Friedrich FreshAire® and ZoneAire® Series

Packaged Terminal Air Conditioners

FRIEDRICH

THE MOST HVAC SOLUTIONS FOR LODGING AND MULTIFAMILY

TRUSTED BY LODGING PROPERTIES ACROSS THE COUNTRY

More and more owners and operators have discovered that Friedrich's line of PTACs deliver extremely low sound levels and excellent energy efficiency, with innovations that set new standards for product performance, reliability, and guest comfort.

From the exceptional value of ZoneAire® Select, the extreme quiet of the ZoneAire® Premier, or the unmatched efficiency, fresh air capability and quiet performance of the FreshAire® PTAC, all Friedrich PTACs offer Diamonblue™ Advanced Corrosion Protection on the indoor and outdoor coils, and provide the peace of mind of a 2 yr. parts and labor warranty, and 5 yr. limited warranty.

FreshAire® IAQ READY

New, easy-to-install FreshAire® IAQ accessories provide guests with clean, healthy indoor air and help to restore their confidence in the safety of the property's indoor environment.
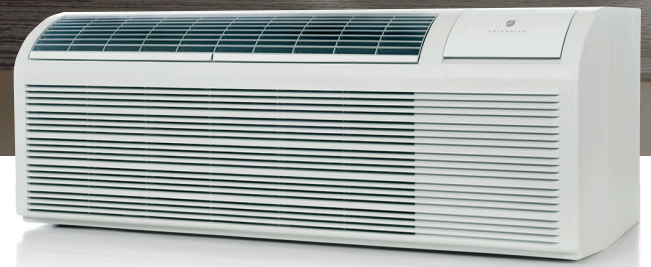
THE MOST ADVANCED PTAC EVER

Delivers the best STC ratings* in the industry, of units with true make-up air capability

*With makeup air active (door open)

FreshAire®

FreshAire® system helps achieve ASHRAE 62.1-2013 requirements, and brings up to 52 CFM of conditioned, MERV 8 filtered, outside air into the space.

Patented technology uses the inverter compressor and main cooling system to optimize temperature and humidity level of incoming air.

By introducing make-up air directly into the guestroom, rooftop central fresh air systems can be considerably downsized to service only the common areas of the property.

This greatly reduces the cost and complexity of hotel design and construction. Unlike other PTACs, the FreshAire® PTAC utilizes the main evaporator coil and Merv 8 filters to truly condition and filter the outside ventilation air.

MERV 8 FILTERED MAKE-UP AIR

RETURN AIR
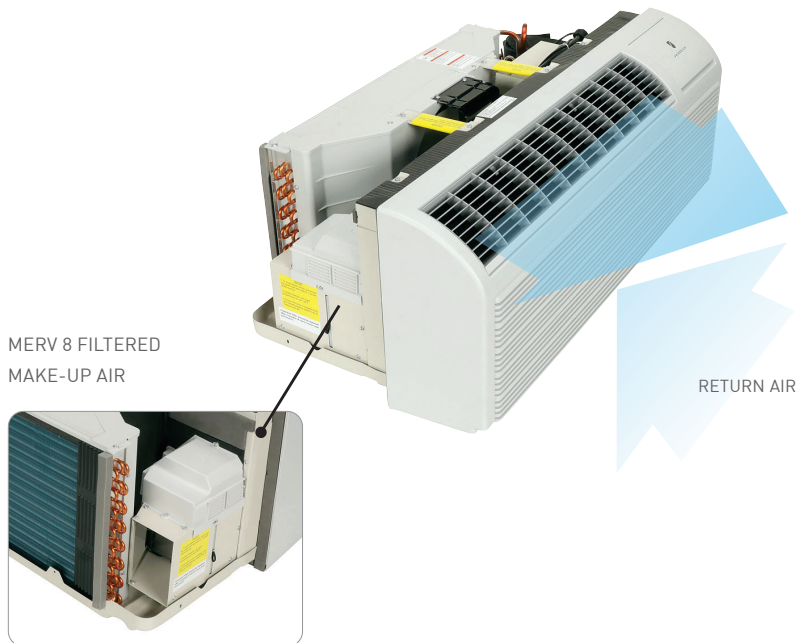
AWARD-WINNING FRESHAIRE® PTAC

FreshAire® PTAC was honored by Engineering Systems magazine as Commercial Comfort Product of the Year for IAQ/Ventilation. The judges recognized that by introducing make-up air directly into the guestroom, rooftop dedicated outdoor air systems (DOAS) can be considerably downsized to service only the common areas of the property, greatly reducing the cost and complexity of hotel construction.

2021 AWARD WINNER

THE PREFERRED CHOICE FOR STUDENT HOUSING

Emory University wanted to install air conditioning equipment that would provide better air quality and better humidity control in the university's Clifton Tower dormitory. Proficient Engineering, the firm that designed the HVAC system for Clifton Tower, chose Friedrich Air Conditioning's FreshAire® PTAC for the unit's capability to deliver up to 52 CFM of fresh, cool, pre-filtered, non humid air into the room. And because the PTAC units employ inverter-driven technology with variable-speed refrigerant systems, fresh air is continually distributed into the space. Outdoor air ventilation for each dorm room was brought in directly through the Friedrich PTACs.

While a building-wide central air conditioning system would have saved dorm room space, the PTACs offered the university a greater advantage: they are inexpensive first-cost units with simple maintenance, where a malfunctioning unit disrupts only a single dorm room. PTACs are designed for portability—a spare replacement can restore the dorm room to working order within minutes, while the faulty unit is repaired as time allows. Failure of a central system, on the other hand, requires sophisticated maintenance, often resolved by an engineer. And the downtime affects the occupants of the entire facility.

By introducing ventilation make-up air directly into the dorm rooms through the PTACs, the dedicated outdoor system was downsized considerably to service only the common areas. This reduced the cost and complexity of the dormitory's HVAC design, mitigating the need for additional ductwork and improving the cost of ownership for the university.

THE WIDEST COOLING & HEATING RANGE IN THE INDUSTRY WITH ONLY TWO MODELS

Variable speed technology gives you the flexibility of a full line of PTACs with only two models, and offers the highest available capacity of any 42 x 16 PTAC on the market at over 17000 Btus.

The Friedrich Inverter variable speed compressor matches the unit output to the actual demand of the space for increased comfort and lower energy consumption.

FRESHAIRE® MODEL	VARIABLE CAPACITY OPERATING RANGE	
	DOWN TO	UP TO
9,000 BTU	6,462 Btus	12,099 Btus
12,000 BTU	7,929 Btus	17,142 Btus

INNOVATIVE DESIGN AND QUALITY COMPONENTS DELIVER PERFORMANCE UNMATCHED BY ANY OTHER PTAC
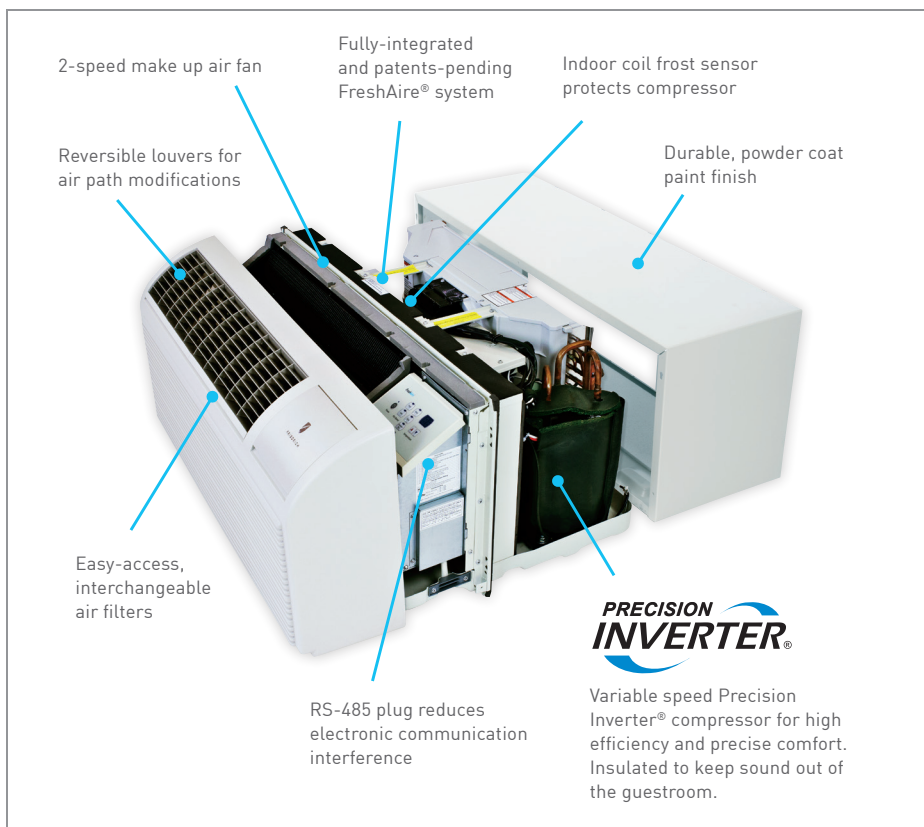
FreshAire® PTAC components can be easily accessed by your maintenance team.

Units can be removed, serviced and placed back in service faster.

Commercial grade components provide reliable performance in even the most extreme climates.

Diamonblue™ Advanced Corrosion Protection

Indoor and outdoor coils are coated to resist corrosion in harsh outdoor environments.

DIAMONBLUE™
Advanced Corrosion Protection

2-speed make up air fan

Reversible louvers for air path modifications

Fully-integrated and patents-pending FreshAire® system

Indoor coil frost sensor protects compressor

Durable, powder coat paint finish

Easy-access, interchangeable air filters

RS-485 plug reduces electronic communication interference

PRECISION INVERTER®

Variable speed Precision Inverter® compressor for high efficiency and precise comfort. Insulated to keep sound out of the guestroom.

