

# ZoneAire® | FreshAire®

## Packaged Terminal Air Conditioners

3 LINES OF PTAC TO MEET  
YOUR NEW CONSTRUCTION OR  
REPLACEMENT UNIT NEEDS

### ZONEAIRE® SELECT

Excellent energy efficiency and reliable performance backed by an outstanding warranty.

### ZONEAIRE® PREMIER

Our most efficient standard PTAC with reliable performance and leading warranty for the lowest cost of operation.

### FRESH Aire®

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



**FRIEDRICH**

1 8 8 3

THE EXPERTS IN ROOM AIR CONDITIONING

# ZoneAire® Select

## Packaged Terminal Air Conditioners

Reliable performance and low sound begins with durable materials and the highest quality components

### 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.

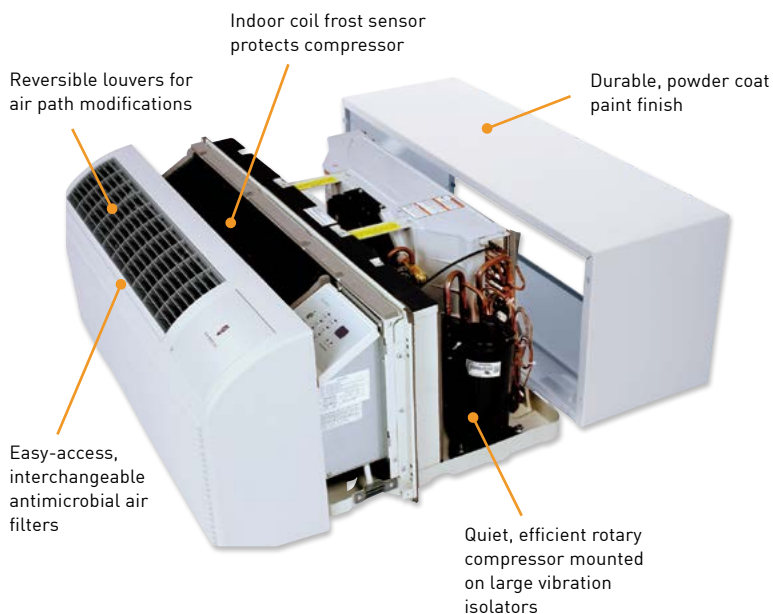
**Break proof control door design** maintains the integrity of the unit.

**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.



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



#### 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.

## Comfort, Health & IAQ

**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



Large tangential fan provides optimum airflow

Receptacles and Fuse Types			
Voltage	230V		265V
Amps	20	30	20
Heater Size	3.6 kW	5.0 kW	3.6 kW
Receptacles			
NEMA# Receptacle	6-20R	6-30R	7-20R
NEMA# Plug	6-20P	6-30P	7-20P

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

# ZONEAIRE® SELECT SPECIFICATIONS

## PZE Series with Electric Heat

Model	PZE07K3SB	PZE09K3SB	PZE09R3SB	PZE12K3SB	PZE12R3SB	PZE15K5SB
<b>PERFORMANCE DATA:</b>						
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	0.87	0.82	0.82	0.77	0.72	0.72
<b>ELECTRICAL DATA:</b>						
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	3.5/3.8	4.2	4.5/5.0	5.92	6.2/6.7
Power Factor	0.99	0.99	0.99	0.96	0.99	0.99
Compressor LRA	13.0	20.0	18.2	28.5	25.9	34.5
Compressor RLA	2.5	3.3	3.0	5.3	4.3	6.4
Outdoor Fan Motor, HP	0.07	0.07	0.1	0.07	0.1	0.09
<b>AIRFLOW DATA:</b>						
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
<b>PHYSICAL DATA:</b>						
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.)	104	108	113	113	115	115
Shipping Weight (lbs.)	126	130	136	135	137	137
R-410A 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)					

