

HYDREL



UNDERWATER LIGHTING

FOUNTAIN  
REFLECTION POOL  
SWIMMING POOL





Wynn Las Vegas, Le Reve

OVERVIEW	2
REFLECTION POOL & FOUNTAIN POOL LIGHTS	5
BASE MOUNT HID	6
BASE AND YOKE MOUNTS	8-18
DYNAMIC COLOR LED BASE MOUNT	20-21
WET NICHE MOUNTS	22-27
WET/DRY LIGHTS	29-39
SWIMMING POOL LIGHTS	41
WET NICHE MOUNT HID	42
DRY NICHE MOUNT	44
WET NICHE MOUNTS	45-50
DYNAMIC COLOR LED WET NICHE MOUNT	48-49
UNDERWATER ACCESSORIES	53
INSTALLATION	57-60
APPLICATIONS	62-63
INDEX	64

See index on page 64 for  
alphanumeric product list.

## We produce no ordinary fixtures...

As leading designers and builders of underwater lights, Hydrel offers a special insight into the complex demands of providing efficient, durable lighting for fountains and other water effects.

Every Hydrel fixture is fashioned from superior materials, and the most advanced photometrics are incorporated into its design. Rigorous programs of quality control and final testing build in that extra dimension of performance and reliability that has been the hallmark of Hydrel units for over 50 years.

In short, we produce no ordinary fixtures.





## Hydrel offers the widest line of high quality

### Underwater fixtures for every application

Hydrel offers the widest and most varied line of underwater fixtures in the industry, including niche and base mounted lights for fountains and reflecting pools, special fixtures for wet/dry applications, and swimming pool lights.

These reliable lights are available in a variety of lamp choices and are complemented by a line of accessories and electrical equipment.

All products are designed for easy installation and servicing. All meet the National Electric Code under Article 680, and are also listed by Underwriters Laboratories and NEMKO (IEC 598) for CE Label.

This catalog presents Hydrel's complete line of underwater lights. Application and Installation information is also included.



### Swimming Pool lights

Swimming pool lights require special safeguards, which are incorporated into the versatile line of Hydrel fixtures designed specifically for commercial and residential swimming pools. These fixtures meet Hydrel's high standards for quality construction and styling as well as the rigid safety requirements for swimming pools.

### Reflection Pool and Fountain Pool lights

Hydrel's extensive line of fountain and reflecting pool lights, in niche and base mounted styles, accommodates a wide variety of installations and water effects.

In addition to a standard range of lamp options, Hydrel has pioneered the underwater use of the quartz halogen lamp, providing a light that is especially flattering to many water effects. All fountain and reflection pool lights are designed with a temperature sensing, low water cut-off (LWC) feature to guard against overheating.



## underwater fixtures in the industry



### Wet/Dry lights

The Hydrel line of wet/dry lights is designed especially for use in areas of water features that are prone to being dry or could possibly be dry much of the time. These versatile fixtures can operate totally submerged but, unlike other underwater lights, do not depend upon water for cooling and therefore continue to operate even when water levels are low. This feature makes the wet/dry fixtures ideal for use on the edges of waterfalls, streams, or fountains and in installations with a fluctuation in water level.





## REFLECTION POOL AND FOUNTAIN POOL LIGHTS

### HID fixture, page 7



4428

Niche and base mounted styles accommodate a wide variety of installations and water effects. Base mounted models are free-standing. Yoke mounted models are designed for stud or mounting bolts. Wet niche types are available in floor and wall mount models.

### Base and yoke mount fixtures, pages 7-21



4427



4424



4421



4413



4411



4426



4418



4412



4410



4800



4409



4415

### Niche mount fixtures, pages 22-27



4424



4421



4413



4415



4418



4800

Hydrel reflection pool and fountain pool lights are built to meet or surpass Underwriter Laboratories standards, as well as those of the National Electric Code and NEMKO, per standard IEC598. They meet the safety requirements for fountains and decorative pools. Reflection pool and fountain pool lighting fixtures are not intended for use in swimming pools. Additional safeguards are required for swimming pool lighting.

Photo left:

The falls at a corporate park in San Francisco are illuminated with small quartz halogen underwater lights.



## 4428 - Metal Halide Fountain Light

This 175 Watt Metal Halide Fountain Light, the first HID underwater light in the industry, delivers the equivalent light output of a 1000 Watt quartz halogen lamp while consuming only one-fifth the power and attaining 2 1/2 times longer lamp life.



### One-fifth the Power

Industry's first 175 Watt Metal Halide pool light provides light output equivalent to a 1000 Watt incandescent lamp but uses only one-fifth the power.

### Over Two Times the Life

175 Watt HID lamp provides 10,000 hours of operation compared to 4,000 hours for a 1000 Watt quartz halogen lamp.

- Metal Halide ballast encapsulated and contained in fixture.
- Heavy wall cast bronze construction.
- Tempered borosilicate clear lens and silicone gaskets.
- Three reflectors - a 7° spot, a medium flood, and a wall wash to cover most applications.
- 7° spot produces 60,000 candelas.
- Improved color - more light in blue region of the spectrum.
- Wet/Dry listed - submersion not required for safe operation.
- Lockable tilt-standard.
- Minimum of 10 feet of 16-3 STW submersible cord provided. Cord length must be specified.
- Lamp included.
- Also available as a niche mounted swimming pool or fountain light.



# Model 4428

## DESCRIPTION

These heavy duty cast bronze underwater metal halide fixtures are the first of their kind for use in fountains, reflecting pools, and illuminating waterfalls. These units are designed to accept an E-17, 175 Watt metal halide lamp. The integral ballast is completely sealed and encapsulated in a custom epoxy designed for this use. This unit yields a lamp life of up to 10,000 hours of operation, which exceeds any other fixture designed for fountain lighting.

## SPECIFICATIONS

**FIXTURE HOUSING AND DOOR:** Heavy wall cast bronze construction. Natural cast bronze finish.

**FIXTURE BASE:** Cast bronze with 23° adjustable mechanical tilt.

**LAMP:** 175 Watt only, E-17 medium base (ANSI M57), Metal Halide. (Lamp included).

**SOCKET:** Pulse rated medium base with nickel-plated copper screwshell and 200° C leads.

**VOLTAGE:** 120 Volt only.

**DISTRIBUTION:** Choice of Spot, Flood, or Wall Wash light distributions.

**BALLAST:** High power factor CWA core & coil ballast encapsulated into the fixture housing.

**LENS:** 83/8" diameter flat clear tempered glass, standard. Optional 5° linear spread lens.

**GASKET:** Single piece molded U-shaped silicone.

**CORD:** Minimum of 10' of #16-3 STW submersible cord. Cord entrance is epoxy encapsulated. Cord length must be specified.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

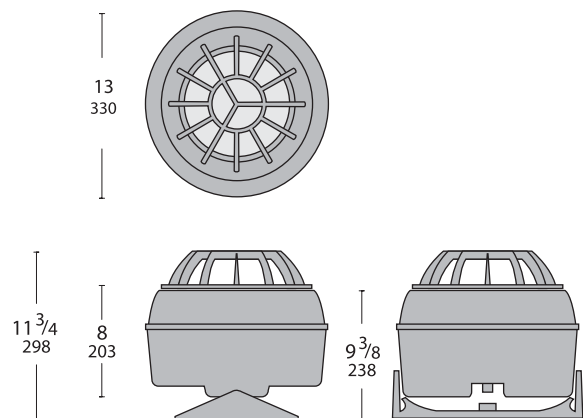
**FASTENERS:** Stainless steel.

**ACCESSORIES:** Internal Source Shield, Wall Wash Louver, Internal Honeycomb Louver, Color Filters.

**LISTING:** U.L.



4428



Dimensions shown in inches and millimeters.

Model	Voltage	Lamp	Voltage	Distribution	Lens	Mounting	Accessories <sup>3</sup>	Cord Set Length	Lamp
4428	B Bronze SWB Salt Water Bronze	175M <sup>1</sup> E17 MED	120 <sup>2</sup>	SP Spot FL Flood WWD Wall Wash Dist.	FLC Flat Lens Clear FLCS Flat Lens 5° spread	BM Base Mount	ISS Internal Source Shield (Spot only) WWL Wall Wash Louver (WWD only) IHL Internal Honeycomb Louver CFAMB Color Filter Amber CFBLU Color Filter Blue CFGREN Color Filter Green CFRED Color Filter Red	CSL 10' - 120' of cord available in 5' increments	LP Lamp Installed

<sup>1</sup> Available in 175W Metal Halide only

<sup>2</sup> Available in 120V only

<sup>3</sup> Only one accessory per fixture

# Model 4427

## DESCRIPTION

The 4427 is a heavy-duty, all cast bronze, 1000 Watt quartz halogen fixture for fountain or water effect applications. Yoke mount model accepts 3/8" diameter stud or mounting bolt. Base mount model includes 12" diameter cast bronze base with provisions for floor anchor bolts. Unit is capable of up to 180° of vertical adjustment. Rock guard is standard on both yoke and base mount models.

## SPECIFICATIONS

**FIXTURE HOUSING AND ROCK GUARD:** Heavy wall cast bronze construction. Natural bronze finish.

**LAMP:** 120 Volt, PAR 64, 1000 Watt max., Quartz Halogen. (Lamp included).

**SOCKET:** Mogul end prong type with 200°C insulated leads.

**LENS:** 8 3/8" diameter convex clear tempered heat resistant glass. Amber, blue, green, and red lenses also available.

**GASKET:** Single-piece molded U-shaped silicone.

**CORD:** Minimum of 10' of #16-3 STW submersible cord. Cord entrance is brass, watertight seal, and epoxy encapsulated. Cord length must be specified.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

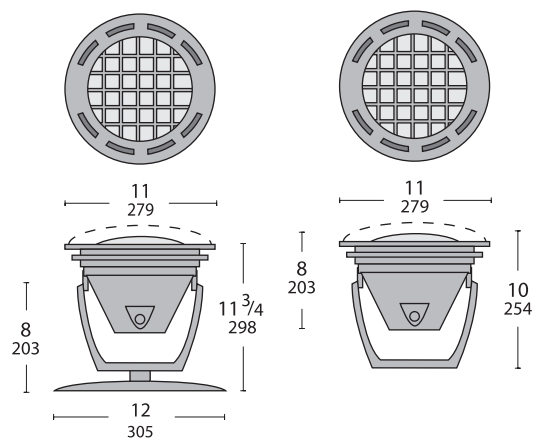
**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

**FASTENERS:** Stainless steel.

**LISTING:** U.L., CSA



4427



BASE MOUNT

YOKE MOUNT

Dimensions shown in inches and millimeters.

Model	Material	Lamp Type	Voltage	Distribution	Lens	Mounting	Mounting Acc. <sup>3</sup>	Cord Set Length	Lamp	Options
4427	B Bronze SWB Salt Water Bronze	P645001 PAR64 MGEP P6410001 <sup>1</sup> PAR64 MGEP	120	MFL Medium Flood NSP Narrow Spot WFL Wide Flood	CLC <sup>2</sup> Convex Lens Clear CLA Convex Lens Amber CLB Convex Lens Blue CLG Convex Lens Green CLR Convex Lens Red	BM Base Mount YM Yoke Mount	ALB Adjustable Locking Base RSR <sup>4</sup> 4" - 24" Riser Stem avail. in 2" increments	CSL <sup>3</sup> 10' - 120' of cord available in 5' increments	LPI Lamp Included	Listing CSA Canadian Standard Assoc.

<sup>1</sup> P6410001 - default

<sup>2</sup> CLC - default

<sup>3</sup> Mounting Accessories w/ BM only

<sup>4</sup> RSR6 - default with ALB

## REFLECTION POOL AND FOUNTAIN POOL LIGHTS

## BASE / YOKE MOUNTS

## Model 4424

## DESCRIPTION

The 4424 is a heavy-duty, cast bronze fixture suitable for fountain or water effect applications. 120 Volt model accepts a 500 Watt PAR 56 quartz halogen lamp or a 300 Watt PAR 56 incandescent lamp. 12 Volt model accepts a PAR 56 screw terminal lamp to 300 Watts max. Yoke mount model accepts 3/8" diameter stud or mounting bolt. Base mount model includes 12" diameter cast bronze base with provisions for floor anchor bolts. Unit is capable of up to 180° of vertical adjustment. Rock guard is standard on both yoke and base mount models.

(Now includes Model 4422)

## SPECIFICATIONS

**FIXTURE HOUSING AND DOOR:** Heavy wall cast bronze construction. Natural bronze finish.

**LAMP:** 120 Volt: PAR 56, 500 Watt Quartz Halogen. 12 Volt: PAR 56, 300 Watt max., Quartz Halogen. (Lamp included).

**SOCKET:** 120 Volt: Mogul end prong with 200°C insulated leads. 12 Volt: Screw terminal.

**LENS:** 8 3/8" diameter convex clear tempered heat resistant glass. Amber, blue, green, or red lenses also available.

**GASKET:** Single-piece molded U-shaped silicone.

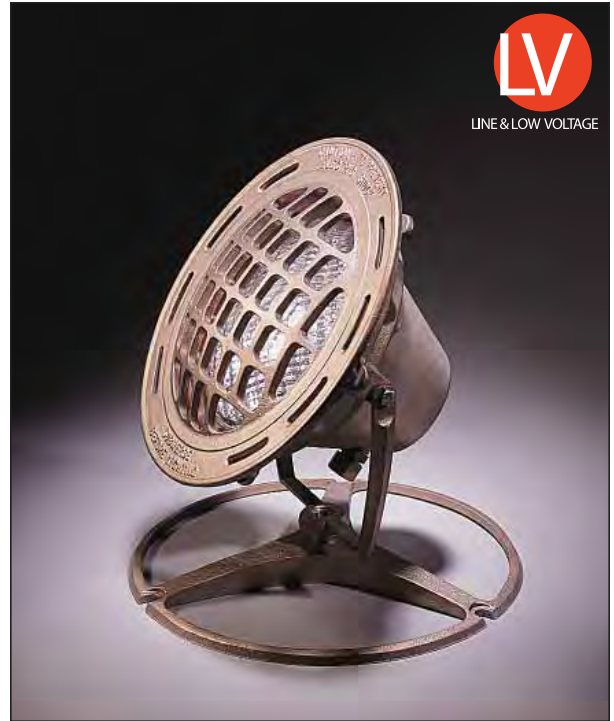
**CORD:** Minimum of 10' of #10-3 STW for US standard, 3m HO7RN-F-2x4mm2 for European standard submersible cord for 120 Volt fixtures. Minimum of 10' of #16-3 STW for US standard submersible cord for 120 Volt fixtures. Cord entrance is brass, water-tight seal and epoxy encapsulated. Cord length must be specified.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

**FASTENERS:** Stainless steel.

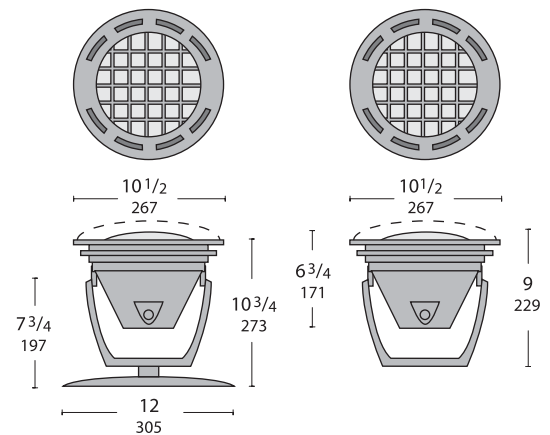
**LISTING:** U.L., CSA, CE, CB, NEMKO



IP-68  $\nabla$   
4M

4424

CE CB APPROVED (N)  
Lamp Included



BASE MOUNT

YOKE MOUNT

Dimensions shown in inches and millimeters.

Model	Material	Lamp Type	Voltage	Distribution	Lens	Mounting	Mounting Acc. <sup>4</sup>	Cord Set Length	Lamp	Options
4424	B Bronze SWB Salt Water Bronze	Incandescent P563001 PAR56 MGEP P565001 <sup>1</sup> PAR56 MGEP <u>Low Voltage</u> P562401LV PAR56 Screw Terminal P563001LV <sup>2</sup> PAR56 Screw Terminal	120 12 <sup>2</sup>	MFL Medium Flood NSP Narrow Spot WFL Wide Flood	CLC <sup>3</sup> Convex Lens Clear CLA Convex Lens Amber CLB Convex Lens Blue CLG Convex Lens Green CLR Convex Lens Red	BM Base Mount YM Yoke Mount	ALB Adjustable Locking Base RSR <sup>5</sup> 4"-24" Riser Stem avail. in 2" increments	CSL <sup>6</sup> 10' - 120' of cord available in 5' increments	LPI Lamp Included	Listing CSA Canadian Standard Assoc. IEC <sup>7</sup> International Electrotechnical Commission
<sup>1</sup> P565001 - default for 120V <sup>2</sup> P563001LV - default for 12V. Transformer not included, sold separately. <sup>3</sup> CLC - default <sup>4</sup> Mounting Accessories w/ BM only <sup>5</sup> RSR6 - default with ALB <sup>6</sup> CLS50 - max for 12V <sup>7</sup> Available in 12V only										



# Model 4421

## DESCRIPTION

The 4421 series is ideal for shallow pool installations. Designed for the 120 Volt T-4 mini-can quartz halogen lamp to 500 Watt max. It is compact in size with an overall height of 8 3/8". The standard unit employs a medium-angle flood pattern reflector of chrome plated spun copper.

## SPECIFICATIONS

**FIXTURE HOUSING AND DOOR:** Heavy wall cast bronze construction. Natural bronze finish.

**LAMP:** 120 Volt, T-4 mini-can, 500 Watt max. (Lamp included).

**SOCKET:** Mini-can base type with 200°C insulated leads.

**DISTRIBUTION:** Reflector is parabolic chrome plated spun copper.

**LENS:** 7 9/16 diam. convex clear tempered heat resistant glass. Amber, blue, green, and red lenses available.

**GASKET:** Single-piece molded U-shaped silicone.

**CORD:** Minimum of 10' of #16-3 STW submersible cord. Cord entrance is brass, watertight seal, and epoxy encapsulated. Cord length must be specified.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

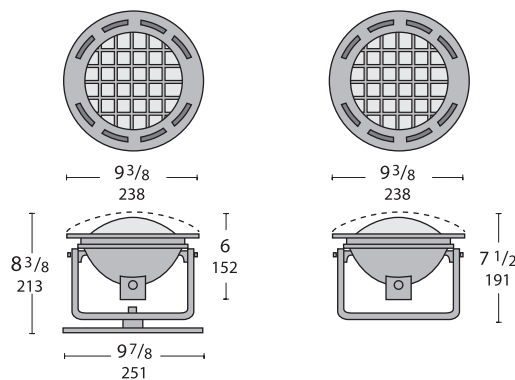
**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

**FASTENERS:** Stainless steel.

**LISTING:** U.L., CSA



4421



BASE MOUNT

YOKE MOUNT

Dimensions shown in inches and millimeters.

Model	Lamp Type	Voltage	Lens	Mounting	Mounting Acc. <sup>3</sup>	Cord Set Length	Lamp	Options
4421	100Q T4 Mini-can	120	CLC <sup>2</sup> Convex Lens Clear	BM Base Mount	ALB Adjustable Locking Base	CSL 10' - 120' of cord available in 5' increments	LPI Lamp Included	Listing CSA Canadian Standard Assoc.
	150Q T4 Mini-can		CLA Convex Lens Amber	YM Yoke Mount	RSR <sup>4</sup> 4" - 24" Riser Stem avail. in 2" increments			
	250Q T4 Mini-can		CLB Convex Lens Blue					
	400Q T4 Mini-can		CLG Convex Lens Green					
	500Q T4 Mini-can		CLR Convex Lens Red					

<sup>1</sup> 500Q - default

<sup>2</sup> CLC - default

<sup>3</sup> Mount Accessories w / base mount only

<sup>4</sup> RSR6 - default

# Model 4413

## DESCRIPTION

The 4413 low profile fountain light is a preferred option among the line of Hydrel's quartz halogen underwater lighting fixtures. This high performance fixture meets the fountain requirements for high light output, low profile, and adjustability with Hydrel's AIM-Lock™ System. The unit is capable of 360° of rotational and 90° from vertical adjustment. Rock guard is integral.

(Now includes Model 4414)

## SPECIFICATIONS

**FIXTURE HOUSING, ROCK GUARD, AND BASE:** Heavy wall cast bronze construction. Natural bronze finish.

**ADJUSTABILITY:** Four mounting heights, 360° rotational and 0°-90° from vertical adjustment. AIM-Lock™ enables fixture to be relamped without changing aim setting.

**LAMP:** 120 Volt, 400 Watt max. RSC double ended Quartz Halogen (maximum overall length of 3 1/8"); 500 Watt max., T4 Mini-can, Quartz Halogen. (Lamp included).

