



### Air Conditioners:

Guardian  
Guardian 480

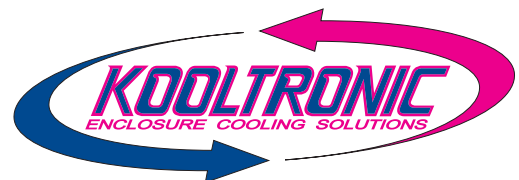
» Hazardous Location

Intrepid  
Mini  
Rack Mount  
SlimKool  
Top Mount  
Water-Cooled



### *Hazardous Location Series*

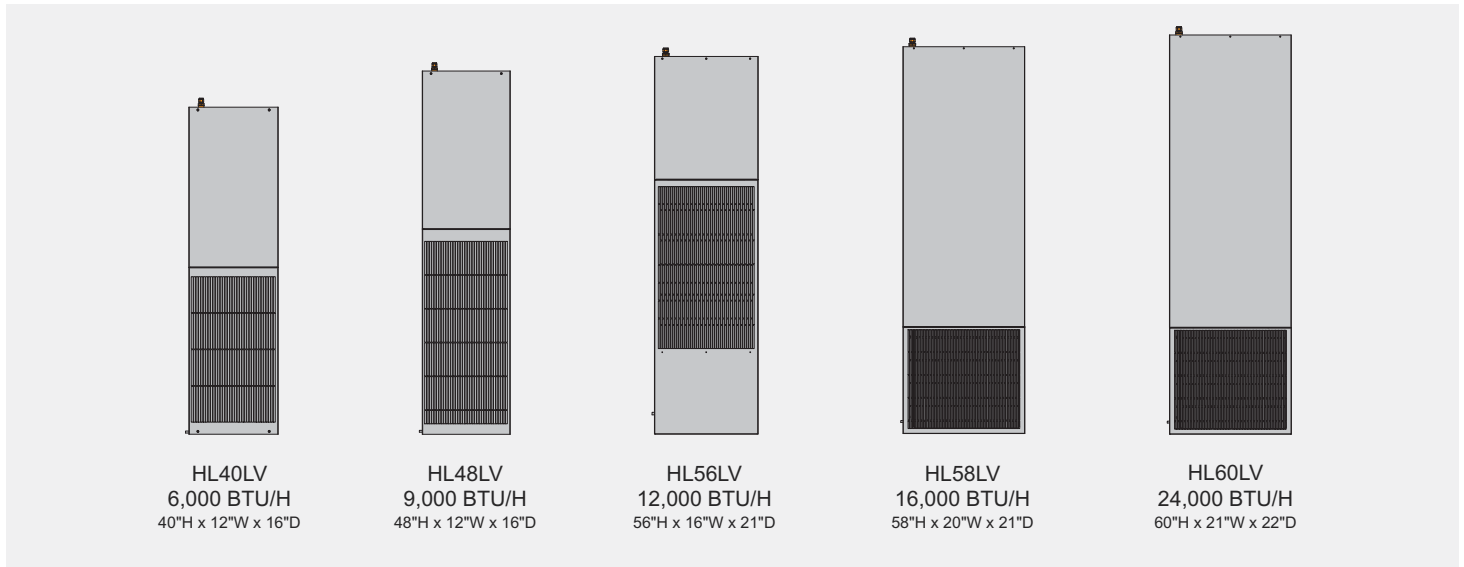
**Class I, Division 1 & 2; Class I, Zone 1 & 2  
NEMA 12, 3R & 4/4X Rated  
Enclosure Air Conditioners**



# **Hazardous Location Series**

## **Class I, Division 1 & 2; Class I, Zone 1 & 2**

### **NEMA 12, 3R & 4/4X Rated Air Conditioners**



Many popular units are available as 3D solid models for customer system integration. Please contact Kooltronic for details.

**NEMA**  
TYPE 12, 3R & 4/4X  
MAINTAINED



**U.S. PATENT NO. 9,157,670 B2**

## **STANDARD FEATURES AND BENEFITS**

- All electrical components are located in a sealed, pressurized compartment, an unsurpassed safety feature.
- All models UL/CUL Listed and Recognized.
- CFC-Free refrigerant provides a zero ozone depletion potential.
- Closed-loop cooling provides stable temperature control while excluding dust and humidity from the electrical enclosure.
- Compressor short cycle protector extends compressor life.
- Programmable temperature alarm to alert if early action required.
- Programmable thermostat capable of remote monitoring and control.
- Internal corrosion protection to increase reliability in hostile environments.
- NEMA 12, 3R & 4/4X ratings for compatibility with electrical enclosure ratings.
- Stainless steel shell for NEMA 4X corrosive environments.
- Both evaporator and condenser coils are epoxy coated, prolonging unit life.
- Type X and Z purge fittings for simple connection to enclosure purge system.

