

PTAC

PACKAGED TERMINAL AIR CONDITIONER AND HEAT PUMP

Features

- **Digismart™** front desk control & energy management software
- **7-Button** touch pad provides complete control to guests for in-room comfort while maintaining energy efficiency
- **Removable Condenser Shroud** allows easy access to enable regular cleaning of coils
- **Pull-out Filter Design** allows easy access to clean or replace the filter. The slide-out design also allows you to use many optional approved filter media.
- **7 5/8" unit front depth:** one of the shallowest silhouettes in the industry today
- Removable condenser shroud allows easy access to enable regular cleaning of coils
- **Stonewood Room Front** offers distinctive contours and a modern appearance to enhance the character of even the most luxurious room, while the sleek 7 3/8" depth — one of the shallowest in the industry — maximizes usable space for your guests.
- **Stonewood Wall Sleeve** has been dramatically strengthened for more rigidity. The sleeve's base pan is now made of drawn steel, so the sleeve has no breakable corner seams that can potentially leak if improperly installed. (This item purchased separately.)



R410/50 Hz
UP TO 11 EER
240/220 VOLT



STANDARD FEATURES

- **Energy Efficiencies:** EERs up to 11.0 and COPs up to 3.3 keep energy consumption to a minimum.
- **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
- **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 fan blades. This water is then atomized and evaporated into the atmosphere through the condenser. Increased surface area from the coil design allows more water to be evaporated on the sides of the coils and helps to minimize condensate run-off.
- **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. This may help prevent bursting water pipes or broken fixtures caused by freezing temperatures.
- **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.
- **7 5/8" Unit Front:** Enhance valuable room space with our slim unit front, which has a sleek 7 5/8" 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.
- **Versatile Style:** Our unit's stylish design and neutral color make it compatible with virtually any room décor or architectural design. The unit becomes less noticeable as it blends into the room's color scheme.
- **Easy to Service and LED Diagnostics:** The R410 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 5/8" depth maximizes usable space for your guests.
- **Remote Thermostat Control:** The DigiSmart wireless remote thermostat is unique in the industry. When this optional accessory 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. DT01A antennae required
- **Extended Heat Pump Heating:** Heat pump models will operate in the heating mode down to as low as 24°F outdoor ambient, providing additional hours of energy-saving operation.
- **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

STANDARD FEATURES (CONT.)

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.
- **Seven-Button Touch Pad:** Provides complete control to guests for in-room comfort while maintaining energy efficiency.
- **Hidden Ventilation Control:** The ventilation control lever is hidden from the occupant's view to allow you to manage ventilation requirements.
- **Front Desk Control:** Each unit comes equipped with the DigiSmart™ control and energy management software. Using the DigiSmart™ software and optional RF Antenna, 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).

OPTIONAL ACCESSORY

Wall Sleeve (14¹/₈" x 42" x 16¹/₁₆"): No more worries about changing out non-standard sleeves that do not accommodate the bulk of what the industry has to offer. Our wall sleeve is an industry-standard size of 14¹/₈" deep x 42" wide x 16¹/₁₆" high. (Please Note: Wall Sleeve must be ordered separately.)

NOMENCLATURE

		PTC	07	5	G	30	AXXX	AA									
		1,2,3	4,5	6	7	8,9	10,11,12,13	14									
Basic Model Type		PTC Standard Cooler PTAC PTH Standard Heat Pump PTHP							Engineering								
									Major & Minor Revisions								
									Features Code								
Nominal Cooling Capacity		10 10000 BTU/h 12 12000 BTU/h							A Standard Model								
									C Corrosion Protection (Seacost)								
									Q Quite STC 31 Chassis								
Voltage		5 240/220V,50 Hz, 1Ph							R RF Antenna								
									X placeholder								
									W Hard-Wired (PTQC)								
Design Series		E&G R-410A															
Heater Size		00 No Electric Heat															
				30 3.0 kW (240/220V)													

SPECIFICATIONS:
COOLING

MODEL ⁴		PTC 125G**AXXX	PTC 105E**AXXX
Voltage		240 / 220	240 / 220
Capacity (BTU/h)		12000/12000	10300/10300
Amps ⁷		5.8/5.8	4.8/4.8
Watts ⁷		1145/1145	980/935
EER		10.5/10.5	10.5/11.0
UNIT WITHOUT ELECTRIC HEATER			
Min. Circuit Amps ^{1,2,7}		7.1	5.9
CFM (Cool/Wet Coil)	High	345	345
	Low	310	310
CFM (Dry Coil)	High	355	355
	Low	330	330
Dehumidification (Pints/Hr.)		3.3	2.4
Net Weight (lbs.)/kg		117/53	103/47
Ship Weight (lbs.)/kg		134/60	118/53

HEAT PUMP

PTH 125E **AXXX	PTH 105E**AXXX
240 / 220	240 / 220
12200/12000	10000/10000
5.8/5.8	4.8/4.8
1220/1200	980/935
10.0/10.0	10.2/10.7
7.1	5.9
345	345
310	310
355	355
330	330
3.3	2.4
125/53	115/52
142/64	132/60

* Actual vent CFM performance will vary due to application and installation conditions.