**SOCKET:** Two porcelain recessed single contact (RSC) or porcelain with nickel mini-can screwshell (MC), 200°C leads.

**DISTRIBUTION:** Reflector is polished aluminum specular Alzak®. Spot or diffuse Alzak® Flood.

**LENS:** Flat tempered borosilicate - clear. Amber, green, or red lenses also available.

**GASKET:** Single-piece molded U-shaped silicone.

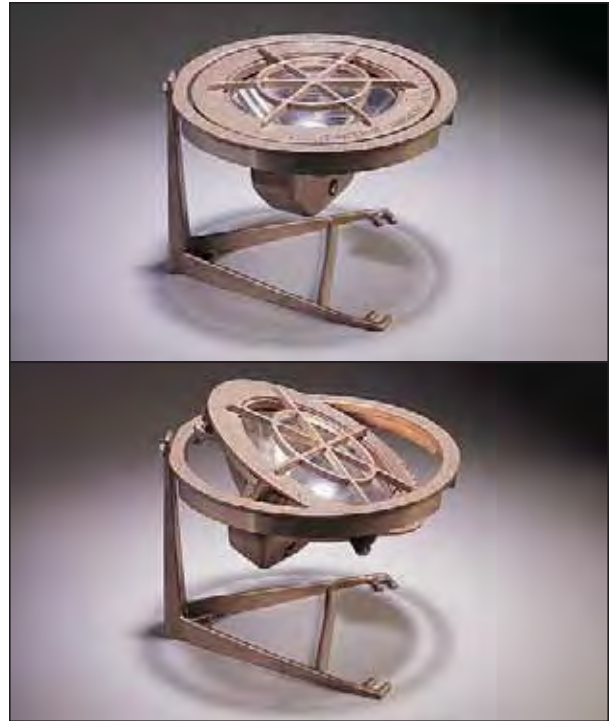
**CORD:** Minimum of 10' of 16-3 STW submersible cord. Cord entrance is epoxy encapsulated with internal strain relief. Cord length must be specified.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

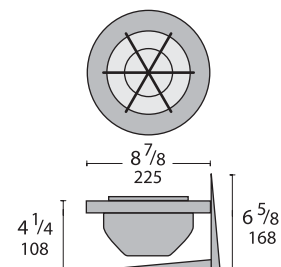
**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

**FASTENERS:** Stainless steel.

**LISTING:** U.L., CSA



4413



Dimensions shown in inches and millimeters.

Model	Lamp Type	Voltage	Distribution	Lens	Mounting	Cord Set Length	Lamp	Options
4413	100Q T4 Mini-can 150Q T4 Mini-can 150QT3 T3 R7S 200QT3 T3 R7S 250Q T4 Mini-can 300QT4 T4 R7S 400QT4 T4 R7S 500Q T4 Mini-can	120	SP Spot FL Flood	FLC <sup>1</sup> Flat Lens Clear FLAM Flat Lens Amber FLG Flat Lens Green FLR Flat Lens Red	BM Base Mount	CSL 10' - 120' of cord available in 5' increments	LPI Lamp Included	Listing CSA Canadian Standard Assoc.

<sup>1</sup> FLC - default

# Model 4411

## DESCRIPTION

The 4411 fountain light is an added result of Hydrel's development of quartz halogen underwater lighting. This high performance fixture meets the fountain requirements for high light output, low-profile, and adjustability. The cast bronze base, with riser, can be specified to maximum mounting height of 24". The unit utilizes a quartz halogen, T-4 Mini-can lamp to 250 Watts and a spot distribution. Rock guard is integral.

## SPECIFICATIONS

### FIXTURE HOUSING, INTEGRAL ROCK GUARD AND BASE:

Heavy wall cast bronze construction. Natural bronze finish.

**REFLECTOR:** Polished aluminum specular Alzak®

**ADJUSTABILITY:** Height adjustable. Rotational adjustment 0-90°. fixture removed for re-lamping via single pull pin.

**LAMP:** 120 Volt, T-4 mini-can, 100, 150, or 250 Watt Quartz Halogen. (Lamp included).

**SOCKET:** Porcelain with nickel mini-can screwshell, 200°C insulated leads.

**LENS:** Flat clear tempered borosilicate.

**GASKET:** Single-piece molded U-shaped silicone.

**CORD:** Minimum of 10' of #16-3 STW underwater cable. Cord entrance is epoxy encapsulated with external strain relief. Cord length must be specified.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

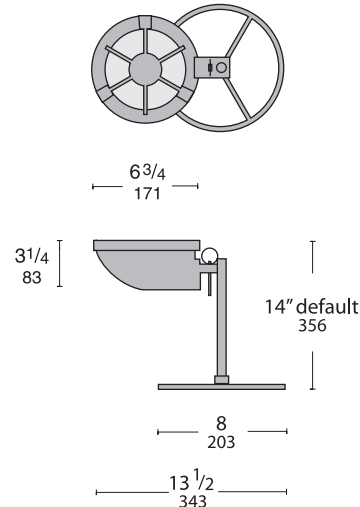
**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

**FASTENERS:** Stainless steel.

**LISTING:** U.L., CSA



4411



Dimensions shown in inches and millimeters.

Model	Lamp Type	Voltage	Mounting	Mounting Accessories	Cord Set Length	Lamp	Options
4411	100Q T4 Mini-can 150Q T4 Mini-can 250Q T4 Mini-can	120	BM Base Mount	RSR <sup>1</sup> 4'-24" Riser Stem avail. in 2' increments	CSL <sup>2</sup> 10' - 120' of cord available in 5' increments	LPI Lamp Included	Listing CSA Canadian Standard Assoc.



# Model 4418

## DESCRIPTION

The 4418 heavy-duty cast bronze underwater fixture is ideal for use in small fountains, waterfalls, or reflection pools. It is designed for medium base PAR 38 incandescent lamps. Yoke mount model accepts 3/8" diameter stud or mounting bolt. Base mount model includes 97/8" diameter cast bronze base. Unit is capable of up to 180° of vertical adjustment. Rock guard is standard on both yoke and base mount models.

## SPECIFICATIONS

**FIXTURE HOUSING AND ROCK GUARD:** Heavy wall cast bronze construction. Natural bronze finish.

**LAMP:** 120 Volt, PAR38, 100, 150 or 250 Watt Incandescent. (Lamp included).

**SOCKET:** Porcelain medium screw base with nickel plated copper shell, 200°C insulated leads.

**LENS:** 6 1/2" diameter, clear tempered heat resistant glass. Amber, blue, green, and red lenses also available.

**GASKET:** Single-piece molded U-shaped silicone.

**CORD:** Minimum of 10' of #16-3 STW submersible cord. Cord entrance is brass, watertight seal, and epoxy encapsulated. Cord length must be specified.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

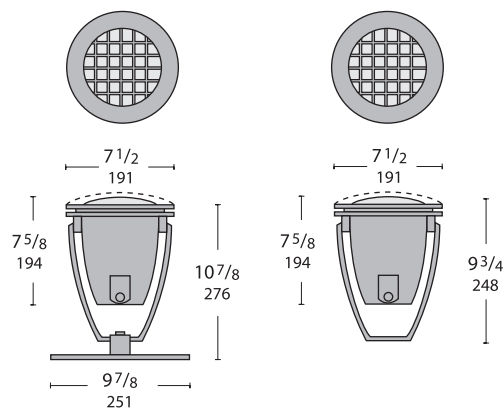
**FASTENERS:** Stainless steel.

**ACCESSORIES:** Adjustable Locking Base, Riser Stems.

**LISTING:** U.L., CSA



4418



## BASE MOUNT

## YOKE MOUNT

Dimensions shown in inches and millimeters.

Model	Lamp Type	Voltage	Distribution	Lens	Mounting	Mounting Acc. <sup>3</sup>	Cord Set Length	Lamp	Options
4418	P38100I PAR38 Med. P38150I PAR38 Med. P38250I PAR38 Med.	120	SP Spot FL Flood	CLC <sup>2</sup> Convex Lens Clear CLA Convex Lens Amber CLB Convex Lens Blue CLG Convex Lens Green CLR Convex Lens Red	BM Base Mount YM Yoke Mount	ALB Adjustable Locking Base RSR <sup>4</sup> 4"-24" Riser Stem avail. in 2" increments	CSL <sup>1</sup> 10' - 120' of cord available in 5' increments	LPI Lamp Included	Listing CSA Canadian Standard Assoc.

<sup>1</sup> P38250I - default

<sup>2</sup> CLC - default

<sup>3</sup> Mount Accessories w / base mount only

<sup>4</sup> RSR6 - default with ALB

# Model 4412

## DESCRIPTION

The decorative 4412 fountain light offers both vertical and horizontal mounting and uses 120 Volt, 116 Watt or 12 Volt, 50 Watt low voltage incandescent lamps. It is provided with a patterned cast bronze leaf for light source concealment.

## SPECIFICATIONS

**FIXTURE HOUSING, BASE, AND LILY PAD GUARD:** Heavy wall cast bronze construction. Lily pad rock guard standard. Natural bronze finish.

**LAMP:** 120 Volt: medium screw base A-19 or A-21, 116 Watt max. Incandescent. 12 Volt: medium screw base A-21, 50 Watt max. (Lamp included).

**SOCKET:** Porcelain medium screw base with nickel plated copper shell, 200°C insulated leads.

**LENS:** Heat resistant clear glass globe.

**GASKET:** Two-piece molded silicone.

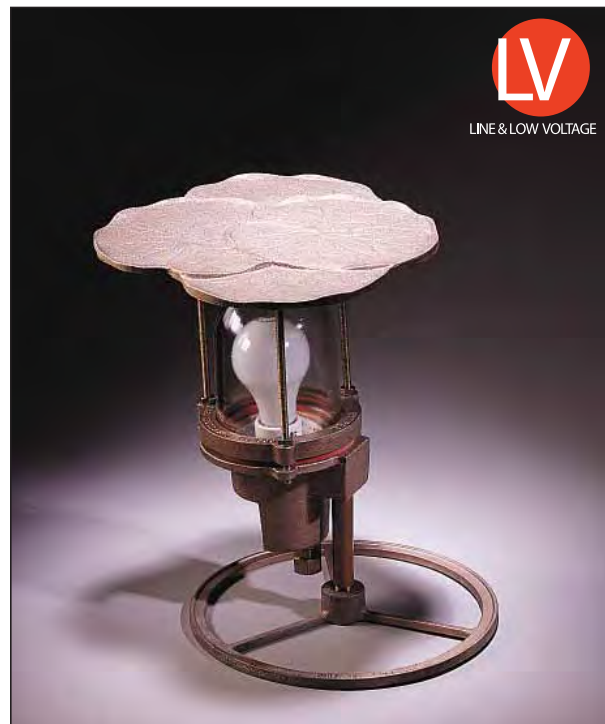
**CORD:** Minimum of 10' of #16-3 STW submersible cord for U.S. standard. Cord entrance is brass, watertight seal, and epoxy encapsulated. Cord length must be specified.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

**FASTENERS:** Stainless steel.

**LISTING:** U.L.



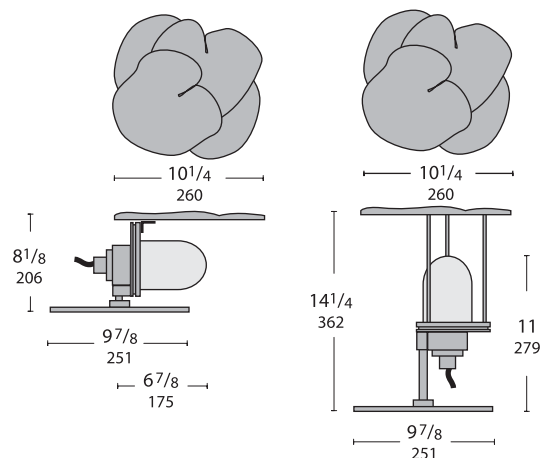
IP-68  $\frac{\nabla}{4M}$

4412 VBM



4412 HBM

Model	Lamp Type	Voltage	Mounting	Cord Set Length	Lamp
4412	Incandescent	120	HBM Horizontal Base Mount	CSL <sup>2</sup> 10' - 120' of cord available in 5' increments	LPI Lamp Included
751	A21 Med.	12 <sup>1</sup>	VBM Vertical Base Mount		
1001	A21 Med.				
1161	A21 Med.				
501LV	A21 Med.				



HORIZONTAL MOUNT      VERTICAL MOUNT

Dimensions shown in inches and millimeters.

# Model 4410

## DESCRIPTION

The 4410 all cast bronze fixture is compact and offers complete angular adjustability. This fixture is designed for use with a PAR 36, 12 Volt lamp to 50 Watts. Yoke mount model accepts 3/8" diameter stud or mounting bolt. Base mount model includes brass staff and 8" diameter cast bronze base with provisions for floor anchor bolts. Unit is capable of up to 180° of vertical adjustment. Rock guard is standard on both yoke and base mount models. (Lamp included).

## SPECIFICATIONS

**FIXTURE HOUSING AND ROCK GUARD:** Heavy wall cast bronze construction. Natural bronze finish.

**LAMP:** 12 Volt, PAR 36 sealed beam, flood or spot distribution 50 Watt incandescent. (Lamp included).

**SOCKET:** Screw terminals with 200°C insulated leads.

**LENS:** Lamp face forms lens.

**GASKET:** Single-piece molded wedge-shaped silicone ring.

**CORD:** Minimum of 10' of #16-3 STW submersible cord. Cord entrance is epoxy encapsulated. Cord length must be specified.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

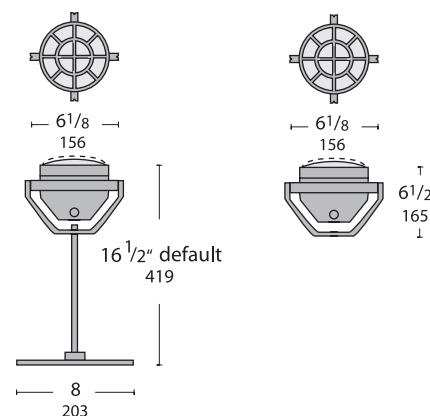
**FASTENERS:** Stainless steel.

**ACCESSORIES:** Amber, blue, green, or red color filters available.

**LISTING:** U.L.



4410



BASE MOUNT

YOKE MOUNT

Dimensions shown in inches and millimeters.

Model	Lamp Type	Voltage	Distribution	Mounting	Mounting Acc. <sup>4</sup>	Accessories	Cord Set Length	Lamp
4410	LV P3650LV PAR36 Screw	12 <sup>1</sup>	SP Spot FL <sup>2</sup> Flood	BM Base Mount YM Yoke Mount	RSR <sup>3</sup> 4' - 24' Riser Stem avail. in 2" increments	CFAMB Color Filter Amber CFBLU Color Filter Blue CFGRN Color Filter Green CFRED Color Filter Red	CSL <sup>3</sup> 10' - 50' of cord available in 5' increments	LP Lamp Installed

<sup>1</sup> Transformer sold separately

<sup>2</sup> FL - default

<sup>3</sup> RSR10 - default

<sup>4</sup> Mount Accessories w / base mount only



# Model 4800

## DESCRIPTION

The 4800 Series base or yoke mounted fixture is smaller in size than conventional units and can operate in as little as 10" of water. It uses 120 Volt, 100 Watt or 150 Watt quartz halogen lamps or a 12 Volt, 75 Watt MR-16 quartz halogen lamp. Rock guard is standard. (Lamp included).

(Formerly Models 4846, 4847, 4848)

## SPECIFICATIONS

**FIXTURE HOUSING AND ROCK GUARD:** Stainless steel housing with heavy wall cast bronze rock guard door assembly. Yoke and base are heavy wall cast bronze.

**LAMP:** 120 Volt: T-4, 150 Watt max., Quartz Halogen. 12 Volt: MR-16, 75 Watt max., Quartz Halogen. (Lamp included).

**SOCKET:** 120 Volt: Mini-can, screw base. 12 Volt: bipin GX5.3.

**LENS:** 3 1/8" diameter, flat clear tempered borosilicate. Clear fresnel spread, amber, blue, green, and red lenses also available. Colored lenses are not fresnel.

**GASKET:** Single-piece molded U-shaped silicone.

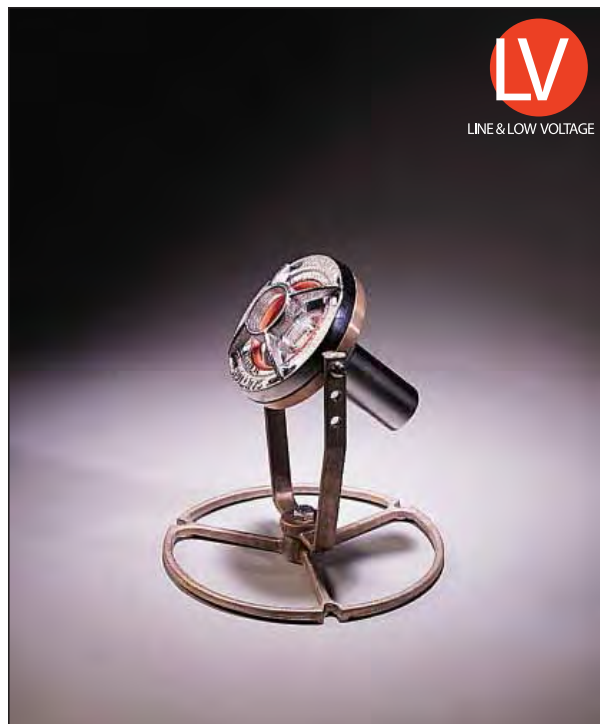
**CORD:** Minimum of 10' of #16-3 STW submersible cord for U.S. standard, 3m of HO7RN-F-2x4mm2 for European standard. Cord entrance is epoxy encapsulated. Cord length must be specified.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm2) internal pressure while totally submerged in water.

**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

**FASTENERS:** Stainless steel.

**LISTING:** U.L., CSA, CE, CB, NEMKO

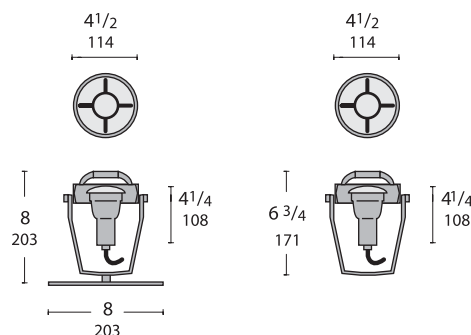


LINE & LOW VOLTAGE

IP-68  $\frac{\nabla}{4M}$  II

4800

CE CB APPROVED (N)  
Lamp Included



BASE MOUNT

YOKE MOUNT

Dimensions shown in inches and millimeters.

Model	Lamp Type	Voltage	Distribution <sup>3</sup>	Lens	Mounting	Cord Set Length	Lamp	Options
4800	Incandescent 100Q T4 Mini-can 150Q T4 Mini-can Low Voltage M75 <sup>1</sup> MR16 GX5.3	120 12 <sup>2</sup>	FL Flood	CLF Fresnel Spread Lens CLC <sup>4</sup> Convex Lens Clear CLA Convex Lens Amber CLB <sup>5</sup> Convex Lens Blue CLG <sup>5</sup> Convex Lens Green CLR Convex Lens Red	BM Base Mount YM Yoke Mount	CSL <sup>7</sup> 35' - 120' of cord available in 5' increments	LP Lamp Installed	Listing CSA Canadian Standard Assoc. IEC <sup>8</sup> International Electrotechnical Commission

- <sup>1</sup> Other wattages available by request  
<sup>2</sup> Transformer not included, sold separately  
<sup>3</sup> Dist. included on 12V only  
<sup>4</sup> CLC default  
<sup>5</sup> CLB and CLG not available w/ 150Q  
<sup>6</sup> RG required for floor mounted fixtures  
<sup>7</sup> CSL50 max. cord length for 12V  
<sup>8</sup> Available in 12V only

# Model 4409

## DESCRIPTION

The 4409 compact, heavy-duty cast bronze fountain light is ideal for up-lighting small water-effect features. It utilizes a low voltage quartz halogen bi-pin lamp to 100 Watts. 120 Volt fixtures include integral, dimmable transformer.

## SPECIFICATIONS

**FIXTURE HOUSING, ROCK GUARD, AND BASE:** Heavy wall cast bronze construction. Natural bronze finish.

**LAMP:** 12 Volt, 100 Watt max., T-3, bi-pin Halogen. (Lamp included).

**SOCKET:** Ceramic GY6.35 bipin mount. Nickel contacts.

**TRANSFORMER:** 120 Volt to 12 Volt integral, dimmable, electronic, fully encapsulated. 12 Volt fixtures require transformer, sold separately

**LENS:** Borosilicate tempered glass.

**GASKET:** Single-piece silicone O-ring.

**CORD:** Minimum of 10' of #16-3 STW submersible cord for U.S. standard. Cord entrance is epoxy encapsulated. Cord length must be specified.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

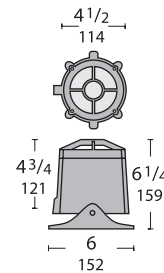
**FASTENERS:** Stainless steel.

**ACCESSORIES:** Amber, blue, green, or red color filters available.

**LISTING:** U.L., CUL



4409



Dimensions shown in inches and millimeters.

Model	Lamp Type	Voltage	Lens	Mounting	Accessories	Cord Set Length	Lamp	Options
4409	75QT3 GY6.35 Bi-pin	120 <sup>1</sup> 12 <sup>2</sup>	FLC Flat Lens Clear	BM Base Mount	CFAMB Color Filter Amber CFBLU Color Filter Blue CFGRN Color Filter Green CFRED Color Filter Red	CSL 10' - 120' of cord available in 5' increments	LP Lamp Installed	Listing CUL Canadian Underwriters Lab.
	100QT3 GY6.35 Bi-pin							

<sup>1</sup> Integral transformer included

<sup>2</sup> Transformer not included, sold separately

# Model 4415

## DESCRIPTION

The 4415 Fountain and Reflecting Pool light is a versatile light source offering a low profile and wide range of lamping options. small, 12 Volt wet/dry fixture that uses three MR-16, 75 Watt max. quartz lamps. It is available in both 120 Volt and 12 Volt.

