

# PACKAGED TERMINAL AIR CONDITIONERS AND HEAT PUMPS

## WITH OUR DIGISMART® CONTROL BOARD & EMS

















- First-Year Warranty: Parts & Labor
- Second through Fifth Year: Parts & Labor on certain sealed system components
- · Second through Fifth Year: on certain functional parts only
- Complete warranty details available from your local dealer or at <u>www.amana-ptac.com</u>.



### STANDARD FEATURES

- Energy Efficiencies: With EERs up to 11.7 and COPs up to 3.4, our unit's high efficiencies may qualify you for many of the rebates offered by electrical power companies.
- Quiet Operation: Our PTAC has been redesigned to be the quietest PTAC we've ever built. The unit's state-of-the-art design and construction provide a quiet environment, allowing guests to enjoy peaceful, sleep-filled nights.
  - Two fan motors (indoor/outdoor)
  - Indoor tangential fan for quiet operation
  - STC of 28
- Assembled in the USA for 30 years: assembled at our plant in Fayetteville, TN, using Goodman resources including engineering, production, and testing.
- Increased Dehumidification Capacity: Maintain lower humidity levels in rooms while cooling them without the need for expensive add-ons. As a result, guests feel more comfortable at higher temperatures, thus reducing cooling costs.
- Seven-Button Touch Pad: Provides complete control to guests for in-room comfort while maintaining energy efficiency.
- **Five-Year Limited Warranty:** Enjoy one of the most comprehensive warranties in the industry: First Year: parts & labor; second through fifth years: parts & labor on certain sealed system components; second through fifth years: on certain functional parts only. For complete warranty details, visit www.amana-ptac.com.
- 100% Run-Tested: All units are 100% run tested at our plant in Fayetteville, TN, including leak checks during manufacturing and again prior to shipment at the warehouse.
- 7%" Unit Front Depth: Enhance valuable room space with our slim unit front, which has a sleek 7%" depth, one of the shallowest silhouettes in the industry today. In addition, to inhibit guest-tampering, the front can be secured to the chassis with a hidden screw.
- Removable Condenser Shroud: Allows easy access to enable regular cleaning of coils, which is essential to maintain unit efficiency and protect the compressor for long unit life.
- Easy Pull-Out Filters: Our filters are washable and easy to maintain.
- **Filter Drier for Sealed System Refrigerant:** Standard in all units to protect the compressor and lengthen the life of the unit by removing moisture and preventing acid formation.





# STANDARD FEATURES (CONT.)

- Condensate Dispersion System: Our condensate dispersion system removes condensate from indoor cooling operation by throwing water directly on to the outdoor coil for rapid evaporation and increased cooling efficiencies. The slinger ring on the new, enhanced fan draws water up and into the fan blades. This water is then atomized and evaporated into the atmosphere through the condenser. Increased surface area from the coil allows more water to be evaporated on the sides of the coils and helps to minimize condensate run-off.
- Front Desk Control: Each unit comes equipped with the DigiSmart™ control and energy management software. With DigiSmart™ using the optional RF Antennae, all units can be wirelessly connected to a central hub for enhanced energy savings and diagnostics. Amana brand PTACs also have a low-voltage interface capability with a field-supplied front-desk ON/OFF switch. (See Page 4.)
- Room Freeze Protection: When the unit senses temperatures of 40°F or below, the unit activates the fan motor and either the electric resistance heater or the hydronic heater.
- Easy-to-use Controls: No complex controls to confuse your guests and create phone calls for your manager. Controls are easy to read, understand, and activate. Our new 7-button control panel provides guests with complete control of the unit for their in-room comfort while maintaining overall energy efficiency.
- Easy to Service with On-Board LED Diagnostics: The main components are easily serviced and there is no guessing to determine the problem with our easy-to-read diagnostics.
- Stonewood Room Front: Our Stonewood room front strikes the balance between attractive styling and practical design. Distinctive contours and a modern appearance enhance the character of even the most luxurious room, while the sleek 7%" depth maximizes usable space for your guests.
- Remote Thermostat Control: When the DigiSmart™ wireless remote thermostat (DS01E, sold separately) is set up, both the remote thermostat and unit control panel continue to control the unit, providing flexibility and home-like system control. Installation requires no more than pressing two buttons. No need to run wires or make electrical connections.
- Remote Temperature Sensing: Guests enjoy ultimate comfort with consistent climate control. When the field-installed thermistor (RTS03) is used, the unit-mounted thermostat is overridden to allow more accurate, internal wall-sensing of room ambient temperature.
- Extended Heat Pump Heating: Heat pump models will operate in the heating mode down to as low as 24°F outdoor ambient temperature.
- Zero Floor Clearance: The unit can be installed flush to a finished floor, if desired. (Some accessories do not have zero clearance).
- 30-Second Fan-Off Delay: The fan continues to run 30 seconds after the compressor has stopped in either cooling or heat
  pump mode and after electric heat has been turned off. This improves efficiency by dispersing the conditioned air on the
  coils into the room.
- Compressor Lock-In: This feature helps prolong the life of the compressor by preventing short-cycling. When the compressor is switched from Off to On because room temperature has risen or fallen below the specified limit, it will remain on for at least 4 minutes. If the temperature set-point is changed during this 4 minutes, the lock-in feature is overridden.
- Automatic Emergency Heat: No more "my unit is not heating" complaints during the middle of the night. Heat pump units will automatically switch over to electric resistance heat if the heat pump compressor system fails or if the heating load is greater than the unit capacity.
- Constant Fan Mode: Take advantage of each unit's dual options select continuous fan operation or cycle the fan ON and OFF with the thermostat. Our new 7-button design allows guests to select fan performance while allowing the owner to have the unit revert to the desired program of continuous fan or cycle with conditioning.
- **Hidden Ventilation Control:** The ventilation control lever is hidden from the occupant's view to allow you to manage ventilation requirements.
- High-Pressure Switch: Protects the unit from high pressure and damage to the unit, helping to ensure long unit life.