IMPORTANT NOTE: Sleeves are sold and shipped separately to accommodate new construction and replacement requirements. Fits other PTAC sleeves without the added expense of a baffle kit.

FRESHAIRE® PTAC EXTENDED CAPACITY RANGE

230/208V Inverter

COOLING

PVH09K
STANDARD RATING   9600/9400 Btu
EXTENDED RATING   6,462 – 12099 Btu

PVH12K
STANDARD RATING   12000/11800 Btu
EXTENDED RATING   7,929 – 17142 Btu
Up to 12.9 EER
Up to 15.0 Equivalent SEER

HEAT PUMP

PVH09K
STANDARD RATING   8200/8500 Btu
EXTENDED RATING   5606 – 11745 Btu

PVH12K
STANDARD RATING   11600/11800 Btu
EXTENDED RATING   6995 – 16187 Btu

Up to 11.57 Application HSPF

265V Inverter

COOLING

PVH09R
STANDARD RATING   9600 Btu
EXTENDED RATING   6,462 – 12099 Btu

PVH12R
STANDARD RATING   12000 Btu
EXTENDED RATING   7,929 – 17142 Btu
Up to 12.0 EER

HEAT PUMP

PVH09R
STANDARD RATING   8500 Btu
EXTENDED RATING   5606 – 11745 Btu

PVH12R
STANDARD RATING   11800 Btu
EXTENDED RATING   6995 – 16187 Btu

Up to 3.57 COP

BACK UP ELECTRIC HEAT

2.5 kw, 3.5 kw and 5.0 kw* heater options
*5.0 kw heater cannot be used on PV09K/PV09R

FRESHAIRE® PTAC DELIVERS BEST-IN-CLASS ENERGY EFFICIENCIES AND LOW SOUND LEVELS
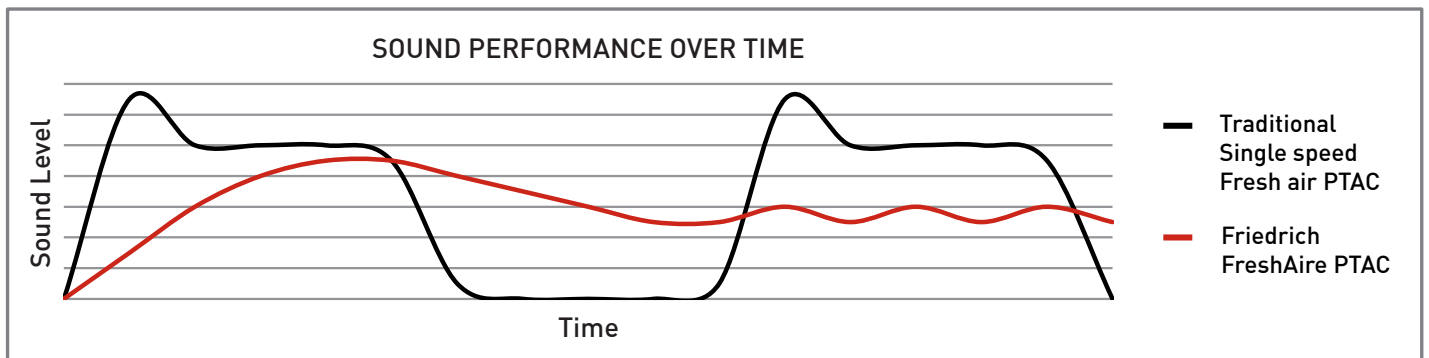
FreshAire® PTACs with inverter compressors deliver equivalent SEERs up to 15.0; application HSPFs up to 11.57, and offer many advantages over traditional PTACs.

- Improved dehumidification
- Quieter start-up and operation
- Better efficiency during part load hours of cooling & heating
- Reduced temperature swings improve guest comfort

TRADITIONAL PTAC	FRESHAIRE INVERTER PTAC
At initial start up, a fixed capacity system slowly reaches the set temperature.	**FASTER TO SETPOINT** At initial start up, utilizes variable capacity to quickly reach the set temperature.
Complete shutdown once set temperature is achieved.	**MAXIMUM ENERGY SAVINGS** Reduces capacity as set temperature is achieved.
Temperature within the space rises until 2nd system start up. System works at full capacity to again reach the set temperature. System cycles on and off continually to maintain the set temperature.	**MAINTAINS PRECISE COMFORT** Variable capacity maintains set temperature keeping space comfortable with reduced energy consumption. Variable capacity operation provides improved humidity control in the guestroom.

SOFT-START TECHNOLOGY PROVIDES THE SMOOTHEST PTAC SOUND AVAILABLE

The variable-speed operation of the FreshAire® PTAC allows the unit to work at the optimal speed to match the true load of the room. This not only provides the best energy consumption curve it also adds to guest comfort by eliminating the harsh start-ups associated with single speed compressors.

SOUND PERFORMANCE OVER TIME

Sound Level / Time

— Traditional Single speed Fresh air PTAC

— Friedrich FreshAire PTAC

The curves above illustrate the different sound characteristics of a single-speed PTAC (black curve) versus a Friedrich FreshAire® PTAC (red curve).

FRESHAIRE® FEATURES

FreshAire® System

Dedicated 2-speed fan delivers up to 52 CFM of outside air into the room.

Merv 8 filter is washable and replaceable.

Does not rely on separate refrigeration system like competitor's units.

🍃 Durable Construction

Aluminum endplates reduce outdoor coil corrosion.

Galvanized zinc coated steel wall sleeve and steel base pan undergo an 11-step preparation process, are powder coated with a polyester finish and cured in an oven for exceptional durability.

RS-485 communication plug, enables a better balanced communication signal which allows the FreshAire® PTAC to communicate fully with the VRPXEMRT2 12V wired controller, and VRPXEMWRT2 12V wireless controller allowing full variable control of the inverter compressor and brings access to our feature rich energy management suite of options including room occupancy.

Factory run-tested units reduce problems in the field.

Internal diagnostic program can alert maintenance to component failures or operating problems. Fourteen numeric service error codes stored in memory facilitate rapid unit diagnostics.

Easy access air filters simplify maintenance and extend the life of the product.

Room freeze protection initiates heat if temperature falls to 50°F in an unoccupied room.

Random compressor restart protects electrical systems from overload when power is restored.

Tamper-resistant, anodized stamped aluminum grille withstands chalking and oxidation.

Break proof control door design maintains the integrity of the unit.

Indoor coil frost sensor protects the compressor to lengthen the life of the unit.

DiamonBlue™ Advanced Corrosion Protection comes standard on all PTACs for long life in harsh coastal environments. See note on the next page regarding coastal installation of FreshAire® PTACs in coastal regions.

🍃 Energy Efficient & Energy Smart

Variable speed Inverter compressor delivers EERs up to 12.9 at part load conditions (9000 Btu model operating at 6462 Btu).

Exceptional FriedrichLink® energy management thermostats available (wired & wireless) with integrated occupancy sensor, five distinct energy presets and comprehensive remote management capability.*

Energy efficient heat pump models available in our complete line.

Electronic defrost control ensures more run time in efficient heat pump mode.

Electronic temperature limiting to adjust low/high temperature range limits for reduced energy usage.

Slinger ring technology in condensate removal system cools the coil and increases efficiency.

Central desk control ready to allow hotel owners to control units from a central location.

FreshAire® IAQ Ready

A full complement of Indoor Air Quality Products has been certified through installation and testing to ensure exceptional air quality is achieved when FreshAire® IAQ accessories are added.

Comfort, Health & IAQ

Dehumidification removes moisture in cool mode to improve comfort and reduce the chance of mold and mildew growth.

Integrated fresh air manifold effectively conditions outside air and meets ASHRAE 62.1 standard for IAQ

Intuitive unit controls are user friendly with easy-to-read LED display that can show either set-point or actual room temperature as selected by owner.

Standard power cord installed on each unit (7-12k-3.5KW), (15K-5.0 KW)

Air filters are easy to access and washable.

Instant Heat heat pump mode quickly heats a room to the desired temperature for increased comfort.

Automatic periodic sampling of room temperature to ensure desired conditions are maintained.

Reversible indoor air louvers to easily change direction of airflow.

Sound Reduction Features

Two permanently lubricated fan motors for added durability and reduced sound levels indoors.

Quiet, efficient inverter compressor mounted with vibration isolators to keep the compressor running smoothly and quietly.

High-density insulation and steel inner wall block outdoor noise

Tangential blower wheel creates a wide path air flow that reaches the furthest corner of the guest room more quietly than conventional fans.

Ease of Maintenance & Installation

Modular product design ensures easy access to key components for cleaning and repairs, including washable, lift-out air filters.

Surehold Front Cover System® securely attaches the front each time.

May be installed low on the floor.

Warranty and Service

2-year full warranty on parts and labor and 5-year limited warranty.

Nationwide service network and U.S.-based Friedrich expert technical team ensures you get fast, knowledgeable service.

See warranty documentation for full details

* Energy management capability requires purchase of additional hardware and activation fee.

THE QUIETEST* PTAC YOU CAN BUY

The most efficient, reliable, and quietest standard Friedrich PTAC

* Independent 3rd party indoor testing against leading competitive brands.

