

# CHLORIDE SYSTEMS

TYPE: \_\_\_\_\_

CATALOG NO.: \_\_\_\_\_

## GENERAL DESCRIPTION

The HZ Series LED combo combines energy-saving LED technology with an assortment of emergency lighting lamp heads and a durable enclosure suitable for hazardous locations. The HZ Series is UL listed for use in Class I, Division 2, Class II, Division 2 Areas and Class III, Division 1 and 2.

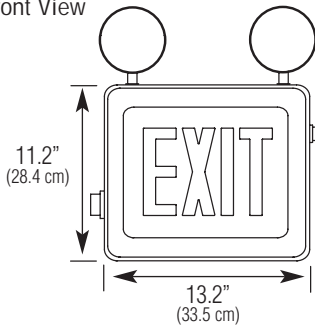
The HZ Series LED Exit offers several levels of protection against the elements including dust, dirt and water. The HZ Series meets the Buy American requirements.

## ILLUMINATION

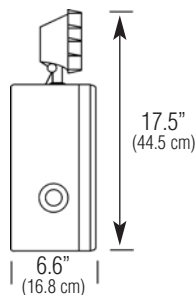
Illumination of the exit stencil face is accomplished with long lasting, high output LEDs, producing an average illumination level in excess of 25 fL (85.7 cd/m<sup>2</sup>) at the end of the 90 minute emergency run time. A variety of optional lamp heads provide design flexibility for egress lighting.

## DIMENSIONS

Front View



Side View



Dimensions are approximate and subject to change.

# HZ Series

## Class I & II, Division 2

## LED Combination Emergency Exit Standard Self-Diagnostics Electronics\*



### HOUSING

Constructed of impact-resistant, fiberglass-reinforced polyester. Housing color is gray with stainless steel hardware and clear polycarbonate cover. The HZ Series is UL listed for Class I, Division 2, Groups A, B, C & D; Class I, Zone 2, Groups IIA, IIB (+ H<sub>2</sub>) & IIC; and Class II, Division 2, Groups F & G. The housing includes a one-piece formed gasket and corrosion-resistant hardware. Standard internal or external mounting feet provide installation flexibility.

### ELECTRONICS

**AC Only** - 120/277 VAC dual voltage input with surge protection is standard on all models.

**Emergency Operation** - Charging system is microprocessor driven with software embedded diagnostic routine and temperature compensation. See specification sheet C1465 for electronics details. 120/277 VAC input, surge protection, brownout, AC lockout and low voltage disconnect features are standard.

### INTELLI-CHARGE SELF-TESTING DIAGNOSTICS (OPTIONAL)

The Intelli-Charge diagnostic/charging platform with self-testing mode automatically runs a one-minute self-test every 30 days and a 30-minute test on the sixth and twelfth month. A one-minute or 90-minute test may be initiated via the push to test switch on the unit or by activating the appropriate test command on the optional IR test device.

### BATTERY

Maintenance free, sealed lead calcium battery  
Minimum 90 minutes of emergency power  
Estimated service life of 5 years  
Operating temperature range of 65°F (19°C) to 85°F (30°C)

\*Self-powered models incorporate the Intelli-Charge diagnostics electronics package. Self-testing is a factory installed option.



SHOWN: HZ636R2ZBIC

### CODE COMPLIANCE

UL 924 and 844 listed  
NFPA 101, NEC, BOCA, OSHA and IBC illumination standards  
Temperature Rating (T-Rating) 160° (T3C)  
Class I, Zone 2 T-Rating 200° (T3)

### ELECTRICAL SPECIFICATIONS

**6 V 18 W Red or Green**  
120 VAC, 60 Hz, 0.133 A, PF = 0.80  
277 VAC, 60 Hz, 0.058 A, PF = 0.80

**6 V 36 W Red or Green**  
120 VAC, 60 Hz, 0.122 A, PF = 0.70  
277 VAC, 60 Hz, 0.053 A, PF = 0.70

**6 V 72 W Red or Green**  
120 VAC, 60 Hz, 0.129 A, PF = 0.80  
277 VAC, 60 Hz, 0.056 A, PF = 0.80

### WARRANTY

Five year full electronics warranty  
One year full plus four year prorated battery warranty

