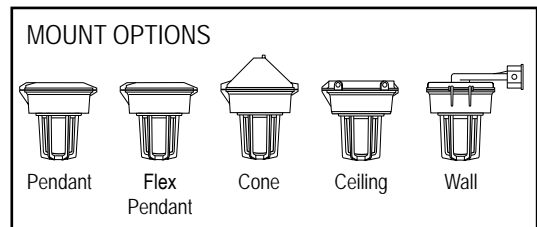
SPECIFICATIONS

- LISTINGS:** Class I Div. 2 Groups A, B, C, D
 Class II Div. 1 & 2 Groups E, F, G
 Class III Div. 1 & 2
 UL listed 1572, 844, 595
 NEMA 4X
- ELECTRICAL:** High pressure sodium (50 to 400 watts)
 Metal halide (70 to 400 watts)
- HOUSING:** Cast copper-free aluminum with powder coated finish
- GUARD:** Polymeric, Aluminum, or Steel Wire
- GLOBE:** 5 1/2" or 7 3/4" Dia. Heat resistant
 7 3/4" IES Type I, III or V,
 12" Dia. IES Type II, V, (5 1/2" thread)
 12" Dia. IES Type II, V (7 3/4" thread)
- MOUNTING:** Rigid or Flexible Pendant, Ceiling,
 Wall or Cone Pendant 25 Stanchion,
 Straight Stanchion, HazVector™ Ring Mount
- OPTIONS:** Stainless Steel Inserts
 Auxiliary Quartz Lamp
 Fuse Block
 UNIPAK® (assembled Fixture)
 HazCote™



APPLICATIONS

- | | |
|---------------------------------|------------------------------------|
| Chemical Plants | Flour, Sugar, Starch Processing |
| Oil Refineries | Ammunition Manufacturing |
| Paint, Rubber Manufacturing | Coal, Gold and Copper Mining |
| Offshore Platforms | Pulp and Paper Manufacturing |
| Oil Drilling Rigs | Copper, Aluminum Smelting |
| Oil, Gas Transmission | Breweries, Malt Plants |
| Waste Treatment Facilities | Shipyards, Shipbuilding Facilities |
| Airplane, Aerospace Facilities | Automobile Manufacturing |
| Electronics Manufacturing | Marine and Coastal Facilities |
| Pharmaceutical Plants | Utility Power Plants |
| Aircraft Manufacturing | Steel Mills, Foundries |
| Vehicle Maintenance Facilities | General Manufacturing Plants |
| Grain Handling, Food Processing | |