## PZH Series Heat Pump

Model	PZH07K3SB	PZH09K3SB	PZH09R3SB	PZH12K3SB	PZH12R3SB	PZH15K5SB
<b>PERFORMANCE DATA:</b>						
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
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	0.87	0.82	0.82	0.77	0.72	0.72
<b>ELECTRICAL DATA:</b>						
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	3.5/3.8	4.2	4.5/5.0	5.9	6.2/6.7
Reverse Heat. Amps	2.3/2.5	3.0/3.3	2.7	4.0/4.4	3.8	5.1/5.5
Power Factor	0.99	0.99	0.99	0.96	0.99	0.99
Compressor LRA	13.0	20.0	18.2	28.5	25.9	34.5
Compressor RLA	2.5	3.3	3.1	5.3	4.3	6.4
Outdoor Fan Motor, HP	0.07	0.07	0.1	0.07	0.1	0.09
<b>AIRFLOW DATA:</b>						
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
<b>PHYSICAL DATA:</b>						
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.)	105	109	113	114	115	116
Shipping Weight (lbs.)	127	131	136	136	137	139
R-410A 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)					

Operating range 0°-115°F.

Due to continuing research in new energy-saving technology, specifications are subject to change without notice.

Five-year warranty limited to installations in the United States, Puerto Rico, Mexico and Canada only.

See warranty documentation for full details.





# ZoneAire® Premier

## Packaged Terminal Air Conditioners

Improved performance and design enhancements combine to deliver our most efficient and reliable 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

---

### 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
- **Thick 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.



Friedrich reliability is backed by an industry-leading 2-year parts and labor and 5-year limited warranty.



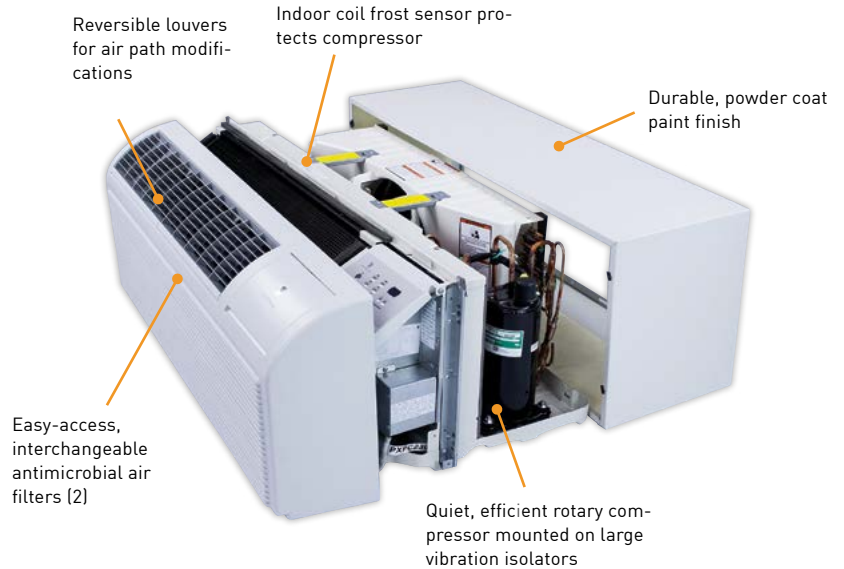
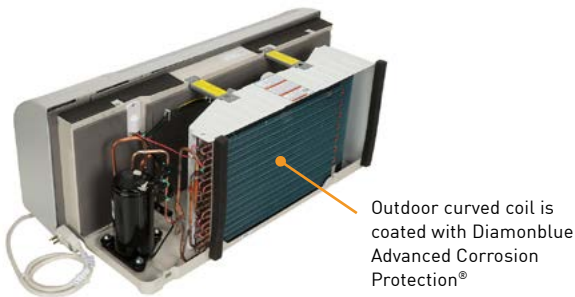
See warranty documentation for full details.

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

### 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.



Easy to read and use digital controls



DiamonBlue Advanced Corrosion Protection® comes standard on all PTACs for long life in harsh coastal environments.