brings together our best PTAC ever with our best Energy Management Software and now integration with Property Management and Front Desk Management Software. Reduce PTAC energy consumption by 35% OR MORE\* through the power of the in-unit Energy Management System, programmable temperature set-back and limits combined. Reduce PTAC maintenance cost through our automated maintenance notification system. Improved maintenance sustains energy efficiency (EER) and prolongs PTAC life, keeping equipment running at its designed efficiency level and room guests more comfortable.

### THE AMANA BRAND DIGISMART SOLUTION

### In-Room: "Self-Installable" Wireless Peripherals



The DigiSmart Occupancy Sensor completes the in-room equipment. This infrared sensor can determine if the room is occupied or empty, and when empty signals the PTAC to adjust the temperature to save energy based on programmable setbacks.

The DigiSmart Wireless Remote Thermostat can mount on the wall anywhere in the guest room. Battery powered and with its own wireless ability to communicate with the PTAC to maintain room temperature. Best of all, no wires to run. The PTAC and Thermostat connect at the press of a button and are permanently linked. The thermostat and PTAC work in-sync to display accurate temperature.

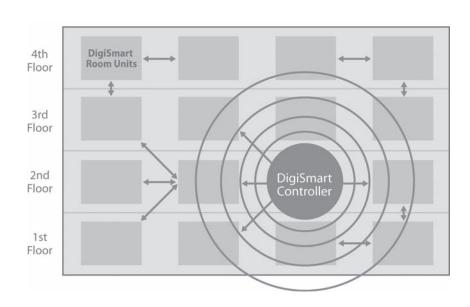
The DigiSmart Wireless Antenna installs inside the PTAC with a snap-in connector. Installing the antenna allows the PTAC to communicate wirelessly with other devices in the room and to the DigiSmart network.

- > 45,000+ rooms have had wireless installations since 2005
- > Total wireless devices deployed to date: 120,000+

The Amana brand DigiSmart PTAC with antenna, combined with the self-installable, wireless Thermostat and Occupancy Sensor give the property owner complete control over the equipment settings and can reduce PTAC energy usage by 35% OR MORE.\*

### Site-Level — Central Wireless Controller

- > Site-wide PTAC Configuration
- > Site-wide PTAC Diagnostics
- > Front Desk System Interface
- > Email Reporting
- > Internet Accessible Web User Interface Enterprise

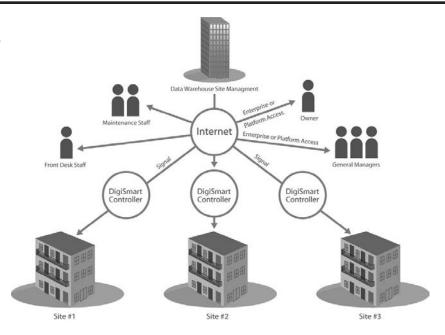


<sup>\*</sup> These savings represent estimated savings over time as compared to the same PTAC model without the DigiSmart EMS System installed and were generated using general assumptions including energy loads, local weather averages and use of occupancy controls. Actual savings will vary according to actual use habits, room square footage, and how the unit is installed.