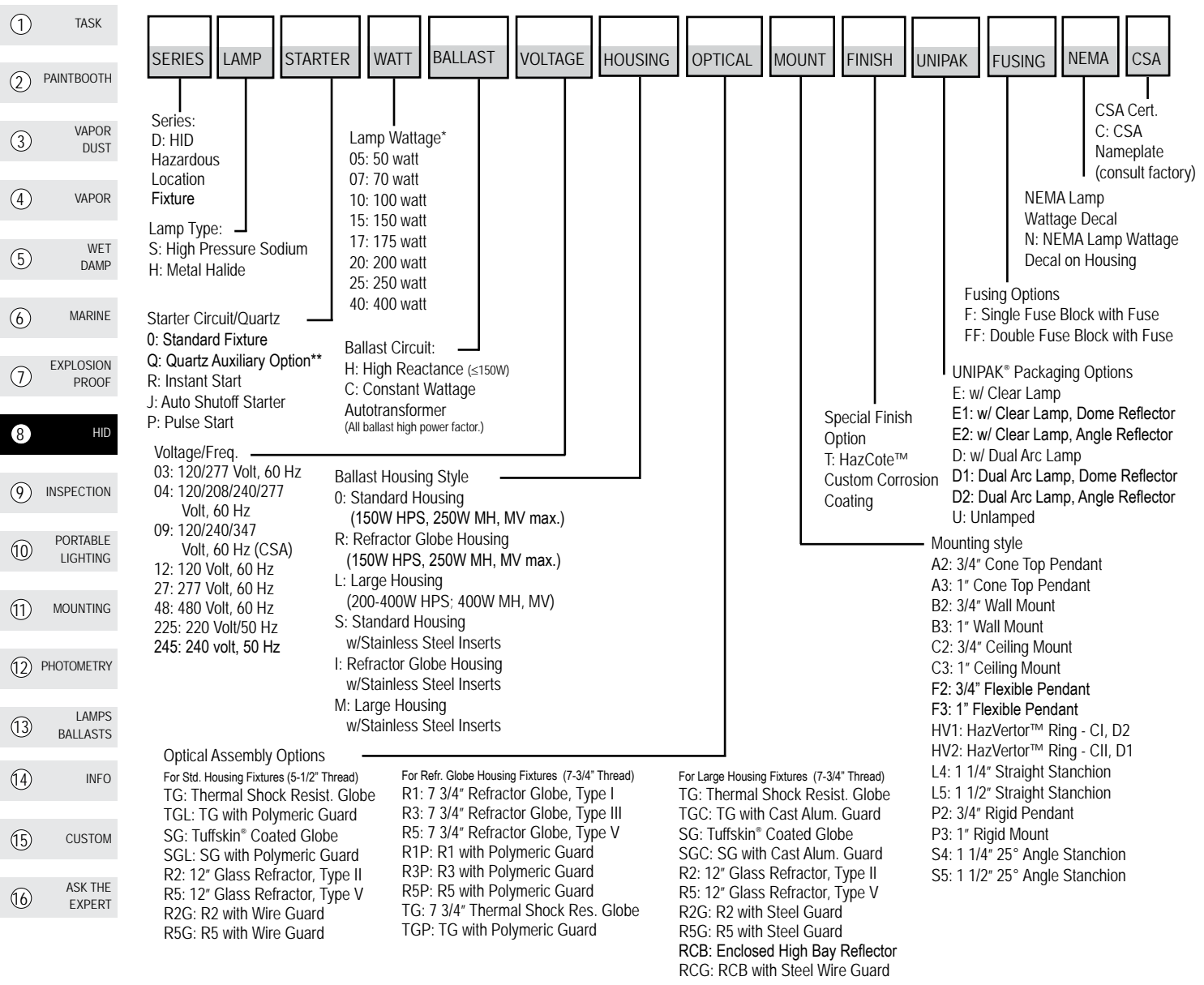




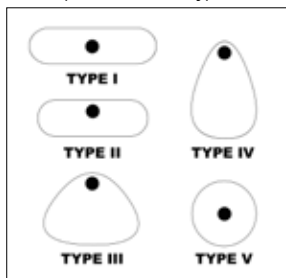
H.I.D. H SERIES

50 - 400 W HAZARDOUS LOCATIONS

PART NUMBERS



Optical Refractor Types



For representational purposes only

All fixtures are for use with mogul base lamps. Lamps are not included unless "UNIPAK" with lamp" packaging is specified.

To order fixtures with "UNIPAK" with lamp" packaging add "E" to the end of the catalog number.

** Adding Quartz restrrike will be Class I Div. 2 ONLY with a T rating of 625°C

FOR UNIPAK® SEE PAGE 8.11
FOR HAZVERTOR™ RING SEE PAGE 8.11
OPTIONS AND COMPONENTS SEE PAGES 8.12 - 8.13
DIMENSIONS SEE PAGES 8.21 - 8.22
T-RATINGS SEE PAGES 8.25 - 8.26

*High pressure sodium (50 to 400 watts)
Metal halide (70 to 400 watts)



H.I.D. M & H SERIES: OPTIONS

MARINE AND HAZARDOUS LOCATIONS

UNIPAK® Packaging

LDPI® H.I.D. fixtures ordered with UNIPAK® packaging option will be completely assembled with lamp (and with mounting cover and/or reflector, if specified) and shipped in one carton. Each fixture assembly is foamed in place in the carton to insure zero transit damage. Receiving, handling, storing, identification, assembly and component matching are all made easier by this common sense approach to manufacturing and shipping.

Use catalog numbering codes (position #11) to add UNIPAK® with lamp packaging to any made-to-order H.I.D. assembly.

Benefits of UNIPAK® packaging:

- Fewer cartons to receive
- Fewer cartons to store
- Reduced jobsite material and handling cost
- Lower installation labor cost
- No chance of Lamp/Ballast mismatch in field
- No waiting around for fixtures

HazVertor™ Adaptor Ring

The HazVertor™ Ring is a UL listed adapter ring which gives you the freedom to replace Crouse-Hinds® VMV, LMV and DMV series Champ® lighting fixtures with LDPI H.I.D. fixtures - without removing the Crouse-Hinds® mounting top hat from the conduit system.

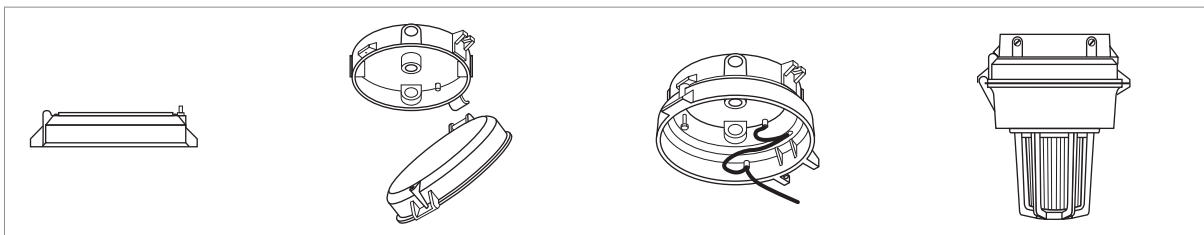
Just look at the advantages:

Increased energy efficiency and lumen output by upgrading from mercury vapor to metal halide or high pressure sodium.

Utilize threaded glass refractors for improved light distribution

Improved photometric performance in many cases.

Easy to Order. Easy to Install. UL listed.
For use with H.I.D. Marine, or Hazardous environment fixture.
Not available for the Compact fixture.