## SPECIFICATIONS

**FIXTURE HOUSING, ROCK GUARD, AND BASE:** Heavy wall construction. Natural bronze finish.

**LAMP:** 120 Volt: A21, 116W max. incandescent or 300W max. T-3 Quartz. 12 Volt: (3) MR-16, 75 Watt max., Quartz Halogen. (Lamps included).

**SOCKETS:** Incandescent: medium base, Quartz: RSC single contact base, MR16-GX5.3, Bi-pin.

**LENS:** Tempered heat borosilicate diffused glass.

**GASKET:** Single-piece molded U-shaped silicone.

**CORD:** Minimum of 10' of #10-3 ST for US standard, 3m HO7RN-F-2x4mm2 for European standard submersible cord for 12 Volt fixtures. Minimum of 10' of #16-3 ST for US standard submersible cord for 120 Volt fixtures. Cord entrance is brass, water-tight seal and epoxy encapsulated. Cord length must be specified.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

**FASTENERS:** Stainless steel.

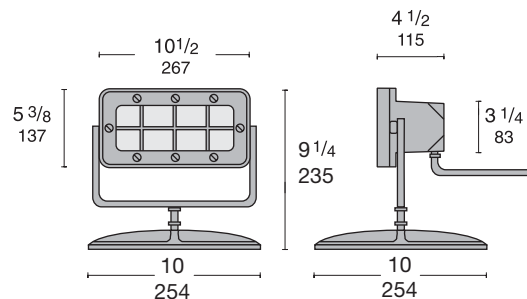
**ACCESSORIES:** Adjustable Locking Base, Riser Stems.

**FINISH:** Black heat-dissipating Hender Lube on the body, door, and yoke base assembly.

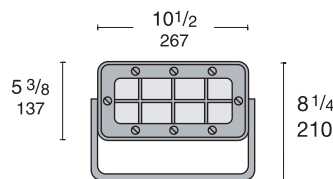
**LISTING:** U.L.



4415



BASE MOUNT



YOKE MOUNT

Dimensions shown in inches and millimeters.

Model	Lamp Type				Voltage	Distr. <sup>2</sup>	Mounting	Mounting Acc. <sup>3</sup>	Cord Set Length	Lamp	Options		
4415	116I	116W	A21	Med.	12 <sup>1</sup>	FL	Flood	BM	Adjustable Locking Base	CSL____ <sup>5</sup> 10' - 50' of cord available in 5' increments	LPI	Lamp Included	Listing
	200Q	200W	T3	RSC	120			YM	Yoke Mount				
	300Q	300W	T3	RSC				RSR	4" - 24" Riser Stem avail. in 2" increments	IEC	International		
	3/M50	3-50W	MR16	GX5.3									
	3/M75	3-75W	MR16	GX5.3									

<sup>1</sup> Transformer not included, sold separately

<sup>2</sup> Other Distributions available for the 3/M75 and 3/M50 only

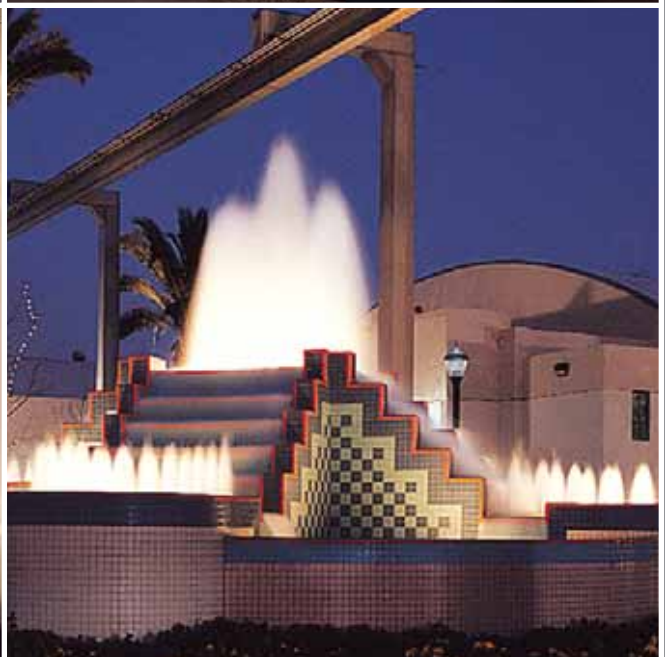
<sup>3</sup> Available w/ Base mount only

<sup>4</sup> RSR6 default with ALB

<sup>5</sup> 50' max. cord length for 12V fixtures



## REFLECTION POOL AND FOUNTAIN POOL LIGHTS



photos copyright © Hydrel

# Model 4426 LED RGB Color Changing

## DESCRIPTION

The 4426 Base Mount is designed for use in fountains, reflecting pools, and illuminating waterfalls. This unit uses a Red, Green, and Blue (RGB) underwater color balanced LED array to create DMX controlled color changing lighting effects. Color control is achieved through four channels per fixture, standard DMX512 hardware, at a maximum of 44 frames per second. All channels have logarithmic power for finer color and intensity control. The fourth channel, Intensity, allows the user to vary brightness without affecting the color. The integral power supply and DMX control modules are enclosed in an attached sealed bronze combination box. The proprietary DMX control module senses the LED temperature and adjusts the LED power accordingly to yield a lamp life of up to 50,000 hours of operation. This lamp life exceeds any other fixture designed for this use. For power and signal hook-up, the integral combination box includes a minimum of 10' of submersible rated power cable and a minimum of 10' of submersible rated DMX signal cable.

## SPECIFICATIONS

**FIXTURE HOUSING, ROCK GUARD, AND BASE:** Heavy wall construction. Natural bronze finish.

**LED TYPE:** 60 Watt RGB LED array. (LED Board included).

**CONTROL:** Standard DMX512. 3-Channels per fixture: Red, Blue, Green or 4-channels per fixture: Red, Green, Blue and Intensity.

**COMMUNICATION TO FIXTURE:** DMX512 direct.

**VOLTAGE:** 120VAC 60HZ only.

**LENS:** Clear Flat Tempered Borosilicate.

**GASKET:** Single piece molded U-shaped silicone gasket.

**CORD:** Minimum of 10' of #16/3ST submersible rated cord for standard 120VAC line, minimum of 25' of submersible rated data cord for DMX512 signal. Cord entrance is epoxy encapsulated. Cord length must be specified.

**FACTORY LEAK TESTED:** Fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

**LOW WATER PROTECTION:** Temperature sensing circuit reduces power to LEDs to prevent damage.

**FASTENERS:** Stainless steel.

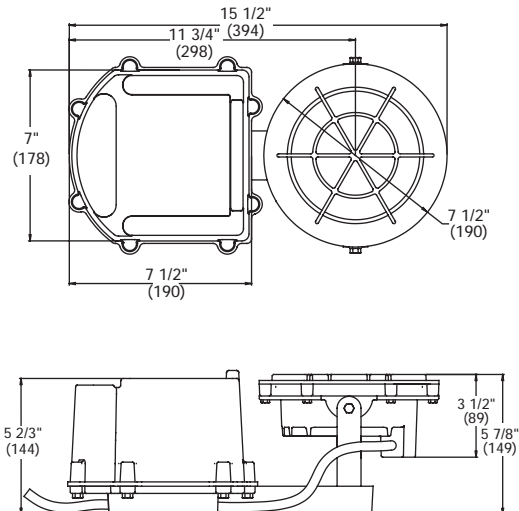
**LISTING:** U.L.



IP-68  $\nabla$   
4M

4426 BM

CE CB APPROVED  
LED Board Included (N)



Dimensions shown in inches and millimeters.

Model	Material	LED Type	LED Color	Voltage	Distribution	Lens	Mounting	Control	Comm. to Fixture	Cord Set Length
4426	B Bronze SWB Salt Water Bronze	60LED 60 Watts	RGB Mixing	120	SP Spot MFL Medium Flood WFL Wide Flood	FLC Flat Lens Clear	BM Base Mount	3-Channel 3DMX DMX 512 4-Channel 4DMX DMX 512	DDX Direct DMX	CSL 10' - 120' of cord available in 5' increments

<sup>1</sup> Junction Box (Sold Separately)

<sup>2</sup> DMX Distribution Components and Signal Generator (by others)

<sup>3</sup> Fixture cables (Power and Signal) connect to separate junction boxes.

a) First Run - 120V Power Supply

b) Second Run - DMX512 Signal

# Model 4426 LED Monochromatic

## DESCRIPTION

The 4426 Base Mount is designed for use in fountains, reflecting pools, and illuminating waterfalls. These units offer cool white, warm white, amber, blue, cyan, green, royal blue and red monochromatic colors. The system shall be composed of two components: 1) LED array board and 2) Driver. The LED Driver powers via constant voltage or constant current. With a constant current driver, LED lumen output does not change with temperature variations. Hydrel's monochromatic system is a non-dimming, one color light output.

## SPECIFICATIONS

**FIXTURE HOUSING, ROCK GUARD, AND BASE:** Heavy wall cast bronze construction. Natural cast bronze finish.

**LED TYPE:** 60 Watt monochromatic LED. (LED Board included).

**LAMP:** 120VAC 60HZ only.

**LENS:** Clear Flat Tempered Borosilicate.

**GASKET:** Single piece molded U-shaped silicone gasket.

**CORD:** Minimum of 10' of #16/3ST submersible rated cord for standard 120VAC line. Cord entrance is epoxy encapsulated. Cord length must be specified.

**FACTORY LEAK TESTED:** Fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

**LOW WATER PROTECTION:** Temperature sensing circuit reduces power to LEDs to prevent damage.

**FASTENERS:** Stainless steel.

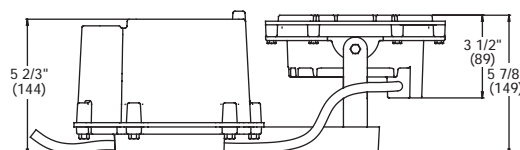
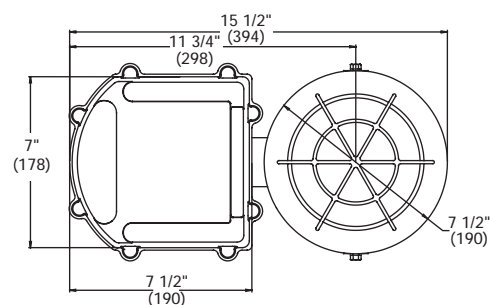
**LISTING:** U.L.



IP-68  $\nabla$  4M

4426 BM

CE CB APPROVED LED Board Included N



Dimensions shown in inches and millimeters.

Model	Material	LED Type	LED Color	Voltage	Distribution	Lens	Mounting	Cord Set Length
4426	B Bronze SWB Salt Water Bronze	60LED 60 Watts	CLW Cool white WMW Warm White AMB Amber BLU Blue CYN Cyan GRN Green RBL Royal Blue RED Red	120	SP Spot MFL Medium Flood WFL Wide Flood	FLC Flat Lens Clear	BM Base Mount	CSL 10' - 120' of cord available in 5' increments



# Model 4424

## DESCRIPTION

This heavy-duty cast bronze fixture, with stainless steel formed niche is designed for wet niche installation in floors or walls of fountain pools. It is available in 120 Volt to 500 Watts and 12 Volt to 300 Watts. Fixture is provided with clear tempered lens, silicone gasket, submersible cord, and water-tight brass cord entrance. Fixture is positively locked in niche housing, provided with cast bronze mounting ring, conduit entrance, and grounding lug.

(Now includes Model 4422)

## SPECIFICATIONS

**FIXTURE HOUSING, DOOR AND ELECTRO GRID:** Heavy wall cast bronze construction. Natural bronze finish.

**NICHE:** Stainless steel with cast bronze mounting ring, which locks the fixture into position. Four ears are included for tie to forms or steel structural rods. Pressure grounding lug on interior and exterior surfaces. Conduit entrance 3/4" NPT with 3/4"x1/2" NPT reducer bushing supplied.

**LAMP:** 120 Volt: PAR56,500 Watt max. 12 Volt: PAR56,300 Watt max. (Lamp included).

**SOCKET:** 120 Volt: Mogul prong type with 200°C insulated leads. 12 Volt: Terminal connectors with 200°C insulated leads.

**LENS:** 8 3/8" diameter convex clear tempered heat resistant glass. Amber, blue, green, and red lenses also available.

**GASKET:** Single-piece molded U-shaped silicone.

**CORD:** Minimum of 35' of #10-3 STW for US standard, 10m HO7RN-F-2x6mm2 for European standard submersible cord for 12V fixtures. Minimum of 35' of #16-3 STW for US standard submersible cord for 120V fixtures. Cord entrance is brass, water-tight seal and epoxy encapsulated. Cord length must be specified. Sufficient cord should be coiled in the fixture niche to allow for the removal of fixture to above water level for relamping.

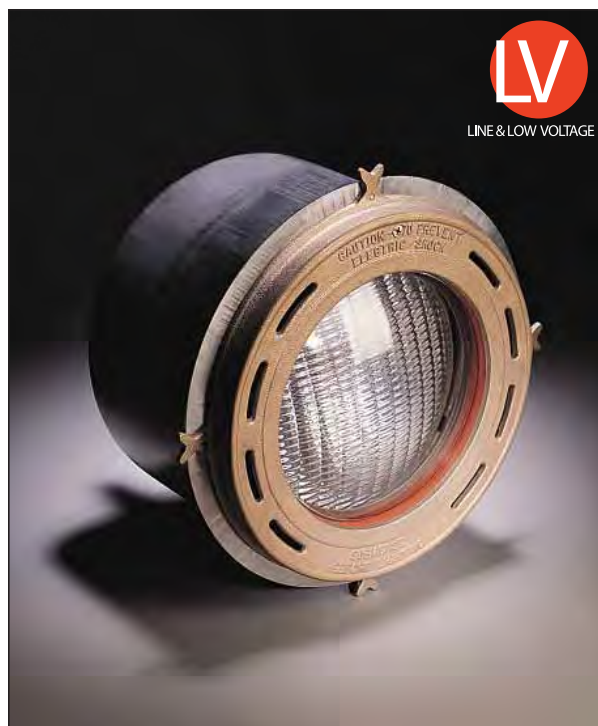
**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

**FASTENERS:** Stainless steel.

**ACCESSORIES:** Cast bronze exterior Rock Guard available. Rock Guard required for floor mounted fixtures.

**LISTING:** U.L., CSA, CE, CB, NEMKO

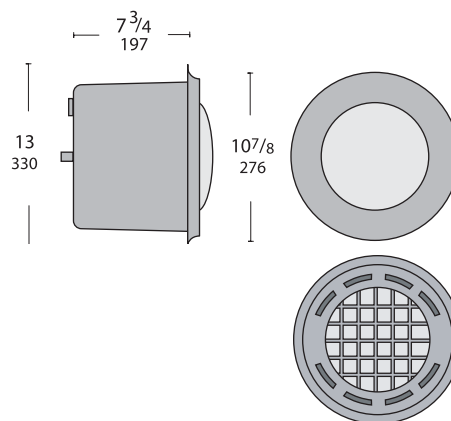


LINE & LOW VOLTAGE

IP-68  $\nabla$  4M LOW VOLTAGE

4424

CB APPROVED Lamp Included



RG ROCK GUARD

Dimensions shown in inches and millimeters.

Model	Material	Lamp Type	Voltage	Distribution	Lens	Mounting	Conduit Entries	Accessories	Cord Set Length	Lamp	Options
4424	B Bronze SWB Salt Water Bronze	<b>Incandescent</b> P563001 PAR56 MGEP P565001 <sup>1</sup> PAR56 MGEP P565001 PAR56 MGEP <b>Low Voltage</b> P562401LV PAR56 Screw Terminal P563001LV PAR56 Screw Terminal	120 12 <sup>2</sup>	MFL Medium Flood NSP Narrow Spot WFL Wide Flood	CLC <sup>3</sup> Convex Lens Clear CLA Convex Lens Amber CLB Convex Lens Blue CLG Convex Lens Green CLR Convex Lens Red	NM Niche Mount	34B 3/4" NPT bottom	RG <sup>4</sup> Rock Guard	CSL <sup>5</sup> 35' - 120' of cord available in 5' increments	LPI Lamp Included	<b>Listing</b> CSA Canadian Standard Assoc. IEC <sup>6</sup> International Electrotechnical Commission

<sup>1</sup> P563001LV (12V)-P565001 (120V) default

<sup>2</sup> Transformer not included, sold separately

<sup>3</sup> CLC - default

<sup>4</sup> RG required for floor mounted fixtures

<sup>5</sup> CSL50 max. cord length for 12V

<sup>6</sup> Available in 12V only

## REFLECTION POOL AND FOUNTAIN POOL LIGHTS

## NICHE MOUNTS

## Model 4421

## DESCRIPTION

The 4421 is a wet niche mounted 500 Watt max. quartz halogen fixture. This unit is designed for installation in floors or walls of fountain pools or water effects.

## SPECIFICATIONS

**FIXTURE HOUSING AND DOOR:** Heavy wall cast bronze construction. Natural bronze finish.

**NICHE:** Stainless steel with cast bronze mounting ring with provision for positive locking of fixture in position and four ears for tying to forms or steel structural rods. Pressure grounding lug on interior and exterior surfaces. Conduit entrance 3/4" NPT with 3/4" x 1/2" NPT reducer.

**LAMP:** 120 Volt, T-4 mini-can, 100, 150, 250, 400, or 500 Watt Quartz Halogen. (Lamp included).

**SOCKET:** Mini-can screw base with 200°C insulated leads.

Distribution: Reflector is parabolic spun copper, chrome plated.

**LENS:** 7 9/16" diameter convex clear tempered heat resistant glass. Amber, blue, green, and red lenses also available.

**GASKET:** Single-piece molded U-shaped silicone.

**CORD:** Minimum of 35' of #16-3 STW submersible cord. Cord entrance is brass, watertight seal, and epoxy encapsulated. Cord length must be specified. Sufficient cord must be coiled in the niche to allow for the removal of the fixture to above water level for relamping.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

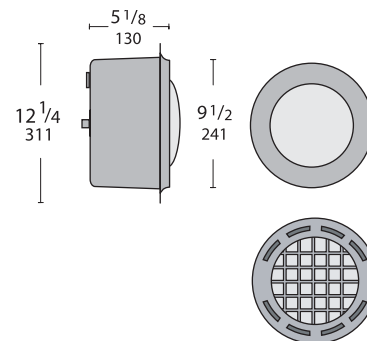
**FASTENERS:** Stainless steel.

**ACCESSORIES:** Cast bronze exterior Rock Guard available. Rock Guard required for floor mounted fixtures.

**LISTING:** U.L., CSA



4421



RG ROCK GUARD

Dimensions shown in inches and millimeters.

Model	Lamp Type	Voltage	Lens	Mounting	Conduit Entries	Accessories	Cord Set Length	Lamp	Options
4421	100Q T4 Mini-can 150Q T4 Mini-can 250Q T4 Mini-can 400Q T4 Mini-can 500Q T4 Mini-can	120	CLC <sup>2</sup> Convex Lens Clear CLA Convex Lens Amber CLB Convex Lens Blue CLG Convex Lens Green CLR Convex Lens Red	NM Niche Mount	3/4" NPT bottom	RG Rock Guard	CSL 35' - 120' of cord available in 5' increments	LPI Lamp Included	Listing CSA Canadian Standard Assoc.

<sup>1</sup> 500Q - default  
<sup>2</sup> CLC - default

# Model 4413

## DESCRIPTION

The 4413 wet niche light is a preferred option among the line of Hydrel's quartz halogen underwater lighting fixtures. This high performance fixture meets the fountain requirements for high light output, low profile, and adjustability with Hydrel's AIM-Lock™ System. The unit utilizes a quartz halogen lamp to 500 Watts with a choice of two light distributions and is capable of up to 360° of rotational and 45° from vertical adjustment. Rock guard is integral.

(Now includes Model 4414)

## SPECIFICATIONS

**FIXTURE HOUSING AND ROCK GUARD:** Heavy wall cast bronze construction. Natural bronze finish.

**NICHE:** Spun copper with cast bronze niche ring. 3/4" conduit hubs are available in the bottom at 45°, or in the side with 3/4"x1/2" NPT reducer. Hub in bottom standard. Pressure grounding lug on interior and exterior surfaces.

**ADJUSTABILITY:** 360° angular adjustment, 45° from vertical. AIM-Lock™ enables fixture to be relamped without changing aim setting.

**LAMP:** 120 Volt, 400 Watt max. RSC double ended Quartz Halogen (maximum overall length of 3 1/8"); 500 Watt max., T4 Mini-can, Quartz Halogen. (Lamp included).

**SOCKET:** Two porcelain recessed single contact (RSC), porcelain with nickel mini-can screwshell (MC), 200°C leads.

**DISTRIBUTION:** Reflector is polished aluminum specular Alzak®. Spot or Diffuse Alzak® Flood available.

**LENS:** Flat tempered borosilicate-clear. Amber, green, or red lenses also available.

**GASKET:** Single-piece molded U-shaped silicone.

**CORD:** Minimum of 35' of #16-3 STW submersible cord. Cord entrance is epoxy encapsulated with internal strain relief. Cord length must be specified. Sufficient cord must be coiled in the niche to allow for the removal of the fixture to above water level for relamping.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

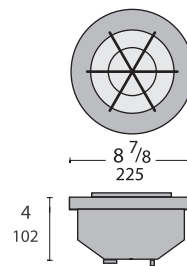
**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

Fasteners: Stainless steel.

**LISTING:** U.L., CSA



4413



Dimensions shown in inches and millimeters.

