

PE-Series



Phoenix
AIR SYSTEMS™

Penthouse Refrigeration Units



507.451.3524

www.phoenixairsystems.com



Phoenix Air Systems, a leading manufacturer of critical process air handling systems, also manufactures refrigeration control equipment. We specialize in cooler and freezer room environmental control for a variety of product types and applications; including food storage, pharmaceutical and industrial processing - just to name a few!

Phoenix Air Systems can work with your team of experts through each step of the process – from concept and design, proposal, manufacturing and commissioning with outstanding support after the sale. We strive to provide exceptional products, at a competitive value, while focusing on providing superior service that exceeds customers' expectations. We have the knowledge and expertise to help ensure your building's environment meets your needs.

Factory-Assembled, Rooftop Units

Designed for convenience and ease of maintenance, the PE-Series penthouse refrigeration units provide refrigeration for a variety of cooler and freezer applications. In addition to numerous features and benefits, PHOENIX AIR SYSTEMS™ PE-Series systems also offer several customer conveniences.

Installed outdoors on the roof, these units free up valuable space in the conditioned area, thereby giving customers more room for storage or processing. In addition, the refrigeration piping, electrical wiring and condensate drain lines are outside the refrigerated space, facilitating routine maintenance, without interrupting operations. Increased storage area and reduced downtime can translate into significant savings throughout the life of the unit.

Shipped factory-assembled, PE-Series units can be delivered pre-wired, internally piped and ready to be set on the roof structure. These conveniences can further reduce installation time and cost.



Dimensions

Model	PE-08	PE-23	PE-31	PE-38	PE-51	PE-54	PE-69	PE-72	PE-93	PE-103	PE-113	PE-123	PE-125	PE-150
Length (in.)	60.25	106.50	106.50	153.63	153.63	200.75	247.88	200.75	247.88	271.00	247.88	318.13	271.00	318.13
Width (in.)	106.50	106.50	106.50	106.50	106.50	106.50	106.50	106.50	106.50	106.50	106.50	106.50	106.50	106.50
Height (in.)	84.00	84.00	100.00	84.00	100.00	84.00	84.00	100.00	100.00	100.00	116.00	100.00	116.00	116.00
Number of Fans	1	2	2	3	3	4	5	4	5	5	5	6	5	6



Standard Features

Benefits

• 4" panels with R-33 rating	• Helps increase performance and efficiency
• Cam lock design	• Helps provide a rigid, vapor tight panel to panel seal
• Smooth, galvanized interior finish	• Minimizes catch points for dirt and debris
• Embossed, galvanized exterior with white powder coat finish	• Improves aesthetics and enhances equipment life
• Two full size, fully insulated doors	• Provides easy access to serviceable components
• Pitched roof with membrane outer layer	• Provides a tough, durable seal that drains water and moisture away
• Premium efficiency, totally enclosed, air over (TEAO) fan motor construction	• Helps improve equipment efficiency and cut operational costs
• Fan motors wired to external NEMA 4 junction box with disconnect	• Allows easy connection to customer supplied controls and helps reduce installation time
• Fan and motor service davit	• Eliminates need for separate equipment to lift fan and motor
• Service outlet (120 V power by others)	• Provides convenience with easy access to electrical supply

Options

- 5" panels with R-42 rating or 6" panels with R-49 rating
- Aluminum or 304 stainless steel interior finish
- 304 stainless steel internal structure construction
- Alternate fan motor construction
- Centrifugal blowers for high static applications
- Interior and exterior service lights
- Galvanized or stainless steel air distribution plenums
- Three-way, four-way and custom design discharge plenums
- Surge drums and/or unit mounted surge drum support structure
- Factory-installed hot gas check valve
- Fan motor starters, control transformer, and temperature controller in unit or remote mounted control packages
- Fan motor variable frequency drives in unit mounted enclosure

Controls



Phoenix Air Systems offers an optional pre-packaged control system that includes a temperature sensor, electronic thermostat, motor starters with branch circuit protection, and fused disconnect switch. These devices are mounted, wired, and commissioned at the factory for turn key operation. This package is a low cost solution for stand alone units because it helps reduce field installation time and resources.

For multi-unit installations, Phoenix Air Systems also offers an optional PLC control system which is custom configured to meet the end user's needs. The units on a project can be controlled by a single panel located in the plant. A touch screen Human Machine Interface is provided on the panel for single point and click operation and monitoring of the entire project. An added benefit of the single point PLC control is the availability to connect a multi-unit project to existing building automation systems.

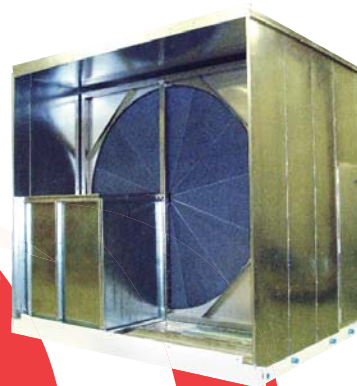
Phoenix Air Systems' knowledgeable personnel can help provide assistance and expertise to create the control solution suited for your application.



Additional products manufactured by Phoenix Air Systems



**Desiccant
Dehumidification
Systems**



**Energy
Recovery
Systems**

Integrated Condensing Units



Hygienic Air Handlers



Air Distribution Accessories



Make Up Air Units

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Installation Code and Quarterly Inspections:

All installation and service of PHOENIX AIR SYSTEMS™ equipment must be performed by a contractor qualified in the installation and service of equipment sold and supplied by Phoenix Air Systems and conform to all requirements set forth in the PHOENIX AIR SYSTEMS™ manuals and all applicable governmental authorities pertaining to the installation, service, operation and labeling of the equipment. To help facilitate optimum performance and safety, Phoenix Air Systems recommends a qualified contractor conduct quarterly inspections of your PHOENIX AIR SYSTEMS™ equipment and perform service where necessary, using only replacement parts sold and supplied by Phoenix Air Systems.

Further Information: Applications, engineering and detailed guidance on system design, installation and equipment performance is available through PHOENIX AIR SYSTEMS™ representatives. Please contact us for any further information you may require, including the Installation, Operation and Service Manual.

These products are not for residential use.

This document is intended to assist licensed professionals in the exercise of their professional judgment.

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