



Installation Instructions

Model KNHE48
K2NHE48

I. Introduction

These instructions provide you with the general information necessary for proper installation of the air conditioners.

CAUTION

BEFORE INSTALLING THE AIR CONDITIONER, IT IS IMPORTANT THAT THESE INSTRUCTIONS BE READ AND UNDERSTOOD THOROUGHLY

II. Incoming Inspection

Kooltronic Heat Exchangers are designed, built and packaged to withstand the shock and vibration normally associated with shipment by common carriers. Occasionally improper handling during shipping causes damage. Such handling could include unbanding of palletized shipments, failing to respect any carton handling instructions, rough handling, falling off conveyors, excessive vibration, crushing, etc. Therefore, a thorough inspection should be done upon receipt of all shipments. Any carton tears, dents, scratches or loose articles are signs of damage and should be noted on the Freight Bill. Cartons should be opened promptly and the units inspected for CONCEALED DAMAGE.

An immediate claim **MUST** be filed with the freight carrier and an inspection requested. Retain all packing materials. Kooltronic cannot assume responsibility for Consignee's failure to file a timely freight claim.

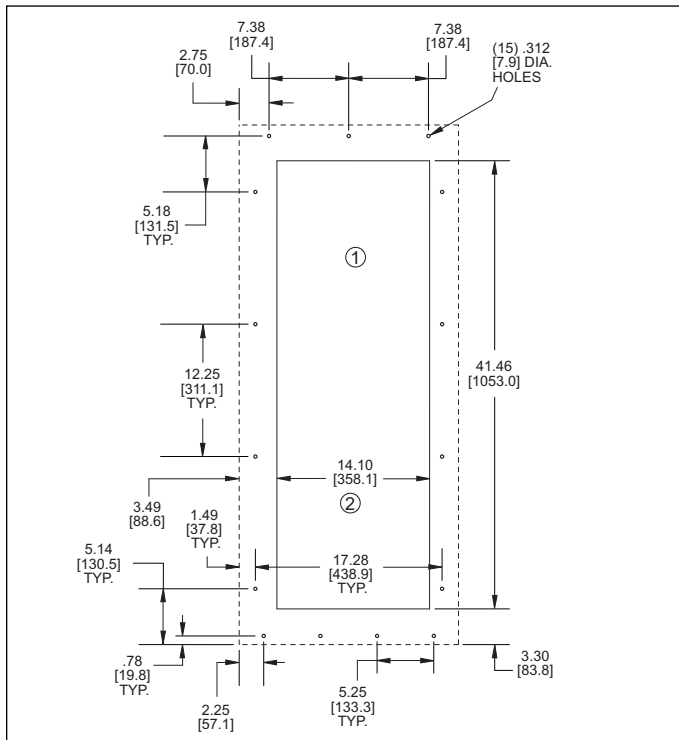
III. Mounting

1. It is recommended that a lift truck be used for installation. The unit weighs 89 lbs.
2. Adjust the lift truck height so that the heat exchanger is located in line with the cutouts and mounting holes.
3. Route the power cord through the air cutout.
4. Move the heat exchanger toward the enclosure panel so that the gap between the heat exchanger and the enclosure is about .05-inch.
5. Install sealing washers and stainless steel nuts on each screw from inside the enclosure and tighten (see mounting drawing).
6. Attach overflow drain hose supplied to the drain exit at the bottom of the unit. This hose **must not** be elevated above the exit port. Improper mounting will impede the flow of condensate and may cause internal malfunctions.
7. Attach supply line to 1/2" O.D. copper tubing Inlet on bottom of unit.
8. Attach discharge line to 1/2" O.D. copper tubing Outlet on bottom of unit.

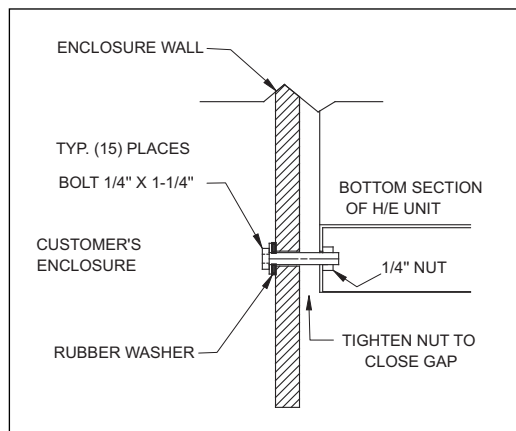
CAUTION

Operate this unit on the proper voltages and frequencies as noted on the nameplate.

