FRESHAIRE® AND ZONEAIRE®
Packaged Terminal Air Conditioners
Exceptional Line of PTACs

FRESHAIRE®
The most advanced PTAC ever, with a fully-integrated make-up air system that helps meet ASHRAE 62.1-2013 requirements

ZONEAIRE® PREMIER
Improved performance and design enhancements combine to deliver our most efficient, reliable, and quietest standard PTAC

ZONEAIRE® SELECT
A truly exceptional PTAC value line with reliable performance backed by an outstanding warranty
THE MOST ADVANCED PTAC EVER

FreshAire® PTAC delivers the best STC ratings* in the industry of units with true make-up air capability

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.

*With makeup air active (door open)

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 42x16 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.

9000 BTU MODEL
Can operate as low as 6462 Btus and as high as 12099 Btus.

12000 BTU MODEL
Can operate as low as 7929 Btus and as high as 17142 Btus.

That’s like getting multiple PTACs in one.
Innovative design and quality components deliver performance unmatched by any other PTAC.

The FreshAire® PTAC inverter compressor provides superior energy efficiency

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

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

Indoor and outdoor coils are coated with Diamonblue Advanced Corrosion Protection®

The FreshAire® PTAC inverter compressor provides superior energy efficiency

FRESHAIRE PTAC EXTENDED CAPACITY RANGE

<table>
<thead>
<tr>
<th>230/208V Inverter</th>
<th>265V Inverter</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COOLING</strong></td>
<td><strong>COOLING</strong></td>
</tr>
<tr>
<td>PVH09K</td>
<td>PVH09R</td>
</tr>
<tr>
<td>STANDARD RATING</td>
<td>STANDARD RATING</td>
</tr>
<tr>
<td>9600/9400 Btu</td>
<td>9600 Btu</td>
</tr>
<tr>
<td>EXTENDED RATING</td>
<td>6,462 - 12099 Btu</td>
</tr>
<tr>
<td>12000/11800 Btu</td>
<td>12000 Btu</td>
</tr>
<tr>
<td>Up to 12.9 EER</td>
<td>7,929 - 17142 Btu</td>
</tr>
<tr>
<td>Up to 15.0 Equivalent SEER</td>
<td>Up to 12.0 EER</td>
</tr>
<tr>
<td><strong>HEAT PUMP</strong></td>
<td><strong>HEAT PUMP</strong></td>
</tr>
<tr>
<td>PVH09K</td>
<td>PVH09R</td>
</tr>
<tr>
<td>STANDARD RATING</td>
<td>STANDARD RATING</td>
</tr>
<tr>
<td>8200/8500 Btu</td>
<td>8500 Btu</td>
</tr>
<tr>
<td>EXTENDED RATING</td>
<td>5606 - 11745 Btu</td>
</tr>
<tr>
<td>11600/11800 Btu</td>
<td>11800 Btu</td>
</tr>
<tr>
<td>Up to 11.57 Application HSPF</td>
<td>Up to 11800 Btu</td>
</tr>
<tr>
<td><strong>BACK UP ELECTRIC HEAT</strong></td>
<td><strong>BACK UP ELECTRIC HEAT</strong></td>
</tr>
<tr>
<td>2.5 kw, 3.5 kw and 5.0 kw heater options</td>
<td>2.5 kw, 3.5 kw and 5.0 kw heater options</td>
</tr>
<tr>
<td>*5.0 kw heater cannot be used on PV09K/PV09R</td>
<td></td>
</tr>
</tbody>
</table>

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 delivers best-in-class efficiencies and low sound levels.

FreshAire units 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

<table>
<thead>
<tr>
<th>TRADITIONAL PTAC</th>
<th>FRESHAIRE INVERTER PTAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>At initial start up, a fixed capacity system slowly reaches the set temperature.</td>
<td>FASTER TO SETPOINT At initial start up, utilizes variable capacity to quickly reach the set temperature.</td>
</tr>
<tr>
<td>Complete shutdown once set temperature is achieved.</td>
<td>MAXIMUM ENERGY SAVINGS Reduces capacity as set temperature is achieved.</td>
</tr>
<tr>
<td>Temperature within the space rises until 2nd system start up.</td>
<td>MAINTAINS PRECISE COMFORT Variable capacity maintains set temperature keeping space comfortable with reduced energy consumption.</td>
</tr>
<tr>
<td>System works at full capacity to again reach the set temperature.</td>
<td></td>
</tr>
<tr>
<td>System cycles on and off continually to maintain the set temperature.</td>
<td></td>
</tr>
</tbody>
</table>

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.