FEATURES

Advanced design for greater energy efficiency

- **EERs** up to 13.0 reduces operating costs versus lower efficiency models
- **Curved coil design** of the Premier Series maximizes the internal surface area to deliver higher efficiencies

QuietMaster® technology

- Precision engineering delivers maximum airflow and air dispersion at the lowest sound levels
- Quietest standard PTAC available
- Quiet rotary compressor mounted on sound isolation grommets

Dependable performance begins with the highest quality materials and components

- **Stainless steel** endplates on the coils for better corrosion resistance
- **Galvanized, zinc-coated steel** wall sleeves brought together with durable construction and rigorous testing

Engineered for maximum guest comfort

- **Tangential fan** provides quiet, yet powerful airflow that quickly reaches all corners of the room
- **Two motor design** for quieter indoor sound levels
- **Dense insulation** on the inner walls reduce sound transfer into the room
- **Constant Fan** mode produces a steady stream of white noise in both cooling and heating modes that masks sound level changes when the compressor cycles on and off, and also masks outdoor noise.

2 YR.
PARTS & LABOR
WARRANTY

5 YR.
LIMITED
WARRANTY

See warranty documentation for full details.

ZONEAIRE® PREMIER PTAC

DESIGNED TO DELIVER QUIET, ENERGY-EFFICIENT OPERATION AND DEPENDABLE PERFORMANCE BACKED BY AN EXCEPTIONAL WARRANTY
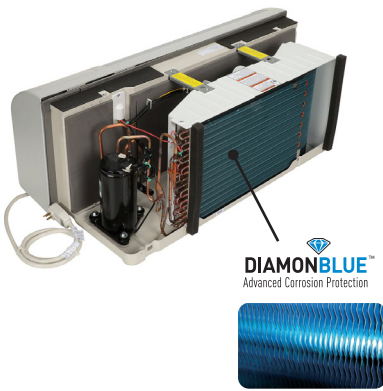
ZoneAire® Premier features advanced coil design to deliver exceptional energy efficiency

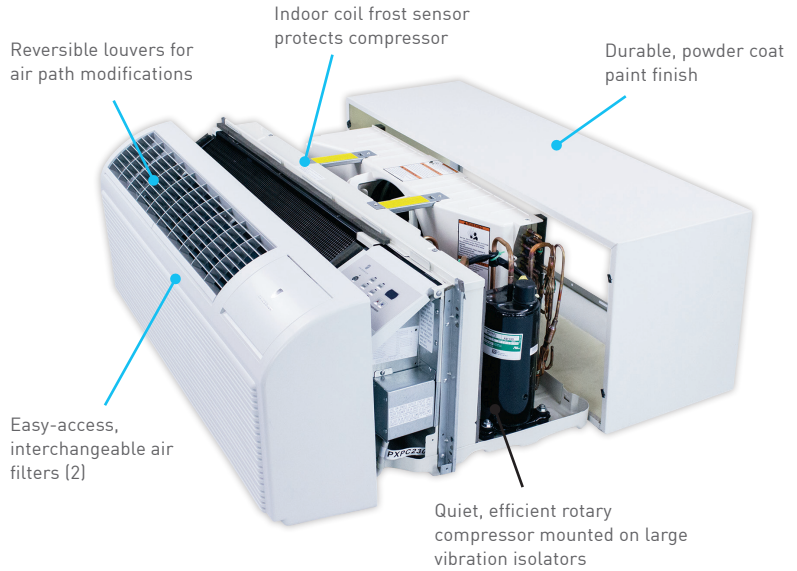The curved coil design of the Premier Series maximizes the internal surface area to deliver higher efficiencies

Key components can be easily accessed by your maintenance team so units can be removed, serviced and placed back in service faster.

Diamonblue™ Advanced Corrosion Protection

Indoor and outdoor coils are coated to resist corrosion in harsh outdoor environments

Friedrich PTACs utilize a modular design that provides easy access to key components for maintenance or service

Reversible louvers for air path modifications

Indoor coil frost sensor protects compressor

Durable, powder coat paint finish

Easy-access, interchangeable air filters (2)

Quiet, efficient rotary compressor mounted on large vibration isolators

IMPORTANT NOTE: Sleeves are sold and shipped separately to accommodate new construction and replacement requirements. Fits other PTAC sleeves without the added expense of a baffle kit.

DIAMONBLUE™
Advanced Corrosion Protection

Easy to read and use digital controls

Large tangential fan provides smooth, powerful airflow

CAPACITY RANGE

Electric Heat	Heat Pump
COOLING	**COOLING**
7000-15000 Btu	7000-15000 Btu
EERs up to 13.0	EERs up to 13.0
ELECTRIC HEAT	**REVERSE HEATING**
8300-17000 Btu	6000-13300 Btu
EERs up to 13.0	Up to 3.6 COP
	AUXILIARY ELECTRIC HEAT
	8300-17000 Btu

Receptacles and Fuse Types

Voltage	230V			265V		
Amps	15	20	30	15	20	30
Heater Size	2.5 kW	3.5 kW	5.0 kW	2.5 kW	3.5 kW	5.0 kW
Receptacles						
NEMA# Receptacle	6-15R	6-20R	6-30R	7-15R	7-20R	7-30R
NEMA# Plug	6-15P	6-20P	6-30P	7-15P	7-20P	7-30P

Standard power cord installed on each unit (7-12k-3.5KW), (15K-5.0 KW)

ZONEAIRE® PREMIER FEATURES

🌿 Durable & Reliable Construction

Stainless steel endplates reduce outdoor coil corrosion.

Galvanized zinc coated steel wall sleeve and steel base pan undergo an 11-step preparation process, are powder coated with a polyester finish and cured in an oven for exceptional durability.

Additional heating element bottom plate above an improved heat shield provides extra thermal protection.

Additional thermistor on the blower scroll outlet regulates internal temperature.

Factory run-tested units reduce problems in the field.

Internal diagnostic program can alert maintenance to component failures or operating problems. Fourteen numeric service error codes stored in memory facilitate rapid unit diagnostics.

Easy access filters simplify maintenance and extend the life of the product.

Room freeze protection initiates heat if temperature falls to 40°F in an unoccupied room.

Random compressor restart protects electrical systems from overload when power is restored.

Tamper-resistant, anodized stamped aluminum grille withstands chalking and oxidation.

Break-proof control door design maintains the integrity of the unit.

Indoor coil frost sensor protects the compressor to lengthen the life of the unit.

Diamonblue™ Advanced Corrosion Protection protects the outdoor coil from harsh environments.

Warranty and Support

Industry leading warranty features 2-year full warranty on parts and labor and 5-year limited warranty.

Nationwide service network and U.S. based Friedrich expert technical team ensures you get fast, knowledgeable service.

🌿 Energy Efficient & Energy Smart

Super-efficient refrigeration design with EERs up to 13.0 and COP up to 3.6.

Exceptional FriedrichLink® energy management thermostats available (wired & wireless) with integrated occupancy sensor, five distinct energy presets and comprehensive remote management capability.*

Advanced coil design adds more surface area leading to higher efficiencies.

Thicker steel inner-wall and foam construction decreases thermal transfer and energy loss.

Energy efficient heat pump models available in our complete line.

Electronic defrost control ensures more run time in efficient heat pump mode.

Electronic temperature limiting to adjust low/high temperature range limits for reduced energy usage.

Slinger ring technology in condensate removal system cools the coil and increases efficiency.

Desk control ready to allow hotel owners to control units from a central location.

Sound Reduction Technology

Two permanently lubricated fan motors for added durability and reduced sound levels indoors.

Quiet, efficient rotary compressor mounted with vibration isolators to keep the compressor running smoothly and quietly.

High-density insulation and steel inner wall block outdoor noise.

Tangential blower wheel creates a wide path air flow that reaches the furthest corner of the guest room more quietly than conventional fans.

FreshAire® IAQ Ready

A full complement of Indoor Air Quality Products has been certified through installation and testing to ensure **exceptional air quality** is achieved when FreshAir IAQ accessories are added

Dehumidification removes up to 3.1 pints/hour of moisture in cool mode to improve comfort and reduce the chance of mold and mildew growth.

Constant Fan mode provides continuous fan operation in cooling or heating modes to create a steady stream of white noise that masks sound level changes when the compressor cycles on/off.

Fresh air damper brings in fresh outside air when desired.

Intuitive unit controls are user friendly with easy-to-read LED display that can show either set-point or actual room temperature as selected by owner.

Air filters are easy to access and washable.

Instant Heat on heat pump models quickly heats a room to the desired temperature for increased comfort.

Even-heat monitoring checks room temperature and automatically adds heat boost if necessary.

Automatic periodic sampling of room temperature to ensure desired conditions are maintained.

Reversible indoor air louvers to easily change airflow direction.

Ease of Maintenance & Installation

Modular product design ensures easy access to key components for cleaning and repairs; including washable, lift-out air filters.

Remote thermostat pop-out wiring module allows easier wiring and unit change out without rewiring thermostat.

Standard power cord installed on each unit (7-12k-3.5KW), (15K-5.0 KW)

Compact front is designed to preserve indoor floor space with a depth of 7¾ inches.

Surehold Front Cover System® securely attaches the front each time.

Inner wall service plate provides service access to tangential blower bearing without having to open up the entire inner wall.

Unit may be installed flush with the floor.

* Energy management capability requires purchase of additional hardware and activation fee.
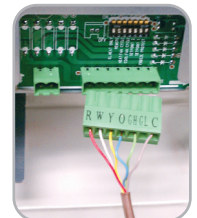
EXCELLENT EFFICIENCY & OUTSTANDING QUALITY

Truly exceptional value, with reliable performance backed by an outstanding warranty.

FEATURES

🍃 Durable Construction

Superior materials and design reduce sound levels and improve overall guest satisfaction

Aluminum endplates reduce corrosion of the outdoor coil.

Galvanized zinc coated steel wall sleeve and steel base pan undergo an 11-step preparation process, are powder coated with a polyester finish, and are oven-cured at high temperature for exceptional durability.

