

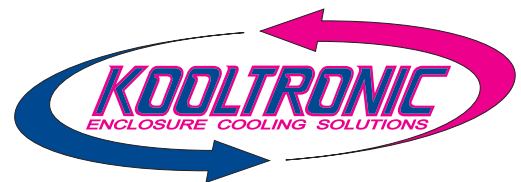


### Air Conditioners:

- Advantage
- » Guardian
- Guardian 480
- Intrepid
- Mini
- Profile
- Profile 480
- Rack Mount
- Top Mount
- Traditional
- TrimLine
- Water-Cooled

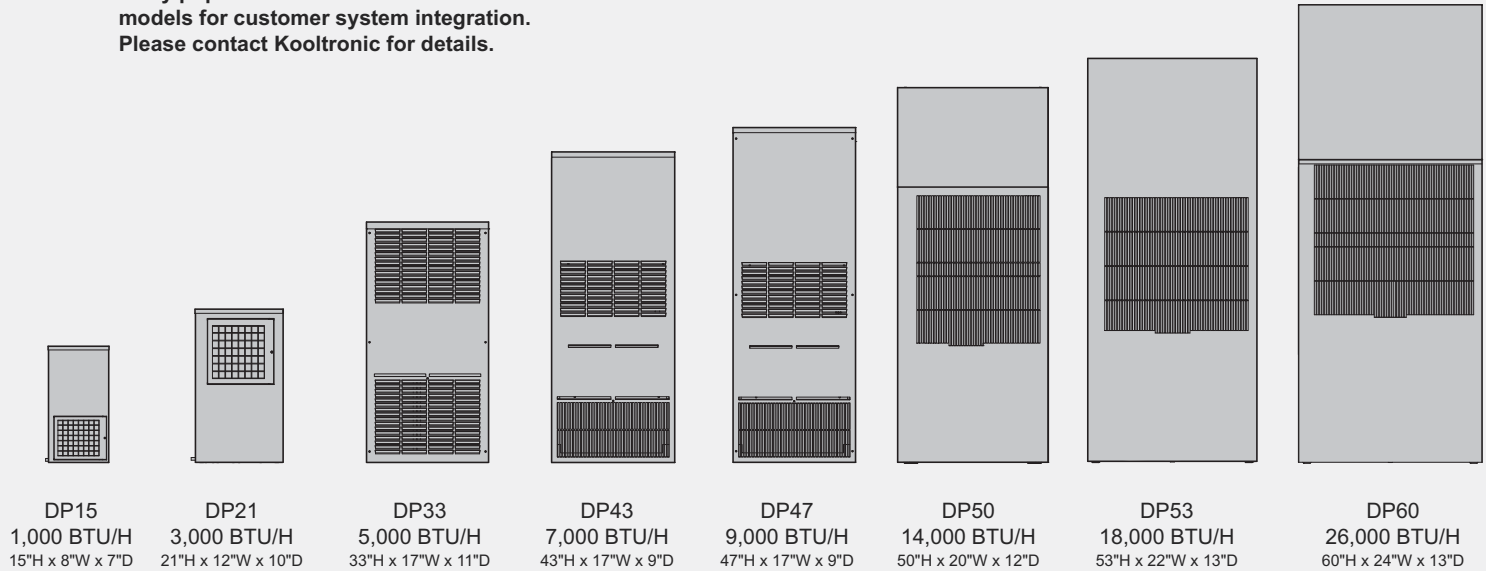


## **Guardian/GuardianX Series** **NEMA 4 or 4X Rated Air Conditioners**



# Guardian/GuardianX Series NEMA 4 or 4X Air Conditioners

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



## KEY FEATURES AND BENEFITS

### CLOSED-LOOP COOLING

Enclosure airflow is isolated from ambient air, which cannot invade sensitive electronic components in the enclosure.

### EPOXY-COATED CONDENSER COILS

Preserves heat transfer, surface efficiency and appearance.

### GALVANIZED & PAINTED SHEET METAL

Will withstand 1000 hours of salt spray per the ASTM B117 test method. This allows units to be used in corrosive environments.

### THERMOSTATICALLY CONTROLLED

Prevents over-cooling and provides energy-efficient operation.

### NEMA TYPE 4 or 4X RATING MAINTAINED

An excellent choice for outdoor and washdown environments such as the food service industry (NEMA 4) and waste water treatment (NEMA 4X).

### SIX FOOT [1.8m] (MINIMUM) 3-WIRE CORD

UL/CUL Listed.

### FULL LINE OF OPTIONS AVAILABLE

A complete line of accessory items simplifies modifications to meet individual requirements.

