

Job/Location: _____	Job Type: _____
Contractor: _____	Date: _____
Prepared By: _____	



### ■ specifications: internal

The **HDZ COMBO** 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.

### ■ specifications: external

The **HDZ COMBO** housings are constructed from corrosion resistant, copper-free cast aluminum. The quick access thread on cover allows for trouble-free installation and reduces general maintenance time. A one-way stainless breather provides proper and effective unit ventilation. Internal test switch and monitor LED are standard.

### ■ hazardous code chart

Location	Code / Designation
Class I, Division 1, Group B	C1D1GB
Class I, Division 1, Group B, C & D	C1D1GBCD
Class I, Division 1, Group C & D	C1D1GCD
Class I, Division 2, Group B, C & D	C1D2GBCD
Class I, Division 2, Group C & D	C1D2GCD
Class II, Division 1, Group E, F & G	C2D1GEFG
Class II, Division 2, Group E, F & G	C2D2GEFG
Class II, Division 2, Group G	C2D2GG
Class III, Division 1 & 2	C3D12

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

### ■ ordering logic

Series	Operation	Pb-A (Capacity)	Ni-Cd (Capacity)	Hazardous <sup>1</sup> Code	Emergency Heads	# of Lamps	Lamps	Exit	Options
HDZ-C	12VDC	36 (12V)	42 (12V)	See hazardous code chart	1XF (single head)	1 (single)	See lamp selection on next page	1EX (single face)	AT (autotest)
	24VDC	60 (12V)	90 (12V)					2EX (double face)	NC <sup>3</sup> (nickel-cadmium battery)
		120 (12V)	130 (12V)	above				TD <sup>4</sup> (time delay)	
		140 (12V)	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).

EXAMPLE: HDZ-C-1260-C1D1GB-1XF-120W-1EX

DESCRIPTION: HDZ combo, 12VDC, 60W, Class 1, Division 1, Group B, single head emergency, 1x20W halogen, single face exit, transfer panel.

## ■ emergency heads

The **HDZ COMBO** 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.

## ■ specifications: electrical

**BATTERY:** The **HDZ COMBO** 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 **HDZ COMBO** 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.

## ■ specifications: mechanical

The **HDZ COMBO** series housing is constructed from corrosion resistant, copper-free aluminum. Featuring a threaded cover that allows for trouble free installation and reduced maintenance time. External mounting feet provide simple and secure installation. Exact dimensions will vary depending on the unit configuration and rating classification.

## ■ 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

## ■ 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 as a combo. See chart below:

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

## ■ lamp selection

	12V	24V
Halogen (H)	8W, 12W, 20W	8W, 12W, 20W
LED	4W	4W

## ■ model rating guide

Model	Voltage	Wattage			
		90min	120min	180min	240min
HDZ-C	12	36	27	18	14
HDZ-C	12	42	32	21	16
HDZ-C	12	60	45	30	22
HDZ-C	12	90	68	45	34
HDZ-C	12	120	90	60	45
HDZ-C	12	130	98	65	49
HDZ-C	12	140	105	70	53
HDZ-C	24	100	75	50	38

[1]NOTE: 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

## ■ warranty

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