

Heating & Air Conditioning **Amana**[®]

LASTS AND LASTS AND LASTS.[™]

PRODUCT SPECIFICATIONS



WITH
DIGISMART[™] CONTROL BOARD



FULL WARRANTY

- 1ST YEAR
- 2ND THROUGH 5TH YEAR — SEALED SYSTEM

LIMITED WARRANTY

- 2ND THROUGH 5TH YEAR — PARTS



DIGISMART[™] PTAC

PACKAGED TERMINAL AIR CONDITIONER AND HEAT PUMP

We have designed the Amana[®] brand Packaged Terminal Air Conditioner for customer comfort and owner piece of mind. No other unit in the industry offers so many energy management features as standard. With the ability of the DigiSmart[™] PTAC to reduce operating costs by 35%, there is no need to settle for anything less than an Amana[®] brand PTAC.

Features

- **Energy Efficiency** — Amana[®] brand PTACs have an EER of up to 12.8 (on heat pumps, a COP of up to 3.6) to keep energy consumption to a minimum
- **On-board Energy Management System** — Amana[®] brand units are equipped with EMS technology to better control room temperature and save energy dollars
- **DigiSmart[™] Control Board** — ready for wireless or wired operation
- **Programmable Set-back Program** — owner-controlled settings allows automatic temperature setback when unit is idle
- **Network Ready** — Amana[®] brand DigiSmart[™] units connected to a Tridium JACE controller automatically build their own wireless network
- **DigiSmart[™] Suite of Peripherals** — remote occupancy sensor, remote thermostat, RF antennas, and RF platform controller provide everything you need to reduce energy costs by 35%

FEATURES

DIGIS^{SMART}™

The Amana® DigiSmart™ suite of products work together to let you control and monitor each air conditioning unit.

In-Room Products

- PTAC – The PTAC itself contains all the processing power and software to manage energy consumption, unit status, and comfort performance.
- Occupancy Control – The remote sensor above the door determines if the room is occupied or not. If occupied, normal routines run, but if unoccupied the PTAC can change temperature settings based upon owner settings.
- Remote Thermostat – The DigiSmart™ remote thermostat works just like the one at home but unlike other PTACs does not disable the unit controls. Remote and PTAC control panels work at the same time and show the same information.
- Set-up – Best of all, no wiring. All of the peripheral devices can be installed by your handy man without called an expensive electrician. A touch of a button connects the peripherals to the air conditioner in that room.

Property-Wide Network

- The Tridium Jace™ controller connects all Amana® DigiSmart™ PATCs in a property automatically through a self-detection routine.
- Once connected to your PC, the status and operating condition of each unit can be viewed remotely and settings changed centrally.
- The Tridium Jace™ controller through its NiagaraAX protocol has already built connections to more than 100 commercially available building management systems. So once the network is up and running, Amana® PTACS can be integrated with your existing building management system or if desired, controlled remotely through the internet.

PRODUCT FEATURES

On-Board Energy Management System (EMS)

- Set-Back Mode – the owner can determine amount of time unit left ‘untouched’ (buttons not pushed) before the PTAC begins a set-back routine and new thermostat temperature takes effect, also selected by owner.
- Maintenance Status – Separate green LED indicator light to show if unit requires maintenance
- Electronic Temperature Limits - owner can set separate cooling and heating temperature ranges and limit operation to one-degree increments, saving energy by preventing guests from over-cooling or over-heating.
- Enhanced Dehumidification Cooling Mode – the unit can be set to lengthen cooling cycles while the room is occupied or unoccupied. This passes more air through the unit while the coil is below the dew point, increasing the amount of moisture removed.
- Unit Diagnostics – when switched to diagnostics mode, the unit shows ten different self-diagnosis codes to help keep the unit running most efficiently.
- Freeze Protection – when the unit senses temperature of 40°F or below, the unit automatically activates the fan motor and the electric or hydronic heat to help prevent burst water pipes or broken fixtures caused by freezing temperatures.
- Extended Heating with the Heat-Pump – heat pump models will operate in heat-pump mode with external temperatures as low 24°F to provide additional energy savings.
- 30-Second Fan-Off Delay – the fan continues to run for 30 seconds after the compressor has stopped or after electric heat has been turned off. This improves efficiency by dispersing the cooled or heated air still on the coil into the room.



EMS ACCESSORIES

DD01A — DigiDoor: WIRELESS RF OCCUPANCY SENSOR

The DigiDoor is a combination door switch and room motion sensor powered by 2 AAA batteries that are included in the kit. Once wirelessly linked to an Amana® brand DigiSmart™ PTAC, the DigiDoor monitors room occupancy and automatically activates the Energy Management System (EMS) temperature set-back function.

You can further refine your EMS programming by configuring the DigiSmart with up to 100,000 EMS set-back combinations, either through the DigiSmart touch-pad or wirelessly through the optional DigiTenna DT01A and DP01A Gateway.

The DigiTenna (DT01A) is required for the DigiDoor to communicate to the DigiSmart PTAC

DP01A — DigiPlatform: WEB-ENABLED PLATFORM CONTROLLER

The DigiPlatform uses standard 115-volt power and communicates by antennae to each Amana® brand DigiSmart™ PTAC with a DigiTenna (DT01A) on an encrypted 2.4 GHz signal using the 802.15 Zigbee standard.

All DigiSmart™ suite of peripherals linked to a DigiSmart™ PTAC can be monitored, controlled, and upgraded easily through the DigiPlatform wireless RF network.

Because it is Web-enabled, all DigiPlatform functions can be accessed through the Amana® brand Hotel Link software contained in the DigiPlatform.

The DigiPlatform has several other software applications embedded in the device that allow optional connectivity to a property management system to monitor room rental status. Optional drivers and/or software are required.

Being BACnet- and LAN-compliant allows the DigiPlatform to integrate with almost every property controller available in the industry today. The DigiPlatform allows operational monitoring of each PTAC and peripheral device. Additional optional software may be required.

DS01A — DigiStat™ RF WIRELESS REMOTE-MOUNTED THERMOSTAT

The DigiStat is a remote wall-mounted thermostat that can control the Amana® brand DigiSmart™ PTAC from anywhere in the room. It is powered by 2 AAA batteries that are included in the kit.

The DigiStat communicates on a two-way RF encrypted signal. Settings can be changed either at the DigiStat or on the PTAC at the DigiSmart touch-pad. Settings are automatically relayed to the other device within moments.

A DigiTenna (DT01A) is required for the DigiStat to communicate with the DigiSmart PTAC.

DSUK01B — DIGISMART CONTROL BOARD UPGRADE KIT

Any Amana® brand Series A or Series B PTAC produced since 1996 can be upgraded with a DigiSmart™ control board.

The DSUK01B is a field-installation kit to convert an older ‘knob control’ Amana® brand PTAC to the new DigiSmart™ LED control.

The converted Amana® brand PTAC has the same energy management system as a DigiSmart™ PTAC and can connect to the DigiSmart™ suite of peripheral devices.

DT01A — DIGITENNA: WIRELESS RF GATEWAY TRANSCEIVER ANTENNA

The DigiTenna mounts inside the Amana® brand DigiSmart PTAC, hidden from sight. It is powered through PTAC and requires no batteries. It is required for any of the DigiSuite RF wireless devices to communicate with the Amana® brand DigiSmart PTAC.

The DigiTenna communicates to any of the Amana DigiSmart suite of devices via an encrypted 2.4 Ghz signal using the 802.15 Zigbee standard. Some Amana® brand DigiSmart PTACs may require upgrades to the latest DigiSmart software to allow RF devices to be linked to the control.