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



### CAPACITY RANGE

#### Electric Heat

##### COOLING

7000-15000 Btu  
EERs up to 13.0

##### ELECTRIC HEAT

8300-17000 Btu  
EERs up to 13.0

#### Heat Pump

##### COOLING

7000-15000 Btu  
EERs up to 13.0

##### REVERSE HEATING

6000-13300 Btu  
Up to 3.6 COP

##### AUXILIARY ELECTRIC HEAT

8300-17000 Btu

Receptacles and Fuse Types						
Voltage	230V			265V		
	15	20	30	15	20	30
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® 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.

---

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

### 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.

---

### Comfort, Health & IAQ

**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.

**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 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.

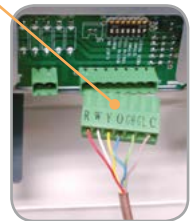
**Standard heat output power cord** comes attached to the unit.

**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.**



# ZONEAIRE® PREMIER SPECIFICATIONS

## PTAC Electric Heat models

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

	PDE07K	PDE07R	PDE09K	PDE09R	PDE12K	PDE12R	PDE15K	PDE15R
<b>PERFORMANCE DATA:</b>								
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 Efficiency 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
Moisture Removal [pints/hr.]	1.7	1.7	2.1	2.1	2.7	2.7	3.1	3.1
Sensible Heat Ratio	0.86	0.86	0.85	0.85	0.75	0.75	0.67	0.67
<b>ELECTRICAL DATA:</b>								
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
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
<b>AIRFLOW DATA:</b>								
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
<b>PHYSICAL DATA:</b>								
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	107	115	115	119	118	121	121
Shipping Weight (lbs.)	126	127	135	135	139	138	140	140
R-410A CHARGE (oz.)	23	23	24	24	36	36	36	36
Dimensions with Packaging (inches)	17 7/8" x 45" x 25 1/4" (all models)							

## PTAC Heat Pump models

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

	PDH07K	PDH07R	PDH09K	PDH09R	PDH12K	PDH12R	PDH15K	PDH15R
<b>PERFORMANCE DATA:</b>								
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
Reverse Heating Btu	6000/5800	6000	8300/8100	8300	10600/10400	10600	13300/13000	13300
Heating Watts	485/470	485	695/675	695	910/895	910	1255/1225	1255
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	0.86	0.86	0.85	0.85	0.75	0.75	0.67	0.67
<b>ELECTRICAL DATA:</b>								
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
<b>AIRFLOW DATA:</b>								
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
<b>PHYSICAL DATA:</b>								
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.)	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)	17 7/8" x 45" x 25 1/4" (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.







## Packaged Terminal Heat Pumps

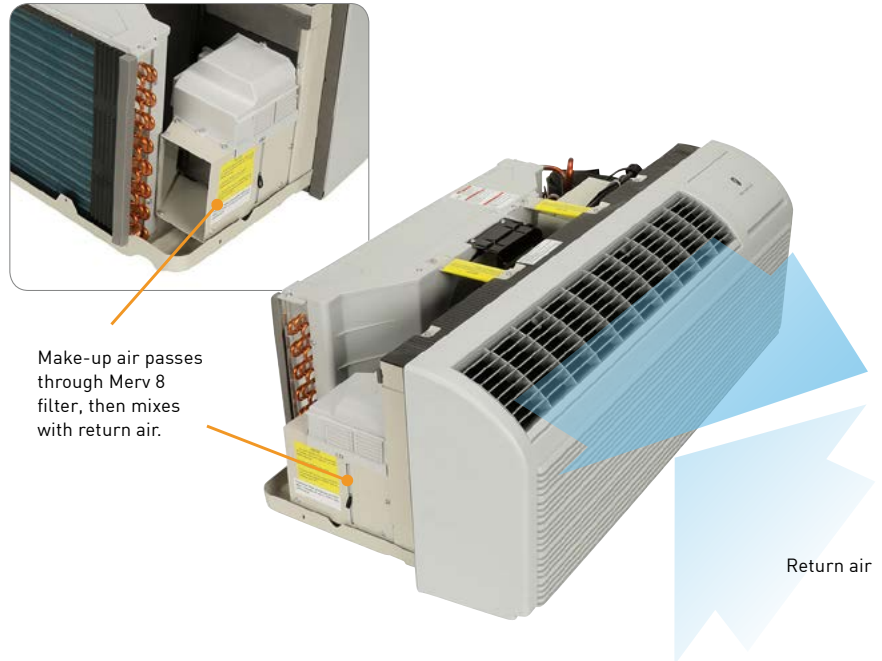
The most advanced PTAC ever. Delivers the best STC ratings\* in the industry of units with true make-up air capability.