#### ENTERPRISE — MULTIPLE WIRELESS CONTROLLERS

# CENTRAL MONITORING AND CONTROL OF MULTIPLE PROPERTIES

- > Data Warehousing
- > Savings Analysis
- > Email Reporting
- > Virtual Metering
- > Load Shedding



# WEB-BASED, REAL-TIME MONITORING

#### AMANA® BRAND DIGISMART™ CONTROLLER:

All of the PTACs in the building can be managed through a single interface on a PC.

FEATURES INCLUDE: Full unit details for every PTAC, visible from the front desk or home office, automatic emails for PTAC maintenance, ability to change all settings on the unit, and enhanced diagnostics. Monitor up to 170 PTACs, WIRELESSLY, with one controller. Additional controllers can expand the network for additional rooms/properties.

- > System Verification
- > Global Setbacks
- > EMS Configuration
- > Site Statistics
- > Battery Notices
- > Email Reporting
- > Unit Health
- > Unit Code Alerts

Your Hotel Name Here \$721.92 ▼ ☐ Floor 01 Total: 6 Occ: 0 PTAC Groups Savings & Usage 0121 0124 ▲ Notices & Issues Scheduled Events E Reports ▼ ☐ Floor 02 Total: 23 Occ: 2 **Administration** ( Help 0201 0203 0207 Rented Status [Select] 0212 0213 0215 0216 0217 Occupancy Status [Select] = System Mode [Select] = [Select] + [Select] = ▼ ☐ Floor 03 Total: 26 Occ: 3 Apply 0302 0303 0304 0305 0306 0310 0312 0320 0321 Occupied Rented () Issue 1. Notice Cool Active Heat Active 0325

**Temp Limiting** – Each PTAC can be configured with a heating and cooling temperature set-point limit.

Setbacks - Once a room is

declared unoccupied by the occupancy sensor, the PTAC progresses through three different temperature setbacks, configured as three degree and time pairs (An example configuration is listed below).

1st: 2°, 30 mins – Setback the temp 2 degrees after 30 minutes

2nd: 4°, 1 hr – Setback the temp 2 more degrees after 30 more minutes

3rd: 8°, 3 hrs – Setback the temp 4 more degrees after 2 more hours

**Unrented Set-Points** – By integrating with your property's Front Desk System, the PTACs will adjust to specific set-points when no longer identified as rented in the system.

### Accessories

#### WALL SLEEVES

All our wall sleeves have industry standard dimensions of 42" wide x 16% high. All Stonewood Beige G-90 metal wall sleeves are thermally insulated and include a weather board for use during construction. The WS900D, SC and INTERNAL 14% depth is the industry standard. Sleeves may be shipped separately to allow for installation during construction.

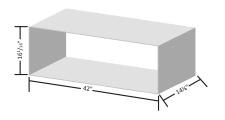
#### STANDARD DEPTH SLEEVES

WS900E	Standard PTAC sleeve	
WS900SC	Seacoast triple protected	
WS900D- INTERNAL	Internal drain only for window-wall installations (DK900D sold separately)	

#### EXTRA DEEP SLEEVES

We offer sleeves in several depths for thicker wall installations or special room configurations

WS9xxD1	16" to 24" in 1" increments
WS928D1	Extra deep 28"
WS930D1	Extra deep 30"
WS936D1	Extra deep 36"



#### **OUTDOOR GRILLES**

Available in stamped-aluminum or architecturally louvered for application with an Amana brand WS900D wall sleeve.