Factory run-tested units reduce problems in the field.

Internal diagnostic program can alert maintenance to component failures or operating problems.

Room freeze protection initiates heat if the temperature falls to 50°F inside an unoccupied guest room.

Random compressor restart protects electrical systems from overload when power is restored.

Tamper-resistant, anodized stamped aluminum grille withstands chalking and oxidation.

Break proof control door design maintains the integrity of the unit.

Indoor coil frost sensor protects the compressor to lengthen the life of the unit.

Friedrich PTACs utilize a modular design that provides easy access to key components for maintenance or service

Reversible louvers for air path modifications

Indoor coil frost sensor protects compressor

Durable, powder coat paint finish

Easy-access, interchangeable air filters

Quiet, efficient rotary compressor mounted on large vibration isolators
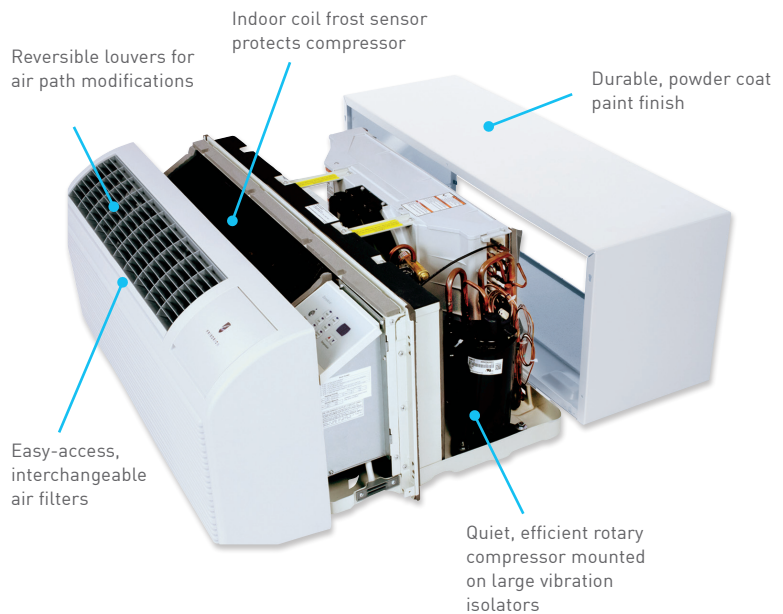
IMPORTANT NOTE: Sleeves are sold and shipped separately to accommodate new construction and replacement requirements.Fits other PTAC sleeves without the added expense of a baffle kit.

ZONEAIRE® SELECT FEATURES

🍃 Energy Efficient & Energy Smart

Super-efficient refrigeration design with EERs up to 12.0 and COP up to 3.55.

Exceptional FriedrichLink® energy management thermostats available (wired & wireless) with integrated occupancy sensor, five distinct energy presets and comprehensive remote management capability.*

Energy efficient heat pump models available in our complete line.

Electronic defrost control ensures more run time in efficient heat pump mode.

Electronic temperature limiting to adjust low/high temperature range limits for reduced energy usage.

Slinger ring technology in condensate removal system cools the coil and increases efficiency.

Central desk control ready to allow hotel owners to control units from a central location.

FreshAire® IAQ Ready

A full complement of Indoor Air Quality Products has been certified through installation and testing to ensure **exceptional air quality** is achieved when FreshAire® IAQ accessories are added

Dehumidification removes up to 3.0 pints/hour of moisture in cool mode to improve comfort and reduce the chance of mold and mildew growth.

Fresh air damper brings in fresh outside air when desired.

Intuitive unit controls are user friendly with easy-to-read LED display that can show either set-point or actual room temperature as selected by owner.

Air filters are easy to access and washable.

Instant Heat heat pump mode quickly heats a room to the desired temperature for increased comfort.

Automatic periodic sampling of room temperature every nine minutes to ensure desired conditions are maintained.

Reversible indoor air louvers to easily change direction of airflow.

Diamonblue™ Advanced Corrosion Protection

Indoor and outdoor coils are coated to resist corrosion in harsh outdoor environments

Ease of Maintenance & Installation

Modular product design ensures easy access to key components for cleaning and repairs, including washable, lift-out air filters.

Remote thermostat pop-out wiring module allows easier wiring and unit change out without rewiring thermostat.

Surehold Front Cover System® securely attaches the front each time.

May be installed flush with the floor.

Sound Reduction Features

Two permanently lubricated fan motors for added durability and reduced sound levels indoors.

Quiet, efficient rotary compressor mounted with vibration isolators to keep the compressor running smoothly and quietly.

High-density insulation and steel inner wall block outdoor noise.

Tangential blower wheel creates a wide path air flow that reaches the furthest corner of the guest room more quietly than conventional fans.

Warranty and Service

2-year full warranty on parts and labor and **5-year limited warranty**.

Nationwide service network and U.S.-based Friedrich expert technical team ensures you get fast, knowledgeable service.

CAPACITY RANGE

Electric Heat

COOLING
6800–14500 Btu
Up to 12.0 EER

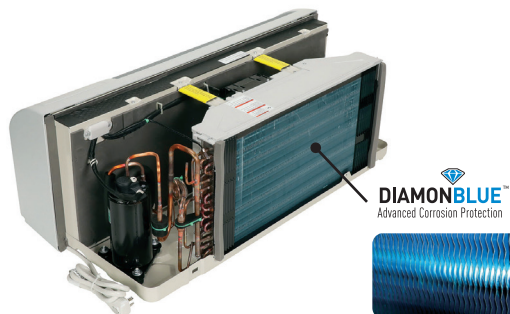**Heat Pump**

COOLING
6800–14500 Btu
Up to 12.0 EER

REVERSE HEAT
6300–13600 Btu
Up to 3.55 COP

Large tangential fan provides optimum airflow

See warranty documentation for full details.

DIAMONBLUE™
Advanced Corrosion Protection

* Energy management capability requires purchase of additional hardware and activation fee.

ENERGY MANAGEMENT
Save big on energy without compromising guest comfort

ADVANCED ENERGY MANAGEMENT FOR FRIEDRICH PTACS

🌿 Real Time Motion and Thermal Occupancy Sensor

Integrated Occupancy Sensor uses a combination of **motion and thermal sensing technologies** for accurate occupancy detection at all times–no need to install additional devices such as door switches or sensors.
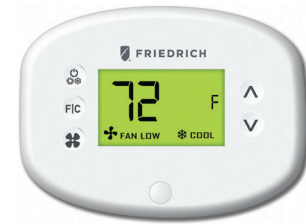
🌿 Wired or Wireless Installation

Wired or wireless connectivity with extensive configuration options deliver full compatibility and easy integration with virtually any packaged HVAC system.

🌿 5 Energy Savings Presets

5 distinct energy saving modes make it easy to choose the optimal energy saving settings for any property.

🌿 Remote Management*

Web-based remote management provides expansive solutions for remote monitoring and configuration from any computer connected to the Internet.

Built-in Wireless Networking enables remote management without using or interfering with property's existing wireless infrastructure. True mesh networking eliminates the need for additional networking equipment such as signal repeaters or multiple data collection boxes.

Friedrich's **EMRT2, EMWRT2, VRPXEMRT2** and **VRPXEMWRT2** thermostats use real-time motion and thermal occupancy detection to save energy.

When the room is unoccupied, the thermostat automatically adjusts the temperature to eliminate unnecessary heating and cooling.

Monitor room status and see the operation, occupancy and energy efficiency status of each room.
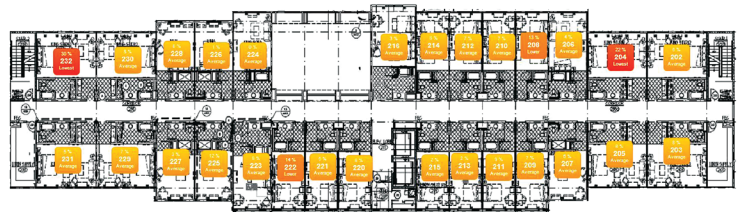
*Requires an optional "Online Connection Kit" and a one-time license fee.

ADVANCED ENERGY SAVING FEATURES

Fully configurable energy saving modes maximize energy savings without compromising guest comfort.

Temperature setback automatically adjusts the temperature when the room is unoccupied in order to save energy.

Temperature recovery calculates the setback temperature so that the desired temperature can be restored within specified time.

Setback optimization continuously monitors temperature recovery rate in the room and adjusts setback temperature to maximize energy savings.

Setback limits allow maximum and minimum room temperature to be set when the room is unoccupied.

Setpoint limits prevent guests from setting room temperature to extreme, energy-wasting levels.

Room status displays operation, occupancy and energy efficiency status of each room.

Room detail displays temperature and occupancy changes in a room.

Energy reports monitor energy use and can even evaluate the performance of energy saving features.

Intuitive interface makes it easy to apply different settings to different rooms.

User management allows configuration of custom access permissions and alert notification settings for different users.

Built-in diagnostic tools automatically send email alert notifications to hotel staff.

FriedrichLink® For Lodging

WALL SLEEVE

PDXWSEZ
Easy snap-together design. Galvanized, zinc-coated steel with a polyester finish. The wall sleeve is insulated for thermal efficiency and noise reduction.

PDXWSA
Galvanized steel is prepared in a multi-step process for stronger paint adhesion, then powder coated with a polyester finish and cured in an oven for exceptional durability. The wall sleeve is already assembled and insulated for thermal efficiency and noise reduction.

SLEEVE DIMENSIONS: 16" H x 42" W x 13 $^3/_4$" D
CUT OUT DIMENSIONS: 16 $^1/_4$" H x 42 $^1/_4$" W
FRONT COVER DIMENSIONS: 16" H x 42" W x 7 $^3/_4$" D

PDXWSEZ

PDXWSA

DEEP WALL SLEEVES

PDXWSEXT18
For walls up to 17 $^1/_2$" deep.