# Kooltronic Offers NEMA Rated Solutions Engineered for Challenging Environments



## WASTE WATER TREATMENT

Waste water treatment is one of the many industries that benefit from the cooling protection offered by KOOLTRONIC's *Guardian/GuardianX* Air Conditioners. The *GuardianX* model DP33 pictured above, rated at 5,000 BTU/H, is an example of Kooltronic's superior design and product reliability. Internal corrosion protection and a stainless steel shell ensure a NEMA 4X Rating, protecting against corrosive atmospheres.

The *Guardian/GuardianX Series* NEMA 4 or 4X Air Conditioners offer such a high level of protection that they are used in virtually every application imaginable:

- ✓ *Telecommunications*
- ✓ *Industrial*
- ✓ *Medical*
- ✓ *Food and Beverage*
- ✓ *Waste Water Treatment*
- ✓ *Transportation*
- ✓ *Pharmaceutical*
- ✓ *Security*
- ✓ *Machine Tool*
- ✓ *Chemical Processing*



## FOOD AND BEVERAGE

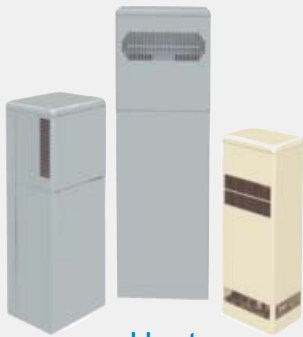
In Food and Beverage processing plants, where government regulated Clean-in-Place procedures require routine high pressure washdowns, electronic systems need to be housed in NEMA 4X enclosures. The *Guardian/GuardianX Series* Air Conditioners are ideal for these demanding situations.

## *Cooling Excellence for Electronics*

### PROTECTING SENSITIVE ELECTRONICS IN HARSH INDUSTRIAL ENVIRONMENTS

The challenges faced by systems integrators go beyond simply protecting electronics from the dangers of heat. Sensitive electronics must be maintained in an environment safe from the harsh ambient conditions common to industrial and processing applications. Kooltronic's *Guardian/GuardianX NEMA 4* and *NEMA 4X* Air Conditioners were specifically designed to offer levels of protection sufficient to guard against environmental dangers found in virtually any application where closed-loop cooling is required. The *Guardian NEMA 4* offers indoor and outdoor protection against airborne dust, splashes and water hose-down found in industrial and processing applications. The *GuardianX NEMA 4X* protects against these hazards, as well as offering additional protection against corrosive atmospheres.

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



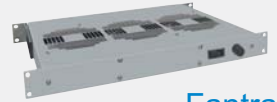
Heat Exchangers



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



Fans



Fantrays



Basic Blowers  
and  
Packaged Blowers

Custom

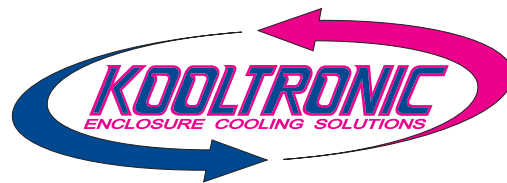


Design



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.





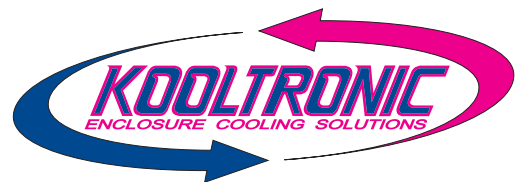


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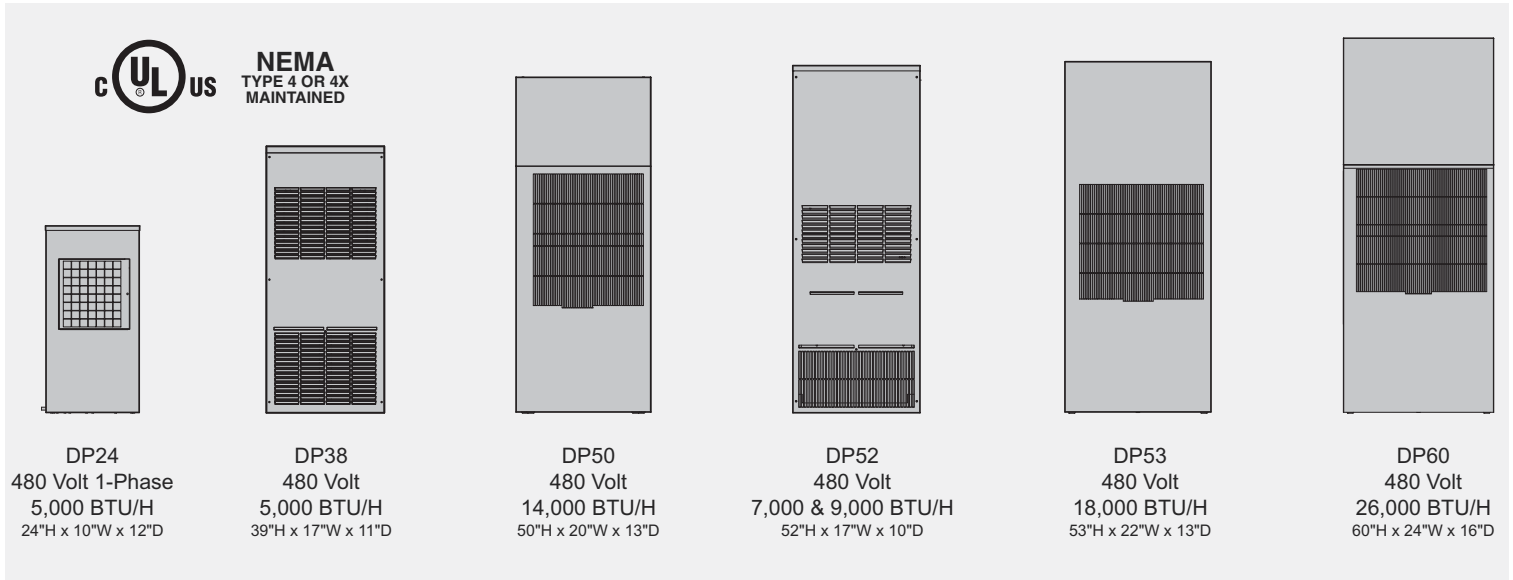


