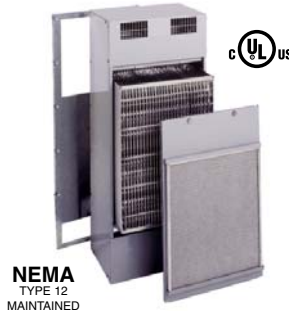


# KOOLTRONIC HEAT EXCHANGER QUICK SHEET



**NEMA**  
TYPE 12 & 3R  
MAINTAINED



**NEMA**  
TYPE 12  
MAINTAINED



**NEMA**  
TYPE 4/4X  
MAINTAINED

**Advantage Series Indoor/Outdoor** - Offered in three sizes, 28", 33" and 47" high, with three capacities dissipating from 24 to 54 Watts/°F, these units can be used indoor and outdoor without the need for weather hoods. Standard features include heavy duty galvanized steel construction with baked-on powder paint and epoxy-coated heat exchanger element.

**TrimLine Series Air-to-Air** - Offering four sizes, 33", 36", 47", and 59" high, dissipating 33, 42, 56 and 91 Watts/°F respectively. These narrow, versatile units feature the exclusive, convoluted embossed aluminum heat transfer elements. These state-of-the-art elements and specially-sized double inlet blowers provide excellent near-ambient cooling performance in a closed-loop system.

**Integrity Series NEMA 4/4X Air-to-Air** - These stainless steel units are offered in four sizes, 32", 38", 47" and 59" high, dissipating 21, 44, 54 and 65 Watts/°F respectively. They protect against hazards specified for both indoor and outdoor NEMA 4/4X enclosures. Powerful ambient-side blowers are used to overcome static pressure caused by baffles and dampers required to comply with NEMA 4/4X sealing and performance standards.



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**KXHE Series Air-to-Air** - This versatile series offers six sizes, from 22" to 59" high, dissipating from 8 to 88 Watts/°F. These unique units operate effectively when mounted vertically, horizontally, internally or externally. The units use a closed-loop system that provides cooling within sealed electronics or industrial enclosures, making them an ideal choice for use in dirty or oil-laden environments.

**KNHE Series NEMA 4/4X-Water-to-Air** - Offered in two sizes, 28" and 30" high, these units were designed for use in harsh, contaminated environments where frequent cleaning of air filters and the heat exchanger core would be necessary. The 28" unit dissipates 42 Watts/°F @ 1GPM and 50 Watts/°F @ 2GPM, and the 30" unit dissipates 58 Watts/°F @ 1GPM and 74 Watts/°F @ 2GPM.

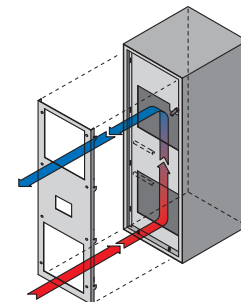
**KPHE Series Water-to-Air** - This series is available in five sizes, from 20" to 32" high, dissipating from 20 Watts/°F @ 0.25GPM to 112 Watts/°F @ 2GPM. These units combine the best features of the KNHE models with the cooling capacity of water to air heat exchangers. These units utilize M/TAB mounting system.



**KTHE200 Air-to-Air** - These units utilize a refrigerant-charged coil to provide closed-loop cooling while dissipating 17 Watts/°F. The KTHE200 is 17" high and operates efficiently mounted either vertically, horizontally, externally or internally. Outdoor operations require special weather protection and external protective features.



**Kooltronic's Line of Heat Exchangers** is one of the most versatile available, satisfying a large range of application requirements by utilizing various heat transfer technologies. Heat Exchangers provide many of the advantages of air conditioners, and are generally less costly to install and operate.



KPHE Series28

**Kooltronic Heat Exchangers** combine powerful forced convection cooling with the advantages of a closed-loop cooling system for environments that pose contaminant problems. The closed-loop design cools and recirculates the same clean air, isolating components from the hostile environment. Kooltronic manufactures its own heat exchanger elements.

# FEATURES AND BENEFITS OF KOOLTRONIC, INC.



- Kooltronic Heat Exchangers are manufactured in the USA.
  - Kooltronic has a 170,000 sq. ft. manufacturing and testing facility.
  - 100% testing on all Kooltronic designed products.
  - Heavy-Duty Steel, Aluminum or Stainless Steel enclosures.
  - NEMA 12 - 3R - 4/4X available.
  - Environmental chamber and laboratory on site.
  - CFC Free or low ODP refrigerant used.
  - Contract laboratory facilities for complete system analysis.
  - Founded in 1956, Kooltronic is a privately owned company.
  - Most models are UL/CUL Listed or Recognized.
  - Painted units have baked powder finish.
  - Full line of options for custom applications.
  - Automated and custom paint booths.
  - Custom design - prototype program
  - Precision ball bearing motors.
  - All units designed using solid modeling software.
- Kooltronic's Quality System is ISO 9001: 2008 Certified.

## Heat Exchanger Accessories and Options

Kooltronic offers a number of both factory-installed and customer installed accessories and options for its heat exchangers, from aluminum cabinets to weather protection kits. Some of the factory-installed options are listed below. For a complete list of available options and accessories, contact Kooltronic, or visit our website: [kooltronic.com](http://kooltronic.com).

**Automatic Water Flow Control** - This consists of a temperature control thermostat and a solenoid valve. When the enclosure temperature falls below the thermostat set point the thermostat closes the solenoid valve. When the temperature increases to the set point (plus a differential) the thermostat opens the valve and the supply water cools the enclosure.

**Heater Kit** - 120V or 240V fin strip heater, installed singly or ganged, used to maintain desired internal enclosure temperature under cold operating conditions. Includes thermostatic control and safety limiter.

**Stainless Steel Cabinet** - For applications in corrosive or other hostile environments such as those requiring Internal Corrosion Resistant Coatings, especially where chemical/moisture combinations are present.



For more information on our thermal management products please visit:

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



## Kooltronic Heat Exchanger Selection Guide

Heat Exchanger	Indoor	Indoor/ Outdoor	NEMA 3R	NEMA 4/4X	NEMA 12	Air- to- Air	Water- to- Air	M/TAB Available	R134a* Charged	WATTS /°F	UL Recognized	UL Listed
Advantage Series		✓	✓		✓	✓		✓		24 - 54	✓	✓
Trimline Series	✓	**			✓	✓		✓		33 - 91	✓	✓
Integrity Series		✓		✓		✓		✓		21 - 65	✓	
KXHE Series	✓	**			✓	✓				8 - 88	✓	✓
KNHE Series		✓		✓			✓	✓		42 - 74	✓	✓
KPHE Series		✓	✓		✓		✓	✓		20 - 112	✓	✓
KTHE200	✓	**							✓	17		

\* CFC-free refrigerant.

\*\* Outdoor operation requires weather protection and external protective features.

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