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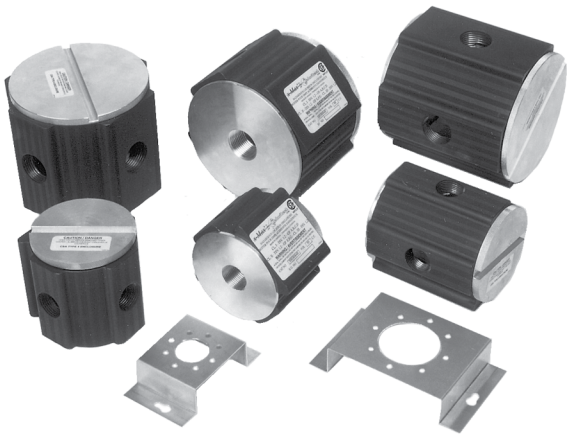
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Find the *Caloritech XH2B2 and MXIK309F3X83* at our website: *Click HERE*

# Explosion-Proof Housings - XH

## Application

Caloritech™ type XH explosion-proof terminal housings (patented) feature the unique ***x-Max***® "Track and Trolley" system. Five standard diameters, offered in lengths up to 48" (1220 mm), can cover most of your explosion-proof housing requirements.



No longer is it necessary to remove dozens of bolts to gain access to housing components for installation, adjustment or servicing.

With longer Type XH housings, components are mounted to the trolley. To service, simply unscrew the end cover and slide the trolley out of the housing.

## Features

- patented under U.S. Pat. No. 5,798,910 and Canadian patent 2,212,500
- light weight, copper-free aluminum construction throughout
- four conduit openings provided as standard
- suitable for Class I Groups A, B, C, D, Class II Groups E, F, G and Class III hazardous locations, Divisions 1 & 2 Class I, Zone 1 & 2, Groups IIA, IIB & IIC
- equipped with neoprene gaskets for Type 4 moisture resistance
- horizontal or vertical mounting

## The Track and Trolley System

Caloritech's **"Track and Trolley"** wiring system allows the user to mount all electrical components to an aluminum **"Trolley"**, make all wiring connections outside of the enclosure, and simply slide the **"Trolley"** along the extruded **"Track"**. Two "Trolley" styles are available as options.

## Construction

The ***x-Max***® terminal housing features copper-free (less than 0.4 of 1% by weight) aluminum construction throughout. Four conduit openings are provided on standard models, allowing the single Model XH to act not only as a standard X-, T-, C-, or B - style junction box, but as virtually any combination of standard styles.




**XH1** Front Side

The standard ***x-Max***® housing is available in five cross sectional sizes with approximate inside diameters from 2 3/4" to 5" (70 mm to 127 mm).

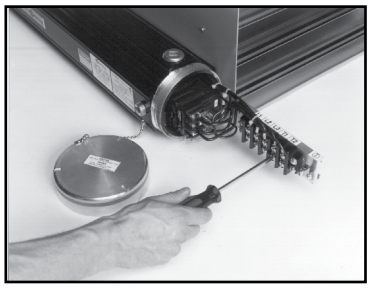
The ***x-Max***® system is offered in a variety of lengths from 2 1/2" to 48" (64 mm to 1220 mm). Various ***x-Max***® products are available that make combining multiple housings an extremely simple process.



**XH1** Clear Anodized Finish

## Compliances

- NEC/CEC
  - Class I Division 1 & 2 Groups A, B, C, D
  - Class II Division 1 & 2 Groups E, F, G
  - Class III Division 1 & 2
- Class I, Zone 1 & 2, Groups IIA, IIB & IIC
- CSA Standard C22.2 No. 30
- CSA Standard C22.2 No. 25



