

# THE EXPERTS IN ROOM AIR CONDITIONING



**FRIEDRICH**  
1883

AIR CONDITIONERS  
HEAT PUMPS  
ELECTRIC HEAT



Soft touch digital controls  
with 3 speed fan

NEW 2 YEAR\* FULL WARRANTY PLUS  
5 YEAR LIMITED WARRANTY

[www.friedrich.com](http://www.friedrich.com)



PREFERRED  
BY TOP  
HOTEL  
CHAINS

FRIEDRICH PTACs ARE  
PREFERRED BECAUSE THEY  
ARE QUIET, RELIABLE AND  
ENERGY EFFICIENT.

“We actually did quite a lot of research before we picked Friedrich. We visited several installations in cold climates and talked with the maintenance people.

We asked about reliability, noise, accessibility of spare parts in rural locations, ease of maintenance, etc., and Friedrich came out on top.”

Steve Gardner  
Associate VTBS Architects  
Denver, Colorado

# QUIET WITH POWERFUL AIR FLOW.

## And outstanding efficiency

Friedrich PTACs are designed for quiet operation with maximum comfort and dependable performance.



## FRIEDRICH ENGINEERED FOR QUIETER PERFORMANCE.

**Large, tangential fan generates powerful, quiet airflow.**

Friedrich has a one-tier model line up, so you'll find more premium features standard on each and every Friedrich PTAC.

### Improved air distribution for better comfort

Tangential blower wheel has nearly 5x the surface area of a typical fan used on other PTACs. The result is more uniform airflow over a wider path for faster, more even air distribution throughout the room and improved sound levels.

Air is blown over the entire length of the tangential wheel into the room in a uniform laminar airflow.

### Ultra quiet, two motor design

With separate indoor and outdoor motors, the indoor motor can run at slower speeds which reduces sound levels indoors.

**PTAC  
Electric Heat**  
COOLING  
7700-15000 Btu  
**Up to 12.2 EER**

ELECTRIC HEAT  
6800-17000 Btu

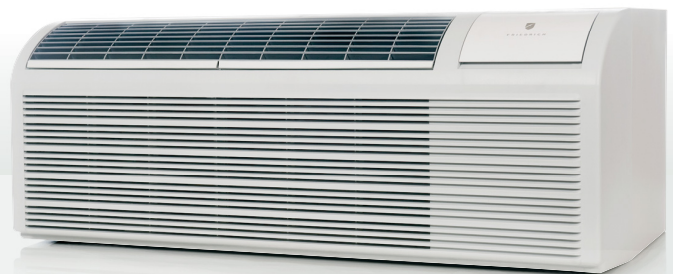
**PTAC  
Heat Pump**  
COOLING  
7700-14500 Btu  
**Up to 12.2 EER**

HEATING  
6300-13300 Btu



## NEW

WRT1  
Wireless thermostat  
for simpler, flexible  
placement



# RELIABILITY BEGINS WITH DURABLE MATERIALS AND THE HIGHEST QUALITY COMPONENTS.

- Steel base pan and sleeve that are powder-coat painted to resist rust and corrosion
- Outdoor coil end plates are stainless steel to resist rust and corrosion (other PTACs use lower grade steel)
- Every PTAC unit is run-tested at the factory to reduce problems in the field
- 14 numeric service error codes stored in memory facilitate rapid unit diagnostics
- Easy access, long-life filters simplify maintenance that extends 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 grille and durable front panel with break-proof control door design
- Indoor coil frost sensor protects the compressor to lengthen the life of the unit
- 2 year full warranty on parts and labor; 5 year limited warranty\*
- Backed by a nationwide service network, and U.S.-based Friedrich expert technical team

# ENERGY EFFICIENT AND ENERGY SMART PTACs

- Super efficient refrigeration design with EERs up to 12.2; COPs up to 3.4
- All units are available in energy efficient heat pump models
- Electronic defrost control ensures more run time in efficient heat pump mode
- Ability to adjust low/high temperature range limits for reduced energy usage
- Thicker steel inner-wall and foam construction decreases thermal transfer and energy loss
- Condensate removal system uses slinger ring technology to cool the coil and increase efficiency
- Desk control ready allowing hotel owners to control units from a central location

## Modular design for easy access to key components



### UNIVERSAL HEATER POWER CORD

Connect as easily as a phone jack. PTAC units ship complete with the standard power cord for that model (7K, 9K and 12K = 3.0 kW and 15K = 5.0 kW). If you want to adjust the heater size on any PTAC unit simply unplug the attached power cord and connect the desired size. It is important to ensure that all wiring and building connections are sized properly for the power cord as well.