Model	Lamp Type	Voltage	Distr.	Lens	Mounting	Conduit Entries	Cord Set Length	Lamp	Options
4413	100Q T4 Mini-can 150QT3 T3 R7S 200QT3 T3 R7S 250Q T4 Mini-can 300QT4 T4 R7S 400QT4 T4 R7S 500Q T4 Mini-can	120	SP Spot FL Flood	FLC <sup>1</sup> Flat Lens Clear FLAM Flat Lens Amber FLG Flat Lens Green FLR Flat Lens Red	NM Niche Mount	34B <sup>2</sup> 3/4" NPT bottom 34S 3/4" NPT side 3445B 3/4" NPT at 45°	CSL 35' - 120' of cord available in 5' increments	LPI Lamp Included	Listing CSA Canadian Standard Assoc.



## REFLECTION POOL AND FOUNTAIN POOL LIGHTS

## NICHE MOUNTS

## Model 4415

## DESCRIPTION

The 4415 is a small wet niche mounted fixture. Its rectangular shape is ideal for steps or small reflecting pools where a low profile is required. It is available with a 45° cut-off louver or rock guard.

## SPECIFICATIONS

**FIXTURE HOUSING AND DOOR:** Heavy wall cast bronze construction. Natural bronze finish.

**NICHE:** Stainless steel with cast bronze mounting frame, which has provisions for positive locking of fixture in position. Side conduit entrance 3/4" NPT with 3/4"x1/2" NPT reducer bushing or PG16 provided. Pressure grounding lug on interior and exterior surfaces.

**LAMP:** 120 Volt: A-21, 116 Watt max., incandescent or 300 Watt max., T-3, Quartz Halogen double ended. 12 Volt: (3) 75 Watt max., MR-16. (Lamp included).

**SOCKETS:** Incandescent: medium base. Quartz: RSC single contact base. MR16: Gx5.3 Bi-Pin.

**LENS:** Tempered borosilicate diffused glass standard. Clear glass with LLV accessory.

**GASKET:** Single-piece molded U-shaped silicone.

**CORD:** 120 Volt: Minimum of 35' of #16-3 STW U.S. standard submersible cord. 12 Volt: Minimum of 35' of #10-3 STW U.S. standard or 10m of HO7RN-F-2x6mm2 for European standard submersible cord. Cord entrance is brass, watertight seal, and epoxy encapsulated. Sufficient cord must be coiled in the niche to allow for the removal of the fixture to above water level for relamping. Cord length must be specified

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

**LOW WATER CUT-OFF:** Temperature sensing low water cut-off standard.

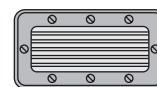
**FASTENERS:** Stainless steel.

**ACCESSORIES:** Cast bronze exterior Rock Guard available. 45° cut-off cast bronze louver door available (clear lens only). Rock Guard or Louver is required for floor mounted fixtures.

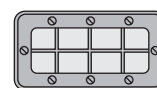
**LISTING:** U.L., IEC.



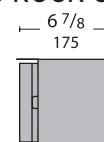
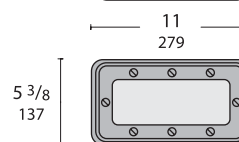
4415



LLV LOUVER



RG ROCK GUARD



Dimensions shown in inches and millimeters.

Model	Lamp Type	Voltage	Distr.	Mounting	Conduit Entries	Accessories <sup>3</sup>	Cord Set Length	Lamp	Options
4415	Incandescent	120	FL <sup>2</sup> Flood	NM Niche Mount	34B 3/4" NPT side 16B PG16 side	LLV Louver RG Rock Guard	CSL <sup>4</sup> 35' - 120' of cord available in 5' increments	LPI Lamp Included	Listing IEC <sup>5</sup> International Electrotechnical Commission
	Low Voltage	12 <sup>1</sup>							
	1161 A21 Med								
	200QT3 T3 R7S								
	300QT3 T3 R7S								
	3/M50 3-MR16 GX5.3								
	3/M75 3-MR16 GX5.3								

<sup>1</sup> Transformer sold separately

<sup>2</sup> Other dist. avail on 3/M50 and 3/M75 only

<sup>3</sup> Either LLV or RG required for floor mounted fixtures

<sup>4</sup> CSL50 max. cord length for 12V fixtures

<sup>5</sup> Available in 12V only

# Model 4418

## DESCRIPTION

The 4418 wet niche, heavy-duty cast bronze underwater fixture is ideal for use in walls or floors of small fountains, waterfalls, or reflection pools. Designed for medium base I20 Volt PAR 38 incandescent lamps. Adjustable niche mount also available.

## SPECIFICATIONS

**FIXTURE HOUSING AND DOOR:** Heavy wall cast bronze construction. Natural bronze finish.

**NICHE:** Stainless steel with cast bronze mounting frame, which has provisions for positive locking of fixture in position. Four ears for tying to forms or steel structural rods. Pressure grounding lug on interior and exterior surfaces. Conduit entrance 3/4" NPT with 3/4"x1/2" NPT reducer bushing supplied. The adjustable niche mount fixture is capable of 360° rotation with 30° vertical tilt.

**LAMP:** I20 Volt, PAR 38, 250 Watt max., Incandescent. (Lamp included).

**SOCKET:** Medium screw base with nickel plated copper shell, 200°C insulated leads.

**LENS:** 6 1/2" diameter convex clear heat resistant glass. Amber, blue, green, and red lenses also available.

**GASKET:** Single-piece molded U-shaped silicone.

**CORD:** Minimum of 35' of #16-3 STW submersible cord. Cord entrance is brass, watertight seal, and epoxy encapsulated. Cord length must be specified. Sufficient cord must be coiled in the niche to allow for the removal of the fixture to above water level for relamping.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

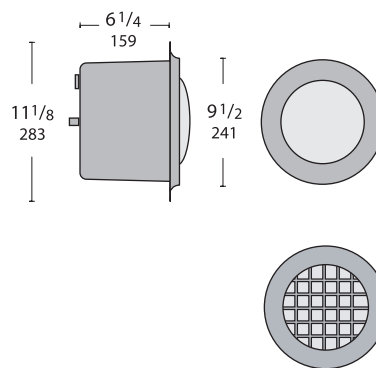
**FASTENERS:** Stainless steel.

**ACCESSORIES:** Cast bronze exterior Rock Guard. Rock Guard required on adjustable niche mount and floor-mounted fixtures.

**LISTING:** U.L.



4418



RG ROCK GUARD

Dimensions shown in inches and millimeters.

Model	Lamp Type	Voltage	Distribution	Lens	Mounting	Conduit Entries	Accessories	Cord Set Length	Lamp
4418	P38100I PAR38 Med. P38150I PAR38 Med. P38250I <sup>1</sup> PAR38 Med.	120	SP Spot FL Flood	CLC <sup>2</sup> Convex Lens Clear CLA Convex Lens Amber CLB Convex Lens Blue CLG Convex Lens Green CLR Convex Lens Red	NM Niche Mount ANM Adjustable Niche Mount	34B 3/4" NPT bottom	RG <sup>3</sup> Rock Guard	CSL <sup>3</sup> 35' - 120' of cord available in 5' increments	LPI Lamp Included

<sup>1</sup> P38250I - default

<sup>2</sup> CLC - default

<sup>3</sup> Rock Guard required for floor mounted and adjustable fixtures

# Model 4800

## DESCRIPTION

The 4800 Series wet niche mounted fountain fixture is smaller in size than conventional units. It is available with adjustable round or fixed square bezel and uses 120 Volt, 150 Watt max., T-4 mini-can or 12 Volt, 75 Watt max., MR16 quartz halogen lamp. The stainless steel niche includes a bonding lug and conduit hub. A clear fresnel tempered lens is standard. (Lamp included).

(Formerly Models 4842, 4843, 4845, 4839, 4840)

## SPECIFICATIONS

**FIXTURE HOUSING AND DOOR:** Stainless steel housing with heavy wall cast bronze doors.

**NICHE:** Stainless steel with cast bronze mounting assembly, which has provisions for positive locking of fixture in position. The unit includes a grounding lug and a 3/4" conduit hub with 1/2" reducer or PG16 conduit hub.

**LAMP:** 120 Volt: T-4, 150 Watt max., Quartz Halogen. 12 Volt: MR-16 75 Watt max., Quartz Halogen. (Lamp included).

**SOCKET:** 120 Volt, Mini-can, screw base. 12 Volt: bipin mount GX5.3.

**LENS:** 3 1/8" diameter tempered borosilicate, clear convex standard. Clear fresnel, amber, blue, green, and red lenses also available. Blue or green lens 100 Watt max.

**GASKET:** Single-piece molded U-shaped silicone.

**CORD:** Minimum of 35' of #16-3 STW submersible cord for U.S. standard, 10m of HO7RN-F-2x4mm2 for European standard. Cord length must be specified. Sufficient cord must be coiled in the niche to allow for the removal of the fixture to above water level for relamping.

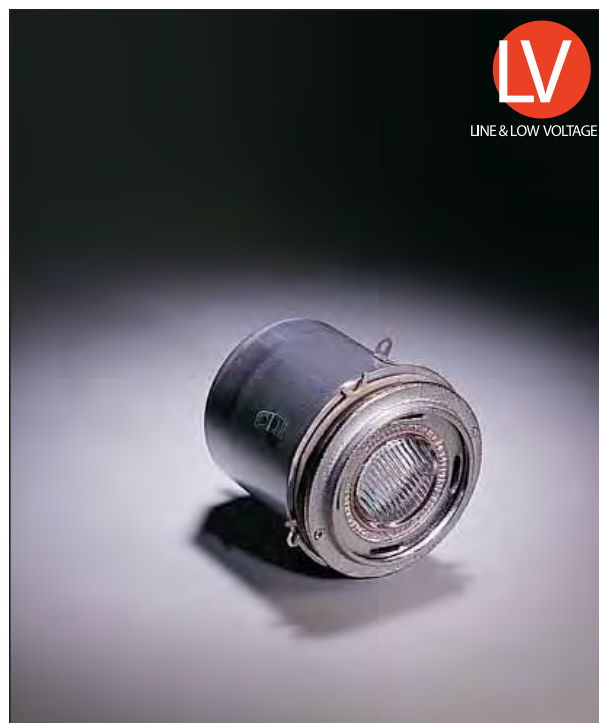
**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm2) internal pressure while totally submerged in water.

**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

**FASTENERS:** Stainless Steel.

**ACCESSORIES:** Cast bronze exterior Rock Guard available. Rock guard is required for floor mounted fixtures.

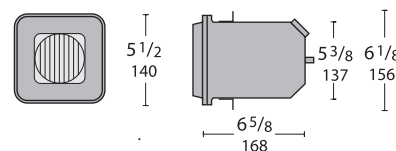
**LISTING:** U.L., CSA, CE, CB, NEMKO



IP-68  $\frac{\nabla}{4M}$  II

4800

CE CB APPROVED <sup>®</sup>  
Lamp Included



SQUARE BEZEL



ROUND BEZEL

Dimensions shown in inches and millimeters.

Model	Door <sup>1</sup>	Material	Lamp Type	Voltage	Distribution <sup>5</sup>	Lens	Mounting	Conduit Entries	Accessories	Cord Set Length	Lamp	Options
4800	RD Round SQ Square	B Bronze SS <sup>2</sup> Stainless steel	Incandescent 100Q T4 Mini-can 150Q T4 Mini-can Low Voltage M75 <sup>3</sup> MR16 GX5.3	120 12 <sup>4</sup>	FL Flood	CLF Fresnel Spread Lens CLC <sup>4</sup> Convex Lens Clear CLA Convex Lens Amber CLB <sup>7</sup> Convex Lens Blue CLG <sup>7</sup> Convex Lens Green CLR Convex Lens Red	NM Niche Mount	3/4" NPT or 45°	RG <sup>8</sup> Rock Guard	CSL <sup>9</sup> 35' - 120' of cord available in 5' increments	LP Lamp Installed	Listing CSA Canadian Standard Assoc.

- <sup>1</sup> RD door adjustable, SQ door fixed  
<sup>2</sup> SS material not available with Rock Guard  
<sup>3</sup> Other wattages available by request  
<sup>4</sup> Transformer not included, sold separately  
<sup>5</sup> Dist. included on 12V only  
<sup>6</sup> CLC default  
<sup>7</sup> CLB and CLG not available w/ 150Q  
<sup>8</sup> RG required for floor mounted fixtures  
<sup>9</sup> CSL50 max. cord length for 12V





# WET/DRY LIGHTS

The Hydrel line of wet/dry lights is designed especially for use in areas of water features that are prone to being dry or could possibly be dry much of the time. These versatile fixtures can operate totally submerged but, unlike other underwater lights, are not dependent upon water for cooling and therefore can continue to operate even when water levels are low or non-existent. This feature makes the wet/dry fixtures ideal for use on the edges of waterfalls, streams, or fountains and in installations with a fluctuation in water level.

Wet/Dry Fixtures, pages 30-34.



WD4418



WD4412 HBM



WD4413



WD4415



WD4846

Wet/Dry In-grade Fixtures, pages 35-39.



WD9100



WD9000

Hydrel wet/dry lights are built to meet or surpass Underwriters Laboratories standards as well as those of the National Electric Code. They meet the safety requirements for fountains and decorative pools. Wet/dry lighting fixtures are not intended for use in swimming pools. Additional safeguards are required for swimming pool lighting.



Photo left:  
A major attraction at a popular Las Vegas hotel uses wet/dry lights in a dramatic scene

photo copyright © Hydrel



# Model WD4418

## DESCRIPTION

The WD4418 wet/dry heavy-duty cast bronze fixture is ideal for use in small fountains, waterfalls, or reflection pools. It is designed for medium base PAR 38 incandescent or quartz halogen lamps. Yoke mount model accepts 3/8" diameter stud or mounting bolt. Base mount model includes 9 7/8" diameter cast bronze base. Unit is capable of up to 180° of vertical adjustment. Rock guard is standard on both yoke and base mount models.

## SPECIFICATIONS

**FIXTURE HOUSING AND DOOR:** Heavy wall cast bronze construction. Natural bronze finish.

**LAMP:** 120 Volt, medium screw base, PAR38, 150 Watt max. (Lamp included).

**SOCKET:** Porcelain medium screw base with nickel plated copper shell, 200°C insulated leads.

**LENS:** 6 1/2" diameter convex clear tempered heat resistant glass.

**GASKET:** Single-piece molded U-shaped silicone.

**CORD:** Minimum 10' of #16-3 STW submersible cord. Cord entrance is brass, watertight seal, and epoxy encapsulated. Cord length must be specified.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

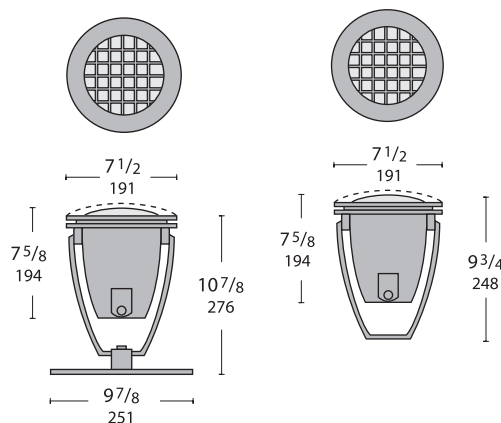
**FASTENERS:** Stainless steel.

**ACCESSORIES:** Adjustable Locking Base, Riser Stems.

**LISTING:** U.L.



WD4418



BASE MOUNT

YOKE MOUNT

Dimensions shown in inches and millimeters.

Model	Lamp Type	Voltage	Distribution	Mounting	Mounting Acc. <sup>2</sup>	Cord Set Length	Lamp
WD4418	P381001 PAR38 Med. P381201 PAR38 Med. P381501 PAR38 Med.	120	SP Spot FL Flood	BM Base Mount YM Yoke Mount	ALB Adjustable Locking Base RSR <sup>3</sup> 4"-24" Riser Stem avail. in 2" increments	CSL 10' - 120' of cord available in 5' increments	LPI Lamp Included

<sup>1</sup> P381501 - default

<sup>2</sup> Mount Accessories w / base mount only

<sup>3</sup> RSR6 default w / ALB

## WET / DRY LIGHTS

## Model WD4412

## DESCRIPTION

The decorative WD4412 wet/dry light offers both vertical and horizontal mounting and uses incandescent lamps to 116 Watts or 12 Volt, to 50 Watt max. It is provided with a patterned cast bronze lily pad leaf for light source concealment.

## SPECIFICATIONS

**FIXTURE HOUSING, BASE, AND LILY PAD GUARD:** Heavy wall cast bronze construction. Lily pad rock guards standard. Natural bronze finish.

**LAMP:** 120 Volt: A-19 or A-21, 116 Watt max. 12 Volt: A-21, 50 Watt max. (Lamp included).

**SOCKET:** Porcelain medium screw base with nickel plated copper shell, 200°C insulated leads.

**Lens:** Heat resistant clear glass globe.

**GASKET:** Two-piece molded silicone.

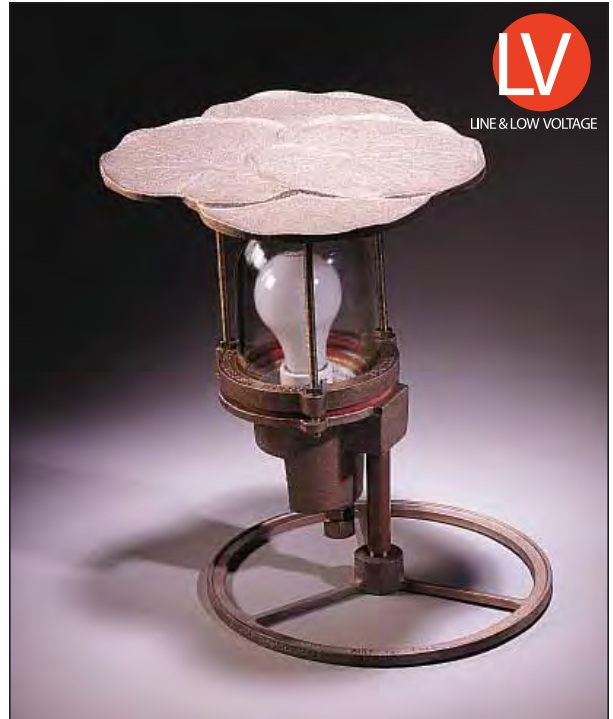
**CORD:** Minimum of 10' of #16-3 STW submersible cord with ground wire positively grounded inside fixture. Cord entrance is a brass watertight seal and epoxy encapsulated. Cord length must be specified.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

**FASTENERS:** Stainless steel.

**LISTING:** U.L.

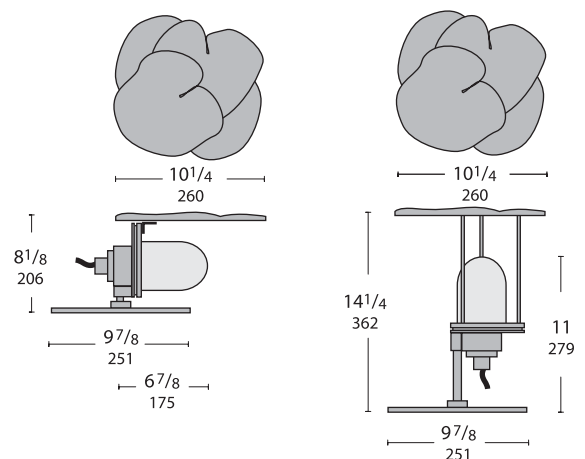
IP-68  $\frac{\nabla}{4M}$  II

WD4412 VBM



WD4412 HBM

Model	Lamp Type	Voltage	Mounting	Cord Set Length	Lamp
WD4412	Incandescent	120	HBM Horizontal	CSL <sup>2</sup> 10' - 120' of	LPI Lamp
751 A21 Med.		12 <sup>1</sup>	Base Mount	cord available	Included
1001 A21 Med.			VBM Vertical	in 5' increments	
1161 A21 Med.			Base Mount		
Low Voltage					
50ILV A21 Med.					



HORIZONTAL MOUNT

VERTICAL MOUNT

Dimensions shown in inches and millimeters.

<sup>1</sup> Transformer not included, sold separately  
<sup>2</sup> CSL50 is max. cord length for 12V fixtures



# Model WD4413

## DESCRIPTION

The WD4413 wet/dry fountain light is a preferred option among the line of Hydrel's quartz halogen underwater lighting fixtures. This high performance fixture meets the fountain requirements for high light output, low profile, and adjustability with Hydrel's AIM-Lock™ System. The unit utilizes a 120 Volt quartz halogen lamp to 100 Watt max. or 50 Watt max. MR16, with a choice of two light distributions and is capable of up to 360° of rotational and 45° from vertical adjustment.

## SPECIFICATIONS

**FIXTURE HOUSING, INTEGRAL ROCK GUARD DOOR, AND BASE:** Heavy wall cast bronze construction. Natural bronze finish.

**NICHE:** Spun copper with cast bronze niche ring. 3/4" conduit hubs are available in the bottom at 45°, or in the side with 3/4" x 1/2" NPT reducer. Hub on bottom standard. Pressure grounding lug on interior and exterior surfaces.

**ADJUSTABILITY:** BM: Four mounting heights, adjustable 0°-90°. NM: 360° rotational adjustment within niche, 45° from vertical adjustment. AIM-Lock™ enables fixture to be relamped without changing aim setting.