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

Patents-pending 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 FreshAir 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)

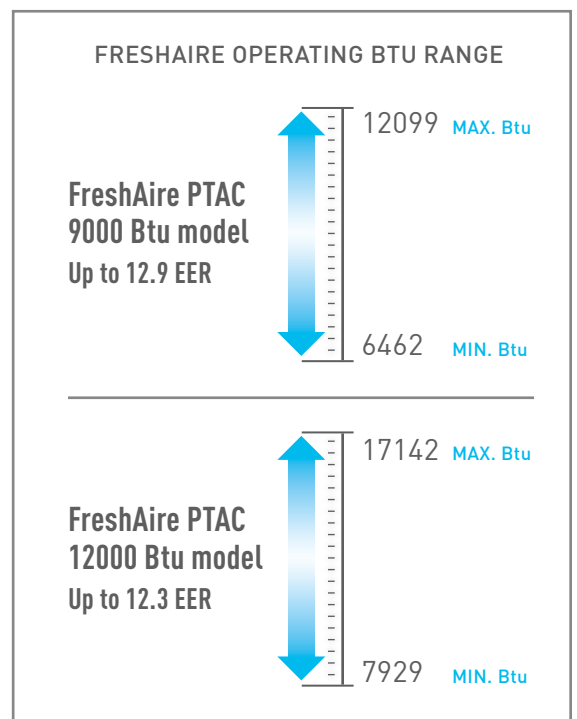
## The widest cooling & heating range in the industry with only two models

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.

- The **9000 Btu MODEL** can operate as low as 6462 Btus and as high as 12099 Btus.
- The **12000 Btu MODEL** can operate as low as 7929 Btus and as high as 17142 Btus.

That's like getting multiple PTACs in one.



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.

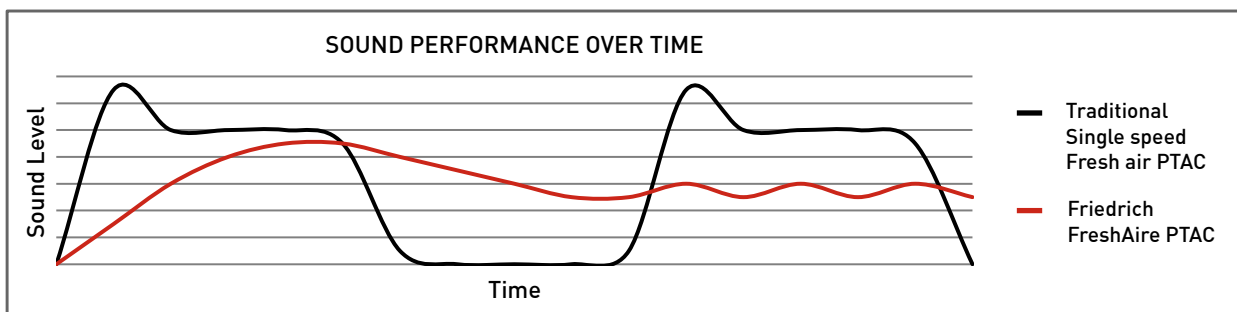
- Improved dehumidification
- Quieter start-up and operation
- Better efficiency during part load hours of cooling & heating
- Reduced temperature swings improve guest comfort

TRADITIONAL PTAC	FRESH Aire INVERTER PTAC
At initial start up, a fixed capacity system slowly reaches the set temperature.	<b>FASTER TO SETPOINT</b> At initial start up, utilizes variable capacity to quickly reach the set temperature.
Complete shutdown once set temperature is achieved.	<b>MAXIMUM ENERGY SAVINGS</b> 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.	<b>MAINTAINS PRECISE COMFORT</b> 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.

