KXHE120A AIR-TO-AIR PANEL-MOUNTED HEAT EXCHANGERS

NEMA TYPE 12 MAINTAINED

TECHNICAL DATA*

Model	Normally in Stock	Volts	Power Amps	Power Watts	Maximum Temperature ºF Enclosure	Maximum Temperature ºF Ambient	Performance Watts/ºF (Air In)	Approx. Weight (lbs.)
KXHE120A	Yes	115	0.8	75	160	-20 to 115	16	20
K2XHE120A		230	0.4	75	160	-20 to 115	16	20

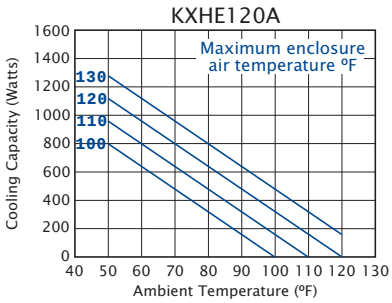
STANDARD FEATURES

Closed-Loop Cooling
Filter
Heavy-duty Steel Shell
NEMA 12 Rating Maintained (UL50)
Refrigerant-Free Aluminum Element
UL/CUL Listed

ACCESSORIES AND OPTIONS

Temperature Alarm
Epoxy-coated element
Filter Recoating Adhesive
Lifting Eyes
Low Airflow Detector
Mounting Hinge
Other voltages and frequencies
Replacement Filters
Special materials or finishes
Special motors, line cords, or connectors
Weather Protection Kit

PERFORMANCE*

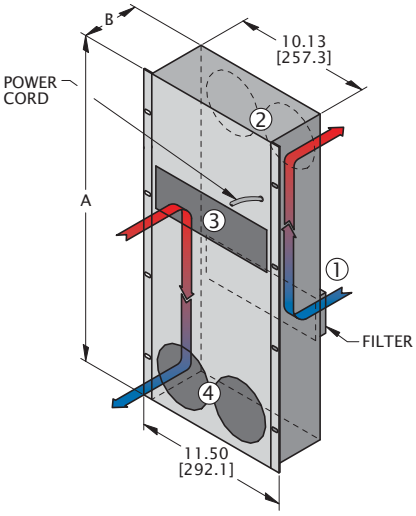


① FILTERED AIR INLET (Ambient Air In)

② AIR OUTLET (Warm Ambient Air Out)

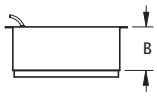
③ WARM AIR RETURN FROM ENCLOSURE

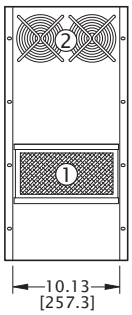
④ COOL AIR OUTLET TO ENCLOSURE

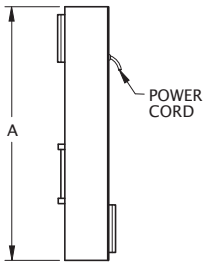


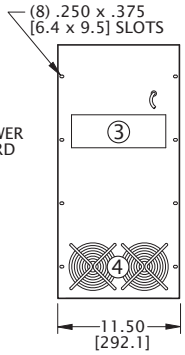
DIMENSIONS

	KXHE120A	
A	24.00	[609.6]
B	4.19	[106.4]
C	19.13	[485.9]
D	8.88	[225.6]
E	4.75	[120.7]
F	3.00	[76.2]
G	0.63	[16.0]
H	9.50	[241.3]

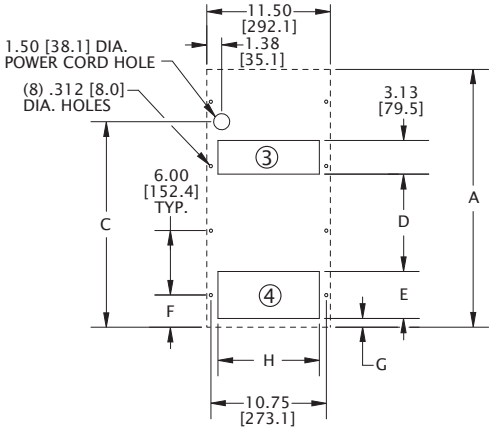








MOUNTING PLAN



Dimensions, inches [mm], are for reference only and subject to change.

* 60 Hz. operation. For 50 Hz. operation, consult Kooltronic.

kxhe120a.qxd 12/10/15

Kooltronic, Inc., 30 Pennington-Hopewell Road, P.O. Box 240, Pennington, NJ 08534-0240
Tel: (609) 466-3400 Fax: (609) 466-1114 kooltronic.com sales@kooltronic.com

KXHE120A AIR-TO-AIR PANEL-MOUNTED HEAT EXCHANGERS

DESCRIPTION

The ***KXHE Series Air-to-Air Heat Exchangers*** combines a choice of state of the art, high-efficiency convoluted aluminum heat transfer element with powerful air movers. This combination uses counterflowing airstreams, for maximum heat transfer efficiency, in a closed-loop system, to provide cooling within sealed electronics or industrial enclosures. This makes the ***KXHE*** an ideal choice for applications in dirty or oil-laden environments. KOOLTRONIC manufactures its own ***KXHE*** heat transfer elements.

These unique Heat Exchangers operate effectively when mounted vertically or horizontally, internally or externally, and are available in numerous sizes, capacities and configurations.

KXHE Air-to-Air Heat Exchangers are an excellent choice for all applications requiring a closed-loop system which can tolerate cabinet temperatures slightly above ambient.

Where internal temperatures must be kept below ambient, one of the ***KPHE Series Water-to-Air Heat Exchangers*** or either ***Air-Cooled*** or ***Water-Cooled Air Conditioners*** should be considered.

