



**Pagoda Series
Packaged Blowers**

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Technical
Documents



PAGODA SERIES OPERATOR'S MANUAL



CAUTION

BEFORE INSTALLING AND USING THIS AIR CONDITIONER, IT IS IMPORTANT THAT THIS MANUAL BE READ AND UNDERSTOOD THOROUGHLY



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I. Introduction

This Manual provides you with the necessary general information for properly installing and operating Pagoda Packaged Blowers. Unit specific technical data and mounting instructions are presented later in the Manual.

II. Incoming Inspection

Pagoda Packaged Blowers are designed, built, and packaged to withstand the shock and vibration associated with shipment by common carriers. Occasionally improper handling during shipping causes damage. Therefore, a thorough inspection should be performed upon receipt of all shipments. Any carton tears, dents, scratches, or loose articles 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. Product Handling

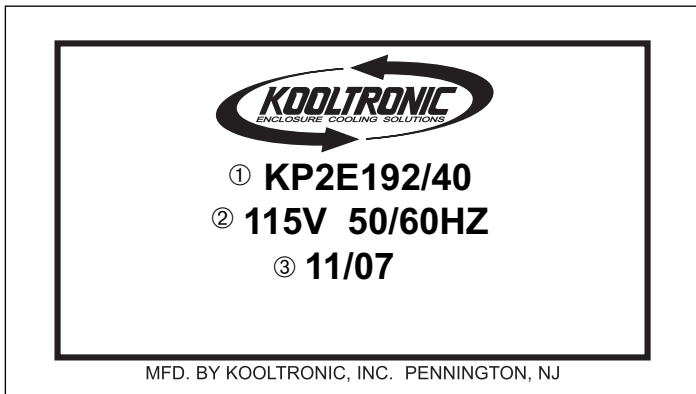
- Do not attempt to operate your Pagoda unit until you read and thoroughly understand this Manual.
- Before operating this unit, all electrical wiring must be checked to assure the proper connections.

CAUTION

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

IV. Product Identification and Nameplate

Each Pagoda unit includes an identification nameplate. This nameplate provides:



- ① Model Number
- ② Electrical Power Characteristics
- ③ Date of Manufacture

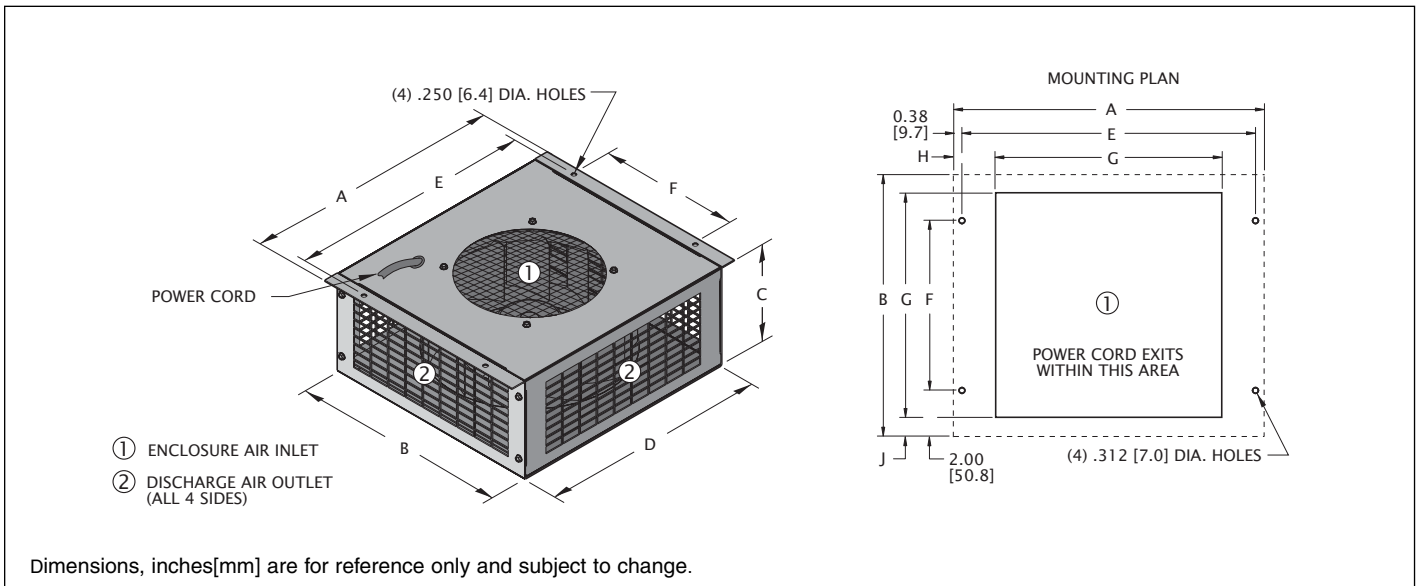
We recommend you copy this information from your unit.

- ① When ordering parts, specify the Model Number.
- ② Before operating, be sure that the power source matches these requirements.

V. Installation Instructions

The Pagoda Series uses motorized impeller blowers for maximum efficiency and performance at reduced noise levels and have been designed for mounting on the top or sides of the cabinet. Air flows out of the cabinet into the inlet of the blower, exiting on all four sides. A three foot [0.9m] (minimum) 3-wire power cord is standard with these units. See page 4 for location of mounting holes.