AGK—Extruded aluminum architectural grille available with anodized aluminum finish or a baked-on paint finish for durability. Choose from 3 stock colors or a custom color to blend with your building's exterior color scheme. Colors include:

CB (Clear Anodized), DB (Dark Brown/Bronze)

TB (Stonewood Beige), WB (White),

SB (Special/Custom Colors)

PGK—One-piece injection molded grille using a polymer blend of engineered thermoplastic high-impact strength material with chemical resistance and an exterior UV protective coating. Choose from 3 stock colors:

DB (Dark Brown/Bronze), TB (Stonewood Beige), WB (White)

#### STANDARD OUTDOOR GRILLE

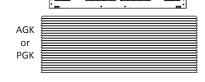
SGK01B

PGK01TB

SGK01TB	Stonewood Beige	
ARCHITECTURAL OUTDOOR GRILLE		
AGK01CB	Anodized Aluminum (Silver)	
AGK01DB	Dark Bronze/Brown	
AGK01TB	Stonewood Beige	
AGK01WB	Amana White	
AGK01SB	Custom Colors	
PGK01DB	Dark Bronze/Brown	
PGK01TB	Stonewood Beige	

Amana White

Single Pack

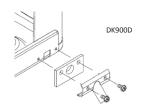


SGK

#### CONDENSATE DRAIN KIT

Attaches to the wall sleeve base pan for controlled internal or external disposal of condensate.

DK900D	Condensate Drain Kit (use with WS900E)
DK9001D	Condensate Drain Kit (use with WS900B)



#### LOW-VOLTAGE WIRE HARNESS KIT (NOT SHOWN)

For quick connections of the remote, or wired, thermostats, wired EMS, or front desk with jumpers and connectors.

PWHK01C	Wire Harness Kit

#### REMOTE ESCUTCHEON KIT (NOT SHOWN)

Optional kit for use with units controlled via a wired, remote thermostat. Covers control touch-pad for wired thermostat installations.

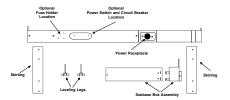
REK10B	Remote Escutcheon Kit
	(10-pack)

Each kit contains 80 wires and wire nuts, enough to attach a thermostat and one additional accessory to 10 PTAC units. Wires come in assorted colors for easy attachment.

#### SUB-BASE KIT

The fully skirted sub-base conceals wiring while providing strong support, if needed. Plug-in receptacle and field-wiring access speeds installation. Electrical accessories, such as fuse holders, circuit breakers and disconnect switches, meet N.E.C. requirements.

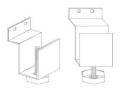
PTSB320E	230/208V 15/20A
PTSB330E	230/208V 30A
PTSB420E	265V 15/20A
PTSB430E	265V 25A
PTSB000E	Non-electrical



#### **LEVELING LEGS**

Gives wall sleeve front support and helps to level the unit for installation.

LL2B	Leveling legs for
	W/S9** sleeves



# Accessories (cont.)

#### HARD-WIRE KITS

Used to permanently wire to the chassis when a standard sub-base and power cord are not utilized.

PTPWHWK4	Armored Cable - all voltages
PTQC03A	Quick Connect - 230/208V
PTQC04A	Quick Connect - 265 & 115 V



#### **POWER DISCONNECT SWITCH**

The PSHW\*\*A power disconnect switch can be used for 265-volt or 230/208-volt physical disconnect, where required by local codes. The switch is rated at 30-amp capacity. The switch is for use with and Amana® brand standard sub-bases or PTPWHWK4 Hard Wire Kit.

PSHW03A	230/208V
PSHW04A	265V



#### **FUSE HOLDER KIT**

Cartridge-style fuses can be installed in the fuse holder for use in the sub-base or chassis. Available in 15, 20 and 30 amp (included on 265-volt unit).

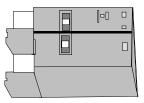
F	HK315C	230/208V	15A
F	HK315E	230/208V	15A (R-410A)
F	HK320C	230/208V	20A
F	HK320E	230/208V	20A (R-410A)
F	HK330C	230/208V	30A
F	HK330E	230/208V	30A (R-410A)



#### CIRCUIT BREAKER KIT (230/208V ONLY)

The circuit breaker kit, available in 15, 20 or 30 amp, can be used with Amana brand sub-bases. It gives overcurrent protection, and its location allows you to turn the unit on or off without tools.

Circuit Breaker Kit



#### **DUCT EXTENSION KIT**

Extends air distribution to an adjoining room. Consists of a main duct for the room of origin and an extension duct to reach the adjoining room and terminal duct. PTDK01A allows for the new "B" series unit to work with the "A" series duct kits.

MDK02B	Main Duct – R-22
MDK01E	Main Duct – R-410A
FDK02B	Extension Duct



Main Duct Kit

TDK02B	Terminal Duct
PTDK01A	Transition Duct Only – R-22
PTDK01E	Transition Duct Only – R-410A





Terminal Duct Kit





#### **POWER VENT KIT**

Installation of Power Vent increases CFM up to approximately 95. Vent door will automatically close when unit fan is off.