For use with: DD01A and DS01A, both required parts of package

REMOTE ENERGY MANAGEMENT SYSTEMS (EMS) READY

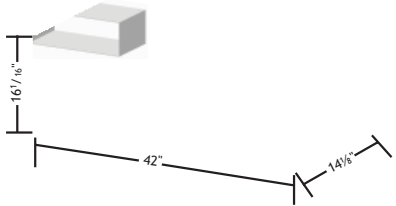
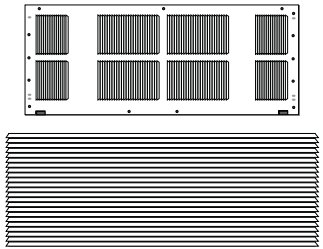

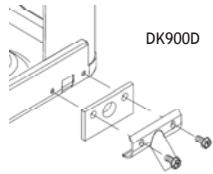
An 18-pin low-voltage connector links the unit to many wired energy management systems (EMS). The control board has low-voltage terminals for a wired room motion sensor, a door switch, or a remote-mounted thermostat. Two serial communication ports also allow for future communications capability to many other types of Amana-approved wireless RF peripheral devices.

REMOTE THERMOSTAT READY

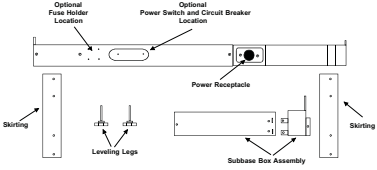
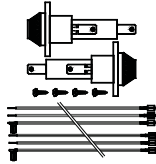
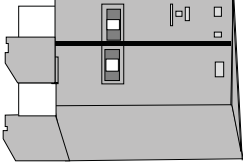
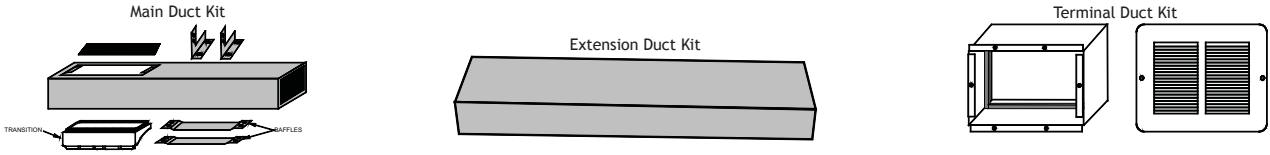
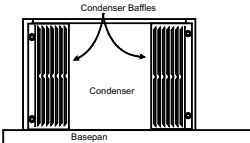
The unit has an 18-pin connector with seven dedicated low-voltage terminals for easy connection to a wide variety of remote wired thermostats. The unit’s off-board 20-volt transformer has enough power to supply energy to most commercially available thermostats. Also, the unit can be configured to be used with either a “B” or an “O” terminal, further increasing the types of thermostats that can be connected to the unit.

SPECIFICATION SHEET

PTAC ACCESSORIES

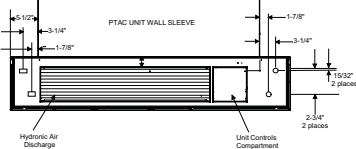
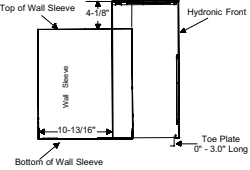
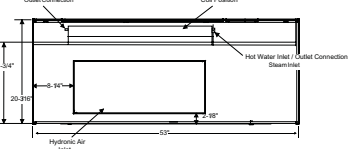
<p style="text-align: center;">WALL SLEEVE 14¹/₈" (D) x 42" (W) x 161/16" (H)</p> <p>Our insulated, Stonewood Beige metal sleeves with industry-standard dimensions are shipped with a weather board for use during construction. The WS900D is an industry-standard depth of 14¹/₈". The extra-deep sleeves can be custom-ordered starting at 16" to 24" (D) in 1" increments. Sleeves may be shipped separately to allow for installation during construction.</p>	<p>WS900D Standard 14¹/₈" Depth WS9**D1 Extra Deep (16" to 24")</p> <p>** Depth in inches</p>																																																	
<p style="text-align: center;">OUTDOOR GRILLES</p> <p>Available in stamped-aluminum or architecturally louvered for application with a WS900D wall sleeve.</p> <p>AGK—Extruded aluminum architectural grille available with anodized aluminum finish and a baked-on paint finish for durability. Choose from three stock colors or a custom color:</p> <p>CB (Clear Anodized), DB (Dark Brown/Bronze), TB (Stonewood Beige), WB (White), SB (Special/Custom Colors)</p> <p>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.</p> <p>Choose from three stock colors: DB (Dark Brown/Bronze), TB (Stonewood Beige), WB (White)</p>	<p style="text-align: center;">Standard Outdoor Grille</p> <p>SGK01B Single Pack</p> <p style="text-align: center;">Architectural Grille</p> <p>AGK01*B Single Pack</p> <p>PGK01*B Single Pack</p>																																																	
<p style="text-align: center;">THERMOSTATS</p> <p>The following thermostats offer remote control ease. Any thermostat other than those listed must be submitted to Goodman Company, LP, for approval prior to use.</p>	<table border="1"> <thead> <tr> <th>Model</th> <th>Heat Stages</th> <th>Cool Stages</th> <th>Display</th> <th>Type</th> <th>Shape & Orientation</th> </tr> </thead> <tbody> <tr> <td>C5200609</td> <td>1*</td> <td>1</td> <td>Mechanical</td> <td>Manual</td> <td>Round</td> </tr> <tr> <td>D9945801</td> <td>2**</td> <td>1</td> <td>Mechanical</td> <td>Manual</td> <td>Rectangular/Horizontal</td> </tr> <tr> <td>1246005/6</td> <td>1*</td> <td>1</td> <td>Mechanical</td> <td>Manual</td> <td>Rectangular/Vertical or Horizontal</td> </tr> <tr> <td>1246001</td> <td>1*</td> <td>1</td> <td>Digital</td> <td>Manual</td> <td>Rectangular/Horizontal</td> </tr> <tr> <td>1246003</td> <td>2**</td> <td>1</td> <td>Digital</td> <td>Manual</td> <td>Rectangular/Horizontal</td> </tr> <tr> <td>1246004</td> <td>2**</td> <td>1</td> <td>Digital</td> <td>Program</td> <td>Rectangular/Horizontal</td> </tr> <tr> <td>1241501</td> <td>2**</td> <td>1</td> <td>Digital</td> <td>Auto Change</td> <td>Rectangular/Vertical</td> </tr> </tbody> </table>	Model	Heat Stages	Cool Stages	Display	Type	Shape & Orientation	C5200609	1*	1	Mechanical	Manual	Round	D9945801	2**	1	Mechanical	Manual	Rectangular/Horizontal	1246005/6	1*	1	Mechanical	Manual	Rectangular/Vertical or Horizontal	1246001	1*	1	Digital	Manual	Rectangular/Horizontal	1246003	2**	1	Digital	Manual	Rectangular/Horizontal	1246004	2**	1	Digital	Program	Rectangular/Horizontal	1241501	2**	1	Digital	Auto Change	Rectangular/Vertical	 <p>* PTC Models Only ** PTC and PTH Models</p>
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1241501	2**	1	Digital	Auto Change	Rectangular/Vertical																																													
<p style="text-align: center;">CONDENSATE DRAIN KIT</p> <p>Attaches to the wall sleeve base pan for controlled internal or external disposal of condensate.</p>	<p>DK900D: Condensate Drain Kit (use with WS900D)</p> <p>DK9001D: Condensate Drain Kit (use with WS900B and extra-deep wall sleeves)</p>																																																	
<p style="text-align: center;">WIRE HARNESS KIT (NOT SHOWN)</p> <p>For quick connections of the remote thermostat or front desk with jumpers and connectors.</p>	<p>PWHK01C Wire Harness Kit</p>																																																	
<p style="text-align: center;">REMOTE ESCUTCHEON KIT (NOT SHOWN)</p> <p>Optional kit for use with units controlled via a wired, remote thermostat. Covers control touch-pad for wired thermostat installations.</p>	<p>REK10B Remote Escutcheon Kit (10 pack)</p>	<p>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.</p>																																																

PTAC ACCESSORIES (CONT.)