**LAMP:** 120 Volt: 100 Watt max., T-4 Mini-can, Quartz Halogen. 12 Volt: 50 Watt max., MR-16. (Lamp included).

**SOCKET:** 120 Volt: Porcelain with nickel mini-can screwshell, 200°C insulated leads. 12 Volt: Bi-pin GX5.3.

**DISTRIBUTION:** Reflector is polished aluminum specular Alzak™ Spot or diffuse Alzak™ Flood for T4 lamps. MR16 lamp distribution is determined by lamp type.

**LENS:** Flat clear tempered borosilicate.

**GASKET:** Single-piece molded U-shaped silicone.

**CORD:** Minimum of 10' of #16-3 STW underwater cable on base mount or minimum of 35' on niche mount. Cord entrance is epoxy encapsulated with internal strain relief. Cord length must be specified.

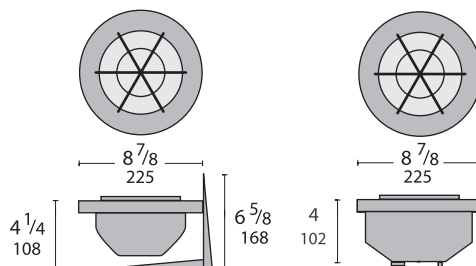
**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

**FASTENERS:** Stainless steel.

**LISTING:** U.L.



WD4413 BM  
WD4413 NM



BASE MOUNT

NICHE MOUNT

Dimensions shown in inches and millimeters.

Model	Lamp Type	Voltage	Distr.	Mounting	Conduit Entries <sup>2</sup>	Cord Set Length <sup>3</sup>	Lamp
WD4413	Incandescent	120	SP Spot	BM Base Mount	34B 3/4" NPT bottom	CSL 10' - 120' of cord for base mount available in 5' increments	LPI Lamp Included
	75Q T4 Mini-can	12 <sup>1</sup>	FL Flood	NM Niche Mount	3445B 3/4" at 45°	35' - 120' of cord for niche mount available in 5' increments	
	100Q T4 Mini-can				34S 3/4" NPT side		
	Low Voltage						
	M35 MR16 GX5.3						
	M50 MR16 GX5.3						

<sup>1</sup> Transformer not included, sold separately

<sup>2</sup> Required for NM only

<sup>3</sup> Max. cord length for 12V is 50 ft.

## WET / DRY LIGHTS

## Model WD4415

## DESCRIPTION

The WD4415 is a small, 12Volt wet/dry fixture that uses three MR-16, 75 Watt max. quartz lamps. It is ideal for use in or near water applications that are prone to being dry or could possibly be dry much of the time. It is available with a 45° cut-off louver. Rock guard is standard.

## SPECIFICATIONS

**FIXTURE HOUSING, ROCK GUARD, AND BASE:** Heavy wall construction.

**LAMP:** (3) 12Volt, MR-16, Quartz Halogen, 75 Watt max. (Lamps included).

**SOCKETS:** (3) -GX5.3, Bi-pin.

**LENS:** Tempered heat resistant clear glass.

**GASKET:** Single-piece molded U-shaped silicone.

**CORD:** Minimum 10' of #10-3 STW submersible cord. Cord entrance is brass, watertight seal, and epoxy encapsulated. Cord length must be specified.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

**FASTENERS:** Stainless steel.

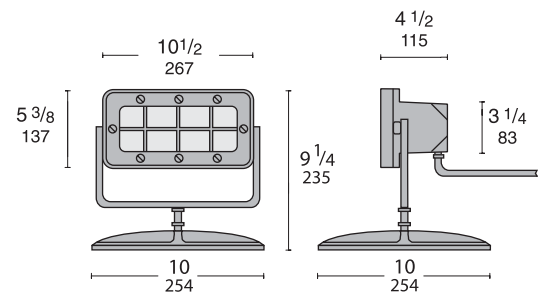
**ACCESSORIES:** Adjustable Locking Base, Riser Stems

**FINISH:** Black heat-dissipating Hender Lube on the body, door, and yoke base assembly.

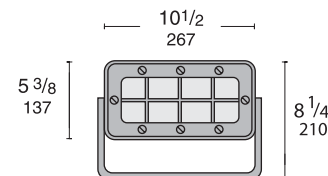
**LISTING:** U.L.



WD4415



BASE MOUNT



YOKE MOUNT

Dimensions shown in inches and millimeters.

Model	Lamp Type	Voltage	Distr.	Mounting	Mounting Acc. <sup>2</sup>	Cord Set Length	Lamp
WD4415	3/M20 3-20W MR16 GX5.3 3/M35 3-35W MR16 GX5.3 3/M50 3-50W MR16 GX5.3 3/M75 3-75W MR16 GX5.3	12 <sup>1</sup>	FL Flood	BM Base Mount YM Yoke Mount	ALB Adjustable Locking Base RSR <sup>3</sup> 4"-24" Riser Stem avail. in 2" increments	CSL 10' - 50' of cord available in 5' increments	LPI Lamp Included

<sup>1</sup> Transformer not included, sold separately

<sup>2</sup> Available w/ Base mount only

<sup>3</sup> RSR6 default with ALB

# Model WD4846

## DESCRIPTION

The WD4846 yoke and base mounted fixtures are ideal for small fountain and reflective pools. Designed for MR-16 lamp, 12 Volt bi-pin mount, 50 Watt max. The lamp housing is stainless steel with cast bronze door with a clear tempered borosilicate lens standard. Lamp included.

## SPECIFICATIONS

**FIXTURE HOUSING, DOOR AND ROCK GUARD:** Stainless steel construction with cast bronze doors and rock guard. Yoke and base are sand cast bronze.

**LAMP:** 12 Volt, MR-16, EYC, 50 Watt, Quartz Halogen. (Lamp included).

**SOCKET:** Bi-pin GX5.3.

**LENS:** 3 1/8" diameter tempered borosilicate, clear standard. Fresnel spread lens also available.

**GASKET:** Single-piece molded U-shaped silicone.

**CORD:** Minimum 10' of #16-3 STW submersible cord. Cord entrance is epoxy encapsulated. Cord length must be specified.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

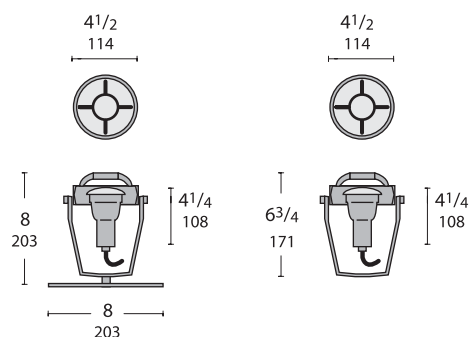
**FASTENERS:** Stainless steel.

**LISTING:** U.L.



IP-68  $\nabla$  4M  LOW VOLTAGE

WD4846



BASE MOUNT

YOKE MOUNT

Dimensions shown in inches and millimeters.

Model	Lamp Type	Voltage	Distribution	Lens	Mounting	Cord Set Length	Lamp
WD4846	LV M50 <sup>1</sup> MR16 GX5.3	12 <sup>2</sup>	FL Flood	CLC <sup>3</sup> Convex Lens Clear CLF Convex Lens Fresnel	BM Base Mount YM Yoke Mount	CSL 10' - 50' of cord available in 5' increments	LP Lamp Installed

<sup>1</sup> Other wattages available by request

<sup>2</sup> Transformer not included, sold separately

<sup>3</sup> CLC default

## WD9000 Series - Wet / Dry In-grade Lights

The Hydrel Wet/Dry 9000 Series provides state-of-the-art performance in the world's first in-grade wet/dry fixtures.

The Wet/Dry 9000 Series reflects the unique blend of innovation and experience that is the hallmark of Hydrel lighting and provides in-grade fixtures that can withstand the harshest environments.

Modular design, precision reflectors, optically active lenses, polymer rough-in section, watertight connectors, dry air purge, and underwater seals, combine to achieve outstanding fixtures applicable to a wide range of water feature installations.

Installation is greatly facilitated by a design that allows pre-installation of the rough-in section with the addition of the critical lighting components later.

Presealed watertight modules prevent condensation and assure watertight sealing during lamp replacement.

Efficient lamps combined with Hydrel's precision reflectors provide optimum performance and a wide choice of dramatic lighting effects not available in typical wet/dry lights.



photo copyright ©, Hydrel

The wall of a well known park in Kentucky borders a lake and is illuminated by 9000 Series wet/dry up-lights providing a beautiful nighttime entrance.



# Model WD9100

# Model WD9150

## DESCRIPTION

The WD 9100 Series wet/dry up-lights represent the state-of-the-art in flush up-light construction. These multipurpose modular units are designed for mounting in areas that are prone to being submerged in water or could possibly be wet much of the time. The lamp module, which includes the lamp, is factory sealed and thermally protected. The fixtures are available as round or square models, with or without integral junction box, and include cast bronze rock guard. Lens and reflector combinations provide a range of light distributions. Lamp is included.

## SPECIFICATIONS

### LAMP MODULE HOUSING, DOOR, ROUGH-IN SECTION:

Stainless steel lamp module housing, sealed and purged of all moisture to -100°F. Cast bronze door locks the lamp into the rough-in section with tamper proof fasteners. The rough-in housing is injection molded ABS, U.V. stabilized, impact and corrosion resistant.

**ROCK GUARD:** Heavy-duty cast bronze Rock Guard required (NEC).

**LAMP:** 120Volt, T-4 Mini-can or PAR38, 250 Watt max., Incandescent. (Lamp included).

**VOLTAGE:** 120 Volt only.

**DISTRIBUTIONS:** T-4 lamps: SP-Spot reflector; MFL - Medium Flood reflector; WWD-Wall Wash reflector w/ 5° axial spread lens (FLC5). PAR38 Lamps: SP-Spot; FL-Flood.

**LENS:** Flat clear tempered glass standard. Convex lenses are also available.

**CONDUIT ENTRIES:** NM Single 1/2" or 3/4"NPT bottom opening standard. Remote junction box sold separately. BM Two 1/2" or 3/4"NPT bottom openings available in an integral cast bronze junction box. Suitable for thru-branch wiring. Box has volume of 24 cubic inches.

**CORD:** NM Minimum of 35' of #16-3 STW submersible cord for connection to a remote junction box, sold separately. BM Minimum of 10' of #16-3 STW submersible cord. Integral bronze junction box included. Cord length must be specified.

**LISTING:** U.L.



WD9100



## WET / DRY LIGHTS

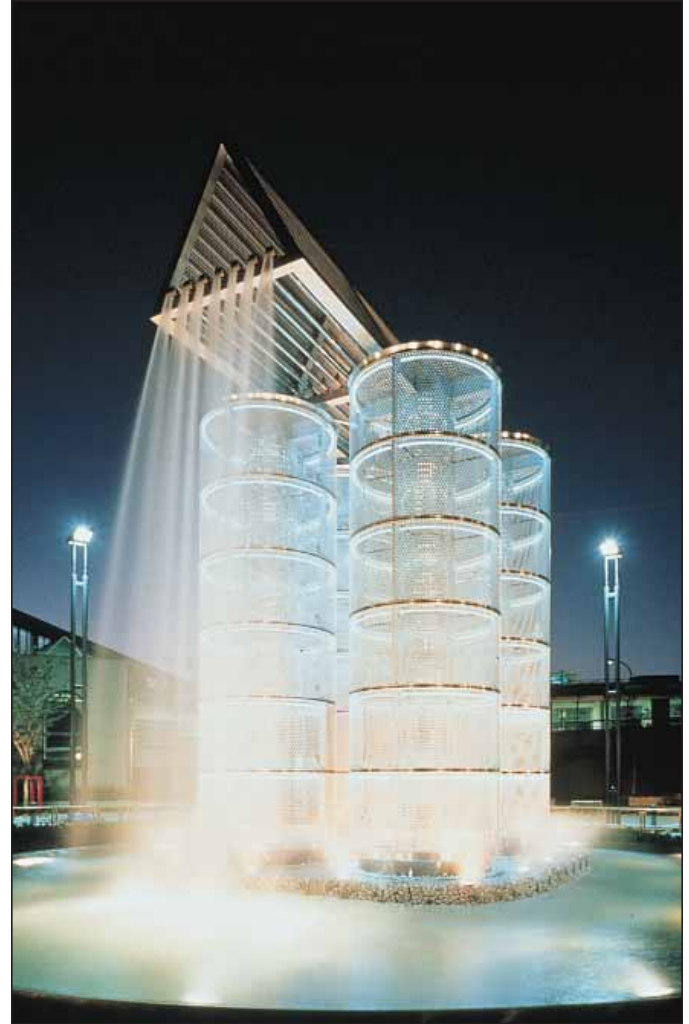
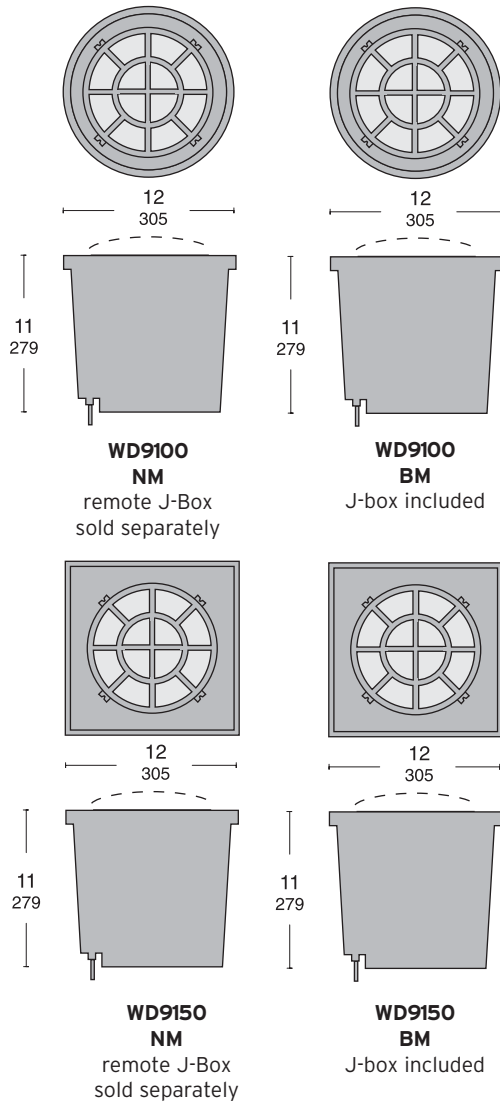


photo copyright ©,Hydrel

Dimensions shown in inches and millimeters.

Model	Lamp Type	Voltage	Distribution	Lens	Mounting	Conduit Entries	Accessories	Cord Set Length	Lamp
WD9100 Round	Incandescent <sup>1</sup>	MED base	120	SP <sup>1</sup> Spot	NM <sup>4</sup> Niche Mount	34B 3/4" NPT bottom	IHL Internal Honeycomb Louver	CSL <sup>2</sup>	LP Lamp Installed
WD9150 Square	P381001 <sup>1</sup> 100W PAR38		MFL Medium Flood	FLC5 <sup>3</sup> Flat Lens Clear 5° axial spread	BM <sup>5</sup> base Mount	12B 1/2" NPT bottom	MSR Modular Support Ring	NM 35' - 120' of cord available in 5' increments	
	P381501 <sup>1</sup> 100W PAR38		FL <sup>1,2</sup> Flood	FLC10 Flat Lens Clear 10° tilt			BTR Brass Trim Ring Round	BM 10' - 120' of cord available in 5' increments	
	P382501 <sup>1</sup> 250W PAR38		WWD <sup>3</sup> Wall Wash	FLC30 Flat Lens Clear 30° spread			BTS Brass Trim Ring Square		
	Quartz	Mini.can base		FLF Flat Lens Frosted			STR Stainless Steel Trim Ring Round		
	100Q 100W T4			CLC Convex Lens Clear			STS Stainless Steel Trim Ring Square		
	150Q 150W T4			CLF Convex Lens Frosted			PC2112 20 cu. in. Potting Compound		

<sup>1</sup> PAR38 lamps available SP or FL distributions only.  
<sup>2</sup> lens options available for modifying PAR38 distributions

<sup>3</sup> FL distribution not available w/ 100Q or 150Q

<sup>4</sup> WWD distribution requires a FLC5 lens

<sup>5</sup> NM mounting requires remote J-box, sold separately

<sup>6</sup> BM mounting includes integral J-box

# Model WD9000

# Model WD9050

## DESCRIPTION

The WD9000 Series wet/dry up-lights represent the state-of-the-art in flush up-light construction. These multipurpose modular units are designed for mounting in areas that are prone to being submerged in water or could possibly be wet much of the time. The lamp module is factory sealed and thermally protected. The small 8" footprint of the fixture allows for placement in tight areas. The fixtures are available as round or square models, with or without integral junction box, and include cast bronze rock guard. A choice of included lamps provides a variety of light distributions.

## SPECIFICATIONS

### LAMP MODULE HOUSING, DOOR, ROUGH-IN SECTION:

Stainless steel lamp module housing, sealed and purged of all moisture to -100°F. Cast bronze door locks the lamp into the rough-in section with tamper proof fasteners. The rough-in housing is injection molded ABS, U.V. stabilized, impact and corrosion resistant.

**ROCK GUARD:** Heavy-duty cast bronze RockGuard required(NEC).

**LAMP:** 120 Volt: PAR16, PAR20, and PAR30 to 75Watt, incandescent. 12 Volt: MR-16 and PAR 36, to 75 Watt, incandescent.(Lamp included).

**VOLTAGE:** 120 or 12 Volt.

**DISTRIBUTIONS:** Beam spread by lamp type.

**LENS:** Flat clear tempered glass, standard. Convex lenses are also available.

**CONDUIT ENTRIES:** NM Single 1/2" or 3/4" NPT bottom opening standard. Remote junction box sold separately. BM Two 1/2" or 3/4" NPT bottom openings available in an integral cast bronze junction box. Suitable for thru-branch wiring. Box has volume of 17 cubic inches.

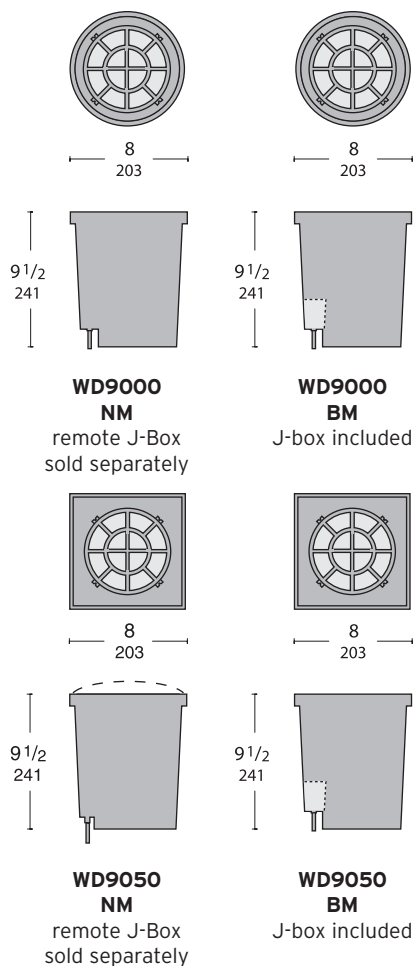
**CORD:** NM Minimum of 35' of #16-3 STW submersible cord for connection to a remote junction box, J-box sold separately. BM Minimum of 10' of #16-3 STW submersible cord. Integral bronze junction box included. Cord length must be specified.

**LISTING:** U.L.



WD9000

## WET / DRY LIGHTS



Dimensions shown in inches and millimeters.



photo copyright ©,Hydrel

Model	Lamp Type	Voltage	Distribution <sup>2</sup>	Lens	Mounting	Conduit Entries	Accessories	Cord Set Length	Lamp
<b>WD9000</b> Round	<b>Incandescent</b> 120V	12 <sup>1</sup>	<b>VNSP</b> Very Narrow Spot	<b>CLC</b> Convex Lens Clear	<b>NM</b> <sup>4</sup> Niche Mount	<b>34B</b> 3/4" NPT bottom	<b>IHL</b> Internal Honeycomb Louver	<b>CSL</b> <sup>6</sup>	<b>LP</b> Lamp Installed
<b>WD9050</b> Square	<b>P1660I</b> 60W PAR16	120	<b>NSP</b> Narrow Spot	<b>CLF</b> Convex Lens Frosted	<b>BM</b> <sup>5</sup> Base Mount	<b>12B</b> 1/2" NPT bottom	<b>BTR</b> Brass Trim Ring Round	<b>NM</b> 35' - 120' of cord available in 5' increments	
	<b>P1675I</b> 75W PAR16		<b>SP</b> Spot	<b>FLC</b> <sup>3</sup> Flat Lens Clear			<b>BTS</b> Brass Trim Ring Square		
	<b>P2050I</b> 50W PAR20		<b>NFL</b> Narrow Flood	<b>FLC10</b> Flat Lens Clear 10° Tilt			<b>STR</b> Stainless Steel Trim Ring Round		
	<b>P3050I</b> 50W PAR30		<b>FL</b> Flood	<b>FLF</b> Flat Lens Frosted			<b>STS</b> Stainless Steel Trim Ring Square	<b>BM</b> 10' - 120' of cord available in 5' increments	
	<b>P3075I</b> 75W PAR30		<b>WFL</b> Wide Flood				<b>MSR</b> Modular Support Ring		
	<b>Incandescent</b> 12V						<b>PC2112</b> 20 cu. in. Potting Compound		
	<b>M50</b> 50W MR16								
	<b>M75</b> 75W MR16								
	<b>P3636ILV</b> 36W PAR36								
	<b>P3650ILV</b> 50W PAR36								
	<b>P3675ILV</b> 75W PAR36								

<sup>1</sup> Transformer sold separately

<sup>2</sup> Not all distributions valid w/ all lamp types-consult lamp mfg.