Outdoor operations require weather protection and external protective features. Also see ***Intrepid Outdoor Series*** and ***Integrity NEMA 4/4X Series***.

KOOLTRONIC also designs and manufactures a variety of Heat Exchangers to meet *unique* specifications. We invite your inquiries about our modification and custom-design capabilities.

STANDARD FEATURES

CLOSED-LOOP COOLING: The enclosure interior airflow system is isolated from the ambient airflow system. No ambient air can invade the cool, dehumidified sensitive component compartment.

PRECISION BALL-BEARING MOTORS: All blower motors are UL/CSA Recognized and include automatic-reset thermal overload protection and double-sealed or double-shielded precision ball bearings. Special permanent lubricants perform over a broad temperature range: -20°F [-28.9°C] to 250°F [121.1°C]. Consult KOOLTRONIC for motors designed to meet military or other extreme environmental specifications.

RUGGED CONSTRUCTION: Precision-engineered heavy gauge steel construction of all shells and blowers insures Heat Exchangers will stand up under tough applications.

FILTERS: The filters included with all Heat Exchangers consist of a multi-layer grid of sturdy, corrugated aluminum in a one-piece aluminum frame. Filters must be kept free of accumulations, to prevent reduction or loss of performance and/or damage to equipment.

BAKED POWDER FINISH: Durable, baked-on gray powder finish is standard. Other finishes are available.

POWER: Available in 115 VAC, 60 Hz or 50/60 switchable and 230 VAC, 50 Hz or 60 Hz.

POWER CORD: All 115 and 230VAC models are supplied with six-foot three-wire cord with plug. BLDC units have three-wire cords without plugs for direct wiring to power source. Special lengths and/or plugs are available.

GASKETING: All units are fully gasketed for tight, leakproof installation, in compliance with the NEMA 12 Enclosure Rating.

UL/CUL LISTED: All ***KXHE120A*** models are ***UL/CUL Listed***.

ACCESSORIES AND OPTIONS**

FACTORY-INSTALLED OPTIONS:

ALUMINUM SHELL: Where light weight and/or compatibility with appearance of Aluminum Enclosures are required. Unpainted Type 5052 is standard. Other types and ultra-violet-resistant baked powder finish are available.

Append "**A" to Part No. (5052 Unpainted)

EPOXY-COATED ELEMENT: Fabricated to the same standards as the uncoated convoluted aluminum elements, these are made from epoxy-coated aluminum stock that passed 1000 hour salt spray testing.

Append letter "E" to Part No.

LOW AIRFLOW DETECTOR: Similar to the Airflow Switch described as a Blower Accessory, this switch is installed in a suitable location in the heat exchanger to detect loss of airflow, and sends a signal to a terminal block, through which user-installed wiring and warning devices are activated.

Append letter "M" to Part No.

MOUNTING HINGE: (Left-hand or Right-hand) Allows the heat exchanger itself to be used as a cabinet door. (Caution: The cabinet must be able to support the full weight of the unit in open position.) Specify left-hand or right-hand, determined by facing the mounting side of the heat exchanger.

Append letter "P" to Part No. for left-hand.
Append letter "S" to Part No. for right-hand.

****Contact KOOLTRONIC for information.**

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ACCESSORIES AND OPTIONS** (continued)

OTHER VOLTAGES AND FREQUENCIES**

SPECIAL MATERIALS OR FINISHES**

SPECIAL MOTORS, LINE CORDS OR CONNECTORS**

STAINLESS STEEL SHELL: For applications in corrosive or other hostile environments such as those requiring Internal Corrosion Resistant Coatings, especially where chemical/moisture combinations are present.

Append letter "V" to Part No. (304-2B Unpainted)

TEMPERATURE ALARM: A thermostat is mounted inside the cabinet and attached to a sensor in the warm air return. When the air temperature increases to the set point, a signal is sent to a terminal block. User-installed wiring from the terminal block to local and/or remote warning devices *(light, bell, siren, etc.)* can be for normally open or closed operation.

Append "**B" to Part No.

CUSTOMER-INSTALLED OPTIONS:

FILTER RECOATING ADHESIVE: This compound is a superior product for recoating filters after washing. The adhesives penetrate dirt layers to keep the filter surface tacky for longer effective performance between washings.

Part No. A-16 - one pint container.

REPLACEMENT FILTERS: All KOOLTRONIC filters consist of a multi-layer grid of sturdy corrugated aluminum, securely held in a one-piece aluminum frame. Filters are required wherever air is drawn into an electronics enclosure or related cooling equipment to keep internal parts as clean as possible.

A non-drying adhesive coating traps a high percentage of particulate matter. These filters are reuseable, they may be washed and recoated with the appropriate filter recoating adhesive. Replacements are available for those which become damaged or otherwise non-serviceable.

Part No. 100-3F (9.56″ x 5.00″ x 0.50″ [243mm x 127mm x 13mm])

WEATHER PROTECTION KIT: For outdoor installations subject to invasion by rain, snow or windblown dirt, special deflectors shield the condenser air inlet and outlet ports. Air conditioners or heat exchangers installed outdoors require special exterior paint.

****Contact KOOLTRONIC for information.**

HOW TO ORDER

Specify model number. NOTE: Accessories and Options may affect model number, contact KOOLTRONIC for information.

For assistance in model selection, refer to the Heat Exchanger Sizing and Selection Guide, contact KOOLTRONIC, or use one of our design aid software programs, available FREE.

CALL 1-800-321-KOOL (5665)
or FAX 609-466-1114

POPULAR MODELS ARE STOCKED AND READY TO SHIP