<p>SUB-BASE KIT</p> <p>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 NEC requirements.</p>	<p>PTSB320E 230/208V 15/20A PTSB330E 230/208V 30A PTSB420E 265V 15/20A PTSB430E 265V 25A PTSB000E Non-electrical</p>	
<p>HARD-WIRE KIT (NOT SHOWN)</p> <p>Used to permanently wire to the chassis when a standard sub-base and power cord are not used.</p>	<p>PTPWHWK4 Hard-Wire Kit</p>	
<p>POWER DISCONNECT SWITCH (NOT SHOWN)</p> <p>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 a 30-amp capacity and for use with Amana® brand standard sub-bases or PTPWHWK4 Hard-Wire Kits.</p>	<p>PSHW03A 230/208V PSHW04A 265V</p>	
<p>FUSE HOLDER KIT</p> <p>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 sizes. (included on 265-volt unit).</p>	<p>FHK315C 230/208V 15A FHK320C 230/208V 20A FHK330C 230/208V 30A</p>	
<p>CIRCUIT BREAKER KIT (230/208V ONLY)</p> <p>The circuit breaker kit, available in 15-, 20-, or 30-amp sizes, 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.</p>	<p>CBK3**C Circuit Breaker Kit</p>	
<p>DUCT EXTENSION KIT</p> <p>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.</p>	<p>MDK02B Main Duct EDK02B Extension Duct TDK02 Terminal Duct PTDK01A Transition Duct Only</p>	<p>See below.</p>
		
<p>POWER VENT KIT (NOT SHOWN)</p> <p>Installation of Power Vent increases CFM up to approximately 95. Vent door will automatically close when unit fan is off.</p>	<p>PVK3A 230/208V PVK4A 265V</p>	
<p>POWER DOOR KIT (NOT SHOWN)</p> <p>Vent door will automatically open when unit fan is on.</p>	<p>PDK3A 230/208V PDK4A 265V</p>	
<p>CONDENSER BAFFLE KIT</p> <p>For use on non-baffled grilles. These deflectors direct the air toward the center and away from the inlet to prevent recirculation of the hot condenser air.</p>	<p>DGK1B Condenser Baffle Kit</p>	

SPECIFICATION SHEET

PTAC ACCESSORIES (CONT.)

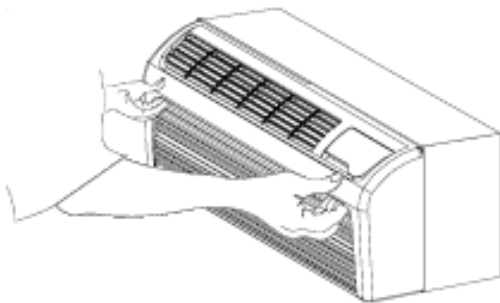
<p>STC 30-RATING ACCESSORY KIT (NOT SHOWN) Raises sound ratings from 27 to 30 to meet or exceed most sound test requirements.</p>	<p>STC101A 10 Pack</p>																																		
<p>HEATER KIT—FOR HEATER-LESS UNITS ONLY (NOT SHOWN) Optional 1.5 kW heater kits are available for use only with models originally shipped without electric heat. Ask salesperson for details.</p>	<table border="1"> <thead> <tr> <th></th> <th>Model Nominal BTUs</th> <th>230V</th> <th>208V</th> <th>265V</th> </tr> </thead> <tbody> <tr> <td>Rated Watts</td> <td>All</td> <td>1,500</td> <td>1,200</td> <td>1,500</td> </tr> <tr> <td rowspan="2">Full Load Amps (incl. fan)</td> <td>7K & 9K</td> <td>6.9</td> <td>6.2</td> <td>6.1</td> </tr> <tr> <td>12K & 15K</td> <td>7.1</td> <td>6.4</td> <td>6.3</td> </tr> <tr> <td rowspan="2">Min. Ampacity</td> <td>7K & 9K</td> <td>8.6</td> <td>8.6</td> <td>7.5</td> </tr> <tr> <td>12K & 15K</td> <td>8.8</td> <td>8.8</td> <td>7.7</td> </tr> <tr> <td>Fuse Size</td> <td>All</td> <td>15</td> <td>15</td> <td>15</td> </tr> </tbody> </table>		Model Nominal BTUs	230V	208V	265V	Rated Watts	All	1,500	1,200	1,500	Full Load Amps (incl. fan)	7K & 9K	6.9	6.2	6.1	12K & 15K	7.1	6.4	6.3	Min. Ampacity	7K & 9K	8.6	8.6	7.5	12K & 15K	8.8	8.8	7.7	Fuse Size	All	15	15	15	
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<p>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.</p>	<p>SBEC10A 10 Pack</p>																																		
<p>CONDENSATE REMOVAL PUMP (NOT SHOWN) 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.</p>	<p>CDP302 230/208V CDP402 265V</p>																																		
<p>SECURITY KEY LOCKS (NOT SHOWN) 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.</p>	<p>KL03B Security Key Lock</p>																																		
<p>REPLACEMENT SPARE FILTERS (NOT SHOWN) 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.</p>	<p>FK10A Filters (10-pack) - A Series FK10B Filters (10-pack) - B Series</p>																																		
<p>REPLACEMENT CHARCOAL FILTER KIT (NOT SHOWN) 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 permanent filters can be washed or cleaned and reused. Call your Amana® brand PTAC salesperson for details.</p>	<p>CFK10A Charcoal Filters - A Series (10-pack) CFK10B Charcoal Filters - B Series (10-pack)</p>																																		
<p>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.</p>	<p>HWK03 Hydronic Water Kit HVK03 Hydronic Steam Kit</p>																																		
<p>Hydronic Heat Kit-Top View</p> 	<p>Hydronic Heat Kit-Side View</p> 	<p>Hydronic Heat Kit-Right View</p> 																																	

PTAC ACCESSORIES (CONT.)

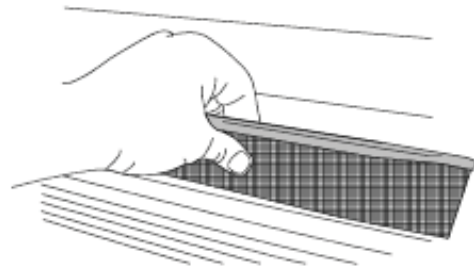
<p>HYDRONIC VALVES (NOT SHOWN) Water and steam valves are available for use with the HWK03 (water) and HVK03 (steam) heat kits. (See Architects and Engineers Manual for specifications.)</p>	<p>VS2WNCA* Two-Way / 24-V / NC / Steam VS2WNOA* Two-Way / 24-V / NO / Steam VW2WNCA* Two-Way / 24-V / NC / End Switch VW2WNOA* Two-Way / 24-V / NO / End Switch VW3WNC2B* Three-Way / 24-V / NC / NO / End Switch * Pop-top Actuator</p>						
<p>HYDRONIC TRANSFORMER RELAY KIT (NOT SHOWN) Add-on kit that allows field conversion of a standard PTC unit to a hydronic unit.</p>	<table border="1"> <tr> <td data-bbox="769 449 889 499">HTK3A</td> <td data-bbox="894 449 1062 499">230/208V</td> <td data-bbox="1066 449 1469 499"></td> </tr> <tr> <td data-bbox="769 499 889 550">HTK4A</td> <td data-bbox="894 499 1062 550">265V</td> <td data-bbox="1066 499 1469 550"></td> </tr> </table>	HTK3A	230/208V		HTK4A	265V	
HTK3A	230/208V						
HTK4A	265V						

Pull-out Easy Access Filter

Maintaining the unit's efficiency while saving time and money is easy. The filter is easily accessed for cleaning or replacement without removing the unit front.