<sup>3</sup> FLC default

<sup>4</sup> NM mounting requires remote J-box, sold separately

<sup>5</sup> BM mounting includes integral J-box

<sup>6</sup> CSL50 is max. cord length for 12V fixture





# SWIMMING POOL LIGHTS

Swimming Pool, Wet Niche  
HID Fixture, page 43.



4428 SWM

Swimming Pool, Dry Niche  
Fixture, page 44.



4429 SWM

Hydrel offers an extensive line of swimming pool lighting designed to meet the most demanding requirements of commercial and competition pools, as well as those of residential installations. Both wet and dry niche units are featured and are available in line voltage and low voltage models.

Hydrel swimming pool lights are built to meet or surpass Underwriters Laboratories standards as well as those of the National Electric Code. They meet the safety requirements for swimming pool lights, which are demanding and prescribe additional safeguards.

Swimming Pool, Wet Niche Fixtures, pages 45-50.



4427 SWM



4421 SWM



4425 SWM



4800 SWM



4426 SWM



Photo left:  
Hydrel underwater lights  
are widely used to illuminate large pools at  
institutions and campuses across the country  
and around the world.



## 4428 - Metal Halide Pool Light

This 175 Watt metal halide pool light, the first HID underwater light, delivers the equivalent light output of a 1000 Watt incandescent lamp while consuming only one-fifth the power and attaining 2 1/2 times longer lamp life.



photo copyright ©, Hydrel

### One-fifth the Power

Industry's first 175 Watt Metal Halide pool light provides light output equivalent to a 1000 Watt incandescent lamp but uses only one-fifth the power.

### Over Two Times the Life

175 Watt HID lamp provides 10,000 hours of operation compared to 4,000 hours for a 1000 Watt quartz halogen lamp.

- Metal Halide ballast encapsulated and contained in fixture.
- Heavy wall cast bronze construction.
- Tempered borosilicate spread lens and silicone gaskets.
- Improved color - more light in the blue region of the spectrum.
- Temperature sensing - low water cutoff - standard.
- "Electro-Grid" safety feature - standard.
- Retro-fits into existing, industry standard residential 500 Watt niche.
- Lamp included.
- Also available as a base mounted fountain and water feature fixture.

## SWIMMING POOL LIGHTS

## Model 4428 SWM

## DESCRIPTION

These heavy-duty cast bronze underwater metal halide fixtures are the first of their kind for use in swimming pools. These units are designed to be recessed into a stainless steel niches as wet niche type fixtures. These units accept an E-17, 175 Watt metal halide lamp and utilize a stainless steel safety "Electro-Grid" located between the lamp and the lens. The integral ballast is completely sealed, encapsulated in a custom epoxy designed for this use. This unit yields a lamp life of up to 10,000 hours of operation.

## SPECIFICATIONS

**FIXTURE & DOOR:** Heavy wall cast bronze construction. Natural cast bronze finish. Stainless steel door finish also available.

**ELECTRO-GRID:** Stainless steel welded wire.

**NICHE:** Stainless steel with cast bronze mounting ring with provision for positive locking of fixture in position, four ears for tying to forms or steel structural rods. Pressure grounding lug on interior and exterior surfaces. Conduit entrance 3/4" NPT with 3/4" x 1/2" NPT reducer. 4428 Wet Niche Swimming Pool Fixture can be field adjusted for installation into existing industry standard residential pool wet niche.

**LAMP:** E-17 medium base M-57, 175 Watt, Metal Halide (ANSI M57), 10,000 hours. Lamp included.

**SOCKET:** Pulse rated medium base with nickel-plated copper screwshell and 200°C leads.

**VOLTAGE:** 120 Volt only.

**BALLAST:** High Power Factor CWA core & coil ballast encapsulated into the fixture housing.

**DISTRIBUTION:** Asymmetrical flood with downward deflection to provide uniform lighting.

**LENS:** 8 3/8" diameter flat linear spread tempered borosilicate glass.

**GASKET:** Single piece molded U-shaped silicone.

**CORD:** Minimum of 35' of #16-3 STW submersible cord. Cord entrance is water-tight, epoxy encapsulated. Cord length must be specified. Sufficient cord must be coiled in the niche to allow for the removal of the fixture to above water level for relamping.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70 kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

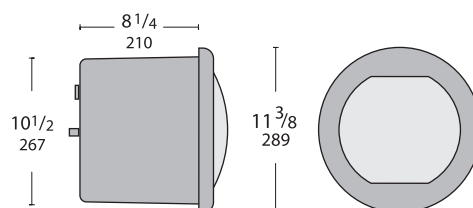
**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off, standard.

Fasteners: Stainless steel.

**LISTING:** U.L.



4428 SWM



Dimensions shown in inches and millimeters.

Model	Material	Lamp Type	Voltage	Lens	Mounting <sup>3</sup>	Conduit Entries	Cord Set Length	Niche	Application	Lamp	Options
4428	B Bronze SWB Salt Water Bronze	175M <sup>1</sup> E17 MED	120 <sup>2</sup>	CLS Convex Lens Swim	NM Niche Mount	3/4B 3/4" NPT bottom	CSL 35' - 120' of cord available in 5' increments	L/N <sup>3</sup> Fixture Less Niche	SWM Swimming Pool Fixture	LP Lamp Installed	Finish SS Stainless Steel

<sup>1</sup> Available only in 175W Metal Halide

<sup>2</sup> Available in 120 Volt only

<sup>3</sup> Fixture can be retrofitted into other manufacturer's niches. Consult factory



## SWIMMING POOL LIGHTS

## Model 4429 SWM

## DESCRIPTION

The 4429 dry niche swimming pool light is designed for use in marine parks, zoos, and other aquarium installations for illumination of viewing pools. It provides the ultimate in safety, quality, styling, and construction. This fixture is accessible from outside the pool for easy relamping and maintenance.

## SPECIFICATIONS

**FIXTURE HOUSING, DOOR AND ELECTRO-GRID:** Heavy wall cast bronze construction. Natural bronze finish.

**LAMP:** 120 Volt: PAR 64, 1000 Watt or PAR 56, 500 Watt max. 12 Volt: PAR 56, 300 Watt max. (Lamp included).

**SOCKET:** 120 Volt: Mogul end prong type with 200°C insulated leads. 12 Volt: Ring Terminal connectors with 200°C insulated leads.

**LENS:** Tempered heat resistant glass, 30° spread and 15° downward deflection.

**GASKET:** Single-piece molded U-shaped silicone.

**INTEGRAL JUNCTION BOX:** Two 3/4" or 1" NPT side conduit entries available for thru-branch wiring. Grounding lugs located in the junction box and one on outer surface of fixture housing.

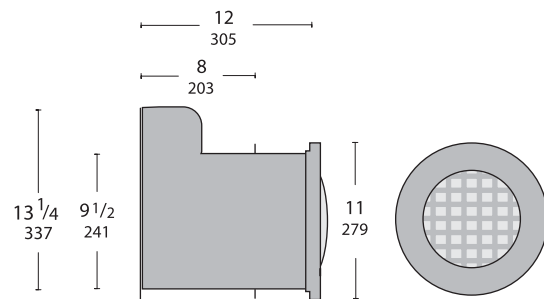
**BACK HOUSING COVER:** Cast bronze with stand-off bosses to permit ventilation and allow for rear access and relamping.

**FASTENERS:** Stainless steel.

**LISTING:** U.L., CSA



4429 SWM



Dimensions shown in inches and millimeters.

Model	Material	Lamp Type	Distribution <sup>2</sup>	Lens	Conduit Entries	Accessories	Application	Lamp	Options
4429	B Bronze	Incandescent P56300I PAR56 MGEP P56500I PAR56 MGEP P561000I PAR64 MGEP P641000I Low Voltage P56300ILV PAR56 Screw Terminal	MFL Medium Flood NSP Narrow Spot WFL Wide Flood VNSP Very Narrow Spot	CLS <sup>3</sup> Convex Lens Clear Swim CLSA Convex Lens Amber Swim CLSB Convex Lens Blue Swim CLSG Convex Lens Green Swim CLSR Convex Lens Red Swim	34B 3/4" NPT 1B 1" NPT	TLMSK Tile Mask EJB Extended J-Box	SWM Swimming Pool Fixture	LPI Lamp Included	Listing CSA Canadian Standard Assoc.

<sup>1</sup> Transformer not included, sold separately

<sup>2</sup> Not all distributions available w/ all lamps

<sup>3</sup> CLS default

## SWIMMING POOL LIGHTS

# Model 4427 SWM

### DESCRIPTION

These heavy-duty cast bronze fixtures, with stainless steel forming niches are designed for wet niche installation in swimming pools. They accommodate 120 Volt PAR 64 1000 Watt quartz lamps. A cast bronze safety "Electro-Grid," is located between the face of the lamp and the lens.

### SPECIFICATIONS

**FIXTURE HOUSING, DOOR AND ELECTRO-GRID:** Heavy wall cast bronze construction. Natural bronze finish. Stainless steel door finish also available.

**NICHE:** Stainless steel with cast bronze mounting ring with provision for positive locking of fixture in position. Four ears for tying to forms or steel structural rods. Pressure grounding lug on interior and exterior surfaces. Conduit entrance 3/4" NPT with 3/4" x 1/2" NPT reducer.

**LAMP:** 120 Volt, PAR 64, 1000 Watt max. Lamp included.

**SOCKET:** Mogul end prong type with 200°C insulated leads.

**LENS:** Tempered heat resistant glass with 30° spread and 15° downward deflection. Amber, blue, green, and red lenses also available.

**GASKET:** Single-piece molded U-shaped silicone.

**CORD:** Minimum of 35' of #16-3 STW submersible cord. Cord entrance is brass, watertight seal, and epoxy encapsulated. Cord length must be specified. Sufficient cord must be coiled in the niche to allow for the removal of the fixture to above water level for relamping.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

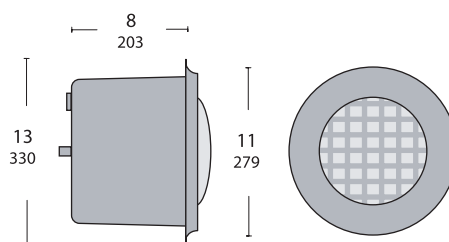
**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

**FASTENERS:** Stainless steel.

**LISTING:** U.L., CSA.



4427 SWM



Dimensions shown in inches and millimeters.

Model	Material	Lamp Type	Voltage	Distribution <sup>2</sup>	Lens	Mounting	Conduit Entries	Cord Set Length	Application	Lamp	Options
4427	B Bronze SWB Salt Water Bronze	Incandescent P645001 PAR64 MGEP P6410001 PAR64 MGEP	120	MFL Medium Flood NSP Narrow Spot WFL Wide Flood	CLS3 Convex Lens Clear Swim CLSA Convex Lens Amber Swim CLSB Convex Lens Blue Swim CLSG Convex Lens Green Swim CLSR Convex Lens Red Swim	NM Niche Mount	3/4B 3/4" NPT bottom	CSL 35' - 120' of cord available in 5' increments	SWM Swimming Pool Fixture	LPI Lamp Included	Finish SS Stainless Steel Listing CSA Canadian Standard Assoc.

<sup>1</sup> P6410001 - default

<sup>2</sup> Not all distributions available w / all lamps

<sup>3</sup> CLS - default

## SWIMMING POOL LIGHTS

## Model 4421 SWM

## DESCRIPTION

The 4421 is a compact wet niche mounted 500 Watt max. quartz halogen fixture for swimming pools. It is designed to accept the T-4 mini-can quartz lamp. The overall depth of the niche is 6", making it ideal for installation within a shallow wall.

## SPECIFICATIONS

**FIXTURE HOUSING, AND DOOR:** Heavy wall cast bronze construction. Stainless steel door finish also available.

**NICHE:** Stainless steel with cast bronze mounting ring with provision for positive locking of fixture in position. Four ears for tying to forms or steel structural rods. Pressure grounding lug on interior and exterior surfaces. Conduit entrance 3/4" NPT with 3/4" x 1/2" NPT reducer.

**LAMP:** 120 Volt, T-4 mini-can, 500 Watt max. Quartz Halogen. Lamp included.

**SOCKET:** Mini-can base type with 200°C insulated leads.

**DISTRIBUTION:** Reflector is parabolic spun copper, chrome plated.

**LENS:** Heat resistant tempered glass with 30° spread and 15° downward deflection.

**GASKET:** Single-piece molded U-shaped silicone.

**CORD:** Minimum of 35' of #16-3 STW submersible cord. Cord entrance is brass, watertight seal, and epoxy encapsulated. Cord length must be specified. Sufficient cord must be coiled in the niche to allow for the removal of the fixture to above water level for relamping.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

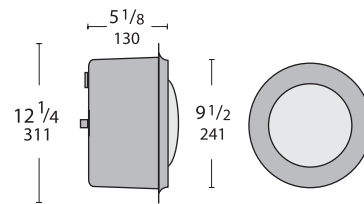
**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

**FASTENERS:** Stainless steel.

**LISTING:** U.L., CSA.



4421 SWM



Dimensions shown in inches and millimeters.

Model	Material	Lamp Type	Voltage	Lens	Mounting	Conduit Entries	Cord Set Length	Application	Lamp	Options
4421	B Bronze	Incandescent	120	CLS Convex Lens Swim	NM Niche Mount	34B 3/4" NPT bottom	CSL 35' - 120' of cord available in 5' increments	SWM Swimming Pool Fixture	LPI Lamp Included	Finish: SS Stainless Steel Listing: CSA Canadian Standard Assoc.
		100Q T4 Mini-can								
		150Q T4 Mini-can								
		250Q T4 Mini-can								
		400Q T4 Mini-can								
		500Q <sup>1</sup> T4 Mini-can								

## SWIMMING POOL LIGHTS

# Model 4425 SWM

### DESCRIPTION

This heavy-duty cast bronze fixture, recessed in a stainless steel forming niche, is designed for wet niche installations and accommodates 120 Volt lamps to 500 Watts and 12 Volt lamps to 300 Watts. A cast bronze safety "Electro-Grid" is located between the face of the lamp and the lens.

### SPECIFICATIONS

**FIXTURE HOUSING, DOOR AND ELECTRO-GRID:** Heavy wall cast bronze construction. Natural bronze finish. Stainless Steel door finish is also available.

**NICHE:** Stainless steel with cast bronze mounting ring with provision for positive locking of fixture in position. Four ears to tie to forms or steel structural rods. Pressure grounding lug on interior and exterior surfaces. Conduit entrance 3/4" NPT with 3/4"x1/2" NPT reducer bushing supplied 1" NPT conduit entrance also available.

**LAMP:** 120 Volt: PAR56, 500 Watt max. 12 Volt: PAR56, 300 Watt max. (Lamp included).

**SOCKET:** 120 Volt: Mogul end prong with 200°C insulated leads. 12 Volt: Ring Terminal connectors with 200°C insulated leads.

**LENS:** Heat resistant tempered glass with 30° spread and 15° downward deflection. Amber, blue, green, and red lenses also available.

**GASKET:** Single-piece molded U-shaped silicone.

**CORD:** Minimum of 35' of #10-3 STW for US standard, 10m HO7RN-F-2x6mm2 for European standard submersible cord for 120 Volt fixtures. Minimum of 35' of #16-3 STW for US standard submersible cord for 120 Volt fixtures. Cord entrance is brass, water-tight seal and epoxy encapsulated. Cord length must be specified. Sufficient cord must be coiled in the niche to allow for the removal of the fixture to above water level for relamping.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

**FASTENERS:** Stainless steel.

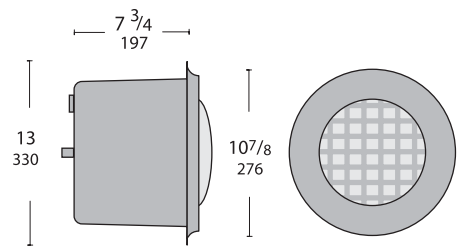
**LISTING:** U.L., CSA, CE, CB, NEMKO.



IP-68  $\nabla$  4M

4425 SWM

CE CB APPROVED N  
Lamp Included



Dimensions shown in inches and millimeters.

Model	Material	Lamp Type	Voltage	Distribution <sup>3</sup>	Lens	Mounting	Conduit Entries	Cord Set Length	Application	Lamp	Options
4425	B Bronze SWB Salt Water Bronze	Incandescent P562001 PAR56 MGEP P563001 PAR56 MGEP P565001 <sup>1</sup> PAR56 MGEP Low Voltage P563001LV <sup>1</sup> PAR56 Screw Terminal	120 12 <sup>2</sup>	MFL Medium Flood NSP Narrow Spot WFL Wide Flood	CLS <sup>4</sup> Convex Lens Clear Swim CLSA Convex Lens Amber Swim CLSB Convex Lens Blue Swim CLSG Convex Lens Green Swim CLSR Convex Lens Red Swim	NM Niche Mount	34B 3/4" NPT bottom 1B <sup>5</sup> 1" NPT bottom	CSL <sup>6</sup> 35' - 120' of cord available in 5' increments	SWM Swimming Pool Fixture	LPI Lamp Included	Finish SS Stainless Steel Listing CSA Canadian Standard Assoc. IEC <sup>7</sup> International Electrotechnical Commission

<sup>1</sup> P565001 (120V) - P563001LV (12V) default for 120V

<sup>2</sup> Transformer not included, sold separately

<sup>3</sup> Not all distributions available w/ all lamps

<sup>4</sup> CLS - default

<sup>5</sup> Recommended for 12V

<sup>6</sup> CLS50 - max cord length for 12V

<sup>7</sup> Available in 12V only



# Model 4426 LED RGB Color Changing

## DESCRIPTION

The 4426 is designed to be recessed into a stainless steel niche as a "wet niche" type fixture. These units use a Red, Green, and Blue (RGB) underwater color balanced LED array to create DMX controlled color changing lighting effects. Color control is achieved through four channels per fixture, standard DMX512 hardware, at a maximum of 44 frames per second. All channels have logarithmic power for finer color and intensity control. The fourth channel, Intensity, allows the user to vary brightness without affecting the color. The integral power and control modules are enclosed in an attached sealed combination box. The proprietary control module senses the LED temperature and adjusts the LED power accordingly to yield a lamp life of up to 50,000 hours of operation. This lamp life exceeds any other fixture designed for this use. For power and signal hook-up, the integral combination box includes a minimum of 35' of submersible rated power cable and a minimum of 35' of submersible rated DMX signal cable. Power and signal are distributed to the fixture via a double conduit system which terminates into standard conduit entrances at the back of the niche.

## SPECIFICATIONS

**FIXTURE HOUSING AND DOOR:** Heavy wall cast bronze construction. Natural cast bronze finish. Stainless steel bezel finish is also available..

**NICHE:** Stainless steel with cast bronze mounting ring which locks the fixture into position. Niche has four ears to tie to forms or steel structural rods. Pressure grounding lugs on interior and exterior surfaces. Niche conduit entrances are 3/4" NPT.

**LED TYPE:** 60 Watt RGB LED array. (LED Board included.)

**CONTROL:** Standard DMX512. 3-channels per fixture: Red, Green, Blue or 4-channels per fixture: Red, Green, Blue and Intensity.

**COMMUNICATION TO FIXTURE:** DMX512 direct.

**VOLTAGE:** 120VAC 60HZ only.

**LENS:** 8 5/8" (219mm) diameter convex linear spread tempered glass.

**GASKET:** Single piece molded U-shaped silicone gasket.

**CORD:** Minimum of 35' of #16/3ST submersible rated cord for standard 120VAC line, minimum of 35' of submersible rated data cord for DMX512 signal. Cord entrance is epoxy encapsulated. Cord length must be specified. NOTE: Sufficient cord should be coiled in the niche to allow for the fixture to be removed and brought above water level for maintenance.



IP-68  $\frac{V}{4M}$  II

4426

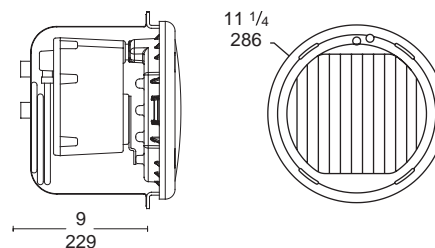
CE CB APPROVED  
LED Board Included (N)

**FACTORY LEAK TESTED:** Fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

**LOW WATER PROTECTION:** Temperature sensing circuit reduces power to LEDs to prevent damage.

**FASTENERS:** Stainless steel.

**LISTING:** U.L., C.U.L.



Dimensions shown in inches and millimeters.

Model	Material	LED Type	LED Color	Voltage	Distribution	Lens	Mounting	Control	Comm. to Fixture	Cord Set Length
4426	B Bronze SWB Salt Water Bronze SS Stainless Steel	60LED 60 Watts	RGB Mixing	120	WFL Wide Flood	CLS Convex Lens Swim	NM Niche Mount	3-Channel 3DMX DMX 512 4-Channel 4DMX DMX 512	DDX Direct DMX	CSL 35' - 120' of cord available in 5' increments

<sup>1</sup> Junction Box (Sold Separately)

<sup>2</sup> DMX Distribution Components and Signal Generator (by others)

<sup>3</sup> Niche to be installed to accommodate two conduit runs.

a) First Conduit Run - 120V Power Supply  
b) Second Conduit Run - DMX512 Signal

## SWIMMING POOL LIGHTS

# Model 4426 LED Monochromatic

## DESCRIPTION

The 4426 is designed to be recessed into a stainless steel niche as a "wet niche" type fixture. These units offer cool white, warm white, amber, blue, cyan, green, royal blue and red monochromatic colors. The system shall be composed of two components: 1) LED array board and 2) Driver. The LED Driver powers via constant voltage or constant current. With a constant current driver, LED lumen output does not change with temperature variations. Hydrel's monochromatic system is a non-dimming, one color light output.