TASK ①

PAINTBOOTH ②

VAPOR DUST ③

VAPOR ④

WET DAMP ⑤

MARINE ⑥

EXPLOSION PROOF ⑦

HID ⑧

INSPECTION ⑨

PORTABLE LIGHTING ⑩

MOUNTING ⑪

PHOTOMETRY ⑫

LAMPS BALLASTS ⑬

INFO ⑭

CUSTOM ⑮

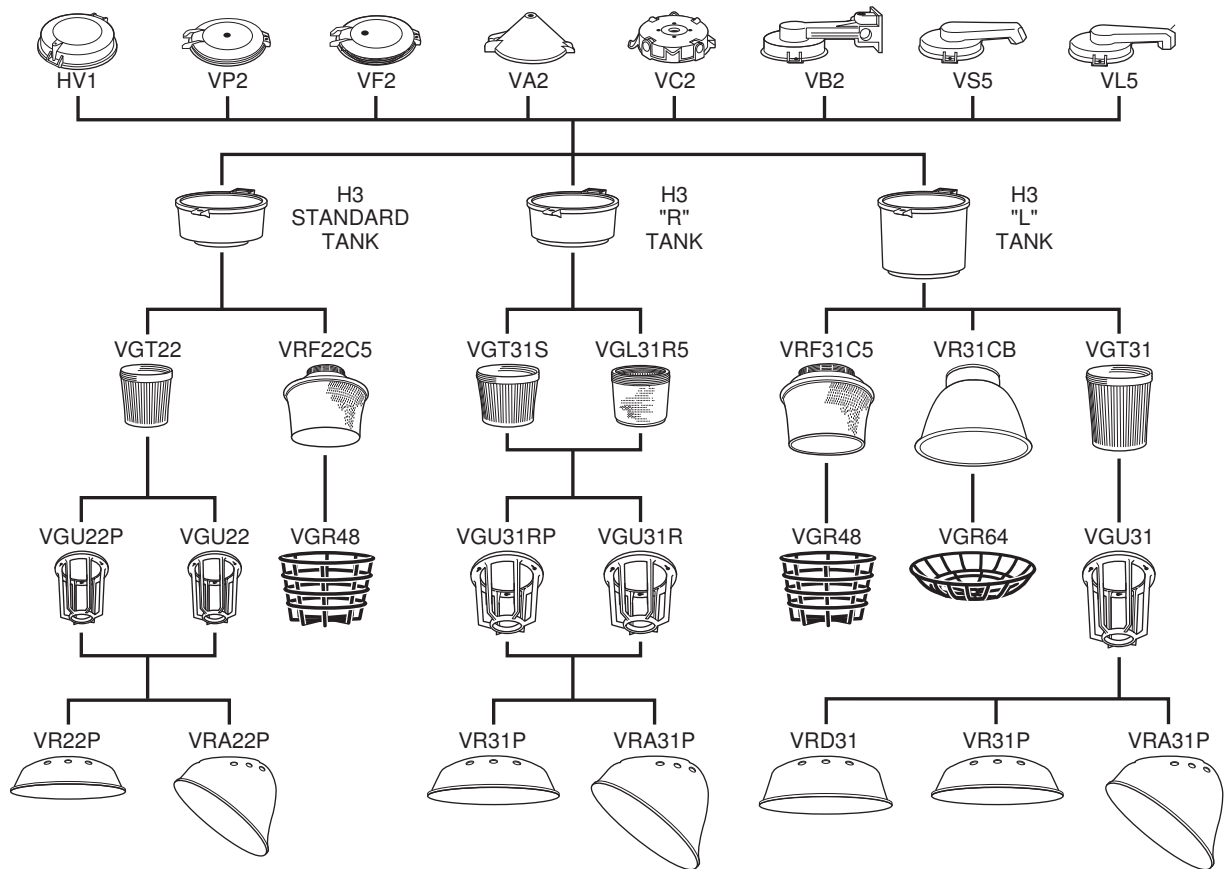
ASK THE EXPERT ⑯



H.I.D. M & H SERIES: OPTIONS

MARINE AND HAZARDOUS LOCATIONS

- ① TASK
- ② PAINTBOOTH
- ③ VAPOR DUST
- ④ VAPOR
- ⑤ WET DAMP
- ⑥ MARINE
- ⑦ EXPLOSION PROOF
- ⑧ HID
- ⑨ INSPECTION
- ⑩ PORTABLE LIGHTING
- ⑪ MOUNTING
- ⑫ PHOTOMETRY
- ⑬ LAMPS BALLASTS
- ⑭ INFO
- ⑮ CUSTOM
- ⑯ ASK THE EXPERT



H.I.D. Options

The options listed below plus many more are available with LDPI H.I.D. fixtures.

Instant Restart (50-150W HPS)

Allows high pressure sodium lamp to be immediately restarted after a momentary power outage.

Auxiliary Quartz Circuit - All

Fixture provided with 120 volt 100W lamp quartz lamp circuit. Quartz lamp will operate during HID warm-up period, or when HID lamp cools down before restarting.

NEMA Lamp Wattage Decal - All

Adhesive back lamp wattage decal is provided on ballast housing exterior to clearly indicate wattage for relamping and maintenance.

Auto Shutoff Option (50-150W HPS)

Auto shutoff device prevents starter failure by disabling the starter circuit in case of cycling or defective HPS lamp.

(not for use with instant restart option.)