Step 1: Open the intake grille louver.



Step 2: Pull the filter up and out.

SPECIFICATION SHEET

PRODUCT SPECIFICATIONS

PTC MODELS — COOLING/ELECTRIC HEAT

Model ^{1, 7, 9, 10, 12}	PTC073B**A-	PTC074B**A-	PTC093B**AM	PTC094B**AM	PTC123B**AM	PTC124B**AM	PTC153B**AM	PTC154B**AM	
Voltage ^{1, 3, 11}	230/208	265	230/208	265	230/208	265	230/208	265	
Capacity (BTU/h)	M Models	M= 7,100/6,900	M = 7,100	9,100/8,900	9,100	12,000/11,900	12,000	14,000/13,900	14,000
	N Models	N= 7,400/7,300	N = 7,300	N/A	N/A	N/A	N/A	N/A	N/A
Amps ¹²	2.8/3.0	2.3	3.7/3.8	3.0	4.6/5.0	4.3	6.3/6.9	5.9	
Watts ¹²	610/595	610	790/775	790	1,110/1,100	1,130	1,470/1,450	1,470	
EER	M Models	M= 11.6/11.6	M = 11.6	11.5	11.5	10.8	10.8	9.5	9.5
	N Models	N= 12.4/12.8	N = 12.4	N/A	N/A	N/A	N/A	N/A	N/A
Unit without Electric Heater									
Min. Circuit Amps ^{2, 4, 12}	4.0	3.6	5.1	4.4	6.4	5.7	8.8	7.7	
CFM (Cool/Wet Coil)	High	245/240	245	245/240	245	325/315	325	325/315	325
	Low	220/205	220	220/205	220	250/229	250	250/220	250
CFM (Dry Coil)	High	265/260	265	265/260	265	345/335	345	345/335	345
	Low	230/215	230	230/215	230	265/235	265	265/235	265
Ventilated Air, CFM (Fan Only)*	65*	65*	65*	65*	70*	70*	70*	70*	
Ventilated Air, CFM (Compressor & Fan)*	65*	65*	65*	65*	70*	70*	70*	70*	
Dehumidification (Pints/Hr.)	1.6	1.6	2.6	2.6	3.5	3.5	4.4	4.4	
Net Weight (lbs.)	90	90	95	95	105	105	110	110	
Shipping Weight (lbs.)	105	105	110	110	120	120	125	125	

- Denotes M or N models

* Approximately 95 CFM with optional power vent kit. Actual vent CFM performance will vary due to application and installation conditions.

Notes:

- All 265-volt models must use an Amana® brand sub-base (PTSB4**E) or an Amana® brand hard-wire kit (PTPWHWK4).
- Minimum Circuit Ampacity (MCA) ratings conform to the National Electric Code; however, local codes should apply.
- Minimum voltage on 230/208-volt models is 197 volts; maximum is 253 volts.
Minimum voltage on 265-volt models is 238.5 volts; maximum is 291.5 volts.
- Overcurrent protection for **all units without electric heaters** is 15 amps. Overcurrent protection on 265-volt models must be cartridge-style time-delay fuses (included and factory-installed on all Amana® brand 265-volt chassis). See heater performance for total MCA.
- Heating capacity and efficiency based on unit operation without condensate pump; unit automatically switches to electric heat at approximately 24° F outdoor ambient.
- Total watts for 12,000 and 15,000 BTU/h models; subtract 70 watts for PT07/09*B**A*
- Specify two-digit heater kW size to complete model number.
- Total amps for 12,000 and 15,000 BTU/h models; subtract 0.2 amps for PT07/09*B**A*.
- R-22 refrigerant used in all systems.
- All units meet or exceed ASHRAE 90.1 standards.
- All units less than 250 volts have a Leak Current Detector Interrupter (LCDI) power cord and meet UL 484 standards.
- Refer to electric heat performance data for total MCA and recommended overcurrent protection. Amps and Watts notation refers to compressor only.

PRODUCT SPECIFICATIONS (CONT.)

PTC AND PTH MODELS — ELECTRIC HEAT PERFORMANCE

(Primary Heating for PTC Models; Auxiliary Heating for PTH Models; See below for Power Cord Configuration)

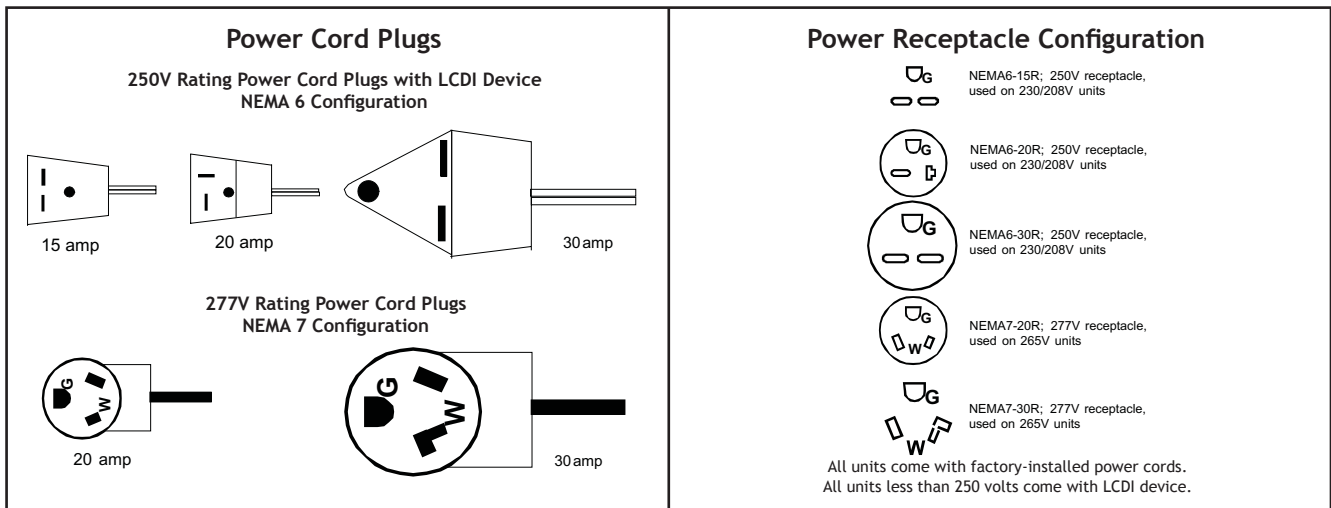
Voltage	Electric Heater Size (kW)	No. of Stages	Nominal Heating (BTU/h)			Total Watts ⁶	Total Amps ⁸	Minimum Circuit Ampacity ²	MOD ⁴ (amps)	Power Cord
			@ 230V	@ 208V	@ 265V					
230/208V	2.5/2.0	1	8,500	6,800	--	2,650/2,140	11.5/10.2	14.2	15	6 - 15 P
230/208V	3.5/2.9	1	12,000	9,900	--	3,650/3,040	15.8/14.5	19.6	20	6 - 20 P
230/208V	5.0/4.1	1*	17,100	14,000	--	5,150/4,240	22.3/20.3	27.7	30	6 - 30 P
265V	2.5	1	--	--	8,500	2,650	10.0	12.4	15	7 - 20 P
265V	3.7	1	--	--	12,600	3,850	14.6	18.1	20	7 - 20 P
265V	5.0	1*	--	--	17,100	5,150	19.5	24.2	25	7 - 30 P

* PTH/PTC09*B50*G/K has the same airflow as a PTC/PTH12*B***G (not available on 7,000 BTU/h models).