THE CURVES BELOW ILLUSTRATE THE DIFFERENT SOUND CHARACTERISTICS OF A SINGLE-SPEED PTAC VERSUS A FRESHAIRE MODEL PTAC.

Sound level decreases with 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.
**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 anti-microbial 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.

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**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 FreshAir 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]

**Anti-microbial 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.

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See warranty documentation for full details

* Energy management capability requires purchase of additional hardware and activation fee.
## PVH SERIES COOLING WITH HEAT PUMPS

<table>
<thead>
<tr>
<th>Model</th>
<th>PVH09K</th>
<th>PVH12K</th>
<th>PVH09R</th>
<th>PVH12R</th>
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</thead>
<tbody>
<tr>
<td>UPC</td>
<td>724587439212</td>
<td>724587439236</td>
<td>724587439229</td>
<td>724587439243</td>
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### PERFORMANCE DATA:

<table>
<thead>
<tr>
<th></th>
<th>PVH09K</th>
<th>PVH12K</th>
<th>PVH09R</th>
<th>PVH12R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling Capacity Blu</td>
<td>9600/9400</td>
<td>12000/11800</td>
<td>9600</td>
<td>12000</td>
</tr>
<tr>
<td>Cooling Capacity Min./Max Blu</td>
<td>6442-12099</td>
<td>7929-17142</td>
<td>6442-12099</td>
<td>7929-17142</td>
</tr>
<tr>
<td>Cooling Watts</td>
<td>790/775</td>
<td>1040/1025</td>
<td>800</td>
<td>1040</td>
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<tr>
<td>Energy Efficiency Ratio EER</td>
<td>12.1/12.1</td>
<td>11.5/11.5</td>
<td>12.0</td>
<td>11.5</td>
</tr>
<tr>
<td>Reverse Heating Capacity Blu</td>
<td>8200/8500</td>
<td>11600/11800</td>
<td>8500</td>
<td>11800</td>
</tr>
<tr>
<td>Reverse Heating Capacity Min./Max. Blu</td>
<td>5606-11475</td>
<td>6995-16187</td>
<td>5606-11475</td>
<td>6995-16187</td>
</tr>
<tr>
<td>Heating Watts</td>
<td>710/685</td>
<td>975/950</td>
<td>710</td>
<td>970</td>
</tr>
<tr>
<td>COP</td>
<td>3.51/3.51</td>
<td>3.57/3.58</td>
<td>3.51</td>
<td>3.57</td>
</tr>
<tr>
<td>Moisture Removal</td>
<td>1.4</td>
<td>1.9</td>
<td>1.23</td>
<td>2.43</td>
</tr>
<tr>
<td>Sensible Heat Ratio</td>
<td>80%</td>
<td>78%</td>
<td>82.7%</td>
<td>73.7%</td>
</tr>
</tbody>
</table>

### ELECTRICAL DATA:

<table>
<thead>
<tr>
<th></th>
<th>PVH09K</th>
<th>PVH12K</th>
<th>PVH09R</th>
<th>PVH12R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage (1 PHASE, 60 Hz)</td>
<td>230/208</td>
<td>230/208</td>
<td>265</td>
<td>265</td>
</tr>
<tr>
<td>Current Amps</td>
<td>4.4/4.5</td>
<td>4.5/5.0</td>
<td>3.8</td>
<td>4.7</td>
</tr>
<tr>
<td>Reverse Heat Amps</td>
<td>4.0/4.1</td>
<td>4.4/4.9</td>
<td>3.6</td>
<td>4.3</td>
</tr>
<tr>
<td>Power Factor</td>
<td>0.80</td>
<td>0.86</td>
<td>0.82</td>
<td>0.90</td>
</tr>
<tr>
<td>Compressor RLA</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Compressor RLA</td>
<td>3.2</td>
<td>4.1</td>
<td>4.2</td>
<td>6.2</td>
</tr>
<tr>
<td>Outdoor Fan Motor HP</td>
<td>1/14</td>
<td>1/12</td>
<td>1/14</td>
<td>1/12</td>
</tr>
</tbody>
</table>