MOUNTING PLAN



MOUNTING DRAWING



- ① WARM AIR RETURN FROM ENCLOSURE
- ② COOL AIR OUTLET TO ENCLOSURE

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



Additional Information on this air conditioner can be found by visiting kooltronic.com and searching for the model number, or use the Technical Documents QR code below.

Technical Documents



IV. Warranty You can register your warranty online by going to our homepage at kooltronic.com, under **Support**, or use the Warranty QR code below.

Kooltronic products are warranted to be free of defects in workmanship, materials and components. The following warranty periods apply from date of shipment:

- Air moving devices/components and hermetic system components: 1 year
- Spare parts, except filters: 90 days

The warranty applies when the equipment is operated under the following conditions:

- Ambient temperature not in excess of 125°F (52°C) in normal atmosphere or as stated on product nameplate
- Voltage variation no greater than $\pm 10\%$ from nameplate rating
- Frequency variation no greater than $\pm 3\text{Hz}$ from nameplate rating
- Maximum cooling load no higher than air conditioner nameplate rating
- Waiting five minutes before restarting air conditioner after intentional or accidental shutoff
- Compliance to all other installation, maintenance and operating instructions

The purchaser assumes the responsibility of grounding the unit and installing it in accordance with local electrical and safety codes, as well as the National Electric Code (NEC) and OSHA

KOOLTRONIC cannot assume responsibility for misapplication of its products or the erroneous selection of an inappropriate product by a non-authorized KOOLTRONIC representative. Our applications engineers will gladly assist in the selection of the proper product, provided all required details of the application are furnished.

KOOLTRONIC assumes no liability beyond the repair or replacement of its own product. This Warranty does not cover:

- Labor or reimbursement of labor for evaluation, removal, installation, repair or cost of any warranted part, unless authorized in writing by Kooltronic
- Use of equipment for other than its designed purpose or operating conditions
- Operation in harsh, oily, corrosive or other abnormal environmental conditions, without the proper filtration, sealing, protective coatings and/or weather protection
- Damage to hermetic system resulting from continuous operation with dirty or clogged air filters or improper or negligent maintenance
- Use of refrigerant other than designated
- Customer modification or abuse
- Shipping damage or other accident (Claims for shipping damage are the responsibility of the customer. Timely claims must be filed by the customer with the freight carrier)
- Cracked or broken hermetic tubing, brazed joints or other internal damage caused by shipping damage or mishandling
- Damage caused by shipping units attached to an enclosure
- Any and all conditions resulting from noncompliance with the preceding operating conditions
- Returned freight must be paid by customer
- This Standard Warranty does not apply to custom products. Consult your Kooltronic representative for limitations

THIS WARRANTY CONSTITUTES THE ENTIRE WARRANTY WITH RESPECT TO THE PRODUCT AND IS IN LIEU OF ALL OTHERS, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY AND WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND IN NO EVENT IS KOOLTRONIC RESPONSIBLE FOR ANY CONSEQUENTIAL DAMAGES OF ANY NATURE WHATSOEVER.

V. Return Authorization (RA) Procedure

All returns require a Return Authorization number whether the return reason is for warranty or non-warranty repair, rotation of stock, damage or any other type. Returns without an RA number will be refused.

Customer must call Kooltronic After Sale Kare (ASK), Pennington, New Jersey (609•466•3400) to obtain an RA number, or email ask@kooltronic.com.

The following information is required when an RA is requested:

- Original customer Purchase Order number and date
- Date product was received by customer
- Number of parts to be returned
- Product description, model and serial number
- Reason for return
- Action requested
- Contact name, telephone, FAX numbers and e-mail address

Pack unit in a suitable container for shipment, preferably the original packaging if available. All Heat Exchangers must be returned in an upright position properly secured to a pallet. Improper packaging may void warranty claim. If a Heat Exchanger is received laying down or shipped UPS or similar small parcel service the warranty will be void.

Mark carton prominently with Kooltronic's Return Authorization Number.

Enclose all pertinent documents.

Freight charges on all products returned to Kooltronic shall be paid by the customer. Unauthorized collect shipments will be refused.

If a unit is repaired under Warranty, Kooltronic will pay the freight charges both ways within the Continental USA at Kooltronic's negotiated rates. Warranty repaired units will be returned to customer at Kooltronic expense only within the Continental USA.

All authorized returns are subject to a restocking fee.

Warranty Registration