## ORDERING INFORMATION (EXAMPLE: HZ636R2ZBIC)

HZ	6					IC	
<b>SERIES</b>	<b>SYSTEM VOLTAGE</b>	<b>BATTERY/WATTAGE<sup>3</sup></b>	<b>LETTER COLOR</b>	<b>NO. OF LAMP HEADS</b>	<b>LAMP HEAD TYPE</b>	<b>MODEL DESIGNATOR<sup>1</sup></b>	<b>FACTORY INSTALLED OPTIONS<sup>2</sup></b>
HZ = Hazardous Location LED Exit	6 = 6 VDC	18 = 18 W Lead Calcium 36 = 36 W Lead Calcium 72 = 72 W Lead Calcium	R = Red LED G = Green LED	Blank = No Heads 1 = One Lamp Head 2 = Two Lamp Heads	ZA = 8 W Tungsten ZB = 18 W Tungsten ZC = 25 W Tungsten ZY = 6 W Halogen ZI = 8 W Halogen ZJ = 12 W Halogen	IC = Intelli-Charge Diagnostic Electronics	BF = Buzzer/Flasher BZ = Buzzer EX = Special Input Transformer <sup>2</sup> (specify voltage & frequency) FL = Flasher S = Shatterproof Lamp Head Lens T = Self-Testing Diagnostics (non-audible) TA = Audible Self-Testing Diagnostics TD = Time Delay

### ACCESSORIES (order as a separate line item)

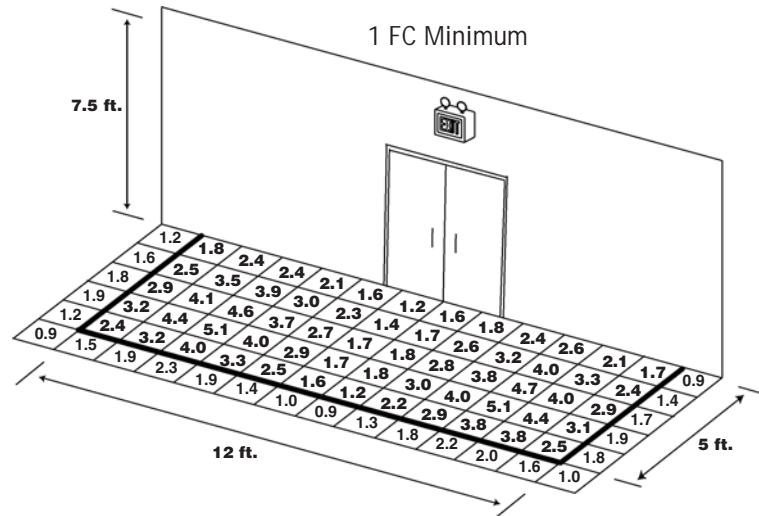
ICIR = Intelli-Charge Infra-Red Remote  
WG5 = Wire Guard

### NOTES:

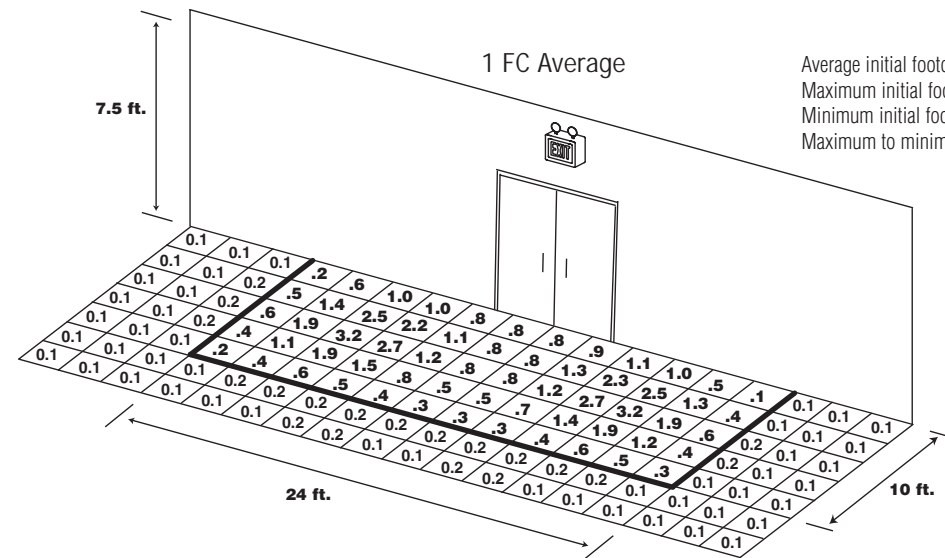
- 1) For self-testing models refer to options.
- 2) Some option combinations may impact UL listing. Consult factory for specifics.
- 3) Battery capacity to support local/remote load.