50 Hertz Ballast (Most H.I.D. Fixtures)

50 Hertz ballast in a variety of voltages can be furnished for international voltage systems.

Tuffskin® Coated Glass Globes (All globes)

Tuffskin silicone coating contains glass particles in case of breakage, and prevents glass from contaminating process areas.

HazCote™ Custom Corrosion Resistant Coating (All)

Custom chemical coating provides even higher degree of corrosion protection for cast aluminum parts. For use in highly corrosive environments.

Dual Arc Tube Lamps (HPS)

Provide standby/immediate restart capabilities.

Stainless Steel Inserts (All)

Stainless Steel inserts for guard screws and ballast housing closure screw eliminate possibility of galvanic corrosion between stainless steel screws and aluminum parts.

UNIPAK® Packaging (All)

UNIPAK® packaging means that fixtures are completely assembled - with lamp - and foamed in one carton. Saves labor, handling, storage and reduces total installed cost per fixture.

HazVertor™ Adapter Ring

UL listed adapter ring enables quick, easy, UL listed retrofit of Crouse-Hinds® VMV, LMV and DMV series Champ® fixtures.


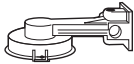






Crouse-Hinds® and Champ® are registered trademarks of Cooper Industries, Inc.







H.I.D. M & H SERIES: OPTIONS

MARINE AND HAZARDOUS LOCATIONS





MOUNTING COVERS

Mounting Style	Hub Size	Cat. No.	Mounting Style	Hub Size	Cat. No.
Rigid Pendant 	3/4" 1"	VP2 VP3	Wall 	3/4" 1"	VB2 VB3
Cone Pendant 	3/4" 1"	VA2 VA3	25° Stanchion 	1 1/4" 1 1/2"	VS2 VS3
Flexible Pendant 	3/4" 1"	VF2 VF3	Straight Stanchion 	1 1/4" 1 1/2"	VL2 VL3
Ceiling 	3/4" 1"	VC2 VC3	HazVerter Ring 		HV2 HV3




REFLECTORS, EXIT SIGN	Cat. No.	Description
	VR22P	Standard Dome Fiberglass Reinforced Polyester For use with Std. Housing
	VR31P	Standard Dome Fiberglass Reinforced Polyester For use with "R" and Lg. Housing
	VRD31	Deep Dome Anodized Aluminum For use with "R" and Lg. Housings
	VR31CB	Enclosed High Bay Anodized Aluminum with lens For use with "R" or Lg. Housings
	VRA22P	30° Angle Reflector Fiberglass Reinforced Polyester For use with Std. Housing
	VRA31P	30° Angle Reflector Fiberglass Reinforced Polyester For use with "R" or Lg. Housing
	VRE22	Three sided Exit Sign For use with Std. housing

- TASK ①
- PAINTBOOTH ②
- VAPOR DUST ③
- VAPOR ④
- WET DAMP ⑤
- MARINE ⑥
- EXPLOSION PROOF ⑦
- HID ⑧**
- INSPECTION ⑨
- PORTABLE LIGHTING ⑩
- MOUNTING ⑪
- PHOTOMETRY ⑫
- LAMPS BALLASTS ⑬
- INFO ⑭
- CUSTOM ⑮
- ASK THE EXPERT ⑯

GLOBES, REFRACTORS

	Cat. No.	Description
	VGT22	5 1/2" dia. Heat Resistant Globe For use with standard housing (250W max)
	VGT31S	7 3/4" dia. Heat Resistant Globe For use with "R" Housing (250W max)
	VGT31	7 3/4" dia. Heat Resistant Globe For use with large Housing (400W max)
	VGL31R1	7 3/4" IES Type I Refractor Globe For use with "R" housing (250W max)
	VGL31R3	7 3/4" IES Type III Refractor Globe For use with "R" housing (250W max)
	VGL31R5	7 3/4" IES Type V Refractor Globe For use with "R" housing (250W max)
	VRF22C2	12" dia. IES Type II Refractor 5 1/2" thread, for use with standard housing
	VRF22C5	12" dia. IES Type V Refractor 5 1/2" thread, for use with standard housing
	VRF31C2	12" dia. IES Type II Refractor 7 3/4" thread, for use with "R" and large housings
	VRF31C5	12" dia. IES Type V Refractor 7 3/4" thread, for use with "R" and large housings

GUARDS

	Cat. No.	Description
	VGU22P	Polymeric Guard for VGT series Globes
	VGU31RP	Polymeric Guard for VGT31S Globe and VGL31R Series Refractor Globes
	VGU31R	Cast Aluminum Guard for VGT31S Globe and VGL31R Series Refractor Globes
	VGU31	Cast Aluminum Guard for VGT31 Globe
	VGR48	Steel Wire Guard for all VRF Series 12" Refractors
	VGR64	Steel Wire Guard for VR31CB Enclosed High Bay Reflector