## SPECIFICATIONS

**FIXTURE HOUSING AND DOOR:** Heavy wall cast bronze construction. Natural cast bronze finish. Stainless steel bezel finish is also available.

**NICHE:** Stainless steel with cast bronze mounting ring which locks the fixture into position. Niche has four ears to tie to forms or steel structural rods. Pressure grounding lugs on interior and exterior surfaces. Niche conduit entrances are 3/4" NPT.

**LED TYPE:** 60 Watt monochromatic LED. (LED Board included.)

**VOLTAGE:** 120VAC 60HZ only.

**LENS:** 8 5/8" (219mm) diameter convex linear spread tempered glass.

**GASKET:** Single piece molded U-shaped silicone gasket.

**CORD:** Minimum of 35' of #16/3ST submersible rated cord for standard 120VAC line. Cord entrance is epoxy encapsulated. Cord length must be specified. NOTE: Sufficient cord should be coiled in the niche to allow for the fixture to be removed and brought above water level for maintenance.

**FACTORY LEAK TESTED:** Fixtures are tested at 10 PSI (0.70kg/cm<sup>2</sup>) internal pressure while totally submerged in water.

**LOW WATER PROTECTION:** Temperature sensing circuit reduces power to LEDs to prevent damage.

**FASTENERS:** Stainless steel.

**LISTING:** U.L., C.U.L.

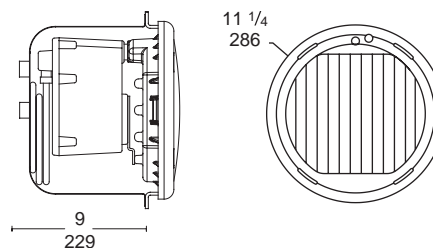


IP-68  $\frac{V}{4M}$  II

4426



CB APPROVED  
LED Board Included



Dimensions shown in inches and millimeters.

Model	Material	LED Type	LED Color	Voltage	Distribution	Lens	Mounting	Cord Set Length
4426	B Bronze SWB Salt Water Bronze SS Stainless Steel	60LED 60 Watts	CLW Cool white WMW Warm White AMB Amber BLU Blue CYN Cyan GRN Green RBL Royal Blue RED Red	120	WFL Wide Flood	CLS Convex Lens Swim	NM Niche Mount	CSL_ 35' - 120' of cord available in 5' increments

## SWIMMING POOL LIGHTS

## Model 4800 SWM

## DESCRIPTION

The 4800 Series wet niche mounted swimming pool light is smaller in size than conventional units. It is available with round or square bezel and uses 120 Volt, 150 Watt max., T-4 mini-can or 12 Volt, 75 Watt max., MR16 quartz halogen lamp. The stainless steel niche includes a bonding lug and conduit hub. A clear fresnel spread tempered lens is standard. Lamp included.

(Formerly Models 4842, 4843, 4845, 4838, 4839, 4840)

## SPECIFICATIONS

**FIXTURE HOUSING AND DOOR:** Stainless steel housing with heavy wall cast bronze doors. Stainless steel door finish also available.

**NICHE:** Stainless steel with cast bronze mounting assembly, which has provisions for positive locking of fixture in position. The unit includes a grounding lug and a 3/4" conduit hub with 1/2" reducer or PG16 conduit hub.

**LAMP:** 120 Volt: T-4, 150 Watt max., Quartz Halogen. 12 Volt: MR-16 75 Watt max., Quartz Halogen. (Lamp included).

**SOCKET:** 120 Volt: Mini-can, screw base. 12 Volt: bipin mount GX5.3.

**LENS:** 3 1/8" (80mm) diameter tempered borosilicate, clear fresnel spread standard. Clear, amber, blue, green, and red lenses also available. Colored lenses are not fresnel.

**GASKET:** Single-piece molded U-shaped silicone.

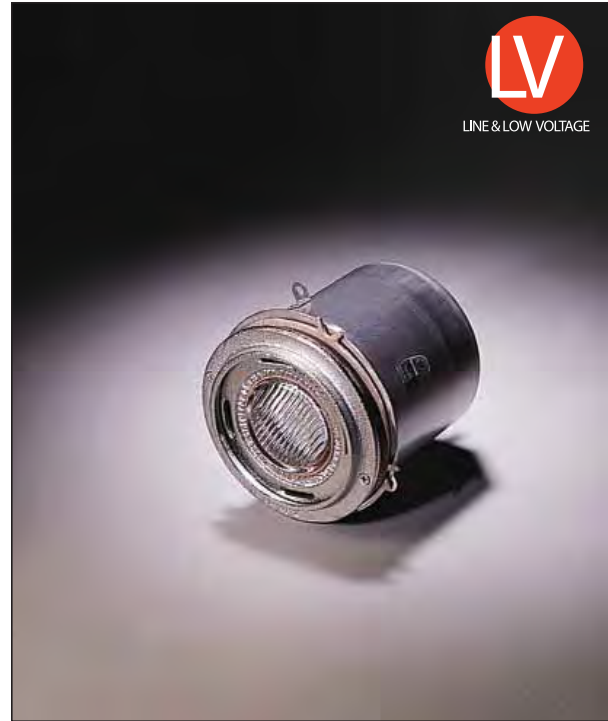
**CORD:** Minimum of 35' of #16-3 STW submersible cord for U.S. standard, 10m of HO7RN-F-2x4mm2 for European standard. Cord entrance is epoxy encapsulated. Cord length must be specified. Sufficient cord must be coiled in the niche to allow for the removal of the fixture to above water level for relamping.

**FACTORY LEAK TESTED:** All fixtures are tested at 10 PSI (0.70kg/cm2) internal pressure while totally submerged in water.

**LOW WATER CUT-OFF:** Temperature sensing Low Water Cut-off standard.

**FASTENERS:** Stainless Steel.

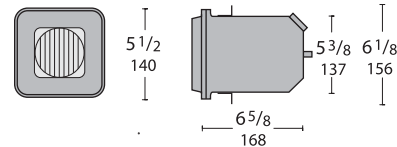
**LISTING:** U.L., CSA, CE, CB, NEMKO



IP-68  $\frac{\nabla}{4M}$  II

4800 SWM

CE CB APPROVED  Lamp Included



SQUARE BEZEL



ROUND BEZEL

Dimensions shown in inches and millimeters.

Model	Door <sup>1</sup>	Material	Lamp Type <sup>3</sup>	Voltage	Distribution	Lens	Mounting	Conduit Entries	Cord Set Length	Application	Lamp	Options
4800	RD Round SQ Square	B Bronze SS <sup>2</sup> Stainless Steel	Incandescent 100Q T4 Mini-can 150Q T4 Mini-can <u>Low Voltage</u> M75 MR16 GX5.3	120 12 <sup>4</sup>	FL Flood	CLS <sup>5</sup> Convex Lens Swim CLSA Convex Lens Amber Swim CLSB <sup>6</sup> Convex Lens Blue Swim CLSG <sup>6</sup> Convex Lens Green Swim CLSR Convex Lens Red Swim CLC Convex Lens Clear Swim	NM Niche Mount	3445B 3/4" NPT at 45° 1645B PG16 at 45°	CSL <sup>7</sup> 35' - 120' of cord available in 5' increments	SWM Swimming Pool Fixture	LP Lamp Installed	Listing CSA Canadian Standard Assoc. IEC <sup>8</sup> International Electrotechnical Commission

- <sup>1</sup> RD door adjustable, SQ door fixed  
<sup>2</sup> SS door available in round only  
<sup>3</sup> Other wattages available by request  
<sup>4</sup> Transformer not included, sold separately  
<sup>5</sup> CLS default  
<sup>6</sup> CLB and CLG not available w/ 150Q  
<sup>7</sup> CSL50 max. cord length for 12V  
<sup>8</sup> Available in 12V only









## UNDERWATER ACCESSORIES

### Underwater Accessories

Complementing their underwater lights, is Hydrel's full line of accessories manufactured to the high standards required for underwater fountain and pool products.

### Electronic Water Level and Cut-Off Controls

See Page 57-60 for installation details.

**MODEL #**

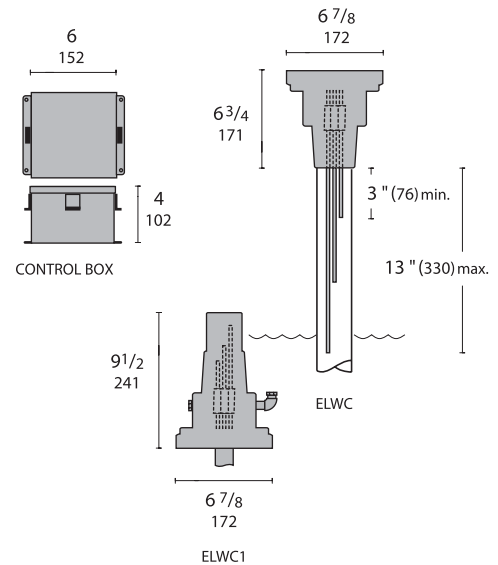
**ELWC** deck & remote mount

**ELWC1** conduit mount



### Colored Lenses

Green, Red, Amber, and Blue available for most fixtures.



Dimensions shown in inches and millimeters.

### Low Voltage Transformers

Low voltage lighting fixtures require that the line voltages be stepped down. This is normally accomplished with a transformer or series of transformers located in the pool equipment area. Hydrel offers such units in sizes from 300 to 1000 Watts.

**Note:** Special consideration must be given to the length of cords used with low voltage underwater fixtures.

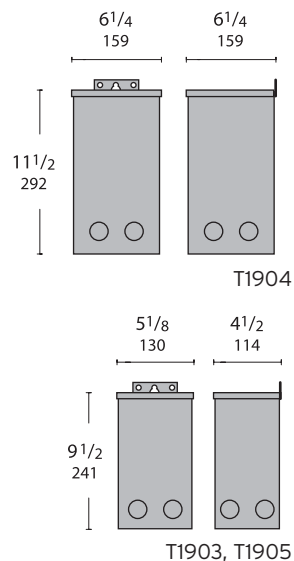


**MODEL #**

**T1904** 1000 Watt Transformer

**T1905** 500 Watt Transformer

**T1903** 300 Watt Transformer



### Potting Compound

PC21 is a re-enterable potting compound which pours yellow and cures transparent so that connections are easily located. It meets NEC requirements for potting underwater junction boxes.

**PC21** 35 CU. IN.

**PC2112** 20 CU. IN.



PC21

## UNDERWATER ACCESSORIES

### Underwater Junction Boxes

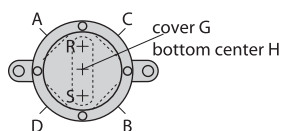
Hydrel Underwater Junction Boxes are designed for the connection of supply cords from underwater fountain fixtures and service conduits. They feature heavy cast bronze construction, neoprene gaskets, internal ground lugs and stainless steel hardware.

All hubs may be tapped either 1/2" NPT or 3/4" NPT with other drillings available upon request. When ordering, specify the catalog number, hub location, and hub size.

Letters around perimeter indicate side drill locations. Letters within box indicate bottom drill locations.



JB1701

**Outside Dim:**

4 3/4" (121) dia. x 3" (76) deep

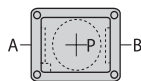
**Inside Dim:**

3 1/2" (89) dia. x 2" (51) deep  
25 cubic inches

Cover may have single 1/2" or 3/4" hub. Bottom may also have single 1" hub.



JB1703

**Outside Dim:**

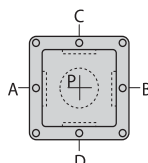
3 3/8" (86) x 4 3/8" (111)  
x 2 1/2" (64) deep

**Inside Dim:**

3" (76) x 2" (51) x 2" (51) deep  
(12 cubic inches)



JB1705

**Outside Dim:**

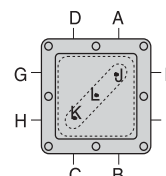
4 3/4" (121) sq. x 2 1/2" (64) deep

**Inside Dim:**

3" (76) sq. x 2" (51) deep  
(18 cubic inches)



JB1706

**Outside Dim:**

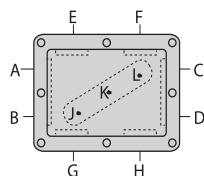
5 3/8" (137) sq. x 2 1/2" (64) deep

**Inside Dim:**

4" (102) sq. x 2" (51) deep  
(32 cubic inches)



JB1708

**Outside Dim:**

7 3/8" (188) x 5 3/8" (137)  
x 2 1/2" (64) deep

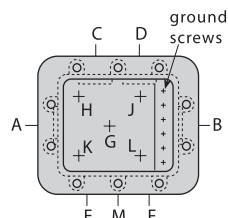
**Inside Dim:**

6" (153) x 4" (102) x 2" (51) deep  
(48 cubic inches)

Bottom may have single 1" or 1 1/4" hub.



JB1710

**Outside Dim:**

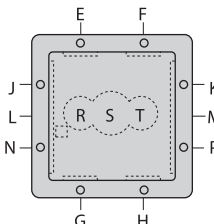
7 5/8" (194) x 6 1/2" (165)  
x 4 7/16" (113) deep

**Inside Dim:**

5 3/16" (132) x 4 1/8" (105)  
x 3 11/16" (94) deep  
(62 cubic inches)



JB1711

**Outside Dim:**

7 5/8" (194) sq. x 4 3/4" (121) deep

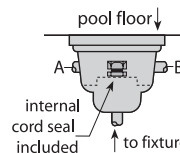
**Inside Dim:**

6" (153) sq. x 4" (102) deep  
(144 cubic inches)

Bottom may have maximum three 1" hubs or two 1 1/4" hubs or one 2" hub.



JB1713

**Outside Dim:**

4 1/2" (115) dia. x 3 5/8" (93) deep

**Inside Dim:**

2 3/4" (71) dia. x 2 1/4" (58) deep  
(10 cubic inches)

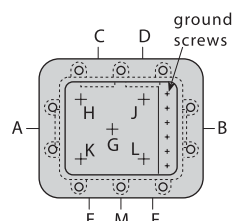


## UNDERWATER ACCESSORIES

### Deck Mounted Junction Box

Specifically designed for deck or in remote wall mountings, this deck Junction Box meets all the requirements of the NEC. It features cast bronze construction, neoprene gasket, one hub at each end, and two hubs on one side. The entire bottom and one side of the box are suitable for drilling. Fasteners are stainless steel.

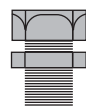
Note: Specify USR Strain Reliefs for the total number of fixtures. USR sold separately.



**JB1719 Outside Dim:**  
 $7\frac{5}{8}"$  (194) x  $6\frac{1}{2}"$  (165)  
 x  $4\frac{7}{16}"$  (113) deep

**Inside Dim:**  
 $5\frac{3}{16}"$  (132) x  $4\frac{1}{8}"$  (105)  
 x  $3\frac{11}{16}"$  (94) deep  
 (62.0 cubic inches)

— A —



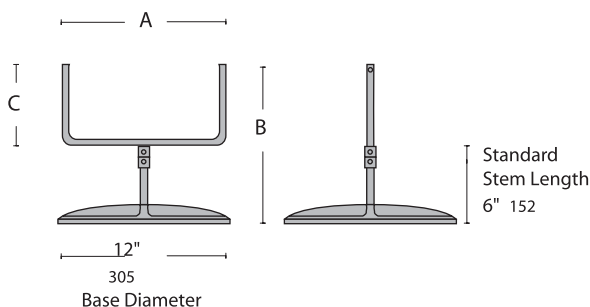
### Cord Seals

Constructed of brass with neoprene grommet, these seals are for use in underwater junction boxes for fixture cord entrance seals.

MODEL	NPT	CORD	A	B
<b>CS14302</b>	1/2	18-3	7/8	1 1/2
<b>CS143022</b>	1/2	16-3* (3 x 1.5)	7/8	1 1/2
<b>CS14304</b>	3/4	18-3	1 1/4	1 3/4
<b>CS14303</b>	3/4	14-3 (2 x 4)	1 1/4	1 3/4
<b>CS143032</b>	3/4	12-3	1 1/4	1 3/4
<b>CS143033</b>	3/4	10-3 (2 x 6)	1 1/4	1 3/4

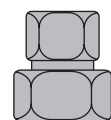
### ALB - Adjustable Locking Base

This fountain lighting accessory base allows for variable fixture height and includes Hydrel's Pre-Focus Aim-Set feature. Multiple riser heights available.



MODEL	A	B	C
<b>ALB15</b>	10 1/2 (267)	12 5/8 (321)	8 5/8 (219)
<b>ALB21</b>	7 7/8 (200)	11 (279)	7 (178)
<b>ALB22</b>	7 11/16 (195)	12 (305)	8 (203)
<b>ALB24</b>	7 11/16 (195)	12 (305)	8 (203)
<b>ALB27</b>	7 11/16 (195)	12 (305)	8 (203)

— A —

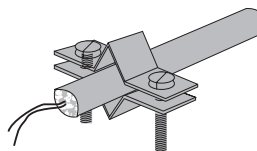


### SR Strain Relief

A threaded cord grip that prevents cord movement from pulling on connections.  
 B Used where J-box is mounted above the floor or deck.

MODEL	C (NPT)	CORD	A	B
<b>SR50</b>	1/2	16-3*	7/8	1 3/8
<b>SR754</b>	3/4	18-3	1 1/4	1 1/2
<b>SR75</b>	3/4	10-3	1 1/4	1 1/2

\* 18-2 / 16-1 cord fits SR50 & CS143022 parts



### USR Strain Relief

Universal Strain Relief (USR) Strain Reliefs, used where J-boxes are mounted flush to floor or deck. Specify for the total number of fixtures so mounted.





## INSTALLATION - SWIMMING POOLS

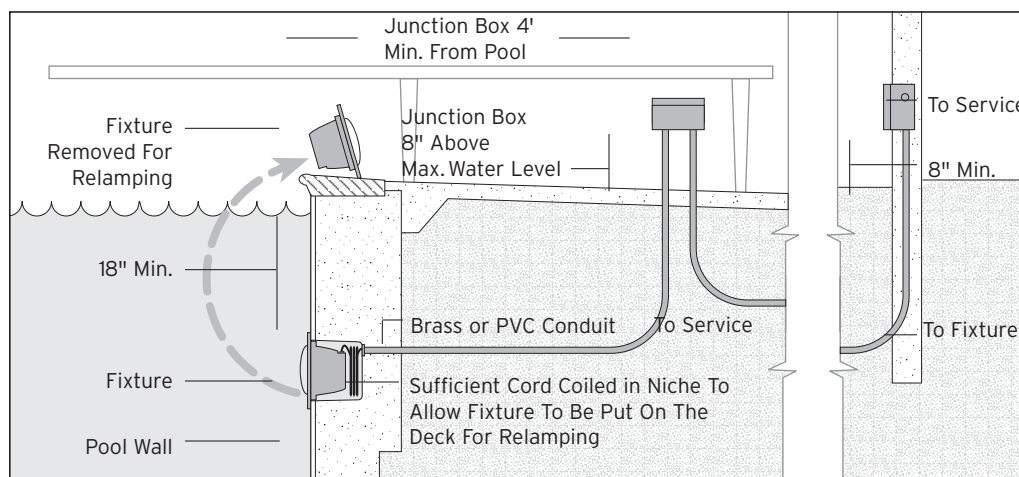
### Wet Niche Fixture & Junction Box Installation

Hydrel fixtures are designed to meet National Electric Code (U.S.A.), Article 680 requirements. The N.E.C. requires that fixtures must be installed so that the top of the fixture is at least 18" below normal water level. The junction box shall be located at least 8" above maximum water level, pool deck, or ground, whichever is greater. The junction box shall be located not

less than 4' from the perimeter of the pool, unless separated from the pool by a fence, wall or other permanent barrier. Junction boxes mounted above grade in the walkway around the pool shall be afforded additional protection by locating them in such places as under a diving board, adjacent to fixed structures, etc. Check local codes to assure compliance.

#### GROUND FAULT CIRCUIT INTERRUPTERS - (GFCI'S)

120 Volt swimming pool and fountain lights are required to be on GFCI circuits. Hydrel recommends a maximum of four lights or 1000 Watts of load per GFCI.



### Recommended Lighting Design

The following information will be useful in determining the lighting requirements for swimming pools.

1. Establish the lamp **wattage and number of fixtures per square feet** required based on the size of the pool and spacing as shown on the chart below.

2. Establish the **approximate fixture wattage** using the following formula:

$$\frac{\text{Pool Area} \times \text{Watts per Sq. Ft}}{\text{Number of Fixtures}} = \text{Watts per Fixture}$$

OUTDOOR* POOL	LAMP WATTS PER SQ. FT.	"W" = MAX. FEET		"D" = DEPTH BELOW WATER
		POOL DEPTH OVER 5 FT.	POOL DEPTH UNDER 5 FT.	
RESIDENTIAL	0.5 TO 1	--	--	18"
COMMERCIAL	1 TO 1.5	16'	18'	18"
COMPETITION	1.5 TO 2**	14'	16'	18"
DIVING POOL	2 TO 3	14'	--	36"

\* For indoor pools increase lighting by 25% (x 1.25)

\*\* Never center lights in racing lanes

3. **Select the fixture** that comes closest to meeting wattage requirements

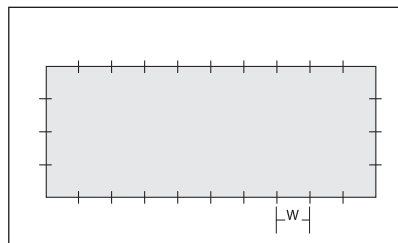
For in-between wattages, use next highest wattage or increase the number of fixtures.