PDXWSEXT24
For walls up to 23 $^1/_2$" deep.

PDXWSEXT (CUSTOM DEPTH WALL SLEEVE)
One-piece, extended wall sleeve with built-in baffle for walls from 13 $^1/_4$" to 25 $^1/_2$" deep are available by special order.

Deep wall sleeve extension PDXWSEXT18 shown with weather panel in place

DIGITAL REMOTE THERMOSTAT

RT7P
24V, Wired (7 Std), single stage, wall-mounted, 7-day programmable thermostat, three fan speeds (auto/low/high), and an easy-to-read large backlight display.

RT7
24V, Wired (7 Std), non-programmable, wall-mounted thermostat (unit powered capable). three fan speeds (auto/low/high), and an easy-to-read backlight display.

WRT2
Wireless wall-mounted thermostat (battery powered). Wireless transmitter (24V), 7-day programmable, three fan speeds (auto/low/high), and an easy to read large backlight display.

RT7P

RT7

WRT2

FRIEDRICHLINK® ENERGY MANAGEMENT THERMOSTATS

VRPXEMRT2   VRPXEMWRT2 (FRESHAIRE® PTAC CONTROLLERS)
VRPXEMRT2 wired wall controller, and VRPXEMWRT2 wireless controller with occupancy sensor designed for FreshAire® PTAC control. Built-in RH control to maximize FreshAire® PTAC capabilities. Used with EMOCT for HVAC energy management

EMWRT2
Wireless thermostat with occupancy sensor.   Built in RH control to maximize FreshAire capabilities. Used with EMOCT for HVAC energy management

EMRT2	**EMRAF**
Wired thermostat with occupancy sensor.	Remote access fee.
EMOCT	**EMRHCF**
Online connection kit for Energy Management	Remote humidity control fee.

EMWRT2, EMRT2, VRPXEMRT2, VRPXEMWRT2

EMOCT

REMOTE THERMOSTAT ESCUTCHEON KIT
PDXRTA FOR USE WITH ZONEAIRE® PREMIER ONLY (10 PACK)
PDXRTB FOR USE WITH ZONEAIRE® SELECT AND FRESHAIRE® PTACS (10 PACK)
Kit contains escutcheons that can be placed over the factory control buttons (recommended when a remote wall mounted thermostat is used as controls become inoperable). The escutcheon directs the user to the wall thermostat for operation and retains the LED window to display error codes and diagnostic information. 10 pack.

PDXRTA

PDXRTB

CONDUIT KIT /JUNCTION BOX   PXCJA
Hard wire conduit kit with junction box for 208/230V and 265V units (subbase not required). Kit includes a means of quick disconnect for easy removal of the chassis.

*NOTE: **The FreshAire® PTAC** when paired with 12V wall controller **VRPXEMRT2** or **VRPXEMWRT2** will operate as a fully variable speed unit. When used with other compatible 24V thermostats, the unit will operate at multiple speeds in either cooling or heating mode.

PXCJA

STANDARD GRILLE   PXGA

Standard, stamped, anodized aluminum to resist chalking and oxidation.

ARCHITECTURAL GRILLES

Architectural grilles consist of heavy gauge 6063-T5 aluminum alloy.

PXAA Clear extruded aluminum.
PXBG Beige acrylic enamel.
PXSC Available in custom colors.

PXGA

DECORATIVE SUBBASE (BLACK)   PXSBA

Provides unit support for walls less than six inches thick. Includes leveling legs, side filler panels and mounting brackets for electrical accessories. Accepts circuit breaker, power disconnect switch and conduit kit.

PXAA

ELECTRICAL SUBBASE

Provides unit support for walls less than six inches thick. Includes leveling legs, side filler panels, mounting brackets, a plug-in receptacle and field-wiring access. The sub-base also includes electrical knockouts for power disconnect switch or circuit breaker.

PXSB23020	Electrical Subbase - 230V 15 & 20A
PXSB23030	Electrical Subbase - 230V 30A
PXSB26515	Electrical Subbase - 265V 15A
PXSB26520	Electrical Subbase - 265V 20A
PXSB26530	Electrical Subbase - 265V 30A

PXSBA

SUBBASE DISCONNECT SWITCH   PXDS

PXSB

POWER CORDS

Universal power cords enable properties to select the appropriate heater size. Reference the adjacent table for power cord options.

ZONEAIRE® PREMIER	FRESHAIRE®		Length
PXPC23015A	PXPCFA23015	LCDI 230V 15A Cord - 2.5 kW	67 in.
PXPC23020A	PXPCFA23020	LCDI 230V 20A Cord - 3.5 kW	67 in.
PXPC23030A	PXPCFA23030	LCDI 230V 30A Cord - 5.0 kW	67 in.
PXPC26515A	PXPCFA26515	Non-LCDI 265V 15A Cord - 2.5 kW	27 1/2 in.
PXPC26520A	PXPCFA26520	Non-LCDI 265V 20A Cord - 3.5 kW	27 1/2 in.
PXPC26530	PXPCFA26530	Non-LCDI 265V 30A Cord - 5.0 kW	27 1/2 in.

PXDS

PXFTA   ZONEAIRE® PREMIER
PXFTB   ZONEAIRE® SELECT AND FRESHAIRE® MODELS
Air filters. 10 pack. Each PTAC requires 2 filters.

PXFAFT10 (FRESHAIRE® MODELS)
Replacement Merv 8 filters. 10 pack. Each PTAC requires 1 filter.

PXFTA   PXFTB

CONDENSATE DRAIN KIT   PXDR10

Attaches to the bottom of the wall sleeve for internal draining of condensate, or to the rear wall sleeve flange for external draining. Recommended for all units to remove excess condensate. 10 pack.
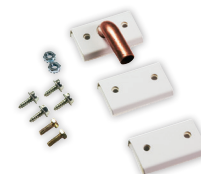
PXFAFT10

LATERAL DUCT ADAPTER   PDXDAA

Attaches to the Friedrich PTAC/PTHP unit to direct up to 35% of the total airflow to a second room. The unit-mounted duct plenum features a front-mounted aluminum grille that has two positions to provide the most optimal air direction. The air may be directed to either the left or the right of the unit through the supplied 3 $1/2$" H x 7" W x 47" L plenum. Plenum may be cut to length by the installer. Kit includes duct plenum, front grille, 47" duct extension, duct discharge grille, duct end cap and all necessary mounting hardware.

PXDR10

LATERAL DUCT EXTENSION   PDXDEA

Additional 3 $1/2$" H x 7" W x 47" L plenum used with the LATERAL DUCT ADAPTER. A maximum of three duct extensions may be used together. Note: Ducted airflow is reduced as duct length is increased.

PDXDAA and PDXDEA ship together

FreshAire® IAQ FOR FRIEDRICH PTACS

The COVID-19 global pandemic transformed the way the lodging industry meets the comfort and safety needs for guests.
As your room air experts, Friedrich remains committed to improving guest comfort and safety with our newest innovation, FreshAire® IAQ solutions - a suite of indoor air quality accessories for use with Friedrich Air Conditioners, all with one dedicated purpose - healthy indoor air. FreshAire® IAQ solutions incorporate ASHRAE-recommended protocol* to address indoor air quality and airborne transmissions.

This suite of products include industry-leading air quality technologies such as MERV 13 filtration,UV germicidal light and bi-polar ionization. Together, they represent a major leap forward in integrated HVAC air purification and rebuilding confidence for indoor environments.

*Based on ASHRAE Guidance for Building Operations During the COVID-19 Pandemic.

FRESHAIRE® MAKE UP AIR (MUA) & FILTRATION (STANDARD ON FRESHAIRE® PTAC)

Award-winning FreshAire MUA system helps achieve ASHRAE 62.1-2013 require-ments, and brings up to 52 CFM of conditioned, MERV 8 filtered, outside air into the space. Patented FreshAire technology uses the Precision Inverter compressor and main cooling system to optimize temperature and humidity level of incoming air while MERV 8 filtration traps particles and pollutants.

FRESHAIRE® PURIFIER   APWM1 (ALL MODELS)

FreshAire® Purifier by iWaves features needlepoint bi-polar ionization to address any mold, bacteria, virus, allergens, and VOC's that may be in your air stream to ensure delivery of healthy, clean, purified air.

FRIEDRICH® UV   UVT1 (ALL MODELS)

Germicidal UV light kits have been tested and certified for use on Friedrich PTACs. The UV kit can be installed on the fan coil and is designed to disinfect surfaces and the air as it circulates through the ventilation system. UV light can kill airborne bacteria, viruses, mold, reduce maintenance costs and extend the life of an HVAC system.

