



**FRIEDRICH**

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New SG Series

# PACKAGED TERMINAL AIR CONDITIONERS

Efficient & Reliable  
for the Lowest Cost of Ownership



THE EXPERTS IN ROOM AIR CONDITIONING



More  
Efficient  
More  
Reliable  
Greater  
Guest Comfort



“We did quite a lot of research before we picked Friedrich. We visited several installations and talked with the maintenance people. We asked about reliability, noise, accessibility of spare parts in rural locations, ease of maintenance and Friedrich came out on top.”

The new Friedrich PTAC SG Series offers the durability and efficiencies you’ve come to expect from Friedrich, and more. Improved performance and design enhancements combine to deliver our most efficient and reliable PTAC yet.

All backed by an industry-leading 2-year parts and labor warranty, and 5-year limited warranty.



### New design for higher energy efficiency

The advanced coil design of the SG Series maximizes the internal surface area to deliver higher efficiencies providing EERs of up to 13.0.

### Dependable performance you can count on

It begins with the highest quality materials and components brought together with durable construction and rigorous testing. Friedrich PTACs are built to deliver years of reliable performance.

### Engineered for maximum guest comfort

Quiet, yet powerful airflow quickly reaches all corners of the room. The two motor design and thick insulation on the inner walls reduce the indoor sound levels.

Guests can select the Constant Fan mode, which 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.

The tangential blower wheel creates a wide path air flow that reaches the furthest corner of the guest room.



### A complete line of PTACs—

- Air conditioners and heat pumps
- 7,000 to 15,000 Btus
- All capacities have multiple heater options
- 230 and 265 volt.



PTAC  
*Electric Heat*  
COOLING  
7000-14500 Btu  
**Up to 13.0 EER**  
ELECTRIC HEAT  
6800-17000 Btu

PTAC  
*Heat Pump*  
COOLING  
7000-14500 Btu  
**Up to 13.0 EER**  
HEATING  
5800-13300 Btu  
**Up to 3.6 COP**

Advanced corrosion protection for long life in harsh coastal environments.

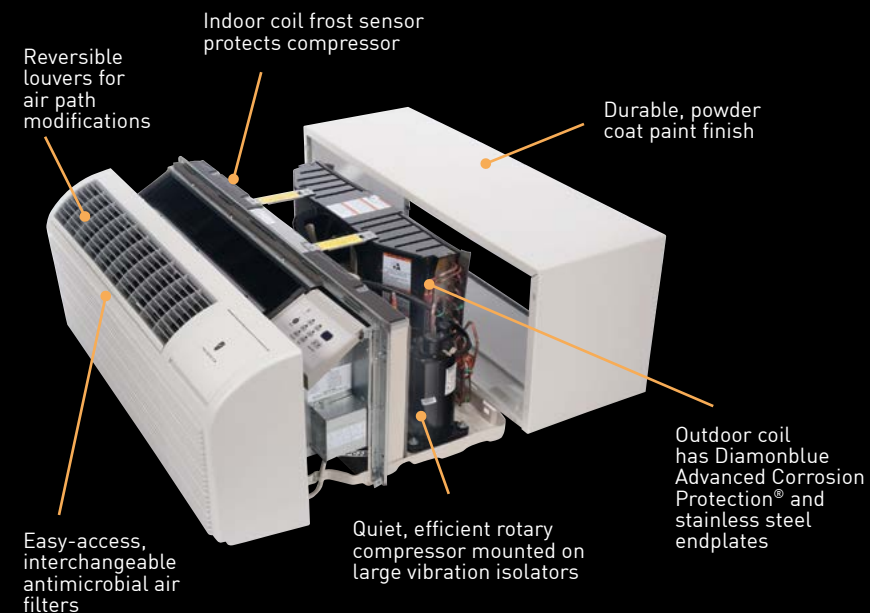
**DIAMONBLUE**  
Advanced Corrosion Protection



Protects the outdoor coil against deterioration and extends the life of the unit especially in harsh coastal environments.

PDXWSA WALL SLEEVE DIMENSIONS:  
16" H x 42" W x 13 3/4" D  
FRONT COVER DIMENSIONS:  
16" H x 42" W x 7 3/4" D  
CUT OUT DIMENSIONS:  
16 1/4" H x 42 1/4" W

## Modular design for easy access to key components



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

**2 YR.**  
WARRANTY  
PARTS AND LABOR

**5 YR.**  
LIMITED WARRANTY

See warranty documentation for full details.



Voltage	RECEPTACLES AND FUSE TYPES					
	230V			265V		
Amps	15	20	30	15	20	30
Heater Size	0, 2.0 kW	3.0 kW	5.0 kW	2.0 kW	3.0 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

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.