VI. Drawings and Dimensions



Model	A	B	C	D	E
KP2E192/40	13.50 [342.9]	11.38 [289.1]	5.18 [131.6]	12.00 [304.8]	12.75 [323.9]
KP2E220/45	13.50 [342.9]	11.38 [289.1]	5.18 [131.6]	12.00 [304.8]	12.75 [323.9]
KP2E225/40	13.50 [342.9]	11.38 [289.1]	5.18 [131.6]	12.00 [304.8]	12.75 [323.9]
KP2E225/63	13.50 [342.9]	11.38 [289.1]	5.18 [131.6]	12.00 [304.8]	12.75 [323.9]
KP2E250/56	15.50 [393.7]	13.38 [339.9]	7.00 [177.8]	14.00 [355.6]	14.75 [374.7]
KP4E192/40	13.50 [342.9]	11.38 [289.1]	5.18 [131.6]	12.00 [304.8]	12.75 [323.9]
KP4E225/63	13.50 [342.9]	11.38 [289.1]	5.18 [131.6]	12.00 [304.8]	12.75 [323.9]
KP4E280/80	15.50 [393.7]	13.38 [339.9]	7.00 [177.8]	14.00 [355.6]	14.75 [374.7]
KP4E315/101	15.50 [393.7]	13.38 [339.9]	7.00 [177.8]	14.00 [355.6]	14.75 [374.7]
KP4R355/127	16.75 [425.5]	15.25 [387.3]	10.65 [270.5]	15.25 [387.3]	16.00 [406.4]

Model	F	G	H	J
KP2E192/40	7.38 [187.5]	9.50 [241.3]	2.00 [50.8]	0.94 [23.9]
KP2E220/45	7.38 [187.5]	9.50 [241.3]	2.00 [50.8]	0.94 [23.9]
KP2E225/40	7.38 [187.5]	9.50 [241.3]	2.00 [50.8]	0.94 [23.9]
KP2E225/63	7.38 [187.5]	9.50 [241.3]	2.00 [50.8]	0.94 [23.9]
KP2E250/56	9.38 [238.3]	12.00 [304.8]	1.75 [44.5]	0.69 [17.5]
KP4E192/40	7.38 [187.5]	9.50 [241.3]	2.00 [50.8]	0.94 [23.9]
KP4E225/63	7.38 [187.5]	9.50 [241.3]	2.00 [50.8]	0.94 [23.9]
KP4E280/80	9.38 [238.3]	12.00 [304.8]	1.75 [44.5]	0.69 [17.5]
KP4E315/101	9.38 [238.3]	12.00 [304.8]	1.75 [44.5]	0.69 [17.5]
KP4R355/127	9.38 [238.3]	14.00 [355.6]	1.38 [35.0]	0.63 [16.0]

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

VII. Specific Model Data

Technical Data*

Model	Type	CFM @ 0" S.P.	Cutoff S.P.	dBA	Amps	Watts	Approximate Weight	
							Lbs.	Kg.
KP2E192/40	2-Pole	319	1.72	63.6	0.74	85	11	5.0
KP2E220/45	2-Pole	418	1.94	68.6	1.05	120	10	4.5
KP2E225/40	2-Pole	338	1.71	71.7	1.11	127	13	5.9
KP2E225/63	2-Pole	421	2.66	73.4	1.89	215	14	6.4
KP2E250/56	2-Pole	688	2.68	77.6	2.33	269	17	7.7
KP4E192/40	4-Pole	182	0.55	55.6	0.25	26	11	5.0
KP4E225/63	4-Pole	253	0.81	59.1	0.62	56	12	5.5
KP4E280/80	4-Pole	630	1.18	65.8	0.94	101	16	7.3
KP4E315/101	4-Pole	749	1.46	68.7	1.36	156	18	8.2
KP4R355/127	4-Pole	1615	1.93	74.0	4.00	450	36	16.3

* 115V, 60 Hz. operation

Major Component Replacements

Pagoda Model	Voltage	Impeller	Capacitor
KP2E192/40	115	0194-76	0452-65
KP2E220/45	115	0194-87	0452-65
KP2E225/40	115	0194-14	0452-65
KP2E225/63	115	0194-85	0452-69
KP2E250/56	115	0194-103	0452-32
K2P2E192/40	230	0194-101	0452-64
K2P2E220/45	230	0194-82	0452-81
K2P2E225/40	230	0194-15	0452-64
K2P2E225/63	230	0194-108	0452-43
K2P2E250/56	230	0194-50	0452-75
KP4E192/40	115	0194-94	0452-60
KP4E225/63	115	0194-74	0452-60
KP4E280/80	115	0194-83	0452-62
KP4E315/101	115	0194-49	0452-53
KP4R355/127	115	0194-45	0452-88
K2P4E192/40	230	0194-102	0452-64
K2P4E225/63	230	0194-09	0452-64
K2P4E280/80	230	0194-26	0452-81
K2P4E315/101	230	0194-27	0452-35
K2P4R355/127	230	0194-28	0452-76

VIII. Packing Procedure For Warranty Repair

Pack the Pagoda in an appropriate carton (preferably the original carton), with adequate internal protective packaging, making sure carton is marked properly.

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IX. Standard Warranty

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: One year
- Non-operating parts, except filters: 5 years

The above 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, as supplied
- 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 mis-application 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.

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.

RETURN AUTHORIZATION (RA) PROCEDURE

- All returns require a Return Authorization number whether the return is for warranty or non-warranty repair, rotation of stock, damage or any other reason. 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

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 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**

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 via 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.