

## Optional Bronze Fountain Lighting Specifications

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This specification is written and intended to provide bidders the necessary information pertaining to the floating aerating fountain(s) or surface aerator (s) for the \_\_\_\_\_ project.

### 1. OPTIONAL LIGHTING INFORMATION

- a. The Optional Lighting Package shall be 12 Volt, Model \_\_\_\_\_ with \_\_\_\_\_ bronze fixtures. Each fixture shall include a 75 Watt MR-16 clear bulb and clear lens. (See Chart 1 below)
- b. Each bronze fixture shall have triple O-ring sealing and automatic reset thermal overload protection.
- c. The lighting package tooled bronze light fixtures approved to UL-676.
- d. The SJTOW underwater rated power cable shall be \_\_\_\_\_ feet 16 gauge, 3 conductor cable. (See Chart 2 below)
- e. The lighting package shall include clear bulbs as well as optional colored bulbs in Yellow, Green, Red, and/or Blue. (circle all that apply)

Chart 1

Model	Number of Fixtures	Wattage
LR275	2	75
LR375	3	75

Chart 2

Length	Gauge (AWG)
50 Feet	16 AWG
100 Feet	16 AWG
150 Feet	16 AWG
200 Feet	16 AWG
250 Feet	16 AWG

## Optional Bronze Fountain Lighting Detailed Specifications

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### 1. OPTIONAL LIGHTING PACKAGES

- 1.1. **Fixtures:** Each lighting fixture shall be machined bronze with built-in automatic reset thermal overload protection, 3 internal O-ring seals, and clear tempered glass windows. Each fixture shall have 6' of STOW 3 conductor wires connected with a Heyco (or approved equivalent) waterproof connector and covered with protective flex sleeving. A thermoplastic mounting bracket shall be attached to each fixture with brass screws and flat washers for mounting to the float. Each fixture shall include Series 300 stainless steel hardware to connect the mounting bracket to the float. When installed, the light fixture lens or window shall be above the water level for greater light penetration.
- 1.2. **Junction Box:** A molded thermoplastic junction box shall connect the 6' STOW cables from each fixture to a single length of SJTOW power cable that travels back to the power source. The junction box shall be sealed and potted for leak protection. Power cords shall be connected with waterproof Heyco (or approved equivalent) connectors. Internally, the junction box shall contain two or three

75W lighting transformers (depending on number of lights). Each lighting transformer shall have built in over temp., overload, and short circuit protection with automatic reset.

- 1.3. **Underwater Power Cable:** The power cable shall be type SJTOW UL, CSA, and NEC approved underwater rated, 3 conductor cable with a molded NEMA 5-15P plug end. The power cable shall have 6' of protective flex sleeving at the junction box for rodent protection. The power cable shall be available in 50', 100', 150', 200', and 250' cord lengths of 16 AWG.

#### 1.4. **Light Package Options**

- 1.4.1. **LR275:** The LR275 consists of two bronze fixtures as described above, each containing clear 75 watt MR-16 Halogen bulbs. To be used as an optional lighting package on the 2400VFX, 3400JF, 3400HJF, 3400VFX, and 3400HVFX aerating fountain models.
- 1.4.2. **LR375:** The LR375 consists of three bronze fixtures as described above, each containing clear 75 watt MR-16 Halogen bulbs. To be used as an optional lighting package on the 4400VFX, 4400HVFX, 8400JF, 3.1JF, and 5.1JF aerating fountain model (multiple sets may be used on larger units).
- 1.4.3. **Optional Colored Bulbs:** Optional colored bulbs are available in 50 watt MR-16 Halogen bulbs in Yellow, Green, Blue, and Red options. Can be used in all light packages.
- 1.4.4. **Optional Brackets:** Optional float brackets are available to add two LR375 light packages to the 8400VFX, 8400JF, 3.1JF, 5.1JF, and 5.1VFX units for a total of 6 light fixtures.

## 2. **SAFETY INFORMATION**

- 2.1. The unit shall be total component tested and approved as a complete assembly. Individual component testing is not allowed. The aerating fountain must be tested by ETL, ETL-C, CE, UL, or other accredited testing facility.
- 2.2. The unit shall be tested as a complete unit and must meet UL (Underwriters Laboratories, Inc.) requirements in compliance with Category 778 for Motor-Operated Water Pumps and compliance with Category 50 for the Electrical Equipment (control panel). Lights must be in compliance with Category 676 Underwater Luminaries and Submersible Junction Box for use on Floating Fountains.

## 3. **WARRANTY INFORMATION**

- 3.1. The unit shall include a 3 year manufacture's repair warranty on all components, including electrical control panel. Unauthorized tampering will void the warranty.

## 4. **ACCEPTABLE MANUFACTURER**

- 4.1. The unit shall be a KASCO L275T, L350T, L350, or L375 Model manufactured by Kasco Marine, Inc., 800 Deere Rd., Prescott, WI U.S.A 54021. 715-262-4488. [www.KascoMarine.com](http://www.KascoMarine.com).

## 5. **INSTALLATION**

- 5.1. **Unit:** The lights shall be installed per instructions included in the Owner's Manual with each unit. The unit may be anchored or moored in place. The unit is designed as a complete package and to be used with the included electrical control panel. Any alterations or substitutions, unless allowed by the instructions in the Owner's Manual will void the ETL Listing, void the manufacturer's warranty, and may cause a dangerous situation. Read the Owner's Manual thoroughly before starting the installation process and follow them carefully.