### AIRFLOW DATA:

| Indoor CFM, HIGH    | 400 | 470 | 400 | 470 |
| Indoor CFM, LOW     | 250 | 360 | 290 | 360 |
| Make-up Air CFM @ 0.05”wc | 52  | 52  | 52  | 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.            | 115 | 120 | 115 | 120 |
| Shipping Weight Lbs.        | 137 | 142 | 137 | 142 |
| R-410A Charge Oz.           | 30.34 | 32.80 | 32.1 | 32.8 |

### 230/208V ELECTRIC HEATER RATING

<table>
<thead>
<tr>
<th>POWER CORD #</th>
<th>VOLTAGE</th>
<th>BRANCH CKT AMPS</th>
<th>MCA</th>
<th>WATTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PXPCFA23015A</td>
<td>230/208</td>
<td>15</td>
<td>13.9</td>
<td>2500</td>
</tr>
<tr>
<td>PXPCFA23020A</td>
<td>230/208</td>
<td>20</td>
<td>19.9</td>
<td>3600</td>
</tr>
<tr>
<td>PXPCFA23030A</td>
<td>230/208</td>
<td>30</td>
<td>27.5</td>
<td>5000</td>
</tr>
<tr>
<td>PXPCFA26515A</td>
<td>265V</td>
<td>15</td>
<td>12.0</td>
<td>2500</td>
</tr>
<tr>
<td>PXPCFA26515A1</td>
<td>265V</td>
<td>15</td>
<td>7.3</td>
<td>1500</td>
</tr>
<tr>
<td>PXPCFA26520</td>
<td>265V</td>
<td>20</td>
<td>16.8</td>
<td>3500</td>
</tr>
<tr>
<td>PXPCFA26530</td>
<td>265V</td>
<td>25</td>
<td>23.8</td>
<td>5000</td>
</tr>
</tbody>
</table>

### RECEPTACLES AND FUSE TYPES

#### Voltage 230V

<table>
<thead>
<tr>
<th>Amps</th>
<th>15</th>
<th>20</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heater Size</td>
<td>2.5 kW</td>
<td>3.5 kW</td>
<td>5.0 kW</td>
</tr>
<tr>
<td>Receptacles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NEMA# Receptacle</td>
<td>6-15R</td>
<td>6-20R</td>
<td>6-30R</td>
</tr>
<tr>
<td>NEMA# Plug</td>
<td>6-15P</td>
<td>6-20P</td>
<td>6-30P</td>
</tr>
</tbody>
</table>

#### Voltage 265V

<table>
<thead>
<tr>
<th>Amps</th>
<th>15</th>
<th>20</th>
<th>25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heater Size</td>
<td>1.5 kW</td>
<td>2.5 kW</td>
<td>3.5 kW</td>
</tr>
<tr>
<td>Receptacles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NEMA# Receptacle</td>
<td>7-15R</td>
<td>7-15R</td>
<td>7-20R</td>
</tr>
<tr>
<td>NEMA# Plug</td>
<td>7-15P</td>
<td>7-20P</td>
<td>7-30P</td>
</tr>
</tbody>
</table>

¹ Data for Model PVH09R

**PXPCFA23020A power cord comes standard on FreshAire® PTAC**

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.
THE QUIETEST* PTAC YOU CAN BUY

Improved performance and design enhancements combine to deliver our most efficient, reliable, and quietest standard PTAC

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 lowest sound levels
- Quietest standard PTAC available
- Quiet rotary compressor mounted on sound isolation grommets

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.