NOTES

¹ Minimum Circuit Ampacity (MCA) ratings conform to the National Electric Code; however, local codes should apply. Minimum voltage on 240/220-volt models is 198 volts; maximum is 264 volts.

² Overcurrent protection for all units without electric heaters is 15 amps. See heater performance for total MCA.

³ Heating capacity and efficiency based on unit operation without condensate pump; unit automatically switches to electric heat at approximately 24°F outdoor ambient.

⁴ Specify two-digit heater kW size to complete model number.

⁵ R-410A refrigerant used in all systems.

⁷ Refer to electric heat performance data for total MCA and recommended overcurrent protection. Amps and Watts notation refers to compressor only.

HEAT KIT PERFORMANCE

VOLTAGE	ELECTRIC HEATER SIZE (kW)	No. of Stages	NOMINAL HEATING (BTU/H)		TOTAL Watts	TOTAL Amps	Min. Circuit Ampacity ¹	MOP ³ (amps)
			@240V	@220V				
240/220V	3.0	1	10,300	8,500	3,085/2,600	12.8/11.8	16	20

NOTES:

- ¹ Minimum branch circuit ampacity ratings conform to the National Electric Code; however, local codes should apply.
- ² Minimum voltage on 240/220-volt models is 198 volts; maximum is 264 volts.
- ³ Overcurrent protection for all units without electric heaters is 15 amps.
- ⁴ Heating capacity and efficiency based on unit operation without condensate pump; unit automatically switches to electric heat at approximately 24°F outdoor ambient.
- ⁵ Specify two-digit heater kW size to complete model number.
- ⁶ R-410A refrigerant used in all systems.

REVERSE-CYCLE HEATING PERFORMANCE

HEATING CAPACITY		PTH 125E**AXXX	PTH 105E**AXXX
Voltage		240/220	240/220
BTU/h ⁵		11,700/11,600	9700/9500
Amps ⁷		5.8/5.8	4.8/4.8
Watts ⁷		1,070/1,060	890/845
COPS		3.2/3.2	3.2/3.3
CFM (Dry)		355	355

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

NOTES:

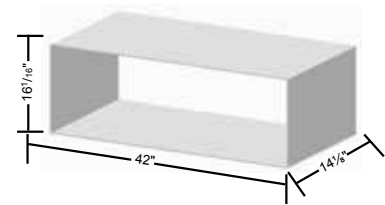
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- ⁵ Specify two-digit heater kW size to complete model number.
- ⁶ R-410A refrigerant used in all systems.
- ⁷ Refer to electric heat performance data for total MCA and recommended overcurrent protection. Amps and Watts notation refers to compressor only.

PTAC ACCESSORIES

WALL SLEEVE 14 1/8" (D) x 42" (W) x 16 1/16" (H)

Our insulated, Stonewood Beige metal sleeves with industry-standard dimensions are shipped with a weather board for use during construction. The WS900E is an industry-standard depth of 14 1/8". 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.

WS900E Standard 14 1/8" D
WS9**D1 Extra Deep
(16" to 24")



OUTDOOR GRILLES

Available in stamped-aluminum or architecturally louvered for application with a WS900D wall sleeve.

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:

CB (Clear Anodized), DB (Dark Brown/Bronze), TB (Stonewood Beige), WB (White), SB (Special/Custom Colors)

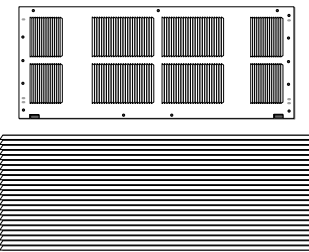
PGK—One-piece injection molded grille using a polymer blend of engineered thermoplastic high-impact strength material with chemical resistance and an exterior UV protective coating.

Choose from three stock colors:

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

Standard Outdoor Grille	
SGK01B	Single Pack

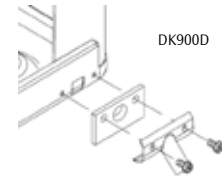
Architectural Grille	
AGK01*B	Single Pack
PGK01*B	Single Pack



WIRE HARNESS KIT (NOT SHOWN)

For quick connections of the remote thermostat 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.