Notes:

- 1- All 265-volt models must use an Amana® brand sub-base (PTSB4**E) or an Amana® brand hard-wire kit (PTPWHWK4).
- 2- Minimum branch circuit ampacity ratings conform to the National Electric Code; however, local codes should apply.
- 3- Minimum voltage on 230/208-volt models is 197 volts; maximum is 253 volts.
Minimum voltage on 265-volt models is 238.5 volts; maximum is 291.5 volts.
- 4- Overcurrent protection for all units without electric heaters is 15 amps. Overcurrent protection on 265-volt models must be cartridge-style time-delay fuses (included and factory-installed on all Amana® brand 265-volt chassis).
- 5- Heating capacity and efficiency based on unit operation without condensate pump; unit automatically switches to electric heat at approximately 24° F outdoor ambient.
- 6- Total watts for 12,000 and 15,000 BTU/h models; subtract 70 watts for PT07/09*B**A*
- 7- Specify two-digit heater kW size to complete model number.
- 8- Total amps for 12,000 and 15,000 BTU/h models; subtract 0.2 amps for PT07/09*B*A*.
- 9- R-22 refrigerant used in all systems.
- 10- All units meet or exceed ASHRAE 90.1 standards.
- 11- All units less than 250 volts have a Leak Current Detector Interrupter (LCDI) power cord and meet UL 484 standards.

POWER CORD CONFIGURATION



SPECIFICATION SHEET

PRODUCT SPECIFICATIONS (CONT.)

PTH MODELS — COOLING/HEAT PUMP/ELECTRIC HEAT

Model ^{1, 7, 9, 10, 12}		PTH073B**A-	PTH074B**A-	PTH093B**AM	PTH094B**AM	PTH123B**AM	PTH124B**AM	PTH153B**AM	PTH154B**AM
Voltage ^{1, 3, 11}		230/208	265	230/208	265	230/208	265	230/208	265
Capacity (BTU/h)	M Models	M=7,000/6,800	M=7,000	9,100/8,900	9,100	12,000/11,800	12,000	14,000/13,900	14,000
	N Models	N=7,400/7,300	N=7,300	N/A	N/A	N/A	N/A	N/A	N/A
Amps ¹²		2.8/3.0	2.3	3.5/3.8	3.0	4.6/5.0	4.3	6.3/6.9	5.9
Watts ¹²		605/585	605	790/775	790	1,110/1,090	1,110	1,505/1,495	1,505
	M Models	M=11.6/11.6	M=11.6	11.5	11.5	10.8	10.8	9.3	9.3
EER	N Models	N=12.4/12.8	N=12.4	N/A	N/A	N/A	N/A	N/A	N/A
Units without Electric Heater									
MCA ^{2, 4, 12}		4.0	3.6	5.1	4.4	6.4	5.7	8.8	7.7
CFM (Cool/Wet Coil)	High	245/240	245	245/240	245	325/315	325	325/315	325
	Low	220/205	220	220/205	220	250/229	250	250/220	250
CFM (Dry Coil)	High	265/260	265	265/260	265	345/335	345	345/335	345
	Low	230/215	230	230/215	230	265/235	265	265/235	265
Ventilated Air, CFM (Fan Only)*		65*	65*	65*	65*	70*	70*	70*	70*
Ventilated Air, CFM (Compressor and Fan)*		65*	65*	65*	65*	70*	70*	70*	70*
Dehumidification (Pints/Hr.)		1.6	1.6	2.6	2.6	3.5	3.5	4.4	4.4
Net Weight (lbs.)		95	95	100	100	110	110	115	115
Shipping Weight (lbs.)		110	110	115	115	125	125	130	130

- Denotes M or N models

* Approximately 95 CFM with optional power vent kit; actual vent CFM performance will vary due to application and installation conditions.

** EER = Energy Efficiency Rating per Air Conditioning & Refrigeration Institute (ARI) and Canadian Standards Association (CSA) EEV Test Procedures.

Notes:

- All 265-volt models must use an Amana® brand sub-base (PTSB4**E) or an Amana® brand hard-wire kit (PTPWHWK4).
- Minimum Circuit Ampacity (MCA) ratings conform to the National Electric Code; however, local codes should apply.
- Minimum voltage on 230/208-volt models is 197 volts; maximum is 253 volts.
Minimum voltage on 265-volt models is 238.5 volts; maximum is 291.5 volts.
- Overcurrent protection for **all units without electric heaters** is 15 amps. Overcurrent protection on 265-volt models must be cartridge-style time-delay fuses (included and factory-installed on all Amana® brand 265-volt chassis). See heater performance for total MCA.
- Heating capacity and efficiency based on unit operation without condensate pump; unit automatically switches to electric heat at approximately 24° F outdoor ambient.
- Total watts for 12,000 and 15,000 BTU/h models; subtract 70 watts for PT07/09*B**A*
- Specify two-digit heater kW size to complete model number.
- Total amps for 12,000 and 15,000 BTU/h models; subtract 0.2 amps for PT07/09*B**A*.
- R-22 refrigerant used in all systems.
- All units meet or exceed ASHRAE 90.1 standards.
- All units less than 250 volts have a Leak Current Detector Interrupter (LCDI) power cord and meet UL 484 standards.
- Refer to electric heat performance data for total MCA and recommended overcurrent protection. Amps and Watts notation refers to compressor only.

PRODUCT SPECIFICATIONS (CONT.)

PTH MODELS — REVERSE-CYCLE HEATING PERFORMANCE

Heating Capacity ¹		PTH073B**A-	PTH074B**A-	PTH093B**AM	PTH094B**AM	PTH123B**AM	PTH124B**AM	PTH153B**AM	PTH154B**AM
BTU/h ⁵	M Models	M=6,200/6,000	M = 6,200	8,200/8,000	8,200	10,800/10,600	10,800	13,300/13,200	13,300
	N Models	N=6,400/6,300	N = 6,200	N/A	N/A	N/A	N/A	N/A	N/A
Amps ¹²		2.6/3.0	2.2	3.2/3.6	2.6	4.5/5.1	3.9	5.7/6.3	5.4
Watts ¹²		550/530	550	750/730	750	1,020/1,000	1,020	1,340/1,330	1,340
COP ⁵	M Models	M= 3.3/3.3	M = 3.3	3.2	3.2	3.1	3.1	2.9	2.9
	N Models	N= 3.5/3.6	N = 3.5	N/A	N/A	N/A	N/A	N/A	N/A
CFM (Dry)		235/230	235	235/230	230	310/290	310	345/335	345
Outdoor Ambient Rating Point	62 °F	7,200/7,000	7,200	9,800/9,600	9,800	13,000/12,800	13,000	15,800/15,700	15,800
	57 °F	6,900/6,700	6,900	9,300/9,100	9,300	12,300/12,100	12,300	15,000/14,900	15,000
	52 °F	6,500/6,300	6,500	8,700/8,500	8,700	11,600/11,400	11,600	14,200/14,100	14,200
	47 °F	6,200/6,000	6,200	8,200/8,000	8,200	10,800/10,600	10,800	13,300/13,200	13,300
	COP*	3.3/3.3	3.3	3.2/3.2	3.2	3.1/3.1	3.1	2.9/2.9	2.9
	42 °F	5,900/5,700	5,900	7,700/7,500	7,700	10,100/9,900	10,100	12,500/12,400	12,500
	37 °F	5,600/5,400	5,500	7,200/7,000	7,200	9,400/9,200	9,400	11,700/11,600	11,700
	32 °F	5,300/5,100	5,200	6,700/6,500	6,700	8,600/8,400	8,600	10,800/10,700	10,800
	27 °F	5,000/4,800	5,000	6,200/6,000	6,200	7,900/7,700	7,900	10,000/9,900	10,000
	24 °F	4,800/4,600	4,800	5,900/5,700	5,900	7,500/7,300	7,500	9,500/9,400	9,500
Outdoor Ambient	62 °F	580/560	580	810/790	810	1,120/1,100	1,120	1,465/1,455	1,465
	57 °F	575/555	575	800/780	800	1,090/1,075	1,090	1,440/1,430	1,440
	52 °F	555/535	555	775/755	775	1,060/1,045	1,060	1,405/1,395	1,405
	47 °F	550/530	550	750/730	750	1,020/1,005	1,020	1,340/1,330	1,340
	42 °F	540/525	560	730/710	730	985/970	985	1,325/1,315	1,325
	37 °F	530/515	545	705/685	705	950/935	950	1,285/1,275	1,285
	32 °F	515/500	535	690/670	690	900/885	900	1,240/1,230	1,240
	27 °F	505/490	525	660/640	660	855/840	855	1,190/1,180	1,190
24 °F	500/485	520	640/620	640	830/815	830	1,180/1,170	1,180	

- Denotes M or N models

See Page 10 for Notes and Auxiliary Electric Heater Performance.