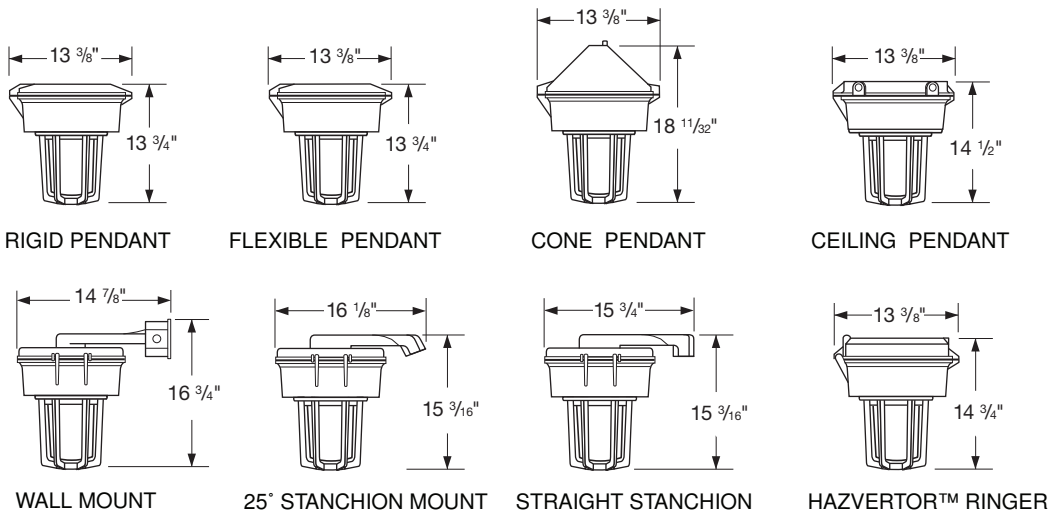


H.I.D. M & H SERIES

DIMENSIONS

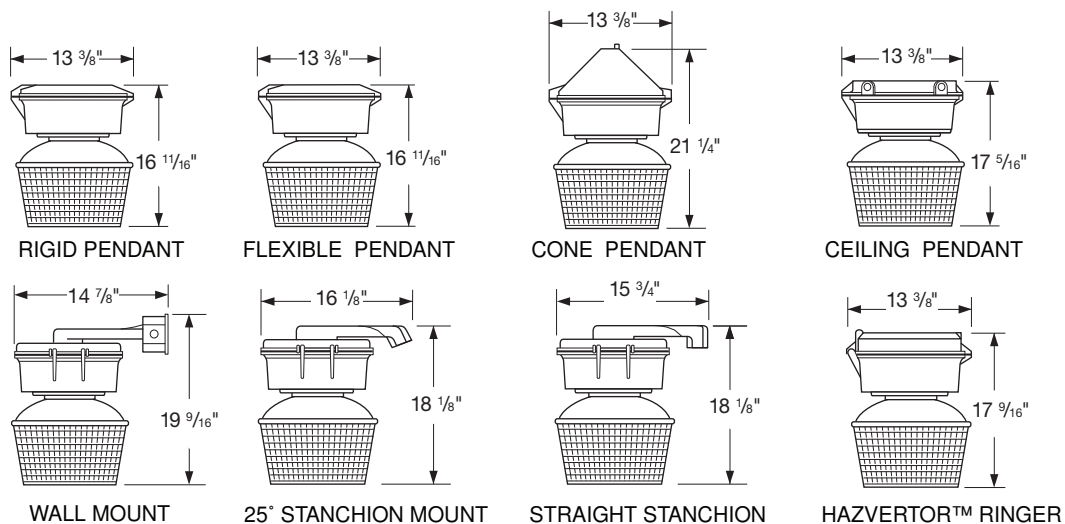
H.I.D. M & H SERIES MARINE AND HAZARDOUS LOCATION FIXTURES

STANDARD BALLAST HOUSING WITH GLOBE AND GUARD



FOR LARGE BALLAST HOUSING WITH GLOBE AND GUARD ADD 7 5/8" (7.625) TO HEIGHT MEASUREMENT

STANDARD BALLAST HOUSING WITH 12" REFRACTOR AND GLOBE



FOR LARGE BALLAST HOUSING WITH 12" REFRACTOR AND GLOBE ADD 4 3/16" (4.1875) TO HEIGHT MEASUREMENT

TASK	①
PAINTBOOTH	②
VAPOR DUST	③
VAPOR	④
WET DAMP	⑤
MARINE	⑥
EXPLOSION PROOF	⑦
HID	⑧
INSPECTION	⑨
PORTABLE LIGHTING	⑩
MOUNTING	⑪
PHOTOMETRY	⑫
LAMPS BALLASTS	⑬
INFO	⑭
CUSTOM	⑮
ASK THE EXPERT	⑯