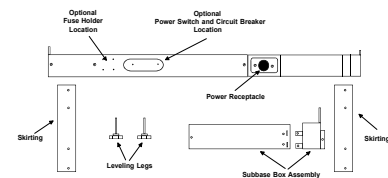
REK10B
Remote Escutcheon Kit
(10 pack)

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 NEC requirements.

PTSB320E	240/220V	15/20A
PTSB000E	Non-electrical	



HARD-WIRE KIT (NOT SHOWN)

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

PTPWHWK4 Hard-Wire Kit

POWER DISCONNECT SWITCH (NOT SHOWN)

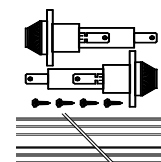
The PSHW**A power-disconnect switch can be used for 240/220-volt physical disconnect, where required by local codes. The switch is rated at a 30-amp capacity and for use with Amana® brand standard sub-bases or PTPWHWK4 Hard-Wire Kits.

PSHW03A	240/220V
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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 sizes.

FHK315E	240/220V	15A
FHK320E	240/220V	20A
FHK330E	240/220V	30A



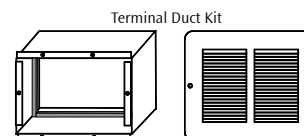
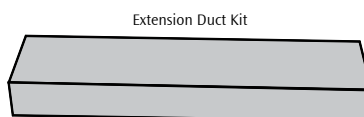
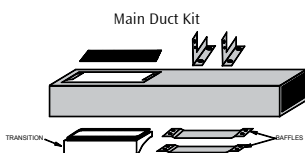
PTAC ACCESSORIES (CONT.)

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.

MDK01E	Main Duct
EDK02B	Extension Duct
TDK02B	Terminal Duct
PTDK01E	Transition Duct Only

See below.



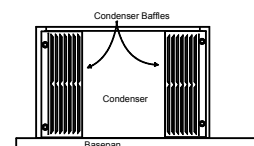
POWER DOOR KIT (NOT SHOWN)

Vent door will automatically open when unit fan is on.

CONDENSER BAFFLE KIT

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.

DGK1B
Condenser Baffle Kit



THERMOSTATS

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.

MODEL #	HEAT STAGES	COOL STAGES	FAN SPEED	# OF WIRES REQUIRED	TEMP LIMITING	BACKLIT	DISPLAY	TYPE	SHAPE & ORIENTATION	CONNECTION
2246002	1	1	1	5	No	Yes	Digital	Manual	Rect./Horiz.	Wired
2246003	2	2	2	7	Yes	Yes	Digital	Manual	Rect./Horiz.	Wired
2246007	2	2	2	7	Yes	Yes	Digital	Auto-Change	Rect./Horiz.	Wired
2246008	2	2	2	7	Yes	Yes	Digital	Programmable	Rect./Horiz.	Wired
*DS01E	2	2	2	0	Yes	Yes	Digital	Manual	Rect./Horiz.	Wireless

*Requires optional DT01A to operate

PTAC ACCESSORIES (CONT.)

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.

KL03E Security Key Lock

REPLACEMENT SPARE FILTERS (NOT SHOWN)

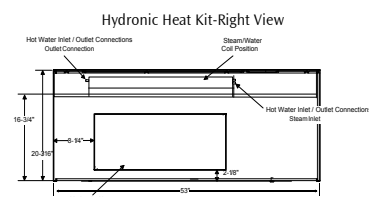
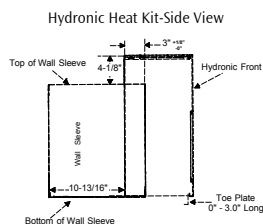
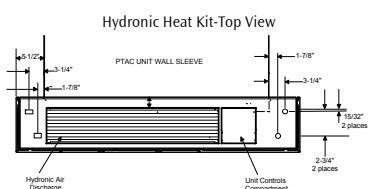
Helps keep dirt and lint out of the air and off the coil, thus increasing the unit's efficiency. Amana® brand filters are easy to remove, wash, and replace.

FK10A Filters (10-pack) - A Series
FK10B Filters (10-pack) - B Series for R22 units
FK10E Filters (10-pack) - E Series for R410A units

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.

HWK03 Hydronic Water Kit
HVK03 Hydronic Steam Kit



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.)

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

DIGISMATM ACCESSORIES

DD01E — 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 remote thermostat or wirelessly through the optional DigiTenna DT01A and DP01A Gateway.

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

DL01E — DigiPlatform: WEB-ENABLED PLATFORM CONTROLLER

The DigiPlatform uses standard 115-volt power and communicates by antenna 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.