COP = Coefficient of Performance; per ARI Test Procedures, units are rated for capacities and efficiencies.

SPECIFICATION SHEET

CONTRACT BID SPECIFICATIONS

Ratings

Each unit must meet the following specifications:
ARI rating of _____ BTU/h cooling (and _____
BTU/h reverse cycle heating with a COP of _____
at 47° F O.D.)

Electric resistance heat of _____ BTU/h. Total
Amp draw must be of _____ and _____ Watts
at _____ volts.

The unit must remove a minimum of _____ pints of
moisture per hour when operated at rating conditions.
The EER must be a minimum of _____ EER.

Unit Chassis

Each unit must be of slide-out design shipped with room
cabinet front-installed. Unit chassis must have the ability
to be installed with 0 clearance from finished floor. An
electrical power cord must be included with chassis and
installed by the manufacturer to assure proper NEMA 6 or
7 configuration and UL-approved length. Units less than
250 volts must also have a LCDI power cord. Unit must
be tested for conformance to ASTM E water infiltration
specification **ASTM E 331-86**, which ensures no water
infiltration when tested at 8" rain per hour at 63 mph
wind for 15 minutes.

Room Cabinet

The monochromatic front of the room cabinet must be able
to be field-secured to chassis to inhibit tampering. Filter
must be accessible without removing room front. Cabinet
depth must not exceed 7 $\frac{3}{8}$ " to minimize unit's impact on
room space.

Coils

Unit coils must have rifled copper tubing expanded into
rippled-edge louvered aluminum fins. Exterior coil must be
of a two-row bent coil design with removable shroud top
to allow easy-access for cleaning of the exterior coil.

Heat Pumps

Each unit must include a change-over thermistor that
senses an outside ambient switch-over temperature as
low as 24° F, lock-open refrigerant reversing valve during
heat pump operation, temperature-activated defrost
drain, and automatic emergency heat operation to
override the heat pump's change-over thermostat and
bring on electric resistance heaters in the event of a
sealed system failure. Unit must not operate compressor
and electric heaters simultaneously.

Compressor

The compressor must be hermetically sealed, internally
isolated, rotary-type, and permanently mounted on
rubber isolators. No removal or adjustment of compressor
hold-down bolts is to be required during installation.

Warranty

The warranty is for **Full One Year** on the entire unit;
Full Second through Fifth Year on the entire sealed
refrigerant system components; **Limited Second through
Fifth Year** on functional parts only.

Unit Digital Controls

Unit control must be completely wired and accessible
from the top of the chassis. Controls shall be an LED
touch-pad design with six large, easy-to-read and use
buttons: Heat - Cool - Off - Fan - Temp+ (plus) - Temp-
(minus) and two red seven-segment LED temperature
displays. Unit shall have a green status LED to advise
owner of dirty filter, dirty coil, or operational diagnostic
messages. Unit shall have one-button activation via
membrane touch-pad. Unit control board shall have
an 18-pin low-voltage connector to allow for easy
connection to remote wired devices. Unit shall have two
serial-port connectors for easy connection to wired or
future wireless EMS (Energy Management Systems).

Unit must have the ability to easily configure owner-
selectable and programmable functions:

- Fan-cycle operation
- Electronic temperature limiting for cooling
- Electronic temperature limiting for heating
- Enhanced dehumidification cooling operation
- Temperature set-back when inactive
- Un-vented temperature set-back
- Load-shedding operation
- Front-desk on-off or temperature set-back

Unit must have the ability to connect to approved
remote devices:

- Wireless or wired thermostat
- Wireless or wired door switch
- Wireless or wired room occupancy sensor
- Wireless or wired room-to-room transfer fan
- Front Desk Control
- RF wireless communications devices

Unit must be able to acquire and display operational
temperature data from up to six installed thermistors
to include:

- IAT—Indoor air temperature (black)
- ICT—Indoor coil temperature (red)
- IDT—Indoor discharge temperature (yellow)
- OCT—Outdoor coil temperature (blue) (heat pumps)
- Green—Miscellaneous temperature (ex. Outdoor
ambient) (optional)
- Orange—Miscellaneous thermistor or analog device
(optional)

Evaporator/Condenser Fans

Direct drive with a permanent, split-capacitor, two-
speed motor. Condensate must be directed onto the
back and sides of the bent coil to aid in evaporation
and removal.

Air Discharge

Must be a sloped surface so that obstructions cannot
be placed on the unit. Discharge conditioned air can be
directed into the room at an angle of 15 or 40 degrees
from the vertical position. The discharge grille must be
of polycarbonate material to resist bending, cracking,
rusting and corrosion.

NEW INSTALLATIONS TYPICALLY REQUIRE A MINIMUM OF WS900D WALL SLEEVE AND AN OUTDOOR GRILLE.

Wall Sleeves (WS900D)

The wall sleeve must be industry-accepted dimensions: 14 $\frac{1}{8}$ " depth x 42" width x 16 $\frac{1}{16}$ " height and constructed of G90 HDG galvanized steel with a baked corrosion-inhibiting urethane primer and baked-polyester topcoat enamel. Sleeve must be insulated and shipped with a weather resistant rear closure panel installed.

Outdoor Grilles

Outdoor grille must be architecturally extruded, louvered aluminum (AGK01*B), one-piece polymer-blend injection molded louver (PGK01*B) or standard stamped aluminum (SGK**B). All other grilles must be submitted to the PTAC manufacturer for feasibility, airflow characteristics and compliance with UL regulations, where necessary.

THE OPTIONAL ACCESSORIES LISTED BELOW PERFORM SPECIFIC FUNCTIONS REQUIRED IN SOME INSTALLATIONS.

Condensate Drain Kit (DK900D)

Attaches to the bottom of the wall sleeve for directional-controlled internal or external disposal of condensate, defrost or rain water.

Duct Kits (MDK02B, EDK02B, TDK02)

Three kits must be supplied to provide ducted, conditioned air into a second room: a main duct kit, an extension duct kit and a terminal duct kit.

Sub-base Kit (PTSB*E)**

Necessary for UL listing requirements for 265V units (Hard Wire Kit may be substituted for Sub-base kit). Optional for 230/208V units. Must be pre-wired to facilitate field-electrical connections and include a NEMA 6 or 7 configuration electrical receptacle. It must have 2 leveling screws for sleeve support and accurate unit leveling during installation. Locations for field installation of physical disconnect switches, cartridge-style fuse holders and circuit breakers must be provided. Side-skirts must be provided with sub-bases. *(PTSB000E Non-Electrical Sub-base available.)*

Hydronic Heat Kit

Is required for heating functions instead of electric resistance heaters. Unit must retain complete service access with the kit installed. Proper water or steam valves must be used.