H.I.D. M & H SERIES / M2 & H2 SERIES

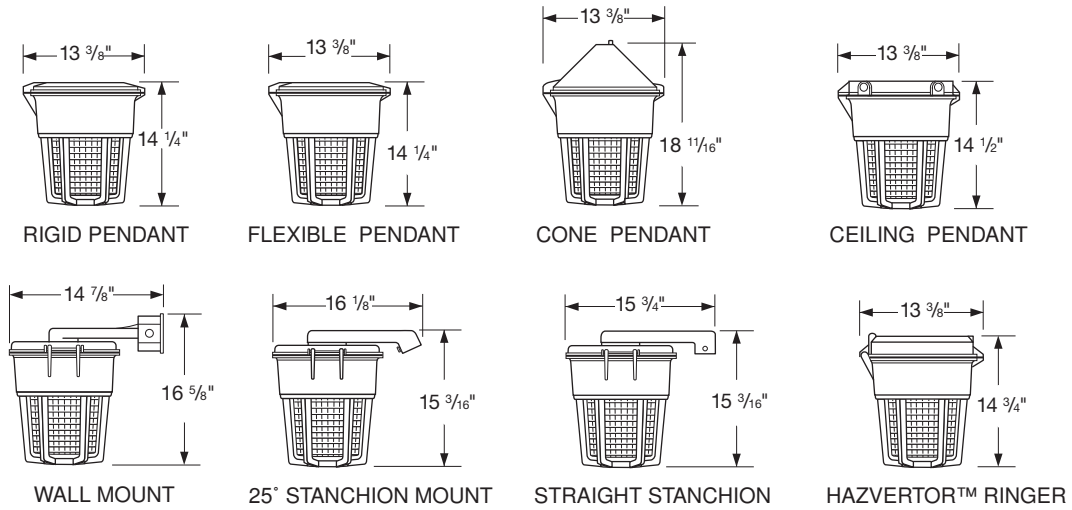
DIMENSIONS

H.I.D. M & H SERIES MARINE AND HAZARDOUS LOCATION FIXTURES

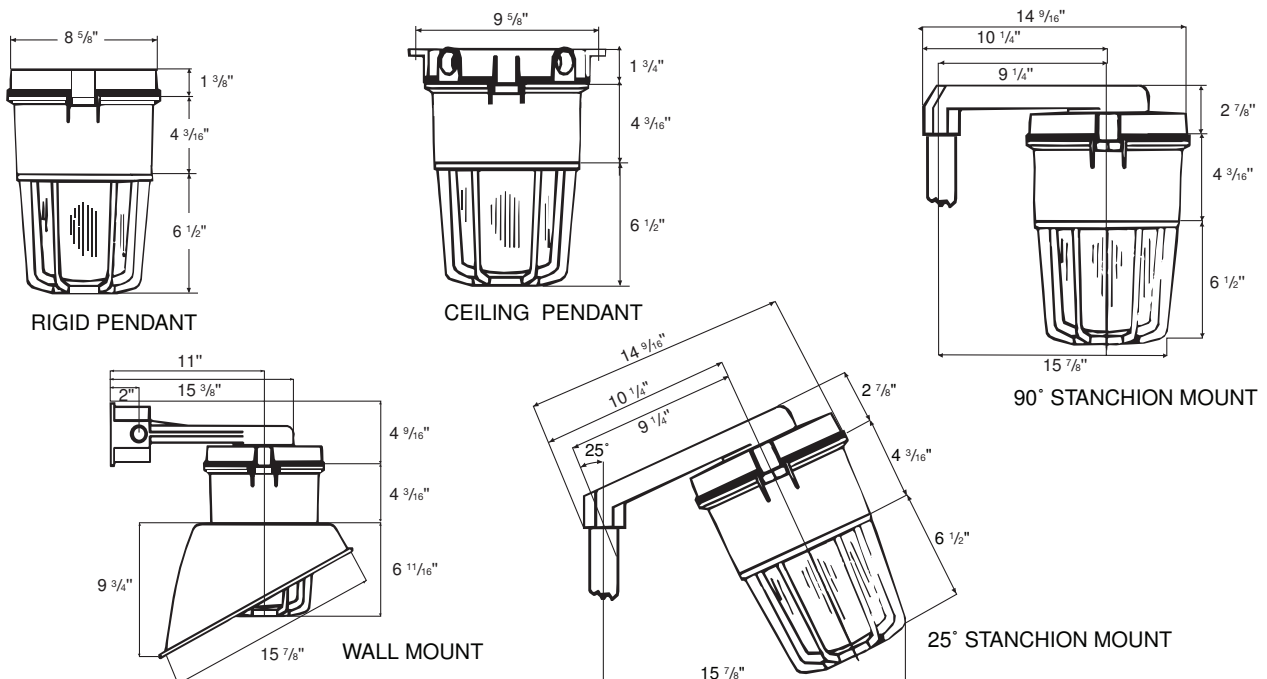
- ① TASK
- ② PAINTBOOTH
- ③ VAPOR DUST
- ④ VAPOR
- ⑤ WET DAMP
- ⑥ MARINE
- ⑦ EXPLOSION PROOF
- ⑧ HID
- ⑨ INSPECTION
- ⑩ PORTABLE LIGHTING
- ⑪ MOUNTING
- ⑫ PHOTOMETRY
- ⑬ LAMPS BALLASTS
- ⑭ INFO
- ⑮ CUSTOM
- ⑯ ASK THE EXPERT