Universal heater simplifies ordering and installation. For distributors, this means stocking one PTAC model and the 2 optional cords in place of 3 separate PTACs.

### REMOTE THERMOSTAT QUICK-CONNECT WIRING MODULE

Pulls out and plugs in for easier wiring during initial installation. Easier unit change-out; no need to reconnect and tighten down thermostat wires.

Reversible louvers for air path modifications

Indoor coil frost sensor protects compressor



Easy-access, interchangeable antimicrobial air filters



Universal power cord

**IMPORTANT NOTE:** Sleeves are sold and shipped separately to accommodate construction and replacement requirements.

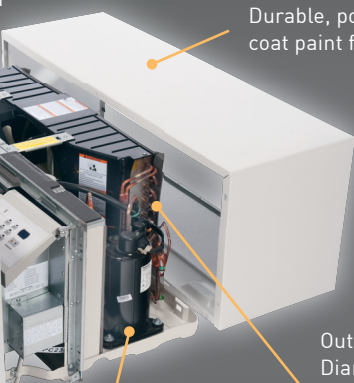
Fits other PTAC sleeves without the added expense of a baffle kit.

| RECEPTACLES AND FUSE TYPES |           |        |        |        |        |        |
|----------------------------|-----------|--------|--------|--------|--------|--------|
| Voltage                    | 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                |           |        |        |        |        |        |

ents

PDXWS 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" x 42 1/4"

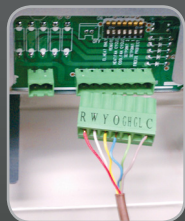
essor



Durable, powder  
coat paint finish

Outdoor coil has  
Diamonblue™  
advanced corrosion  
protection and  
stainless steel  
endplates

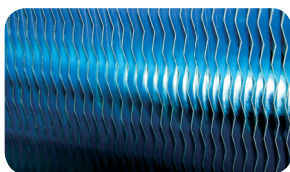
Quiet, efficient rotary  
compressor mounted on  
large vibration isolators



Remote thermostat quick-connect wiring module

hmodate new

  
**DIAMONBLUE™**  
Advanced Corrosion Protection



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

## MORE STANDARD FEATURES

### Comfort & Dehumidification

- Removes up to 3.2 pts./hr. of moisture in cool mode to improve comfort and reduce the chance of mold and mildew growth
- Intuitive unit controls are easy to operate and operate either set point or room temperature
- Owner-configurable 'Constant Fan' mode
- '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
- The digital control panel will automatically run the fan to briefly sample the room temperature every nine minutes to ensure desired conditions are maintained

### Maintenance & Installation Features

- Universal heaters with heat capacities determined by the power cords; achieve up to 48 PTAC SKUs with 16 units by changing the power cord size
- Remote thermostat pop-out wiring module allows easier wiring and unit changeout without rewiring thermostat
- May be installed flush with the floor
- Reversible indoor air louvers
- Condensate disposal system
- Improved weather barrier
- Emergency heat override ensures heat mode operation even in the unlikely event of compressor failure
- Modular product design ensures easy access to key components for cleaning and repairs- including washable, lift-out air filters
- Depth of front is 7 3/4 inches which preserves indoor floor space

### Energy Usage & Management

- Energy management system compatible
- Control with a wired or wireless digital wall thermostat

### Health & IAQ

- Fresh air damper to bring in fresh outside air when desired
- Two, easy-access washable, antimicrobial air filters
- Up to 3.2 pts./hr. dehumidification

### 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 blocks outdoor noise

### Durability

- Faultless sure-hold front cover system securely attaches the front each time
- Random compressor restart protects electrical systems from overload when power is restored
- Quiet, efficient rotary compressor mounted with vibration isolators to keep the compressor running smoothly and quietly
- Steel base pan and sleeve
- Stainless steel outdoor end plates
- Room freeze protection

The tangential blower wheel has 5x the surface area of blowers used by other PTACs. It creates a wide path air flow that reaches the furthest corner of the guest room.