R-410A models must have these kits installed at the factory.

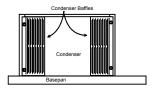
PVK3A	230/208V - R-22		
PVK4A	265V – R-22		



#### CONDENSER BAFFLE KIT

For use on non-baffled grilles. These deflectors direct the air in toward the center and away from the inlet to prevent recirculation of the hot condenser air.

DGK1B	Condenser Baffle Kit

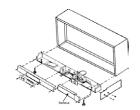


# Accessories (cont.)

#### SUB-BASE EXTENSION COVER KIT

Converts older 30-amp sub-bases to allow for installation of the larger 30-amp LCDI power cord and plugs.

SBEC10A	10 Pack
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#### CONDENSATE REMOVAL PUMP

Can be field-installed. Assists in removing condensate developed by heat pump operation and transfers it to indoor coil to dissipate into room while adding humidity to the room.

CDP302	230/208V - R-22		
CDP402	265V – R-22		
CDP302E	230/208V - R-410A		



#### SECURITY KEY LOCKS

In conjunction with the tamper-resistant front, the installation of Amana® brand security key locks prevents tampering of the controls used to set temperature, heating and cooling functions. UL approved for institutional use only.

KL03B	Security Key Lock (R-22)		
KL03E	Security Key Lock (R-410A)		

#### **THERMOSTATS**

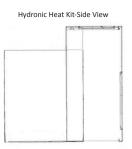
The following thermostats offer remote control. Any thermostat other than those listed must be submitted to Goodman Company, L.P., for approval prior to use.

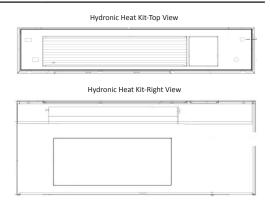
М	ODEL#	HEAT STAGES	COOL STAGES	FAN Speed	# OF WIRES REQUIRED	TEMP LIMITING	BACKLIT	DISPLAY	Түре	SHAPE & ORIENTATION	CONNECTION
2246002	A	1	1	1	5	No	Yes	Digital	Manual	Rect./Horiz.	Wired
2246003	Annual Control	2	2	2	7	Yes	Yes	Digital	Manual	Rect./Horiz.	Wired
2246007	Amare	2	2	2	7	Yes	Yes	Digital	Auto-Change	Rect./Horiz.	Wired
2246008	Amare	2	2	2	7	Yes	Yes	Digital	Programmable	Rect./Horiz.	Wired
DS01E	338	2	2	2	0	Yes	Yes	Digital	Manual	Rect./Horiz.	Wireless

#### HYDRONIC HEAT KIT

Add-on kits fit all units allowing the addition of hydronic water or hydronic steam heat to cooling and heating units. The kits feature left- or right-hand piping. Unit retains complete service access with a kit installed. Unit must be connected to and operated by a wall thermostat

	HWK03B	Hydronic Water Kit – R-22
HVK03B		Hydronic Steam Kit – R-22
	HWK03E	Hydronic Water Kit – R-410A
	HVK03E	Hydronic Steam Kit – R-410A



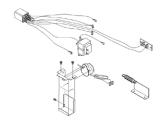


# Accessories (cont.)

#### POWER DOOR KIT

Vent door will automatically open when unit fan is on.

PDK3A	230/208V - R-22
PDK4A	265V – R-22
PDK3E	230/208V - R-410A
PDK4E	265V - R-410A



#### HYDRONIC VALVES

Water and steam valves are available for use with the HWK03 (water) and HVK03 (steam) heat kits.

VS2WNCA*	2-way/24V/NC/Steam
VS2WNOA*	2-way/24V/NO/Steam
VW2WNCA*	2-way/24V/NC/End Switch
VW2WNOA*	2-way/24V/NO/End Switch
VW3WNC2B*	3-way/24V/NC/NO/End Switch

<sup>\*</sup> Poptop Actuator

#### WIRELESS RF (RADIO FREQUENCY) CONTROLS

All DigiSmart PTACs come factory-ready to be controlled via wireless RF devices. 2.4 Ghz 802 15.4 protocol assures robust communications and response.