# Specification Data for HZ Series LED Combination Emergency Exit

**OPTICS\*** (IES formatted files are available on-line)  
 Wall mounted 7.5' AFF, 'ZJ' 6 Volt 12 Watt Halogen Lamps Represented



Average initial footcandles at floor = 2.89  
 Maximum initial footcandles at floor = 5.1  
 Minimum initial footcandles at floor = 1.2  
 Maximum to minimum ratio = 4.25



Average initial footcandles at floor = 1.05  
 Maximum initial footcandles at floor = 3.3  
 Minimum initial footcandles at floor = 0.1  
 Maximum to minimum ratio = 33.00

\* The optics layout shown is intended to be used as reference only. Standard reflectances used were 80/50/20. Chloride is not responsible for site specific conditions that may alter the results.

## SUGGESTED SPECIFICATION

Furnish and install Chloride's LED combination emergency exit sign model \_\_\_\_\_. The combination emergency exit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924 and UL standard 844, and the National Electrical Code (NEC).

**INSTALLATION AND OPERATION** - Exit shall be easily field connected to a 120 or 277 VAC, 60 hertz, unswitched power source. Installation must comply with the NEC as well as other applicable codes. Upon utility power failure or brownout, the unit shall automatically transfer to battery power and maintain the required illumination level for a minimum period of 90 minutes. Upon restoration of utility power, the charger shall restore the battery to full charge within UL 924 requirements following a rated discharge of not more than 90 minutes.

**ELECTRONICS Self-Powered Models** - All self-powered models shall be provided with Chloride's Intelli-Charge diagnostics electronics platform. The exit sign shall be easily field connected to 120 or 277 VAC, 60 Hz un-switched power source. Intelli-Charge will detect and notify the installer regarding incorrect wiring of the transformer primary and restrict the damaging effects from affecting the printed circuit board. The Intelli-Charge electronics package shall provide continuous, real-time monitoring of all the critical equipment functions including, but not limited to: line voltage status and condition, charger fault, transfer fault, battery fault, and LED load fault and notify personnel with a visual indicator sequence. Optional audible diagnostics as well as self-testing diagnostics shall be available from the factory. The self-testing option shall satisfy the periodic testing requirements in NFPA 101, Life Safety Code as well as the International Building Code (IBC). The Intelli-Charge circuit shall continuously sample ambient temperature conditions and adjust the charging regime to compensate for typical and dramatic ambient conditions to maximize the life of the battery. An on-board IR receiver shall be standard and pre-programmed to operate from an optional IR user interface device (available as an accessory item).

**BATTERY** - The battery shall be a maintenance free, sealed lead calcium battery and shall provide trouble-free operation in temperatures up to 85°F (30°C). Lead calcium batteries shall be supplied with a one year full warranty.

**ILLUMINATION** - The HZ Series LED combination emergency exit signs shall incorporate high intensity LEDs. The LEDs shall be designed so that the unlikely failure of one LED will not affect the integrity of the total sign in the emergency mode. Average legend illumination shall be equal to or greater than 25 ft (85.7 cd/m<sup>2</sup>) at the end of the 90 minute emergency run time.

**ENCLOSURE** - The exit housing shall be impact-resistant, fiberglass-reinforced polyester gray enclosure that is UL listed for Class I, Division 2, Groups A, B, C & D; Class I, Zone 2, Groups IIA, IIB (+ H) & IIC; and Class II, Division 2, Groups F & G, Class III, Division 1 and 2 hazardous location areas. The housing shall include a one-piece formed gasket and corrosion-resistant hardware.



**CHLORIDE**  
 SYSTEMS

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