**2 YR.**  
FULL WARRANTY  
PARTS AND LABOR

**5 YR.**  
LIMITED WARRANTY

\*Effective 01/01/13. See warranty documentation for full details.

# OPTIONAL ACCESSORIES

## WALL SLEEVE PDXWS

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

## 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.

## WRT1

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

## REMOTE THERMOSTAT ESCUTCHEON KIT PDXRTA

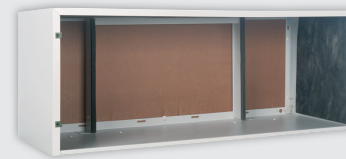
Kit contains escutcheons that can be placed over the factory control buttons when a remote wall mounted thermostat is used. The escutcheon directs the user to the wall thermostat for operation and retains the LED window to display error codes and diagnostic information. 10 pack.

## CONDUIT KIT /JUNCTION BOX PXCJA

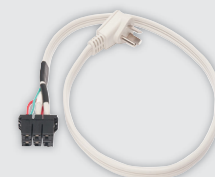
Hard wire conduit kit with junction box for 208/230V and 265V units (subbase not required). Kit includes a means of quick disconnect for easy removal of the chassis.

## POWER CORDS

|           |  | Length    |
|-----------|--|-----------|
| PXPC23000 | LCDI 230V 15A Cord - 00 kW (for use PDE models only) | 6 ft.     |
| PXPC23015 | LCDI 230V 15A Cord - 2.0 kW                          | 6 ft.     |
| PXPC23020 | LCDI 230V 20A Cord - 3.0 kW                          | 6 ft.     |
| PXPC23030 | LCDI 230V 30A Cord - 5.0 kW                          | 6 ft.     |
| PXPC26515 | Non-LCDI 265V 15A Cord - 2.0 kW                      | 18 inches |
| PXPC26520 | Non-LCDI 265V 20A Cord - 3.0 kW                      | 18 inches |
| PXPC26530 | Non-LCDI 265V 30A Cord - 5.0 kW                      | 18 inches |



Deep wall sleeve extension PDXWSEXT18 shown with weather panel in place



# 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)

### PXSB

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 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      |

## 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.

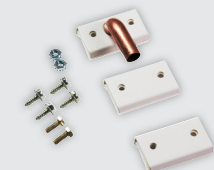
## LATERAL DUCT EXTENSION

### PDXDEA

Additional 3.5 H" x 7" W x 47" L plenum for use with the LATERAL DUCT ADAPTER. A maximum of 3 duct extensions total may be used. Note: Ducted airflow is reduced as duct length is increased.