R TANK HOUSING WITH 7 3/4" REFRACTOR AND GUARD

R TANK HOUSING WITH 7 3/4" GLOBE AND GUARD



H.I.D. M2 & H2 SERIES MARINE AND HAZARDOUS LOCATION FIXTURES





H.I.D. H SERIES

50 - 400 WATTS HAZARDOUS LOCATIONS

H.I.D. H SERIES CERTIFICATION GUIDE (40°C AMBIENT) STANDARD BALLAST HOUSING 5 1/2" THREAD

LAMP TYPE	WATTS	AMBIENT TEMP (Deg. C)	CLASS I, DIV. 2 GROUP A, B, C, D TEMPERATURE CODE		CLASS II DIV. 1 & 2 GROUPS		UL 595 MARINE	NEMA 4X	SUPPLY WIRE TEMP. RATING (Deg. C)
			VGT/VGL22.5-1/2" Globe, Guard & Reflector	VRF22C5 12" Dia. Refractor	VGT/VGL22.5-1/2" Globe, Guard and Reflector	VRF22C5 12" Dia. Refractor			
HIGH PRESSURE SODIUM	50	40	T3C	T4	EFG	EFG	YES	YES	85
	70	40	T3A	T3C	EFG	EFG	YES	YES	85
	100	40	T2C	T2D	EFG	EFG	YES	YES	85
	150	40	T2A	T2B	-	EFG	YES	YES	90
MERCURY VAPOR	100	40	T2B	T2C	EFG	EFG	YES	YES	85
	175	40	T2	T2B	-	EFG	YES	YES	90
	250	40	350° C	325° C	-	EFG	-	YES	110
METAL HALIDE	70	40	T3C	T3C	EFG	EFG	YES	YES	60
	100	40	T3A	T3A	EFG	EFG	YES	YES	75
	175	40	T2A	T2C	-	EFG	YES	YES	90
	250	40	T2	T2	-	EFG	-	YES	125

- TASK ①
- PAINTBOOTH ②
- VAPOR DUST ③
- VAPOR ④
- WET DAMP ⑤
- MARINE ⑥
- EXPLOSION PROOF ⑦
- HID ⑧**
- INSPECTION ⑨
- PORTABLE LIGHTING ⑩
- MOUNTING ⑪
- PHOTOMETRY ⑫
- LAMPS BALLASTS ⑬
- INFO ⑭
- CUSTOM ⑮
- ASK THE EXPERT ⑯

- NOTES: 1.) Simultaneous Presence Applications: Some H.I.D. H Series fixtures are UL Listed for simultaneous presence of gas and dust. Contact LDPI for specific information.
 2.) Tuffskin® Coated Optics: Many H.I.D. Series H fixtures are UL Listed with Tuffskin® (silicone) coating on glass optics. Contact LDPI for specific information.
 3.) For UL and CSA Certification Information on other ambient temperatures and fixture configurations, consult the factory.
 4.) Consult factory for fixtures with higher ambient temperature ratings.

H.I.D. H SERIES CERTIFICATION GUIDE (40°C AMBIENT) R-TANK BALLAST HOUSING 7 3/4" THREAD

LAMP TYPE	WATTS	AMBIENT TEMP (Deg. C)	CLASS I, DIV. 2 GROUP A, B, C, D TEMPERATURE CODE		CLASS II DIV. 1 & 2 GROUPS		UL 595 MARINE*	NEMA 4X*	SUPPLY WIRE TEMP. RATING (Deg. C)
			VGT31S 7-3/4" Globe, Guard & Reflector	VGL31R5 7-3/4" Dia. Refractor	VGT31S 7-3/4" Globe, Guard and Reflector	VGL31R5 7-3/4" Dia. Refractor			
HIGH PRESSURE SODIUM	50	40	T3C	T3C	EFG	EFG	YES	YES	60
	70	40	T3A	T3A	EFG	EFG	YES	YES	85
	100	40	T2D	T3	EFG	EFG	YES	YES	85
	150	40	T2B	T2B	EFG	EFG	YES	YES	85
MERCURY VAPOR	100	40	T2B	T2B	EFG	EFG	YES	YES	85
	175	40	T2	T2A	EFG	EFG	YES	YES	90
	250	40	350° C	350° C	EF	EF	-	YES	110
METAL HALIDE	70	40	T3C	T3C	EFG	EFG	YES	YES	75
	100	40	T3A	T3A	EFG	EFG	YES	YES	75
	175	40	T2B	T2B	EFG	EFG	YES	YES	90
	250	40	T2	T2	EF	EF	-	YES	125

- NOTES: 1.) Simultaneous Presence Applications: Some H.I.D. H Series fixtures are UL Listed for simultaneous presence of gas and dust. Contact LDPI for specific information.
 2.) Tuffskin® Coated Optics: Many H.I.D. Series H fixtures are UL Listed with Tuffskin® (silicone) coating on glass optics. Contact LDPI for specific information.
 3.) For UL and CSA Certification Information on other ambient temperatures and fixture configurations, consult the factory.

NOTE REGARDING GLASS GLOBES AND REFRACTORS — All LDPI fixture assemblies shown in the catalog as UL Listed and CSA Certified for Marine applications are suitable for hosedown when fixture is off and glass has been allowed to cool. Tempered glass globes and refractors have better thermal shock resistance properties than non-tempered globes and refractors and should be considered whenever fixtures are subject to being splashed with significantly cooler liquids while illuminated (hot). Consult factory for more information.



