

# HDZ COMBO (HDZC)



Job Location: \_\_\_\_\_  
Contractor: \_\_\_\_\_  
Prepared By: \_\_\_\_\_

Job Type: \_\_\_\_\_  
Date: \_\_\_\_\_



## internal

The **HDZ COMBO** (HDZ-C) features a sealed valve regulated lead acid battery that provides a minimum emergency duration of 90 minutes. Standard features include low voltage disconnect, AC lockout and brownout protection.

## external

The **HDZ-C** housings are constructed from heavy-duty corrosion resistant, copper-free cast aluminum. The exit sign is constructed with a 20 gauge steel frame and facepanel(s). Internal test switch and monitor LED are standard.

## hazardous code chart

Location	Class Code	T Code
Class I, Division 1, Group B	C1D1GB	T4A, T6
Class I, Division 1, Group C & D	C1D1GCD	T4A, T6
Class I, Division 2, Group A, B, C & D	C1D2GABCD	T1, T4, T4A, T6
Class II, Division 1, Group E, F & G	C2D1GEFG	T1, T4, T4A, T6
Class II, Division 2, Group E, F & G	C2D2GEFG	T1, T4, T4A, T6
Class III, Division 1 & 2	C3D12	T1, T4, T4A, T6

**NOTE:** Dimensions will vary depending on configuration & rating classification. Contact factory for details.

## ordering logic

**EXAMPLE:** HDZC 1260C1D1GB 1XF14WLED1EX AT

Series	Operation (VDC)	Pb-A (Capacity)	Ni-Cd (Capacity)	Hazardous Code <sup>1</sup>	Emergency Heads	# of Lamps	Lamps	Exit	Options
HDZC	12	36 (12V)	42 (12V)	See	1XF (one head)	1 (single lamp)	See lamp	1EX (single face)	AT (autotest)
	24	60 (12V)	90 (12V)	hazardous code chart above.		2 <sup>2</sup> (double lamp)	selection guide on next page.	2EX (double face)	NC <sup>3</sup> (nickel-cadmium battery)
		120 (12V)	130 (12V)						TD <sup>4</sup> (time delay)
			100 (24V)						TRN <sup>5</sup> (transfer panel)
									WG (wireguard)

**NOTE 1:** Must be specified by Class, Division and Group category as per the applicable code(s) and standard(s).

**NOTE 2:** LED is available in single lamp only.

**NOTE 3:** Must select NC from options and indicate wattage/voltage from Ni-Cd column.

**NOTE 4:** Specify when ordering; 5, 10, 15 min. 10 min standard.

**NOTE 5:** Comes standard in HDZ combo units and provides 4W to the exit (see next page for details).

## ■ emergency heads

The **HDZC** can be configured with one of two fully adjustable lamps. LED or halogen lamps are available.

## ■ electrical

**BATTERY:** The **HDZC** series is designed with a maintenance free, sealed valve regulated lead acid battery that provides a minimum emergency duration of 90 minutes (for the listed rating). Recharge time of the battery is forty-eight [48] hours. The operating temperature is from 50°F up to 104°F (10°C up to 40°C).

**CIRCUIT:** The **HDZC** series utilizes a high-efficiency two stage charger providing a fully automatic constant charging current with low voltage disconnect protection. All components used in the circuitry are temperature compensated. The charger also has brownout and short circuit protection. Charger status is easily determined via a dual diagnostic, internal LED display which indicates AC/ON and High Charge. An internal dust tight push button test switch allows maintenance personnel to quickly determine the operational status of the unit and lamp load.

## ■ mechanical

The **HDZC** series housing is constructed from corrosion resistant, copper-free, die-cast aluminum. A threaded screw-on cover allows for trouble-free installation and reduced maintenance time. The HDZ-C features a one-way stainless steel breather to provide safe and effective unit ventilation. External mounting feet provide simple and secure installation. Exact dimensions will vary depending on the unit configuration and rating classification. The unit is designed for surface mount on wall of ceiling.

## ■ autotest

The Beghelli Autotest system automatically performs one (5) minute discharge test monthly and two (90) minute discharge tests every 6 months, 24 hours apart. This tests both full battery and recharge capability as required by code. Information is communicated simply and intuitively to maintenance personnel via a single multi-color LED.

- Red: Battery or Circuit Malfunction
- Yellow: Lamp Malfunctioning
- Green: Normal Operation

## ■ lamp selection

	12V	24V
Halogen (H)	12, 20W	N/A
LED	4W	4W

## ■ model rating guide

Model	Voltage	Wattage			
		90min	120min	180min	240min
HDZC	12	36	27	18	14
HDZC	12	42	32	21	16
HDZC	12	60	45	30	22
HDZC	12	90	68	45	34
HDZC	12	120	90	60	45
HDZC	12	130	98	65	49
HDZC	24	100	75	50	38

**NOTE [1]:** Not available for all Class and Division ratings. Contact factory for details.

## ■ temperature codes

Temperature Codes Class I, Div. 1		
LAMP	4W LED	20W Halogen
T Code	T6	T4A
Temperature Codes Class I, Div. 2		
LAMP	4W LED	20W Halogen
T Code	T4A	T1

## ■ transfer panel

Hazardous exit signs are supplied with one DC lamp only. This lamp will be illuminated only on DC power. If you require your exit to be illuminated under both AC and DC conditions, you will require a transfer panel. Transfer panel is standard when ordering a as a combo. See chart below:

Series	AC	DC	Wattage	Enclosure
TRN	120V	24V	25W	Internal

## ■ warranty

The **HDZC** comes with a 3-year factory warranty. Lamps are not covered under the warranty. Deliberate damage, misuse, improper installation effectively cancel the warranty.