PXAA



PDXDAA and PDXDEA ship together

# SPECIFICATIONS

## PDE Series

| Model                           |          | PDE07K                        | PDE07R          | PDE09K          | PDE09R          | PDE12K          | PDE12R          | PDE15K          | PDE15R          |
|---------------------------------|----------|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>PERFORMANCE DATA:</b>        |          |                               |                 |                 |                 |                 |                 |                 |                 |
| Cooling Btu                     |          | 7700/7600                     | 7700            | 9000/8800       | 9000            | 12000/11800     | 12000           | 15000/14600     | 15000           |
| Cooling Watts                   |          | 640/620                       | 640             | 800/770         | 800             | 1120/1120       | 1120            | 1530/1510       | 1530            |
| Energy Efficiency Ratio         | EER      | 12.0/12.2                     | 12.0            | 11.3/11.4       | 11.3            | 10.7/10.5       | 10.7            | 9.8/9.7         | 9.8             |
| Moisture Removal                | Pts./Hr. | 1.7                           | 1.7             | 2.2             | 2.2             | 2.7             | 2.7             | 3.2             | 3.2             |
| Sensible Heat Ratio             |          | 0.84                          | 0.84            | 0.81            | 0.81            | 0.67            | 0.67            | 0.65            | 0.65            |
| <b>ELECTRICAL DATA:</b>         |          |                               |                 |                 |                 |                 |                 |                 |                 |
| Voltage (1 PHASE, 60 Hz)        |          | 230/208                       | 265             | 230/208         | 265             | 230/208         | 265             | 230/208         | 265             |
| Current                         | Amps     | 2.8/3.0                       | 2.4             | 3.7/3.9         | 3.7             | 5.1/5.3         | 4.8             | 6.7/7.5         | 5.9             |
| Power Factor                    |          | 0.97                          | 0.99            | 0.99            | 0.99            | 0.99            | 0.99            | 0.99            | 0.99            |
| Compressor LRA                  |          | 19.0                          | 12.0            | 17.0            | 18.0            | 27.0            | 23.0            | 32.6            | 27.8            |
| Compressor RLA                  |          | 2.8                           | 2.4             | 3.7             | 2.9             | 5.0             | 4.3             | 6.6             | 5.6             |
| Outdoor Fan Motor               | HP       | 0.024                         | 0.024           | 0.029           | 0.029           | 0.031           | 0.031           | 0.031           | 0.031           |
| <b>AIRFLOW DATA:</b>            |          |                               |                 |                 |                 |                 |                 |                 |                 |
| Indoor CFM, HIGH                |          | 345/315                       | 345             | 360/345         | 360             | 360/350         | 360             | 385/375         | 385             |
| Indoor CFM, MED                 |          | 320/290                       | 320             | 330/305         | 330             | 330/310         | 330             | 360/330         | 360             |
| Indoor CFM, LOW                 |          | 295/265                       | 295             | 300/270         | 300             | 310/280         | 310             | 320/290         | 320             |
| Vent CFM                        |          | 75                            | 75              | 75              | 75              | 75              | 75              | 75              | 75              |
| <b>PHYSICAL DATA:</b>           |          |                               |                 |                 |                 |                 |                 |                 |                 |
| Sleeve Dimensions H x W x D     | In.      | 16"x42"x13 3/4"               | 16"x42"x13 3/4" | 16"x42"x13 3/4" | 16"x42"x13 3/4" | 16"x42"x13 3/4" | 16"x42"x13 3/4" | 16"x42"x13 3/4" | 16"x42"x13 3/4" |
| Dimensions with front H x W x D | In.      | 16"x42"x21 1/2"               | 16"x42"x21 1/2" | 16"x42"x21 1/2" | 16"x42"x21 1/2" | 16"x42"x21 1/2" | 16"x42"x21 1/2" | 16"x42"x21 1/2" | 16"x42"x21 1/2" |
| Cut Out Dimensions H x W        | In.      | 16 1/4"x42 1/4"               | 16 1/4"x42 1/4" | 16 1/4"x42 1/4" | 16 1/4"x42 1/4" | 16 1/4"x42 1/4" | 16 1/4"x42 1/4" | 16 1/4"x42 1/4" | 16 1/4"x42 1/4" |
| Net Weight                      | Lbs.     | 106                           | 106             | 111             | 111             | 116             | 116             | 119             | 119             |
| Shipping Weight                 | Lbs.     | 126                           | 126             | 131             | 131             | 136             | 136             | 139             | 139             |
| R-410A Charge                   | Oz.      | 23.63                         | 24.69           | 33.51           | 33.51           | 35.27           | 35.98           | 38.10           | 40.21           |
| Dimensions with Packaging       | In.      | 19.75"x23"x43.5" (all models) |                 |                 |                 |                 |                 |                 |                 |