H.I.D. H SERIES

50 - 400 WATTS HAZARDOUS LOCATIONS

H.I.D. H SERIES CERTIFICATION GUIDE (40°C AMBIENT) LARGE BALLAST HOUSING 7 3/4" THREAD

- ① TASK
- ② PAINTBOOTH
- ③ VAPOR DUST
- ④ VAPOR
- ⑤ WET DAMP
- ⑥ MARINE
- ⑦ EXPLOSION PROOF
- ⑧ HID
- ⑨ INSPECTION
- ⑩ PORTABLE LIGHTING
- ⑪ MOUNTING
- ⑫ PHOTOMETRY
- ⑬ LAMPS BALLASTS
- ⑭ INFO
- ⑮ CUSTOM
- ⑯ ASK THE EXPERT

LAMP TYPE	WATTS	AMBIENT TEMP (Deg. C)	CLASS I, DIV. 2 GROUP A, B, C, D TEMPERATURE CODE			CLASS II DIV. 1 & 2 GROUPS			UL 595 MARINE	NEMA 4X	SUPPLY WIRE TEMP. RATING (Deg. C)
			VGT31 Globe, Guard & Reflector	VRF31C5 12" Dia. Refractor	VR31CB Reflector w/lens	VGT31 Globe, Guard & Reflector	VRF31C5 12" Dia. Refractor	VR31CB Reflector w/lens			
HIGH PRESSURE SODIUM	200	40	T2	T2A	T2A	T2	T2A	T2A	YES	YES	90
	250	40	350° C	350° C	350° C	350° C	350° C	350° C	YES	YES	90
	400	40	T2A	T2B	T2B	T2A	T2B	T2B	-	YES	110
MERCURY VAPOR	250	40	350° C	325° C	325° C	350° C	325° C	325° C	-	YES	110
	400	40	350° C	325° C	325° C	350° C	325° C	325° C	-	YES	110
METAL HALIDE	250	40	T2	T2A	T2A	T2	T2A	T2A	-	YES	110
	400	40	350° C	325° C	325° C	350° C	325° C	325° C	-	YES	110

NOTES: 1.) Simultaneous Presence Applications: Some H.I.D. H Series fixtures are UL Listed for simultaneous presence of gas and dust. Contact LDPI for specific information.
 2.) Tuffskin® Coated Optics: Many H.I.D. Series H fixtures are UL Listed with Tuffskin® (silicone) coating on glass optics. Contact LDPI for specific information.
 3.) For UL and CSA Certification Information on other ambient temperatures and fixture configurations, consult the factory.
 4.) Consult factory for fixtures with higher ambient temperature ratings.

H.I.D. H2 SERIES CERTIFICATION GUIDE (40°C AMBIENT) For UL844/595 listing at 40°C AMBIENT

- ⑫ PHOTOMETRY
- ⑬ LAMPS BALLASTS
- ⑭ INFO
- ⑮ CUSTOM
- ⑯ ASK THE EXPERT

FIXTURE TYPE	WATTS	SERIES	CLASS I, DIV. 2 GROUP A, B, C, D TEMPERATURE CODE		CLASS II DIV. 1 & 2 GROUPS		CLASS III DIV. 1 & 2		NEMA 4X	UL 595 MARINE
			Globe, & Guard With or W/O Reflector	8" Refractor	Globe, & Guard With or W/O Reflector	8" Refractor	Globe, & Guard With or W/O Reflector	8" Refractor		
HIGH PRESSURE SODIUM	35	DSM	T3A	T3A	EFG	EFG	YES	YES	YES	YES
	50	DSM	T3	T3	EFG	EFG	YES	YES	YES	YES
	70	DSM	T2B	T2B	EFG	EFG	YES	YES	YES	YES
	100	DSM	T2A	T2A	EF	EFG	-	YES	YES	YES
	150	DSM	325° C	325° C	EF	EFG	-	YES	YES	-
MERCURY VAPOR	50	DMM	T2B	T2B	EFG	EFG	YES	YES	YES	YES
	75	DMM	T2	T2	EFG	EFG	YES	YES	YES	YES
	100	DMM	325° C	325° C	EF	EFG	-	YES	YES	-
FLUORESCENT	9	DFB	T3C	T3C	EFG	EFG	YES	YES	YES	YES
	13	DFB	T3C	T3C	EFG	EFG	YES	YES	YES	YES
	18	DFB	T3C	T3C	EFG	EFG	YES	YES	YES	YES
	26	DFB	T3	T3	EFG	EFG	YES	YES	YES	YES
INCANDESCENT	60	DIM	T3	T3	EF	EFG	-	YES	YES	YES
	100	DIM	T3	T3	EF	EFG	-	YES	YES	YES
	150	DIM	T2B	T2B	-	EFG	-	YES	YES	YES

NOTE REGARDING GLASS GLOBES AND REFRACTORS — All LDPI fixture assemblies shown in the catalog as UL Listed and CSA Certified for Marine applications are suitable for hosedown when fixture is off and glass has been allowed to cool. Tempered glass globes and refractors have better thermal shock resistance properties than non-tempered globes and refractors and should be considered whenever fixtures are subject to being splashed with significantly cooler liquids while illuminated (hot). Consult factory for more information.