DS01E	Thermostat: 2-way communications
DD01E	Occupancy Sensor: EMS activation
DT01A	Antennae / Router
GT01A	Generic Radio Antenna / Router
DD01F	Door Switch: EMS Activation
DP01E	Web-enabled Platform Server
DL01E	Web-enabled Platform Server Link



#### REMOTE TEMPERATURE SENSOR

Unit can be wired to sense room temperature away from the PTAC to have accurate readings.

RTS03	Remote wall-mounted sensor
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#### WIRED ENERGY MANAGEMENT CONTROL

Includes PIR occupancy sensor power from the DigiSmart control and door switch; cannot be used with a remote wired thermostat.

WEMR01W	Recess-mounted door switch
WEMS01B	Surface-mounted door switch (Brown)
WEMS01W	Surface-mounted door switch (White)

#### WALL SLEEVE EXTENSION ADAPTER KITS

Room-side extension kits to increase the depth of the existing sleeve to allow for an industry-standard PTAC to be installed.

SECM1001A	Climate Master 12½" Sleeve Extension (10 Pack)
SEZA0501A	Zone Aire 11½" Sleeve Extension (5 Pack)

#### CURTAIN BAFFLE KIT

The color matched polymer curtain baffles help to prevent curtains from falling into the discharge air stream and causing recirculation, reducing efficiencies and shortening compressor life.

PTCB10B	10 Pack for R-22 units
PTCB10E	10 Pack for R-410A units

### Monthly Maintenance

#### INTAKE AIR FILTERS

It is extremely important to clean the inlet air filters once a month (or more often if operated in dusty or dirty locations or conditions) to properly maintain the operational performance of the PTAC unit. The two intake air filters (constructed of durable polypropylene) can be easily inserted into the cabinet front using the cabinet filter guides. Before cleaning the intake filters, turn the unit off by setting the mode switch to the OFF position. Filters should be cleaned as required. The following procedure is used to remove the intake filters:

- 1. Facing the unit, pull up on the filter handles located at the front top of the unit.
- 2. Pull each filter upward and remove.
- 3. Clean filters with vacuum or with running water. Reverse this procedure to reinstall the filters.

**Note:** Accessory filter kits are available from your sales person. All filters are permanent and cleanable. Consult your I&O Manual for other monthly cleaning instructions.



#### SPARE FILTERS

Helps keep dirt and lint out of the air and off the coil, thus increasing the unit's efficiency. Amana® brand filters are easy to remove, wash and replace.

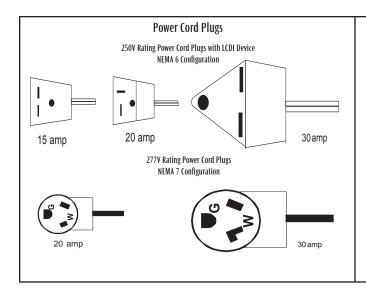
FK10A	10-PACK - A SERIES
FK10B	10-PACK - B, C & D SERIES
FK10E	10-PACK - E SERIES (THIS MODEL REQUIRES 2 FILTERS PER CHANGE.)

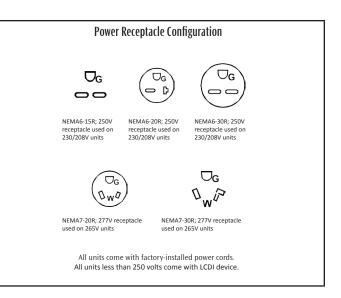
#### REPLACEMENT CHARCOAL FILTER KIT

Absorbs airborne odors caused by cigarette, pipe or cigar smoke and odors caused by mold, mildew, etc. Filters are made of polyester fibers coated with activated charcoal and are individually wrapped. These filters are permanent and can be washed or cleaned. Call your Amana® brand PTAC sales person for details. 10 filters per pack.

CFK10A	10-PACK - A SERIES (R-22)
CFK10B	10-PACK - B, C & D SERIES (R-22)

### Power Cord Configuration





# Notes



# PACKAGED TERMINAL AIR CONDITIONERS AND HEAT PUMPS

WITH DigiSmart CONTROL BOARD



#### 7-Button Control Pad

- One-Touch Activation
- Total Fan Control
- Easy-to-Read Display













First-Year Warranty: Parts & Labor

Second through Fifth Year: Parts & Labor on certain sealed system components Second through Fifth Year: on certain functional parts only

\* Complete warranty details available at www.amana-ptac.com.



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