Using low wattage lamps will produce a more even light distribution. Increase lighting requirements when pool walls are other than white.

The recommendations are for standard type pools.

For special applications, consult your Hydrel representative.

FOR WHITE BOTTOM POOLS LAMP WATTS PER SQ. FT	
12 VOLTS - 75 WATTS	120 VOLTS - 250 WATTS
0.15 WATTS / SQ. FT.	0.25 WATTS / SQ. FT.
0.25 WATTS / SQ. FT.	0.50 WATTS / SQ. FT.
0.50 WATTS / SQ. FT.	0.75 WATTS / SQ. FT.



SWIMMING POOL

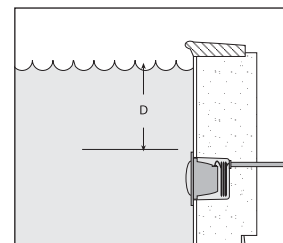


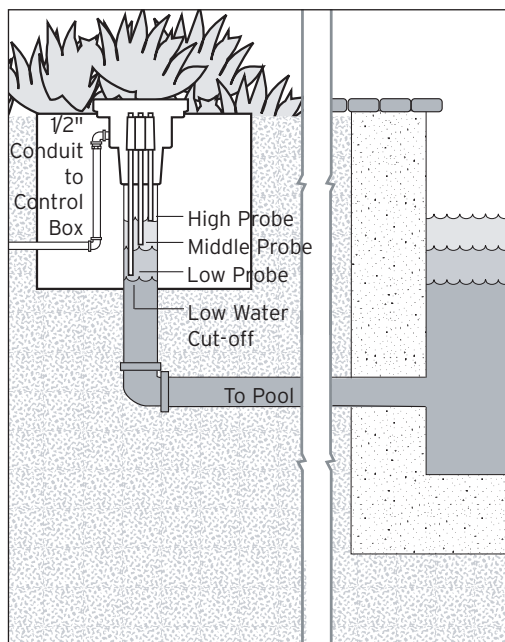
Photo left:

The orchid pool at a renowned Hawaiian hotel is illuminated by 500 Watt underwater lights.

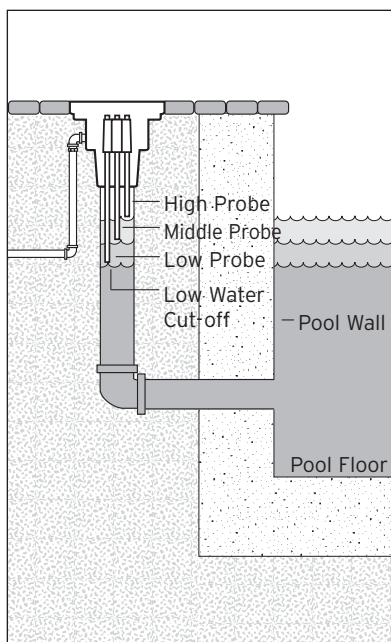
## INSTALLATION - CONTROLS

### ELWC Electronic Level and Low Water Cut-off

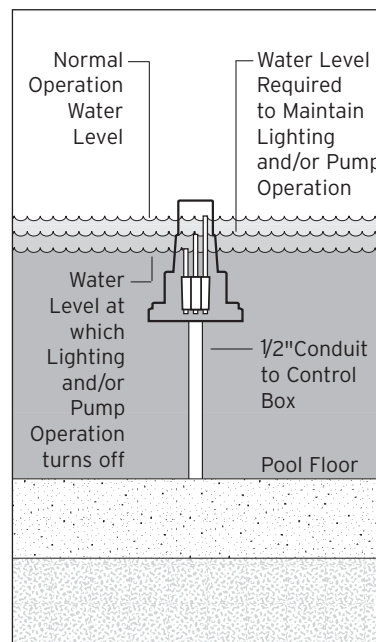
ELWC / Remote Mount



ELWC / Deck Mount



ELWC1 / Conduit Mount



The ELWC and the ELWC1 maintain water level and also protect pump and lighting equipment against overheating should water level drop below the minimum required for cooling.

The units consist of a control box and sensor housing. The ELWC is designed for deck or remote mounting with the sensor housing set in a down position. The ELWC1 is for conduit mounting with the sensor housing set in an up position.

These units are electrically connected to a remotely located control box. The sensor units monitor the pool water level by making the electrically conductive water a part of the control unit. This is accomplished with a series of three stainless steel probes which must be cut to the proper length for the specific pool. The water is maintained between the high and middle probe as the control senses the water position and activates or shuts off the water supply solenoid. The low probe is the cut-off which senses the absence of water and turns off the lighting and pump equipment.

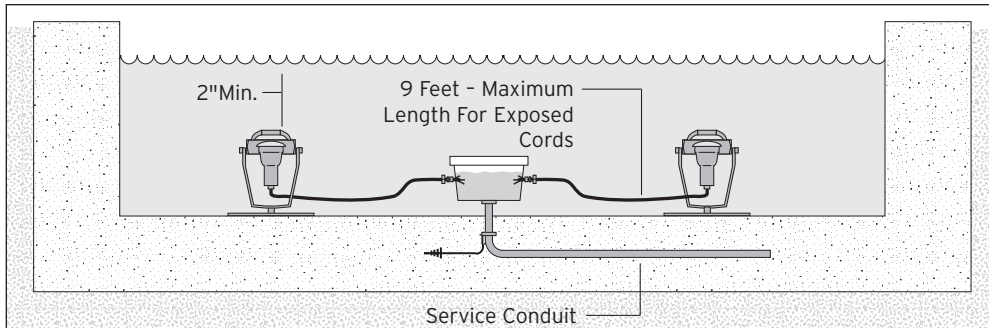


photo copyright © Hydrel

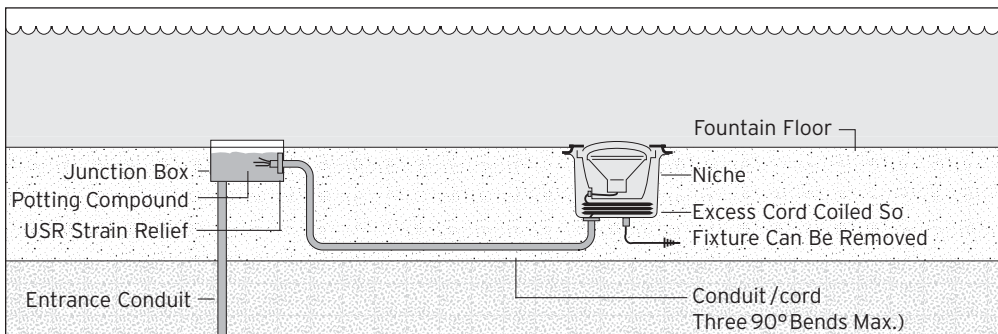


## INSTALLATION - FOUNTAINS

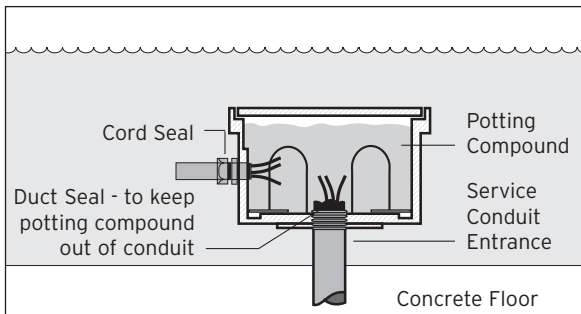
### Junction Box & Fixture Installation / Base or Yoke Mount / Fountains Only



### Junction Box & Fixture Installation / Niche Mount / Fountains Only



### Underwater Junction Box / Installation Detail Base or Yoke Mount Fixtures / Fountains Only

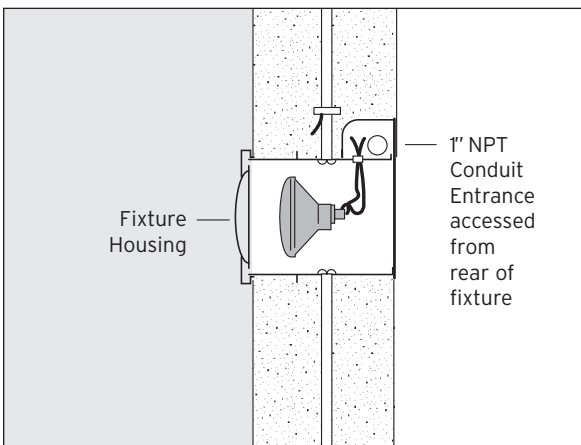


### Junction Box Selection Guide

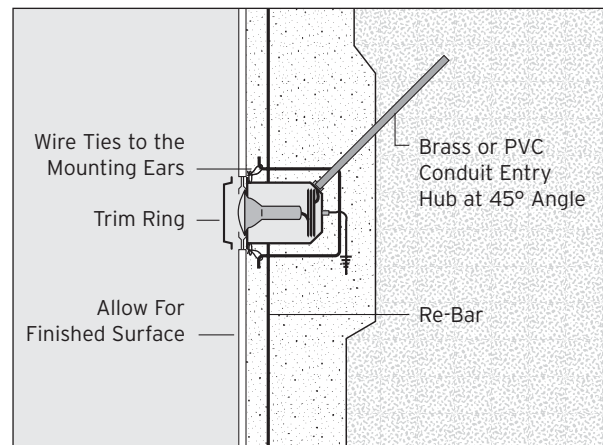
All conductors are to be considered in calculations.

CONDUCTOR SIZE A.W.G.	REQ. SPACE IN BOX FOR EACH CONDUCTOR
18	15 CU. IN.
16	175 CU. IN.
14	2.0 CU. IN.
12	2.25 CU. IN.
10	2.5 CU. IN.
8	3.0 CU. IN.
6	5.0 CU. IN.

### Dry Niche Installation



### 4800 Series / Concrete Niches





## INSTALLATION - FOUNTAINS

### Underwater Lighting Wattage Table

DISTRIBUTION	H/W	HEIGHT OF FOUNTAIN EFFECT									
		5'	10'	15'	20'	25'	30'	35	40'	45'	50'
<b>WIDE FLOOD</b>	<b>1 TO 1</b>	250W	500W	1000W	2000W	3000W					
<b>FLOOD</b>	<b>2 TO 1</b>	150W	300W	500W	900W	1000W	1500W	2000W			
<b>SPOT</b>	<b>Single</b>	150W	150W	250W	300W	500W	600W	1000W	1200W	2000W	2000W

\* H/W is height-to-width ratio of water effect





## APPLICATION

Hydrel's low wattage, low profile fountain pool lights are ideal for lighting miniature pools and fountains.

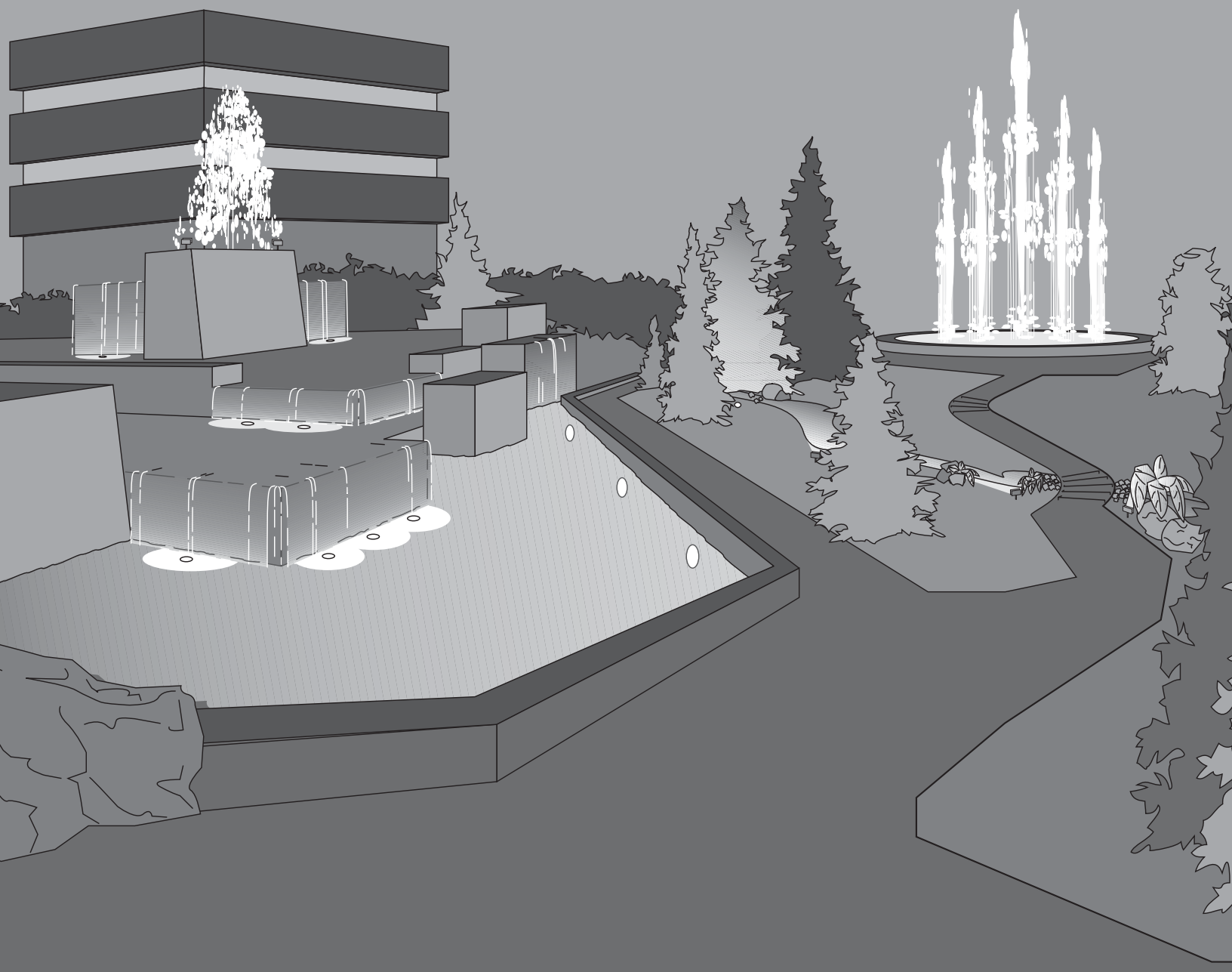
Lighting design for commercial and residential pools are facilitated by Hydrel's extensive line of fixtures. All Hydrel swimming pool lights are built to meet the rigid safety requirements for swimming pool lights and therefore meet or surpass U.L. standards and those of the National Electric Code.

The Hydrel line of Wet/Dry lights also include the WD9000 Series in-grade lights. These fixtures are ideal for illuminating landscape features placed close to swimming pools, fountains or reflection pools.

Hydrel's extensive line of fountain pool lights easily accommodate any water effect installations with features varying from shallow pools to tall fountains.

Lighting effects in and on the edges of streams, ponds, lakes, or waterfalls are made possible by Hydrel's line of Wet/Dry lights. These versatile fixtures can operate totally submerged but, unlike other underwater lights, are not dependent upon water for cooling and therefore can operate when water levels are low.

The high wattage models of Hydrel's line of underwater lights illuminate even the largest fountains with spectacular, dependable lighting.





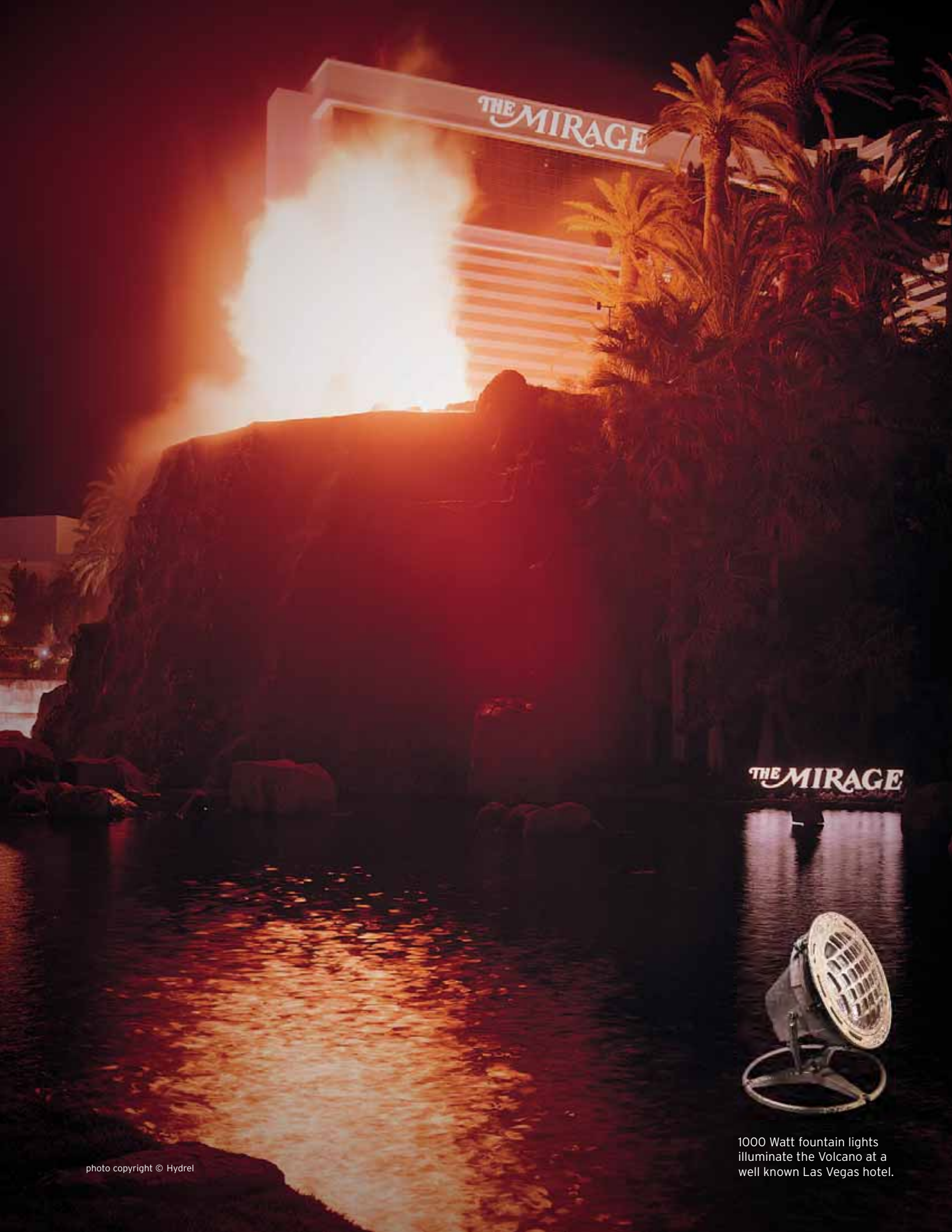


photo copyright © Hydrel


1000 Watt fountain lights  
illuminate the Volcano at a  
well known Las Vegas hotel.



## INDEX

## MODEL PAGE

FOUNTAIN  
BASE/YOKE

Model 4409 LINE & LV	17
Model 4410 LV	15
Model 4411	12
Model 4412 LINE & LV	14
Model 4413	11
Model 4418	13
Model 4421	10
Model 4424 LINE & LV	9
Model 4426 LED 	20
Model 4427	8
Model 4428 HID	7
Model 4800 LINE & LV	16

FOUNTAIN  
NICHE


Model 4413	24
Model 4415 LINE & LV	25
Model 4418	26
Model 4421	23
Model 4424 LINE & LV	22
Model 4800 LINE & LV	27

## MODEL PAGE

FOUNTAIN  
WET/DRY

Model WD4412 LINE & LV	31
Model WD4413 LINE & LV	32
Model WD4415 LV	33
Model WD4418	30
Model WD4846 LV	34
Model WD9000 LINE & LV	38
Model WD9050 LINE & LV	38
Model WD9100	36
Model WD9150	36

## SWIMMING POOL

Model 4421 SWM	46
Model 4425 SWM LINE & LV	47
Model 4426 SWM LED 	48
Model 4427 SWM	45
Model 4428 SWM HID	43
Model 4429 SWM LINE & LV	44
Model 4800 SWM LINE & LV	50

## MODEL PAGE

UNDERWATER  
ACCESSORIES

ALB	55
Colored Lenses	53
Cord Seals 1430	55
ELWC	53
JB1701	54
JB1703	54
JB1705	54
JB1706	54
JB1708	54
JB1710	54
JB1711	54
JB1713	54
JB1719	55
PC	53
SR	55
T1903	53
T1904	53
T1905	53
USR	55

Hydrel reserves the right to change products without notice.

All Hydrel fixtures are U.L.Listed and must be installed in accordance with the N.E.C.



THERE'S  
SOMETHING  
NEW STOPPING  
RISK TAKING  
DREAMING  
GOING ON  
AT THE TAPES



12881 Bradley Avenue, Sylmar, CA 91342  
T 818.362.9465 F 818.362.6548  
Email: [custserv@hydrel.com](mailto:custserv@hydrel.com)  
[www.hydrel.com](http://www.hydrel.com)

An **Acuity** Brands Company