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



# Innovative design and quality components deliver unmatched performance

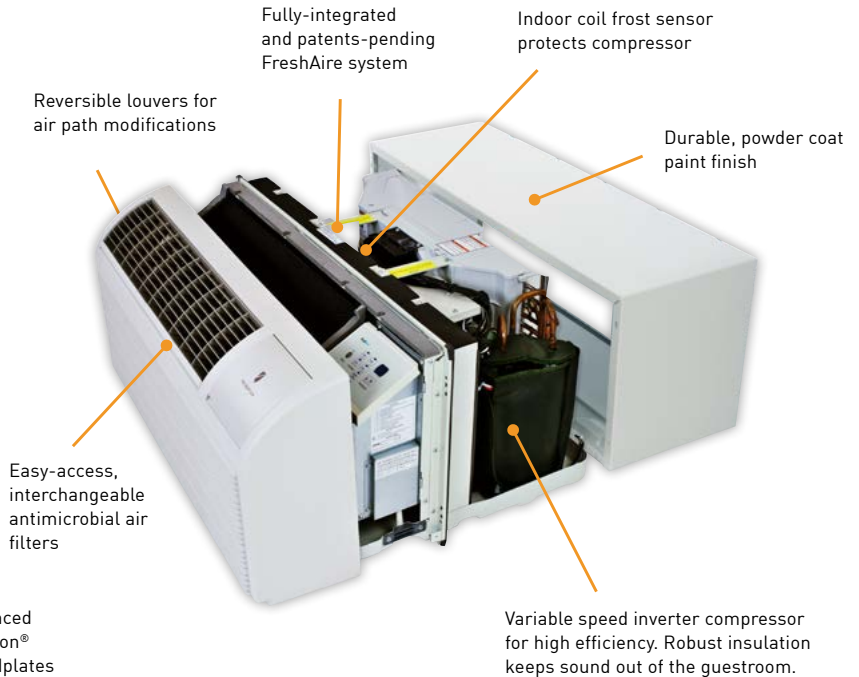
## The FreshAire PTAC inverter compressor provides superior energy efficiency

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.



Outdoor coil has Diamonblue Advanced Corrosion Protection® and aluminum endplates



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.



### FRESH Aire EXTENDED CAPACITY RANGE

#### 230/208V Fresh Air 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 Fresh Air 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

## FRESH Aire® FEATURES

---

### FreshAir System

**Dedicated fan** delivers 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.

**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.

NOTE: Coastal region installation not recommended within 2 miles of a body of salt water. Due to the high salt content of coastal air and the high latent load it is not recommended to bring the room make up air through any PTAC unit. Doing so may cause rapid corrosion of interior furnishings and hardware.