XH


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## Typical Uses

***x-Max*® As A Terminal Enclosure ...**



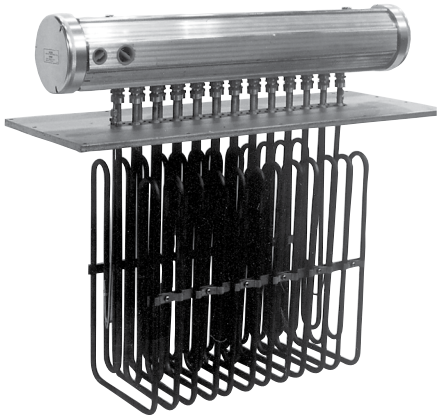
**CX** Explosion-Proof Immersion Heater

***x-Max*® As A Control Station ...**



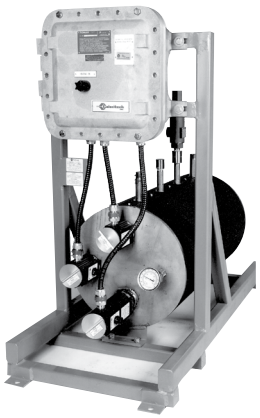

**XS** Explosion-Proof Control Station

***x-Max*® As A Junction Box ...**



**XW** Explosion-Proof Duct Heater

***x-Max*® For Custom Engineered Products ...**



**XHWB** Explosion-Proof Domestic Water Heater

## Installation

A mounting bracket suitable for vertical or horizontal mounting is available. Figure 1 illustrates the universal mounting bracket.

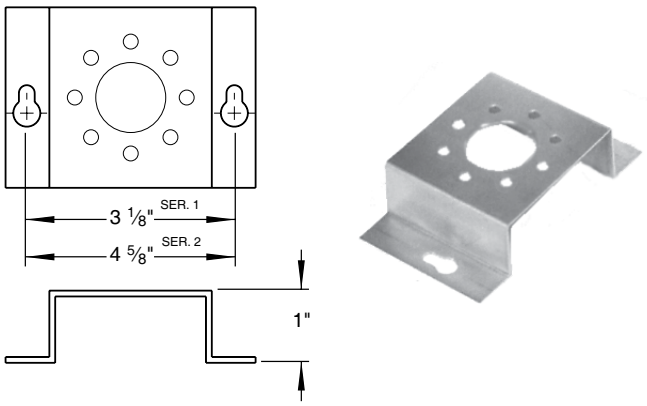



Figure 1 -The ***x-Max***® universal mounting bracket

A grounding screw threaded into the inside of the bottom cover is provided.

## Options

The construction of type XH housings is such that it can be tailored to suit almost any hazardous area or moisture resistant requirement. Consult factory for special orders.

**Some Options Include:**

- Choice of cover styles:
  - "Inside" (standard, with external threads)
  - "Outside" (with internal threads)
  - "Bolt-On hazardous"
  - "Bolt-On non-hazardous"
  - "Inside" with glass window

All cover styles can be provided with a neoprene O-ring gasket to effect a watertight seal. "Outside" and "Inside" covers are knurled for ease of hand-tightening.

Standard housings (Table 1) have "Inside" covers with a conduit entry provided through the bottom cover. Combinations of different cover styles on a single box are available.

- Choice of finish options:
  - black enamel finish
  - non-anodized natural finish
  - clear anodized finish (standard)
  - black anodized finish

Covers are provided with a non-anodized natural aluminum finish as standard.



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Table 1 lists the most popular ***x-Max***® housings normally held in stock. CCI Thermal can manufacture box lengths up to 48" (1220 mm).

Optional mounting bracket is shown on page F7. For special orders, consult factory.