## **Guardian/GuardianX 480 Volt Series NEMA 4 or 4X Air Conditioners**



# Guardian/GuardianX 480 Volt Series NEMA 4 or 4X Air Conditioners

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



## The Guardian/GuardianX 480 Series Air Conditioners

Engineered with 480 Volt compressors, these new *Guardian/GuardianX 480 Series* units eliminate the need for costly transformers. The indoor/outdoor *Guardian/GuardianX 480 Series* has NEMA 4 or 4X Ratings, with all models UL/CUL Listed, making them the perfect choice for wastewater treatment or industrial automation applications.

In addition to the list of standard features, the *Guardian/GuardianX 480 Series* models are also available with a wide range of accessories and options, including stainless steel shell, compressor short-cycle protector, temperature alarm and cabinet heater.

The series consists of five air conditioners with heights from 24 to 60 inches, with capacities from 5,000 to 26,000 BTU/H.

## KEY FEATURES AND BENEFITS

### CLOSED-LOOP COOLING

Enclosure airflow is isolated from ambient air, which cannot invade sensitive electronic components in the enclosure.

### EPOXY-COATED CONDENSER COILS

Preserves heat transfer, surface efficiency and appearance.

### GALVANIZED & PAINTED SHEET METAL

Will withstand 1000 hours of salt spray per the ASTM B117 test method. This allows units to be used in corrosive environments.

### THERMOSTATICALLY CONTROLLED

Prevents over-cooling and provides energy-efficient operation.

### NEMA TYPE 4 or 4X RATING MAINTAINED

An excellent choice for outdoor and washdown environments such as the food service industry (NEMA 4) and waste water treatment (NEMA 4X).

### SIX FOOT [1.8m] (MINIMUM) 3-WIRE CORD

UL/CUL Listed.

### FULL LINE OF OPTIONS AVAILABLE

A complete line of accessory items simplifies modifications to meet individual requirements.

# Kooltronic Offers 480 Volt NEMA Rated Solutions Engineered for Challenging Environments



## WASTE WATER TREATMENT

Waste water treatment is one of the many industries that benefit from the cooling protection offered by KOOLTRONIC's **Guardian/GuardianX** 480 Volt Air Conditioners. The **GuardianX** model DP38 pictured above, rated at 5,000 BTU/H, is an example of Kooltronic's superior design and product reliability. Internal corrosion protection and a stainless steel shell ensure a NEMA 4X Rating, protecting against corrosive atmospheres.



## Applications

Electronically controlled high speed bottling equipment (left and below) is just one of the applications Kooltronic **Guardian/GuardianX 480 Series** units are currently cooling.



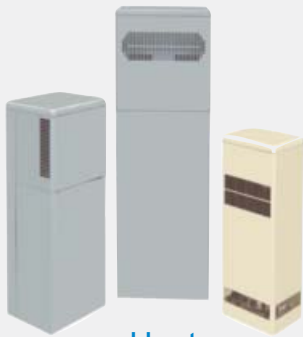
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- ✓ **Security**
- ✓ **Machine Tool**
- ✓ **Chemical Processing**

## PROTECTING SENSITIVE ELECTRONICS IN HARSH INDUSTRIAL ENVIRONMENTS

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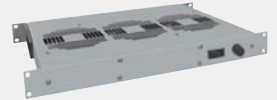
Heat Exchangers



NEMA 4 or 4X Air Conditioners  
(115, 230 and 480 Volt models available)



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Enclosure  
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