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

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

Indoor coil and outdoor curved coil are coated with Diamonblue Advanced Corrosion Protection®

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

Quiet, efficient rotary compressor mounted on large vibration isolators

Durable, powder coat paint finish

Easy-access, interchangeable antimicrobial air filters (2)

Easy to read and use digital controls

Large tangential fan provides smooth, powerful airflow

CAPACITY RANGE

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

| RECEPTACLES AND FUSE TYPES |
| Voltage | 230V | 245V |
| 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 |

ZONEAIRE® SERIES PTAC
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.
Even-heat monitoring checks room temperature and automatically adds heat boost if necessary.
Noise reduction technology with 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.
Anti-microbial 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.

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 farthest 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.
Anti-microbial 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.

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 [17-12k-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 wheel 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.
### PTAC Electric Heat models

<table>
<thead>
<tr>
<th>Model</th>
<th>PDE07K</th>
<th>PDE07R</th>
<th>PDE09K</th>
<th>PDE09R</th>
<th>PDE12K</th>
<th>PDE12R</th>
<th>PDE15K</th>
<th>PDE15R</th>
</tr>
</thead>
</table>

**PERFORMANCE DATA:**

- **Cooling Btu**
  - 7200/7000
  - 7200
  - 7200

- **Cooling Watts**
  - 550/555
  - 550
  - 775/760

- **Energy Efficiency Ratio, EER**
  - 13.0/13.0
  - 13.0
  - 12.1/12.1

- **Moisture Removal (pints/hr.)**
  - 1.7
  - 1.7

- **Sensible Heat Ratio**
  - 0.86

**ELECTRICAL DATA:**

- **Voltage 1 PHASE, 60 Hz**
  - 230/208
  - 7200

- **Volt Range**
  - 253-187
  - 7200

- **Power factor**
  - 0.97

- **Compressor LRA**
  - 13.0

- **Outdoor Fan Motor, HP**
  - 0.080

**AIRFLOW DATA:**

- **Indoor CFM, HIGH**
  - 345/315

- **Indoor CFM, LOW**
  - 270/255

- **Vent CFM**
  - 75

**PHYSICAL DATA:**

- **Sleeve Dimensions (H x W x D)**
  - 16” x 42” x 13 3/4” [all models]

### PTAC Heat Pump models

<table>
<thead>
<tr>
<th>Model</th>
<th>PDH07K</th>
<th>PDH07R</th>
<th>PDH09K</th>
<th>PDH09R</th>
<th>PDH12K</th>
<th>PDH12R</th>
<th>PDH15K</th>
<th>PDH15R</th>
</tr>
</thead>
</table>

**PERFORMANCE DATA:**

- **Cooling Btu**
  - 7200/7000
  - 7200

- **Cooling Watts**
  - 550/535
  - 550

- **Energy Efficient Ratio, EER**
  - 13.0/13.0

- **Reverse Heating Btu**
  - 6000/5600

- **Heating Watts**
  - 485/470

- **COP**
  - 3.6/3.6

- **Moisture Removal (pints/hr.)**
  - 1.7

- **SENSIBLE HEAT RATIO**
  - 0.86

**ELECTRICAL DATA:**

- **Voltage 1 PHASE, 60 Hz**
  - 230/208

- ** Volt Range**
  - 253-187

- **Power factor**
  - 0.97

- **Compressor LRA**
  - 13.0

- **Outdoor Fan Motor, HP**
  - 0.080

**AIRFLOW DATA:**

- **Indoor CFM, HIGH**
  - 345/315

- **Indoor CFM, LOW**
  - 270/255

- **VENT CFM**
  - 75

**PHYSICAL DATA:**

- **Sleeve Dimensions (H x W x D)**
  - 16” x 42” x 13 3/4” [all models]

---

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.
EXCELLENT EFFICIENCY & OUTSTANDING QUALITY

A truly exceptional PTAC value line with reliable performance backed by an outstanding warranty

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 antimicrobial air filters
- Quiet, efficient rotary compressor mounted on large vibration isolators

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.
- **Easy access anti-microbial filters** simplify maintenance and extend the life of the product.
- **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.
- **DiamonBlue Advanced Corrosion Protection®** comes standard on all PTACs for long life in harsh coastal environments.

**IMPORTANT NOTE:**
Sleeves are sold and shipped separately to accommodate new construction and replacement requirements.
Fits standard 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 FreshAir 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.
Anti-microbial 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.

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.

See warranty documentation for full details.