Return air
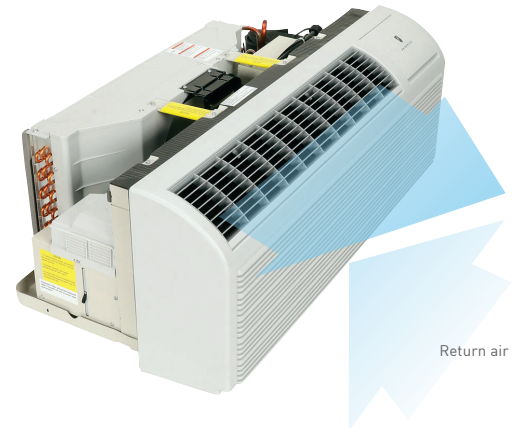
FRESHAIRE® PTAC SPECIFICATIONS

PTHP (Heat Pump) with Inverter and MUA (make-up air), R-410A Refrigerant

Model		PVH09K3FB	PVH09R3FB	PVH12K3FB	PVH12R3FB
PERFORMANCE DATA					
Cooling Capacity	Btu	9600/9400	9600	12000/11800	12000
Cooling Capacity Min./Max	Btu	6462-12099	6462-12099	7929-17142	7929-17142
Cooling Watts		815/800	800	1050/1035	1040
Energy Efficiency Ratio	EER	12.1/12.1	11.8	11.5/11.5	11.4
Heater Size	kW	3.6	3.6	3.6	3.6
Reverse Heating Capacity	Btu	8500/8200	8500	11800/11600	11800
Reverse Heating Capacity Min./Max.	Btu	5606-11475	5606-11475	6995-16187	6995-16187
Heating Watts		710/685	710	970/950	970
COP		3.5/3.5	3.5	3.5/3.5	3.6
Moisture Removal	Pts./Hr.	1.4	1.23	1.9	2.43
Sensible Heat Ratio		80%	83%	78%	74%
ELECTRICAL DATA					
Voltage (1 PHASE, 60 Hz)		230/208	265	230/208	265
Volt Range		253-187	292-239	253-187	292-239
Current	Amps	4.4/4.5	3.8	4.5/5.0	4.7
Reverse Heat	Amps	4.0/4.1	3.6	4.6/4.9	4.3
Power Factor		0.80	0.82	0.96	0.90
Compressor LRA		N/A	N/A	N/A	N/A
Compressor RLA		3.2	4.2	4.1	6.2
Outdoor Fan Motor	HP	0.06	0.06	0.09	0.09
AIRFLOW DATA					
Indoor CFM, HIGH		400	400	470	470
Indoor CFM, LOW		250	290	360	360
Make-up Air CFM@0.05" wc Min/Max		25/52	25/52	25/52	25/52
PHYSICAL DATA					
Sleeve Dimensions H x W x D		16" x 42" x 13 3/4" (all models)			
Dimensions with front H x W x D		16" x 42" x 21" (all models)			
Cut Out Dimensions H x W		16 1/4"x 42 1/4" (all models)			
Net Weight	Lbs.	128	115	137	137
Shipping Weight	Lbs.	136	137	142	142
R-410A Charge	Oz.	30.34	32.1	32.80	32.8

230/208V ELECTRIC HEATER RATING
(CONFIGURATION BASED ON POWER CORD)

POWER CORD #	VOLTAGE	BRANCH CKT AMPS	MCA	WATTS
PXPCFA23015A	230/208	15	13.9	2500
PXPCFA23020A	230/208	20	19.9	3600
PXPCFA23030A	230/208	30	27.5	5000
PXPCFA26515A	265V	15	12.0	2500
PXPCFA26515A[1]	265V	15	7.3	1500
PXPCFA26520	265V	20	16.8	3500
PXPCFA26530	265V	25	23.8	5000

[1] Data for Model PVH09R.

PXPCFA23020A comes standard on PTAC

Receptacles and Fuse Types

Voltage	230V			265V			
Amps	15	20	30	15	15	20	25
Heater Size	2.5 kW	3.5 kW	5.0 kW	1.5 kW	2.5 kW	3.5 kW	5.0 kW
Receptacles							
NEMA# Receptacle	6-15R	6-20R	6-30R	7-15R	7-15R	7-20R	7-30R
NEMA# Plug	6-15P	6-20P	6-30P	7-15P	7-15P	7-20P	7-30P

Warning: Coastal Region Installations. Friedrich Air Conditioning recommends that owners take necessary precautions to protect the interior space, furnishings, and hardware from corrosion when installing make-up air products in coastal applications. Our FreshAire PTAC delivers up to 52 CFM of direct outside make-up air into the space. If installed within 2 miles of a body of salt water, due to the high salt content of coastal air and the high latent load of the make-up air, premature corrosion will occur naturally on non-protected items. Friedrich Air Conditioning is not responsible for premature corrosion resulting from the use of make-up air products. Due to continuing research in new energy-saving technology, specifications are subject to change without notice. Warranty limited to installations in the United States, Puerto Rico, Mexico and Canada only. See warranty documentation for full details. FreshAire PTAC may be covered under one or more of the following patents: 10,408,504 and 10,436,457. Additional patents pending.

PTHP (Heat Pump) with Inverter and MUA (make-up air), R-32 Refrigerant

Model		PVH09K3FC	PVH09R3FC	PVH12K3FC	PVH12R3FC
PERFORMANCE DATA					
Cooling Capacity	Btu	9800/9700	9800	12000/11800	12000
Cooling Capacity Min./Max	Btu	4400-12000	4400-12000	4700-13800	4700-13800
Cooling Watts		815/805	815	1040/1025	1040
Energy Efficiency Ratio	EER	12.52/12.39	12.39	12.08/11.94	12.15
Heater Size	kW	3.6	3.6	3.6	3.6
Reverse Heating Capacity	Btu	8500/8400	8500	11500/11500	11600
Reverse Heating Capacity Min./Max.	Btu	5606-11475	5606-11475	6995-16187	6995-16187
Heating Watts		710/700	710	925/925	930
COP		3.51/3.51	3.51	3.65/3.65	3.65
Moisture Removal	Pts./Hr.	1.4	1.2	1.9	2.4
Sensible Heat Ratio		77%	78%	77%	78%
ELECTRICAL DATA					
Voltage (1 PHASE, 60 Hz)		230/208	265	230/208	265
Volt Range		253-187	292-239	253-187	292-239
Current	Amps	3.56/3.95	3.09	4.55/4.99	3.86
Reverse Heat	Amps	3.09/3.37	2.77	3.87/4.23	3.7
Power Factor		0.80	0.82	0.96	0.90
Compressor LRA		N/A	N/A	N/A	N/A
Compressor RLA		3.2	2.8	4.1	3.5
Outdoor Fan Motor	HP	0.06	0.07	0.08	0.07
AIRFLOW DATA					
Indoor CFM, HIGH		700	700	750	780
Indoor CFM, LOW		535	535	560	560
Make-up Air CFM@0.05" wc Min/Max		25/52	25/52	25/52	25/52
PHYSICAL DATA					
Sleeve Dimensions H x W x D		16" x 42" x 13 3/4" (all models)			
Dimensions with front H x W x D		16" x 42" x 21" (all models)			
Cut Out Dimensions H x W		16 1/4"x 42 1/4" (all models)			
Net Weight	Lbs.	109	109.9	110.3	110.36
Shipping Weight	Lbs.	132	132.45	132.8	132.08
R-32 Charge	Oz.	24.3	N/A	27.2	N/A

ZONEAIRE® PREMIER PTAC SPECIFICATIONS

PTAC Electric Heat models

Models ending in 'K' are 230/208V, models ending in 'R' are 265V

Model	PDE07K3SG	PDE07R3SG	PDE09K3SG	PDE09R3SG	PDE12K3SG	PDE12R3SG	PDE15K5SG	PDE15R5SG
PERFORMANCE DATA								
Cooling Btu	7200/7000	7500	10200/9900	10000	12300/12100	12300	14700/14400	14800
Cooling Watts	560/540	560	775/760	775	1015/1000	1015	1390/1365	1390
Energy Efficiency Ratio, EER	13.3/13.3	13.3	12.5/12.1	12.1	11.6/11.6	11.6	10.4/10.4	10.4
Heater Size (kW)	3.6	3.6	3.6	3.6	3.6	3.6	5	5
Moisture Removal (pints/hr.)	1.69	1.69	2.11	2.11	2.74	2.74	3.17	3.17
Sensible Heat Ratio	86%	86%	85%	85%	75%	75%	67%	67%
ELECTRICAL DATA								
Voltage (1 Phase, 60 Hz)	230/208	265	230/208	265	230/208	265	230/208	265
Volt Range	253 – 187	292 – 239	253 – 187	292 – 239	253 – 187	292 – 239	253 – 187	292 – 239
Current (Amps)	2.4/2.6	2.1	3.7/3.9	3.3	4.9/5.1	4.2	6.2/6.7	5.4
Power Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Compressor LRA	13.0	12.0	19.5	13.5	21.5	19.0	28.9	21.6
Compressor RLA	2.16	2.2	3.5	3.0	4.7	3.9	5.9	5.05
Outdoor Fan Motor, HP	0.080	0.080	0.080	0.080	0.086	0.086	0.086	0.086
AIRFLOW DATA								
Indoor CFM, HIGH	311.91	311.91	355/325	355	400/390	400	400/390	400
Indoor CFM, LOW	282.48	282.48	300/275	300	325/310	325	325/310	325
Vent CFM	75	75	75	75	75	75	75	75
PHYSICAL DATA								
Sleeve Dimensions (H x W x D)	16" x 42" x 13³/4" (all models)							
Dimensions with Front (H x W x D)	16" x 42" x 21¹/2" (all models)							
Cut Out Dimensions (H x W x D)	16¹/4" x 42¹/4" (all models)							
Net Weight (lbs.)	110.25	110.2	115	115	119	118	121	121
Shipping Weight (lbs.)	132.3	132.3	135	135	139	138	140	140
R-410A Charge (oz.)	17.64	17.64	24	24	36	36	36	36
Dimensions with Packaging (inches)	17⁷/8" x 45" x 25¹/4" (all models)							