Power Vent & Damper

Must be provided to maximize ventilation air intake to up to approximately 95 CFM. Power vent must be off and damper door closed when unit fan is de-energized.

Condensate Removal Pump (Heat Pumps only)

Must be installed to assist in removing the condensate developed by the heat pump operation and transfer it to the indoor coil to dissipate into the room, adding humidity to the room.

Circuit Breaker Kit

Must be installed in sub-base to provide overcurrent protection for proper 230/208V amperage. Can also be used as a physical disconnect where local codes permit for 230/208 voltage.

Fuse Holder (included in 265V chassis)

Must be installed either in the unit or the sub-base and must match the electrical requirements of the chassis.

Hard Wire Kit

Must be used to permanently wire chassis for hard wire purposes. (For 265V units, Hard Wire Kit may be substituted with Sub-base Kit.)

Security Key Locks (KL03B)

Must be installed to prevent tampering of the unit controls. Unit room cabinet must also be secured to the chassis with field supplied screws. UL-approved for institutional use only.

Charcoal Filter Kit -- Optional (CFK10B)

Amana[®] brand Activated Charcoal filters absorb odors caused by cigarette, pipe or cigar smoke and airborne odors caused by mold, mildew, etc. These replacement filters are polyester fibers coated with activated charcoal. Each filter is individually wrapped to assure maximum absorption and durability when installed. (10 filters per kit.)

Disconnect Switch

Power disconnect switch must be installed in sub-base for use as a physical disconnect, where required by local codes.

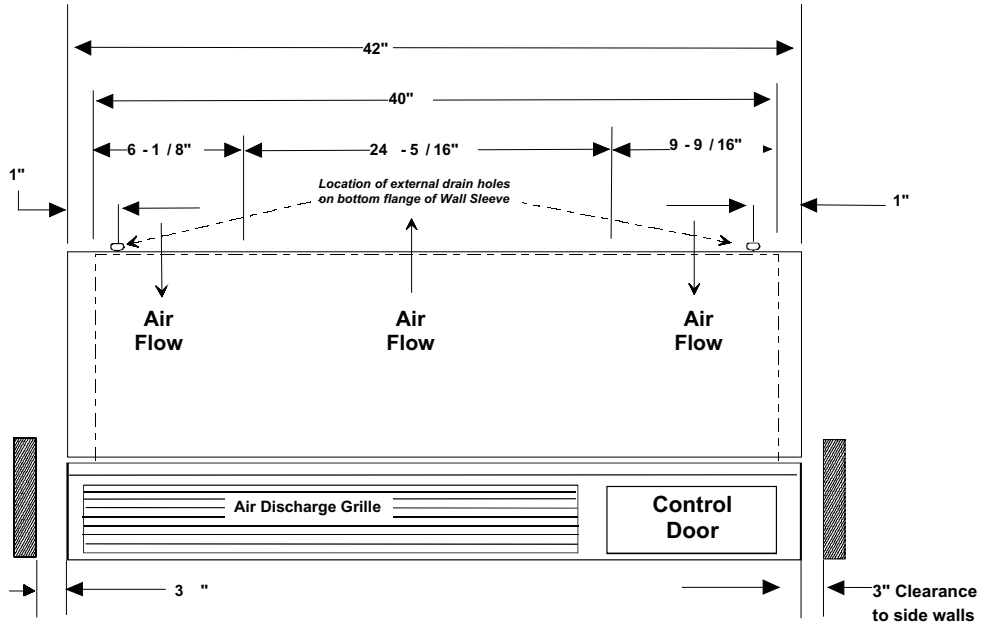
Thermostats

A manufacturer-approved manual, auto changeover or programmable traditional-wired thermostat must be installed to provide full remote operation of the chassis. A Remote Escutcheon Kit must be used to indicate remote operation.