## **OPTIONAL FEATURES AND BENEFITS\***

- Enclosure heater eliminates damaging condensation, increasing reliability of electrical enclosure components.
- Lead-lag control for two air conditioners provides for capacity control, and alternates usage, increasing reliability.
- Remote monitoring provides temperature data for warning of early action required.
- Remote thermostat relay for control by a user-supplied control system.

\* Contact Kooltronic for more information.

# Kooltronic Offers NEMA Rated Solutions Engineered for Challenging Environments

## KOOLTRONIC PATENTS HAZARDOUS LOCATION PRODUCT LINE

Kooltronic, Inc. is proud to announce that its **Hazardous Location (HL) Series** line of air conditioners has been granted a patent by the U.S. Patent & Trademark Office (U.S. Patent No. 9,157,670 B2). All electrical components are located in a sealed, pressurized compartment, representing a major advance in safety and reliability. This design utilizes the electrical enclosure's existing purge system, and allows for general purpose components to be used, reducing both initial and service costs. The characteristics of these units are:



- All models UL Listed per UL 484, Special Purpose Air Conditioners.
- All models UL Recognized per NFPA 496: 2013, Purged and Pressurized Enclosures for Electrical Equipment.
- Meets NEC Class I, Division 1, Groups A, B, C & D and Class I, Zone 1, Groups IIA, IIB plus hydrogen and IIC Hazardous Locations when used with an approved Type X Purge System on the electrical enclosure.
- Meets NEC Class I, Division 2, Groups A, B, C & D and Class I, Zone 2, Groups IIA, IIB plus hydrogen and IIC Hazardous Locations when used with an approved Type Z Purge System on the electrical enclosure.
- All models are designed to withstand shock and vibration in two different planes for a minimum of 4 hours per plane at 1G acceleration.
- Temperature Classification is T-4, 275°F/135°C.
- Maintains NEMA Type 12, 3R & 4/4X Ratings per UL50, Cabinets and Boxes.

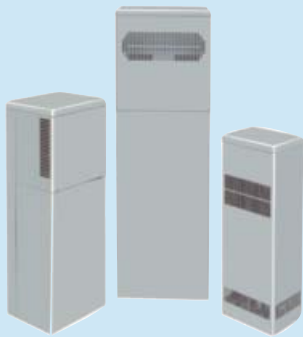
The **Hazardous Location Series** offers capacities up to 24,000 BTU/H in single and 3-phase power. Many features, such as a programmable thermostat, compressor short cycle protector and Hi/Lo temperature alarm are standard. These units are offered at a lower cost and are easily maintained when compared to traditionally designed hazardous location units.

Typical applications include oil refineries, paint and varnish manufacturing plants, petrochemical sites and hazardous materials storage facilities. These stainless steel units are used where hazardous gases may be present and are also suitable for corrosive environments.



[kooltronic.com](http://kooltronic.com)

**KOOLTRONIC CARRIES A FULL LINE OF AIR CONDITIONERS, HEAT EXCHANGERS, FANS, BLOWERS AND ENCLOSURE ACCESSORIES**



**NEMA 12 & 3R  
Heat Exchangers**



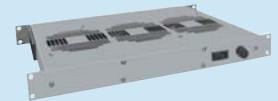
**NEMA 4 or 4X Air Conditioners  
(480 Volt models available)**



**NEMA 12 Filter  
Fans**



**NEMA 4 or 4X  
Filter Fans**



**Fantrays**



**Basic Blowers  
and  
Packaged Blowers**

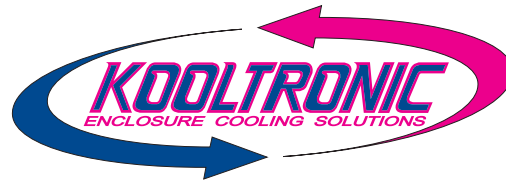


**Custom Design**



**Enclosure Accessories**

In the 60th year of service to its customers, Kooltronic is the leading manufacturer of air conditioners, heat exchangers, fans and blowers designed specifically to cool the interiors of enclosures containing heat sensitive components. We operate a complete manufacturing facility and sales office at our headquarters in Pennington, NJ.



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