R-32 Refrigerant Electric Heat Models

Models ending in 'K' are 230/208V, models ending in 'R' are 265V

Model	PDE07K3SGR3	PDE07R3SGR3	PDE09K3SGR3	PDE09R3SGR3	PDE12K3SGR3	PDE12R3SGR3	PDE15K3SGR3	PDE15R3SGR3
PERFORMANCE DATA								
Cooling Btu	7400/7200	7500	10200/9900	10000	12300/12100	12300	14700/14400	14800
Cooling Watts	560/540	560	810/790	800	1060/1020	1060	1420/1380	1400
Energy Efficiency Ratio, EER	13.0/13.0	13.3	12.5/12.5	12.5	11.6/11.8	11.6	10.4/10.6	10.6
Heater Size (kW)	3.6	3.6	3.6	3.6	3.6	3.6	5	5
Moisture Removal (pints/hr.)	1.69	1.69	2.11	2.11	2.74	2.74	3.17	3.17
Sensible Heat Ratio	86%	86%	85%	85%	75%	75%	67%	67%
ELECTRICAL DATA								
Voltage (1 Phase, 60 Hz)	230/208	265	230/208	265	230/208	265	230/208	265
Volt Range	253 – 187	292 – 239	253 – 187	292 – 239	253 – 187	292 – 239	253 – 187	292 – 239
Current (Amps)	2.4/2.6	2.1	3.6/3.9	3.2	4.7/5.0	4.0	6.0/6.5	5.3
Power Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Compressor LRA	13.0	12.0	17.0	15.0	30.0	21.0	35.2	26.0
Compressor RLA	2.16	2.2	3.1	3.4	4.0	3.3	5.0	6.4
Outdoor Fan Motor, HP	0.080	0.080	0.080	0.080	0.086	0.086	0.086	0.086
AIRFLOW DATA								
Indoor CFM, HIGH	311.9	311.9	330	330	341.33	341.33	341	341.33
Indoor CFM, LOW	282.48	282.48	282	282	306.02	306.02	306	306.02
Vent CFM	75	75	75	75	75	75	75	75
PHYSICAL DATA								
Sleeve Dimensions (H x W x D)	16" x 42" x 13³/4" (all models)							
Dimensions with Front (H x W x D)	16" x 42" x 21¹/2" (all models)							
Cut Out Dimensions (H x W x D)	16¹/4" x 42¹/4" (all models)							
Net Weight (lbs.)	110.25	110.25	110.3	110.3	114.66	114.66	114.7	114.7
Shipping Weight (lbs.)	132.3	132.3	132.3	132.3	136.71	136.71	136.7	136.7
R-32 Charge (oz.)	17.64	17.64	17.28	17.28	21.16	21.16	19.75	19.79
Dimensions with Packaging (inches)	17⁷/8" x 45" x 25¹/4" (all models)							

PTHP Heat Pump models

Models ending in 'K' are 230/208V, models ending in 'R' are 265V

Model	PDH07K3SG	PDH07R3SG	PDH09K3SG	PDH09R3SG	PDH12K3SG	PDH12R3SG	PDH15K5SG	PDH15R5SG
PERFORMANCE DATA								
Cooling Btu	7200/7000	7200	9400/9200	9400	11800/11600	11800	14500/14200	14500
Cooling Watts	550/535	550	775/760	775	1015/1000	1015	1390/1365	1390
Energy Efficient Ratio, EER	13.0/13.0	13.0	12.1/12.1	12.1	11.6/11.6	11.6	10.4/10.4	10.4
Heater Size (kW)	3.6	3.6	3.6	3.6	3.6	3.6	5	5
Reverse Heating Btu	6000/5800	6000	8500/8200	8600	10900/10700	10700	13800/13300	13300
Heating Watts	490/470	490	690/670	690	940/900	920	1310/1250	1250
COP	3.6/3.6	3.6	3.5/3.5	3.5	3.4/3.4	3.4	3.1/3.1	3.1
Moisture Removal (pints/hr.)	1.7	1.7	2.1	2.1	2.7	2.7	3.1	3.1
Sensible Heat Ratio	86%	86%	85%	85%	75%	75%	67%	67%
ELECTRICAL DATA								
Voltage (1 Phase, 60 Hz)	230/208	265	230/208	265	230/208	265	230/208	265
Volt Range	253 – 187	292 – 239	253 – 187	292 – 239	253 – 187	292 – 239	253 – 187	292 – 239
Current (Amps)	2.7/2.9	2.4	3.7/3.9	3.3	4.9/5.1	4.2	6.2/6.7	5.4
Reverse Heat Amps	2.4/2.6	2.2	3.4/3.2	3.1	4.2/4.7	3.7	6.2/6.7	5.0
Power Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Compressor LRA	13.0	12.5	19.5	13.5	21.5	19.0	28.9	21.6
Compressor RLA	2.5	2.2	3.5	3.0	4.7	3.9	5.9	5.05
Outdoor Fan Motor, HP	0.080	0.080	0.080	0.080	0.086	0.086	0.086	0.086
AIRFLOW DATA								
Indoor CFM, HIGH	345/315	345	355/325	355	400/390	400	400/390	400
Indoor CFM, LOW	270/255	270	300/275	300	325/310	325	325/310	325
Vent CFM	75	75	75	75	75	75	75	75
PHYSICAL DATA								
Sleeve Dimensions (H x W x D)	16" x 42" x 13¾" (all models)							
Dimensions with Front (H x W x D)	16" x 42" x 21½" (all models)							
Cut Out Dimensions (H x W x D)	16¼" x 42¼" (all models)							
Net Weight (lbs.)	113	112	119	119	122	119	124	122
Shipping Weight (lbs.)	133	132	139	139	141	139	144	144
R-410A Charge (oz.)	34	34	34	34	36	36	39	39
Dimensions with Packaging (inches)	17⅞" x 45" x 25¼" (all models)							

R-32 Refrigerant Heat Pumps

Model		PDH07K3SGR3	PDH07R3SGR3	PDH09K3SGR3	PDH09R3SGR3	PDH12K3SGR3	PDH12R3SGR3	PDH15K5SGR3	PDH15R5SGR3
PERFORMANCE DATA									
Cooling Capacity	Btu	7400/7200	7300	9700/9400	9800	12100/11900	12000	14600/14200	14500
Cooling Watts		570/560	560	800/780	810	1040/1000	1030	1400/1360	1390
Energy Efficiency Ratio	EER	13.0/13.0	13.0	12.1/12.1	12.1	11.6/11.8	11.6	10.4/10.4	10.4
Heater Size	kW	3.6	3.6	3.6	3.6	3.6	3.6	5	5
Reverse Heating Capacity	BTU	6000/5800	6000	8500/8200	8600	10900/10700	10700	13800/13300	13300
Heating Watts		490/460	490	690/670	690	940/900	920	1310/1250	1250
COP (W/W)		3.6/3.6	3.6	3.6/3.6	3.65	3.4/3.46	3.4	3.1/3.1	3.1
Moisture Removal	Pts.Hr.	1.69	1.69	2.11	2.11	2.75	2.75	3.17	3.17
Sensible Heat Ratio		83/80%	83%	75%	75%	70%	70%	---	---
ELECTRICAL DATA									
Voltage (1 PHASE, 60 Hz)		230/208	265	230/208	265	230/208	265	230/208	265
Volt Range		253-187.2	238.5-291.5	253-187	292-239	253-187	292-239	253-187	292-239
Cooling	Amps	2.4/2.6	2.1	3.6/3.9	3.1	4.6/4.9	4	6.0/6.5	5.3
Reverse Heat	Amps	2.1/2.3	1.8	3.1/3.2	2.6	4.1/4.3	3.5	5.6/5.9	4.7
Power Factor		0.99/1.0	1.0	0.99	0.99	0.99	0.99	---	---
Compressor LRA		13	12	17	15	30	21	35.2	26
Compressor RLA		2.16	2.2	3.1	3.4	4.0	4.5	5	6.4
Outdoor Fan Motor	HP	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
AIRFLOW DATA									
Indoor CFM, HIGH		311.9	311.9	330	330	340	341	341	341
Indoor CFM, LOW		282.48	282.48	282	282	306	306	306	306
Outdoor Air		75	75	52	52	52	52	75	75
PHYSICAL DATA									
Sleeve Dimensions H x W x D		16" x 42" x 13 3/4" (all models)							
Dimensions with front H x W x D		16" x 42" x 21" (all models)							
Cut Out Dimensions H x W		16 1/4"x 42 1/4" (all models)							
Net Weight	Lbs.	112.45	112.45	115	115	119	119	120	120
Shipping Weight	Lbs.	134.5	134.5	135	135	141	141	142	142
R-32 Charge	Oz.	27.51	27.51	24.7	24.7	20.92	28.9	29.63	28.57
Dimensions with Packaging (inches)		17⅞" x 45" x 25¼" (all models)							

ZONEAIRE® SELECT PTAC SPECIFICATIONS

Electric Heat models

Model	PZE07K3SB	PZE09K3SB	PZE09R3SB	PZE12K3SB	PZE12R3SB	PZE15K5SB
PERFORMANCE DATA						
Cooling Btu	7200/6800	9600/9400	9200	12000/11800	12000	14500/14300
Cooling Watts	600/565	815/800	800	1050/1035	1130	1420/1400
Energy Efficient Ratio, EER	12.0	11.8/11.8	11.5	11.4/11.4	10.6	10.2/10.2
Heater Size (kW)	3.6	3.6	3.6	3.6	3.6	5.0
Moisture Removal (pints/hr.)	0.7	1.2	1.6	2.1	3.2	3.0
Sensible Heat Ratio	87%	82%	82%	77%	72%	72%
ELECTRICAL DATA						
Voltage(1 PHASE, 60 Hz)	230/208	230/208	265	230/208	265	230/208
Volt Range	253-187	253-187	292-239	253-187	292-239	253-187
Current (Amps)	2.6/2.7	3.5	4.2	4.5	5.92	6.17
Power Factor	0.99	0.99	0.99	0.96	0.99	0.99
Compressor LRA	13.0	20.0	18.15	28.5	25.9	34.5
Compressor RLA	2.5/2.1	3.05/3.25	3.1	4.09/5.3	4.3	5.75/6.35
Outdoor Fan Motor, HP	0.07	0.07	0.07	0.07	0.07	0.09
AIRFLOW DATA						
Indoor CFM, HIGH	335	400	400	470	470	470
Indoor CFM, LOW	250	250	290	360	360	360
Vent CFM	75	75	75	75	75	75
PHYSICAL DATA						
Sleeve Dimensions (H x W x D)	16" x 42" x 13 3/4" (ALL MODELS)					
Dimensions with Front (H x W x D)	16" x 42" x 21 1/2" (ALL MODELS)					
Cut Out Dimensions (H x W x D)	16 1/4"x 42 1/4" (ALL MODELS)					
Net Weight (lbs.)	122	110	128	135	115	137
Shipping Weight (lbs.)	126	128	136	137	137	137
R-410 Charge (oz.)	30.0	32.1	31.4	30.7	30.0	34.2
Dimensions with Packaging (inches)	19" 3/4 x 43 1/2" x 23" (ALL MODELS)					