## 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 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 anti-microbial 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 Technology comes standard on all PTAC units** and protects the outdoor coil from harsh environments.

**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 PTACs

**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.

### 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 constant 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 heat pump mode** 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** every nine minutes to ensure desired conditions are maintained.

**Reversible indoor air louvers** to easily change direction of airflow.

### Ease of Maintenance & Installation

**Ease of SKU creation** as universal heaters with heat capacities are determined by the power cords; can achieve up to 40 PTAC SKUs with 16 units by changing the power cord size.

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

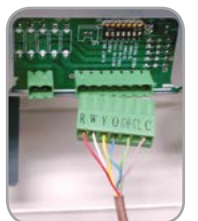
**Remote thermostat pop-out wiring module** allows easier wiring and unit change out without rewiring thermostat.

**Compact front is designed to preserve indoor floor space** with a depth of 7 3/4 inches.

**Faultless Sure-hold 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.

**May be installed flush** with the floor.



### 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.

## OPTIONAL ACCESSORIES

### WALL SLEEVE PDXWSA

Galvanized steel is prepared in a state-of-the-art, multistep 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. 16" H x 42" W x 13 3/4" D



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 a 11 1/2" deep T-series sleeve.

### 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 for walls from 13 1/4" to 25 1/2" deep are available by special order.

### DIGITAL REMOTE THERMOSTAT RT6

Single stage cool, single stage heat for PDE models or single stage cool, dual stage heat for PDH model thermostat features high/low fan speed switch. Thermostat is hard wired and can be battery powered or unit powered. Features backlit display and multiple configuration modes.



RT6



WRT1

### WRT1

Wireless, single stage, wall-mounted digital thermostat with two fan speeds. Features backlit display and multiple configuration modes.



EMRT1, EMWRT1



EMOCT

### FRIEDRICHLINK® ENERGY MANAGEMENT THERMOSTATS

#### EMRT1

Wired thermostat with occupancy sensor.

#### EMWRT1

Wireless thermostat with occupancy sensor.

#### EMOCT

Online connection kit.

#### EMRAF

Remote access fee.

### REMOTE THERMOSTAT ESCUTCHEON KIT PDXRTA

Kit contains escutcheons that can be placed over the factory control buttons when a remote wall mounted thermostat is used. 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.

Save big on energy without compromising guest comfort.



EMRT1, EMWRT1

Friedrich's EMRT1 and EMWRT1 thermostats use real-time occupancy detection to save energy.

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

Remotely monitor energy use and evaluate the performance of energy saving features.



## Introducing the new energy management solution for Friedrich PTAC

### Real Time 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 comprehensive 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.

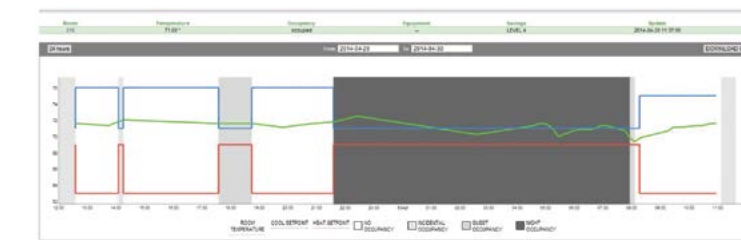
### Comprehensive Remote Management\*

Web-based remote management provides a comprehensive solution 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.

\*Requires an optional "Online Connection Kit" and a one-time license fee. See accessories page 6.

### MONITOR ROOM STATUS AND SEE ENERGY REPORTS



## 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.

## OPTIONAL ACCESSORIES

### STANDARD GRILLE PXGA

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

### ARCHITECTURAL GRILLES

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

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

### DECORATIVE SUBBASE (black) PXSPA

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 sub-base also includes electrical knockouts for a 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

### POWER CORDS

PXPC23015A	LCDI 230V 15A Cord - 2.5 kW	Length 6 ft.
PXPC23020A	LCDI 230V 20A Cord - 3.5 kW	6 ft.
PXPC23030	LCDI 230V 30A Cord - 5.0 kW	6 ft.
PXPC26515A	Non-LCDI 265V 15A Cord - 2.5 kW	18 in.
PXPC26520A	Non-LCDI 265V 20A Cord - 3.5 kW	18 in.
PXPC26530	Non-LCDI 265V 30A Cord - 5.0 kW	18 in.

### PXFTA

Antimicrobial air filters. 10 pack.

### 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 3.5" 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 3.5" H x 7" W x 47" L plenum for use with the LATERAL DUCT ADAPTER. A maximum of three duct extensions total may be used. Note: Ducted airflow is reduced as duct length is increased.



PXAA



PDXDAA and PDXDEA ship together

## PTAC Electric Heat models

	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

	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 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
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.



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