## PDH Series

| Model                           |          | PDH07K                        | PDH07R          | PDH09K          | PDH09R          | PDH12K          | PDH12R          | PDH15K          | PDH15R          |
|---------------------------------|----------|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>PERFORMANCE DATA:</b>        |          |                               |                 |                 |                 |                 |                 |                 |                 |
| Cooling                         | Btu      | 7700/7600                     | 7700            | 9000/8800       | 9000            | 12000/11800     | 12000           | 14500/14200     | 14500           |
| Cooling Watts                   |          | 640/620                       | 640             | 800/770         | 800             | 1120/1120       | 1120            | 1480/1460       | 1480            |
| Energy Efficiency Ratio         | EER      | 12.0/12.2                     | 12              | 11.3/11.4       | 11.3            | 10.7/10.5       | 10.7            | 9.8/9.7         | 9.8             |
| Reverse Heating                 | Btu      | 6300/6100                     | 6300            | 8100/7900       | 8100            | 10700/10500     | 10700           | 13300/13000     | 13300           |
| Heating Watts                   |          | 540/530                       | 540             | 720/770         | 720             | 1010/990        | 1010            | 1300/1270       | 1300            |
| COP                             |          | 3.4/3.4                       | 3.4             | 3.3/3.3         | 3.3             | 3.1/3.1         | 3.1             | 3.0/3.0         | 3.0             |
| Moisture Removal                | Pts./Hr. | 1.7                           | 1.7             | 2.2             | 2.2             | 2.7             | 2.7             | 3.2             | 3.2             |
| Sensible Heat Ratio             |          | 0.84                          | 0.84            | 0.81            | 0.81            | 0.67            | 0.67            | 0.65            | 0.65            |
| <b>ELECTRICAL DATA:</b>         |          |                               |                 |                 |                 |                 |                 |                 |                 |
| Voltage (1 PHASE, 60 Hz)        |          | 230/208                       | 265             | 230/208         | 265             | 230/208         | 265             | 230/208         | 265             |
| Current                         | Amps     | 2.8/3.0                       | 2.4             | 3.7/3.9         | 3.7             | 5.1/5.3         | 4.8             | 6.7/7.5         | 5.7             |
| Reverse Heat                    | Amps     | 2.4/2.5                       | 2.1             | 3.4/3.8         | 3.4             | 4.5/4.7         | 4.5             | 5.8/6.2         | 5.0             |
| Power Factor                    |          | 0.97                          | 0.99            | 0.99            | 0.99            | 0.99            | 0.99            | 0.98            | 0.98            |
| Compressor LRA                  |          | 19.0                          | 12.0            | 18.5            | 19.0            | 27.0            | 23.0            | 36.0            | 26.0            |
| Compressor RLA                  |          | 2.8                           | 2.4             | 3.6             | 3.2             | 5.0             | 4.3             | 6.5             | 5.3             |
| Outdoor Fan Motor               | HP       | 0.024                         | 0.024           | 0.029           | 0.029           | 0.031           | 0.031           | 0.031           | 0.031           |
| <b>AIRFLOW DATA:</b>            |          |                               |                 |                 |                 |                 |                 |                 |                 |
| Indoor CFM, HIGH                |          | 345/315                       | 345             | 360/345         | 360             | 360/350         | 360             | 420/390         | 385             |
| Indoor CFM, MED                 |          | 320/290                       | 320             | 330/305         | 330             | 330/310         | 330             | 410/380         | 360             |
| Indoor CFM, LOW                 |          | 295/265                       | 295             | 300/270         | 300             | 310/280         | 310             | 380/350         | 320             |
| Vent CFM                        |          | 75                            | 75              | 75              | 75              | 75              | 75              | 75              | 75              |
| <b>PHYSICAL DATA:</b>           |          |                               |                 |                 |                 |                 |                 |                 |                 |
| Sleeve Dimensions H x W x D     | In.      | 16"x42"x13 3/4"               | 16"x42"x13 3/4" | 16"x42"x13 3/4" | 16"x42"x13 3/4" | 16"x42"x13 3/4" | 16"x42"x13 3/4" | 16"x42"x13 3/4" | 16"x42"x13 3/4" |
| Dimensions with front H x W x D | In.      | 16"x42"x21 1/2"               | 16"x42"x21 1/2" | 16"x42"x21 1/2" | 16"x42"x21 1/2" | 16"x42"x21 1/2" | 16"x42"x21 1/2" | 16"x42"x21 1/2" | 16"x42"x21 1/2" |
| Cut Out Dimensions H x W        | In.      | 16 1/4"x42 1/4"               | 16 1/4"x42 1/4" | 16 1/4"x42 1/4" | 16 1/4"x42 1/4" | 16 1/4"x42 1/4" | 16 1/4"x42 1/4" | 16 1/4"x42 1/4" | 16 1/4"x42 1/4" |
| Net Weight                      | Lbs.     | 108                           | 108             | 113             | 113             | 118             | 118             | 121             | 121             |
| Shipping Weight                 | Lbs.     | 128                           | 128             | 133             | 133             | 138             | 138             | 141             | 141             |
| R-410A Charge                   | Oz.      | 23.63                         | 24.69           | 33.51           | 35.27           | 35.27           | 35.98           | 39.86           | 36.33           |
| Dimensions with Packaging       | In.      | 19.75"x23"x43.5" (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.