  
**DIAMONBLUE**  
Advanced Corrosion Protection®



### 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.

### 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.

**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.



See warranty documentation for full details

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

# FRESHAIRE® SPECIFICATIONS

## PVH Series Cooling with Heat Pumps








Model		PVH09K	PVH12K	PVH09R	PVH12R
<b>PERFORMANCE DATA:</b>					
Cooling Capacity	Btu	9600/9400	12000/11800	9600	12000
Cooling Capacity Min./Max	Btu	6462-12099	7929-17142	6462-12099	7929-17142
Cooling Watts		790/775	1040/1025	800	1040
Energy Efficiency Ratio	EER	12.1/12.1	11.5/11.5	12.0	11.5
Reverse Heating Capacity	Btu	8200/8500	11600/11800	8500	11800
Reverse Heating Capacity Min./Max.	Btu	5606-11475	6995-16187	5606-11475	6995-16187
Heating Watts		710/685	970/950	710	970
COP		3.51/3.51	3.57/3.58	3.51	3.57
Moisture Removal	Pts./Hr.	1.4	1.9	1.23	2.43
Sensible Heat Ratio		80%	78%	82.7%	73.7%
<b>ELECTRICAL DATA:</b>					
Voltage [1 PHASE, 60 Hz]		230/208	230/208	265	265
Volt Range		253-187	253-187	292-239	292-239
Current	Amps	4.4/4.5	4.5/5.0	3.8	4.7
Reverse Heat	Amps	4.0/4.1	4.6/4.9	3.6	4.3
Power Factor		0.80	0.96	0.82	0.90
Compressor LRA		N/A	N/A	N/A	N/A
Compressor RLA		3.2	4.1	4.2	6.2
Outdoor Fan Motor	HP	1/14	1/12	1/14	1/12
<b>AIRFLOW DATA:</b>					
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
<b>PHYSICAL DATA:</b>					
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**  
(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 <sup>1</sup>	265V	15	7.3	1500
PXPCFA26520	265V	20	16.8	3500
PXPCFA26530	265V	25	23.8	5000

<sup>1</sup> Data for Model PVH09R  
PXPCFA23020A comes standard on PTAC

### Receptacles and Fuse Types

Voltage	230V			265V			
	15	20	30	15	15	20	25
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.





## FRIEDRICH PTAC OPTIONAL ACCESSORIES

### 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



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

### SLEEVE EXTENSION RETROFIT KIT PXSE

2 1/4" sleeve extension attached to the room side of the sleeve to allow for the installation of a PD-series Friedrich PTAC in an 11 1/2" deep T-series sleeve.



PXSE

### INTELLIGENT WALL CONTROLLER\* (FRESH-AIRE MODELS)

#### PFAXWC1

Wired, wall-mounted, 12v controller, non-programmable

#### EMRT2 12v

Wired thermostat with occupancy sensor. Built-in RH control to maximize FreshAir capabilities. Used with EMOCT for HVAC energy management

#### EMWRT2

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



PFAXWC1



RT7

### 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



WRT2



### FRIEDRICHLINK® ENERGY MANAGEMENT THERMOSTATS

#### EMRT2

Wired thermostat with occupancy sensor.

#### EMWRT2

Wireless thermostat with occupancy sensor.

#### EMOCT

Online connection kit for Energy Management

#### EMRAF

Remote access fee.

#### EMRHCF

Remote humidity control fee.



EMRT2, EMWRT2



EMOCT

### REMOTE THERMOSTAT ESCUTCHEON KIT PDXRTB

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.



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.



PXCJA

### SUBBASE DISCONNECT SWITCH

#### PXDS



PXDS

# FRIEDRICH PTAC OPTIONAL ACCESSORIES

## STANDARD GRILLE PXGA

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



PXGA

## 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.



PXAA

## 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.



PXSBA

## 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



PXSB

## POWER CORDS

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

ZONEAIRE PREMIER	FRESH Aire		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.

## PXFTA (ZONEAIRE SERIES), PXFTB (ZONEAIRE AND FRESH Aire MODELS)

Antimicrobial air filters. 10 pack. Each PTAC requires 2 filters.



PXFTA, PXFTB

## PXFAFT10 (FRESH Aire MODELS)

Replacement Merv 8 filters. 10 pack. Each PTAC requires 1 filter.



PXFAFT10

## 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.



PXDR10

## 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.



PDXDAA and PDXDEA ship together

## 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.

\*NOTE: The FreshAire PTAC must be paired with wall controller PFAXWC1 to operate as a fully variable speed unit. When used with other compatible thermostats, the unit will operate at multiple speeds in either cooling or heating mode.

# Save big on energy without compromising guest comfort with FriedrichLink® thermostats, the advanced energy management solution for Friedrich ZoneAire® and FreshAire™ 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** and **EMWRT2** 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. Optional Humidity Control Feature available through Remote Management. See accessories on opposite page.

## 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.

**Set point 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®**

*FriedrichLink® For Lodging*



Friedrich Air Conditioning Co. | 10001 Reunion Place, Suite 500 | San Antonio, TX 78216 | 877.599.5665 [www.friedrich.com](http://www.friedrich.com)