R-32 Refrigerant Electric Heat models

Model	PZE07K3SC	PZE09K3SC	PZE09R3SC	PZE12K3SC	PZE12R3SC	PZE15K5SC
PERFORMANCE DATA						
Cooling Btu	7200/6800	9300/9100	9200	12000/11800	12000	14500/14300
Cooling Watts	600/580	800/785	800	1110/1090	1130	1450/1430
Energy Efficient Ratio, EER	12.0	11.6/11.6	11.5	10.8/10.8	10.6	10.0/10.0
Heater Size (kW)	3.6	3.6	3.6	3.6	3.6	5.0
Moisture Removal (pints/hr.)	0.3/0.36	1.37/1.69	1.1	2.32/2.56	2.81	4.29/4.44
Sensible Heat Ratio	87%	82%	82%	77%	72%	72%
ELECTRICAL DATA						
Voltage(1 PHASE, 60 Hz)	230/208	230/208	265	230/208	265	230/208
Volt Range	253-187	250-187	292-239	253-287	292-239	253-187
Current (Amps)	2.6/2.7	3.48/3.77	4.2	4.82/5.24	5.92	6.3/6.87
Power Factor	0.93/0.95	0.97/0.98	0.86	0.99/0.98	0.86	0.99/0.98
Compressor LRA	13.4	17.5	18.2	23.9	25.9	34.7
Compressor RLA	2.4	3.43	3.0	4.51	4.3	6.4
Outdoor Fan Motor, HP	0.07	0.07	0.07	0.07	0.07	0.07
AIRFLOW DATA						
Indoor CFM, HIGH	424	412	412	471	471	471
Indoor CFM, LOW	365	365	365	412	412	412
Vent CFM	75	75	75	75	75	75
PHYSICAL DATA						
Sleeve Dimensions (H x W x D)	16" x 42" x 13 3/4" (ALL MODELS)					
Dimensions with Front (H x W x D)	16" x 42" x 21 1/2" (ALL MODELS)					
Cut Out Dimensions (H x W x D)	16 1/4"x 42 1/4" (ALL MODELS)					
Net Weight (lbs.)	90	94	94	106	94	107
Shipping Weight (lbs.)	103	105	105	117	105	118
R-32 Charge (oz.)	17.6	18.7	19.0	21.5	22.2	27.5
Dimensions with Packaging (inches)	19" 3/4 x 43 1/2" x 23" (ALL MODELS)					

PTHP Heat Pumps Models

Model	PZH07K3SG	PZH09K3SG	PZH09R3SG	PZH12K3SG	PZH12R3SG	PZH15K5SG
PERFORMANCE DATA						
Cooling Btu	7200/6800	9600/9400	9200	12000/11800	12000	14500/14300
Cooling Watts	600/565	815/800	800	1050/1035	1130	1420/1400
Energy Efficient Ratio, EER	12.0/12.0	11.8/11.8	11.5	11.4/11.4	10.6	10.2/10.2
Heater Size (kW)	3.6	3.6	3.6	3.6	3.6	5.0
Reverse Heating Btu	6400/6300	8500/8200	8500	11000/10800	11400	13600/13200
Heating Watts	530/520	710/685	710	930/920	1000	1180/1150
COP	3.55/3.54	3.51/3.51	3.51	3.47/3.44	3.34	3.38/3.36
Moisture Removal (pints/hr.)	0.7	1.2	1.6	2.1	3.2	3.0
Sensible Heat Ratio	87%	82%	82%	77%	72%	72%
ELECTRICAL DATA						
Voltage(1 PHASE, 60 Hz)	230/208	230/208	265	230/208	265	230/208
Volt Range	253-187	253-187	292-239	253-187	291-239	253-187
Current (Amps)	2.6/2.7	5.0	4.2	7.6	5.9	9.6
Reverse Heat. Amps	2.3/2.5	--	--	--	--	--
Power Factor	0.99	0.99	0.82	0.96	0.72	0.99
Compressor LRA	13	20	18.5	28.5	25.85	34.5
Compressor RLA	2.5/2.1	3.05/2.25	3.1	4.09/5.3	4.3	5.75/6.35
Outdoor Fan Motor, HP	0.07	0.07	0.07	0.07	0.07	0.09
AIRFLOW DATA						
Indoor CFM, HIGH	335	400	400	470	470	470
Indoor CFM, LOW	290	290	290	360	360	420
Vent CFM	75	75	75	75	75	75
PHYSICAL DATA						
Sleeve Dimensions (H x W x D)	16" x 42" x 13 3/4" (ALL MODELS)					
Dimensions with Front (H x W x D)	16" x 42" x 21 1/2" (ALL MODELS)					
Cut Out Dimensions (H x W x D)	16 1/4" x 42 1/4" (ALL MODELS)					
Net Weight (lbs.)	106	108	130	115	130	117
Shipping Weight (lbs.)	128	130	136	137	137	139
R-410 Charge (oz.)	29.98	32.1	31.4	30.7	30.0	34.2
Dimensions with Packaging (inches)	19" 3/4 x 43 1/2" x 23" (ALL MODELS)					

R-32 Refrigerant Heat Pumps

Model	PZH07K3SC	PZH07K2SC	PZH09K3SC	PZH09R3SC	PZH12K3SC	PZH12K5SC	PZH12R3SC	PZH15K3SC	PZH15K5SC
PERFORMANCE DATA									
Cooling Btu	7200/6800	7200/6800	9200/9000	9000	12000/11800	12000/11800	12000	14500/14300	14500/14300
Cooling Watts	605/570	605/570	805/790	780	1130/1110	1130/1110	1040	1450/1430	1450/1430
Energy Efficient Ratio, EER	11.9/11.9	11.9/11.9	11.4/11.4	11.5	10.6/10.6	10.6/10.6	11.5	10.0/10.0	10.0/10.0
Heater Size (kW)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.0	5.0
Reverse Heating Btu	6000/5800	6000/5800	8000/7800	8200	10400/10200	10400/10200	11700	13600/13200	13600/13200
Heating Watts	500/485	500/485	690/670	685	895/880	895/880	940	1245/1210	1245/1210
COP	3.5/3.5	3.5/3.5	3.4/3.4	TBD	3.4/3.4	3.4/3.4	3.65	3.2/3.2	3.2/3.2
Moisture Removal (pints/hr.)	0.3/0.36	TBD	1.37/1.69	1.1	2.32/2.56	TBD	2.81	TBD	4.29/4.4
Sensible Heat Ratio	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
ELECTRICAL DATA									
Voltage(1 PHASE, 60 Hz)	230/208	230/208	230/208	265	230/208	230/208	265	230/208	230/208
Volt Range	253-187	253-187	253-187	TBD	253-187	253-187	TBD	253-187	253-187
Current (Amps)	2.63/2.74	2.63/2.74	3.5/3.8	3.5	4.9/5.3	4.9/5.3	3.9	6.3/6.9	6.3/6.9
Reverse Heat. Amps	2.1/2.3	2.1/2.3	3.0/3.2	3.1	3.9/4.2	3.9/4.2	3.5	5.4/5.8	5.4/5.8
Power Factor	0.93/0.95	TBD	0.97/0.90	0.86	0.99/0.98	TBD	0.86	TBD	0.99/0.98
Compressor LRA	13.4	13.4	17.5	16.0	23.9	23.9	21.0	34.7	34.7
Compressor RLA	2.4	2.4	3.43	2.45	4.51	4.51	4.3	6.4	6.4
Outdoor Fan Motor, HP	0.07	0.07	0.07	TBD	0.07	TBD	TBD	TBD	0.09
AIRFLOW DATA									
Indoor CFM, HIGH	424	TBD	412	412	471	TBD	471	TBD	471
Indoor CFM, LOW	365	TBD	365	365	412	TBD	412	TBD	412
Vent CFM	75	75	75	75	75	75	75	75	75
PHYSICAL DATA									
Sleeve Dimensions (H x W x D)	16" x 42" x 13 3/4" (ALL MODELS)								
Dimensions with Front (H x W x D)	16" x 42" x 21 1/2" (ALL MODELS)								
Cut Out Dimensions (H x W x D)	16 1/4" x 42 1/4" (ALL MODELS)								
Net Weight (lbs.)	95.6	92.6	95	94	107	107	94	108	108
Shipping Weight (lbs.)	104	104	106	105	118	118	105	190	190
R-32 Charge (oz.)	17.6	17.6	18.7	19.0	21.5	21.5	22.2	27.5	27.5
Dimensions with Packaging (inches)	19" 3/4 x 43 1/2" x 23" (ALL MODELS)								

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FreshAire® PTAC models PVH09K, PVH09R

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