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

Diamonblue Advanced Corrosion Protection® on indoor and outdoor coils for added protection against rust in coastal areas

Receptacles and Fuse Types
<table>
<thead>
<tr>
<th>Voltage</th>
<th>Amps</th>
<th>Heater Size</th>
<th>Receptacles</th>
<th>NEMA# Receptacle</th>
<th>NEMA# Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>230V</td>
<td>20</td>
<td>3.6 kW</td>
<td>6-20R</td>
<td>6-20P</td>
<td>6-20P</td>
</tr>
<tr>
<td></td>
<td>30</td>
<td>5.0 kW</td>
<td>6-30R</td>
<td>6-30P</td>
<td>6-30P</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>3.6 kW</td>
<td>7-20R</td>
<td>7-20R</td>
<td>7-20P</td>
</tr>
</tbody>
</table>

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

DEEP WALL SLEEVES
PDXWSEXT18   PDXWSEXT24
For walls up to 17 1/2" deep.  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.

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.

FRIEDRICHLINK® ENERGY MANAGEMENT THERMOSTATS
VRPXEMRT2  VRPXEMWRT2 [FRESHAIRE CONTROLLERS]
VRPXEMRT2 wired wall controller, and VRPXEMWRT2 wireless controller with occupancy sensor designed for VRP and FreshAire PTAC control. Built-in RH control to maximize VRP and 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
Wired thermostat with occupancy sensor.
EMOCT
Online connection kit for Energy Management
EMRAF
Remote access fee.
EMRHCF
Remote humidity control fee.

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.

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.
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.

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.

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 subbase also includes electrical knockouts for power disconnect switch or circuit breaker.

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

<table>
<thead>
<tr>
<th>ZONEAIRE PREMIER</th>
<th>FRESHAIRE</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>PXPC23015A</td>
<td>PXPCFA23015</td>
<td>LCDI 230V 15A Cord - 2.5 kW</td>
</tr>
<tr>
<td>PXPC23020A</td>
<td>PXPCFA23020</td>
<td>LCDI 230V 20A Cord - 3.5 kW</td>
</tr>
<tr>
<td>PXPC23030A</td>
<td>PXPCFA23030</td>
<td>LCDI 230V 30A Cord - 5.0 kW</td>
</tr>
<tr>
<td>PXPC26515A</td>
<td>PXPCFA26515</td>
<td>Non-LCDI 265V 15A Cord - 2.5 kW</td>
</tr>
<tr>
<td>PXPC26520A</td>
<td>PXPCFA26520</td>
<td>Non-LCDI 265V 20A Cord - 3.5 kW</td>
</tr>
<tr>
<td>PXPC26530</td>
<td>PXPCFA26530</td>
<td>Non-LCDI 265V 30A Cord - 5.0 kW</td>
</tr>
</tbody>
</table>

ZONEAIRE PREMIER OR FRESHAIRE MODELS
10 pack. Each PTAC requires 2 filters.

ZONEAIRE SELECT AND FRESHAIRE MODELS
Antimicrobial air filters. 10 pack. Each PTAC requires 1 filter.

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

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.

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.

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
Friedrich PTAC with FreshAire® IAQ

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

Award-winning FreshAire MUA 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 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.

Standard on FreshAire PTAC

FRESHAIRE® PURIFIER  APWM1

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

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.
Save big on energy without compromising guest comfort

FriedrichLink® thermostats are the advanced energy management solution 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.

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.

*Requires an optional "Online Connection Kit" and a one-time license fee.
## LINKS TO INSTALLATION/OPERATION MANUALS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>FRESHAIRE® PTAC</td>
<td></td>
</tr>
<tr>
<td>ZONEAIRE® PREMIER</td>
<td></td>
</tr>
<tr>
<td>ZONEAIRE® SELECT</td>
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<tr>
<td>RT7 Thermostat</td>
<td></td>
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<tr>
<td>RT7P Thermostat</td>
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<tr>
<td>WRT2 Thermostat</td>
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</tr>
</tbody>
</table>

## LINK TO CASE STUDY

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<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>FRESHAIRE® PTAC - ENEREF INSTITUTE</td>
<td></td>
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</table>