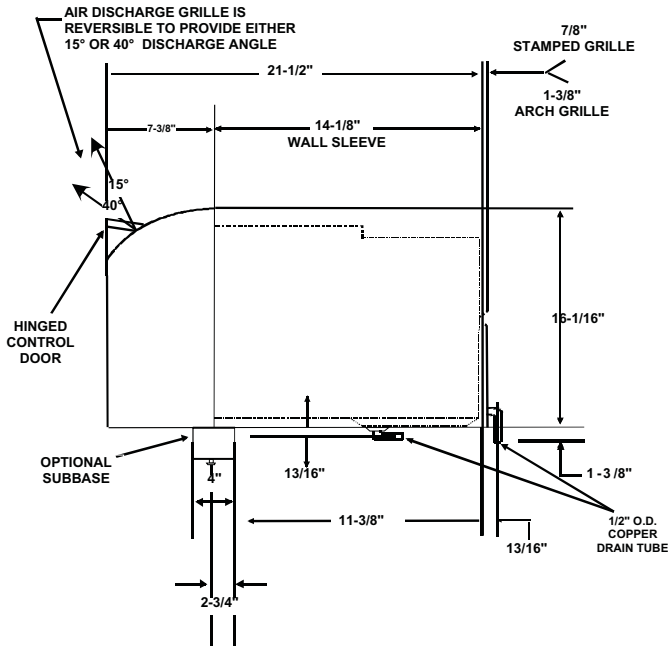
SPECIFICATION SHEET

INSTALLATION: UNIT WITH ACCESSORY WALL SLEEVE AND SUB-BASE ACCESSORY

TOP VIEW

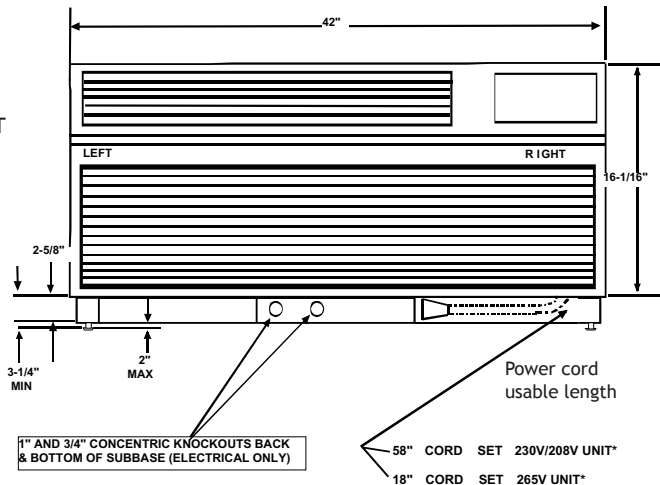


RIGHT VIEW

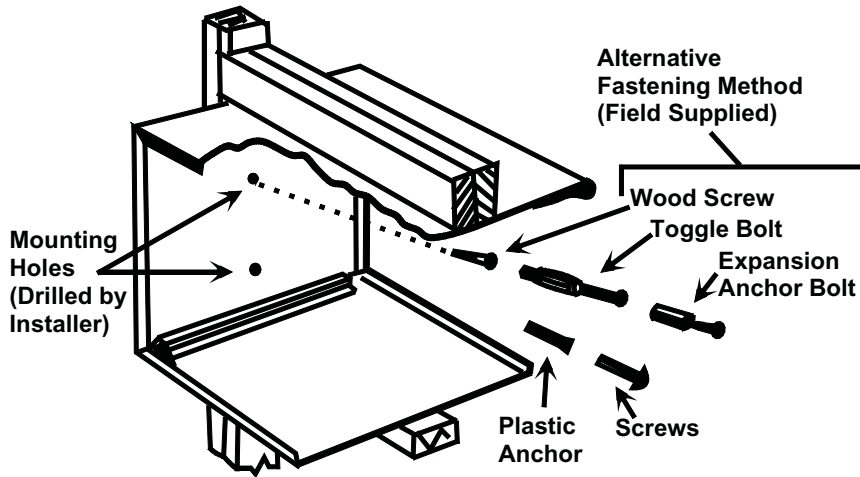


FRONT VIEW

58" LCDI CORD SET
 230V/208V UNIT*



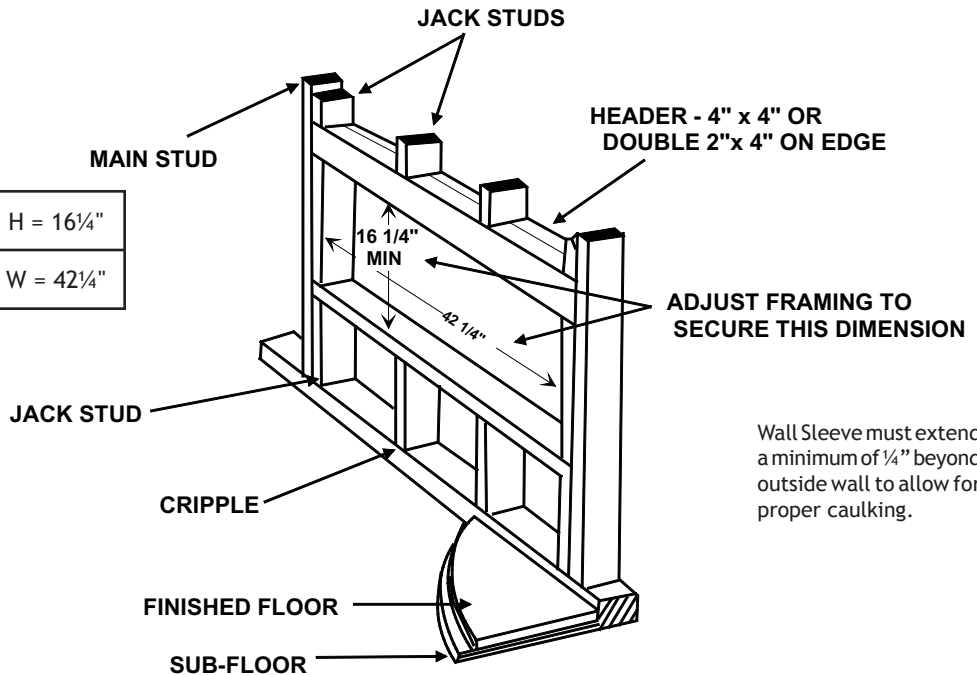
FRAMING FOR ACCESSORY WALL SLEEVE (WS900D)



FASTENING WALL SLEEVE

When installed in an opening, the Wall Sleeve must be horizontally level (side-to-side) and pitched ¼ bubble to the outside. (NOTE: To ensure unit's maximum efficiency, DO NOT over- or under-pitch.)

Wall Sleeve Opening Height should be squared with	H = 16 1/4"
Wall Sleeve Opening Width	W = 42 1/4"



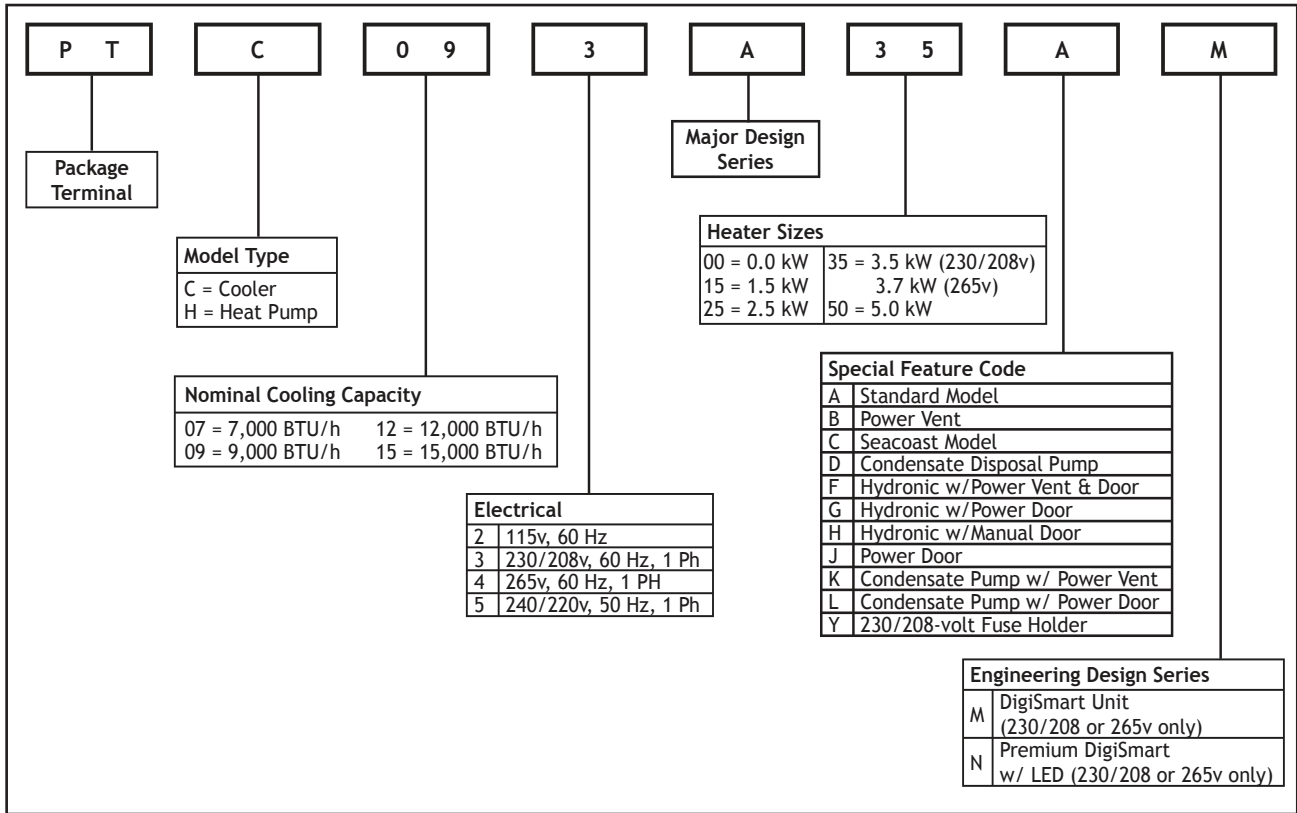
Wall Sleeve must extend a minimum of ¼" beyond outside wall to allow for proper caulking.

Installation Notes

1. If Sub-base (PTSB***E) is installed, allow minimum 3/4" height clearance and maximum 5" height clearance between wall sleeve and floor; allow minimum 2 3/4" protrusion from a finished wall. See Note 4 if using hydronic units.
2. Drain Kit (DK900D) shipped separately. Can be mounted either right side, left side, or bottom of sleeve. If mounted to bottom of sleeve, allow 2" height clearance from floor to bottom of sleeve.
3. For UL approval, 265V units must use Amana® brand Sub-base (PTSB***E) or Amana® brand Hard-Wire Kit (PTPWHWK4). Overcurrent protection on 265V units must be by cartridge-style time-delay fuses, which are included and factory-installed on the Amana® brand 265V chassis.
4. If Hydronic Kit (HWK03 or HVK03) is installed, Wall Sleeve must extend exactly 3" into the room from the finished interior wall. If using the Amana® brand Sub-base (PTSB***E), only the minimum 3/4" height clearance between wall sleeve and floor is permissible. Unit must also be operated with a remote-mounted thermostat.
5. If Duct Kit (MDK02B) is installed, allow a minimum of 2 3/8" into the room from the finished interior wall.

SPECIFICATION SHEET

NOMENCLATURE



 <small>ARI Standard 310/380 PTAC</small> ARI (Air Conditioning & Refrigeration Institute) Standards 310/380	 UL (Underwriters Laboratories) USA and Canada	 CSA (Canadian Standards Association) EEV Certification Programs
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