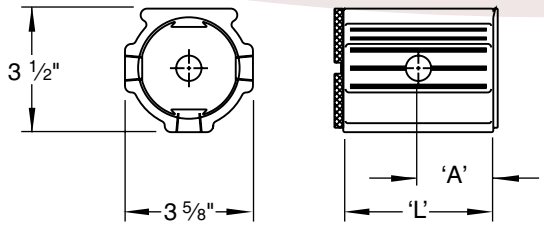



Figure 2 - **XH** Series 1 enclosures

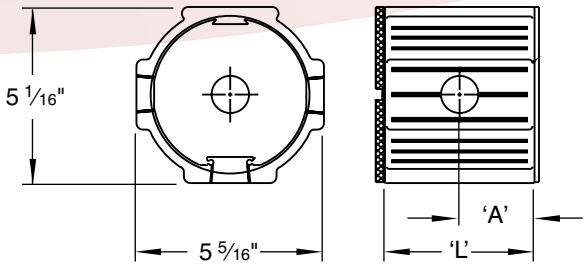



Figure 3 - **XH** Series 2 enclosures

**TABLE 1 - Standard Type XH Terminal Enclosures**

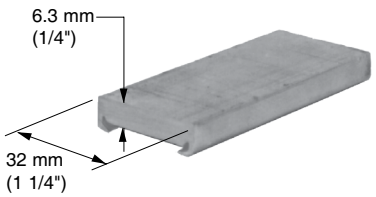
| Box Length 'L' | | Figure No. | Hole Sizes | Hole Location 'A' | | Internal Volume | | Catalog | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|
| in | mm | | (NPT) | in | mm | in³ | cm³ | Number | lbs | kg |
| 2.50 | 64 | 2 | 1/2" | 1.250 | 32 | 5.3 | 87 | XH1B1 | 1.7 | 0.8 |
| 3.25 | 83 | 2 | 3/4" | 1.625 | 41 | 9.5 | 155 | XH1B2 | 2.0 | 0.9 |
| 4.00 | 102 | 2 | 3/4" | 2.000 | 51 | 13.5 | 222 | XH1B3 | 2.3 | 1.1 |
| 3.50 | 89 | 3 | 1" | 1.750 | 44 | 27.8 | 455 | XH2B1 | 3.0 | 1.4 |
| 4.25 | 108 | 3 | 1" | 2.125 | 54 | 38.4 | 630 | XH2B2 | 3.5 | 1.6 |
| 5.0 | 127 | 3 | 1" | 2.500 | 64 | 49.1 | 805 | XH2B3 | 4.0 | 1.8 |

## Special Accessories

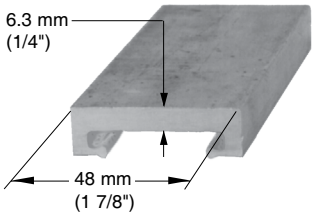
Special ***x-Max***® accessories are available if required for a specific application. These items include:

- mounting bracket (see page F7)
- dry-seal plugs
- lengths of "Trolley" used for installing components
- housing to housing couplings (consult factory)
- sight glasses

Consult Table 2 and Table 3 for catalog numbers.




Small Trolley




Large Trolley

**TABLE 2 - *x-Max***® **Trolley Sections**

| Description | Length in | Length mm | Catalog Number |
|---|---|---|---|
| Small Trolley (for Ser. 1 or Ser. 2) | 6 | 152 | XHT1152 |
| | 12 | 305 | XHT1305 |
| | 18 | 457 | XHT1457 |
| | 24 | 610 | XHT1610 |
| | 30 | 762 | XHT1762 |
| | 36 | 914 | XHT1914 |
| Large Trolley (Ser. 2 only) | 6 | 152 | XHT2152 |
| | 12 | 305 | XHT2305 |
| | 18 | 457 | XHT2457 |
| | 24 | 610 | XHT2610 |
| | 30 | 762 | XHT2762 |
| | 36 | 914 | XHT2914 |



Dry Seal Plugs



Sight Glass

**TABLE 3 - *x-Max***® **Dry-Seal Plugs**

| Thread Size | Catalog Number |
|---|---|
| 3/8" NPT | XHP037 |
| 1/2" NPT | XHP050 |
| 3/4" NPT | XHP075 |
| 1" NPT | XHP100 |
| 1 1/4" NPT | XHP125 |
| 1 1/2" NPT | XHP150 |

## To Order Specify

Quantity, catalog number and special accessories.



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