All functions are accessed through a secure and unique website for each location, which provides control of the DigiSmart Energy Management system from any Internet-connected computer.

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.

DigiPlatform can use a 120-volt or 240-volt power source; may require a power cord.

DS01E — 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.

DSUK01C — 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

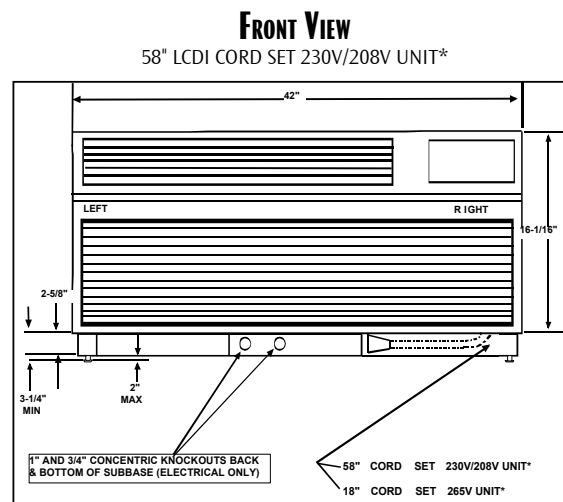
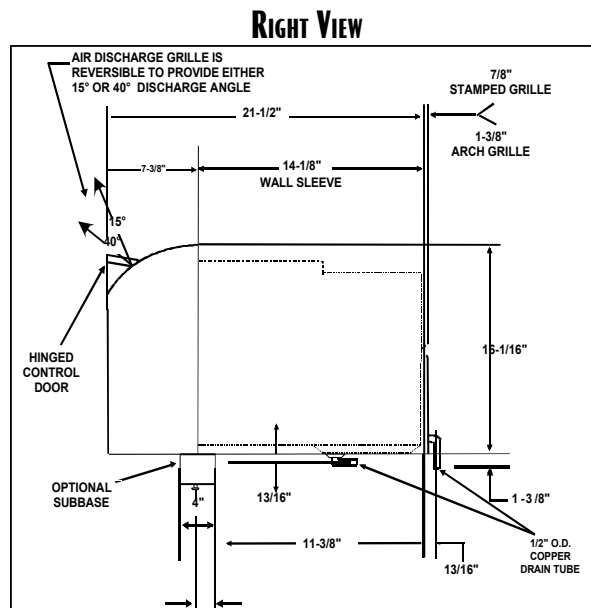
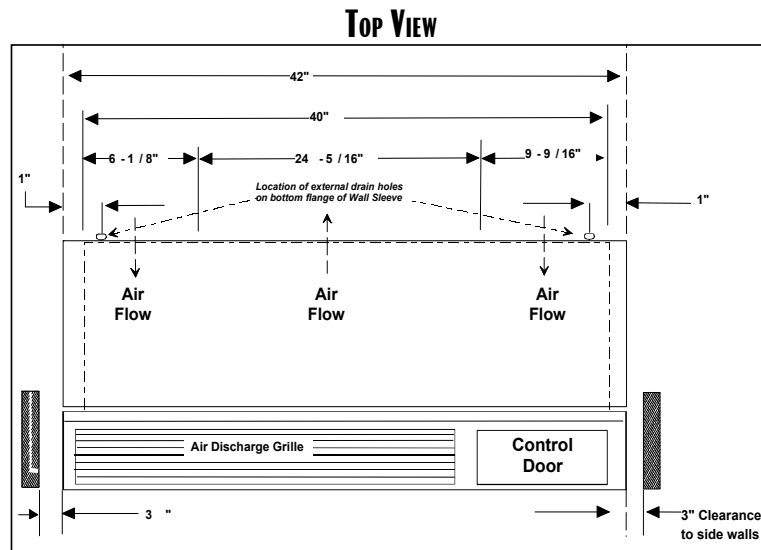
REMOTE ENERGY MANAGEMENT SYSTEMS (EMS) READY

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.

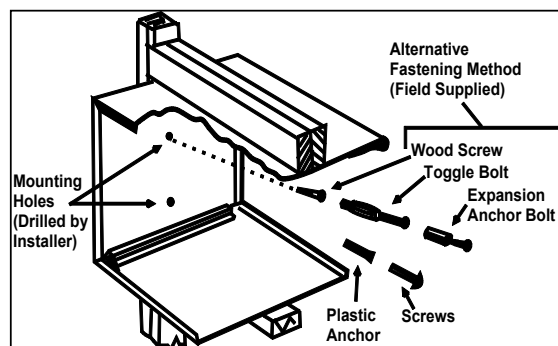
REMOTE THERMOSTAT READY

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.

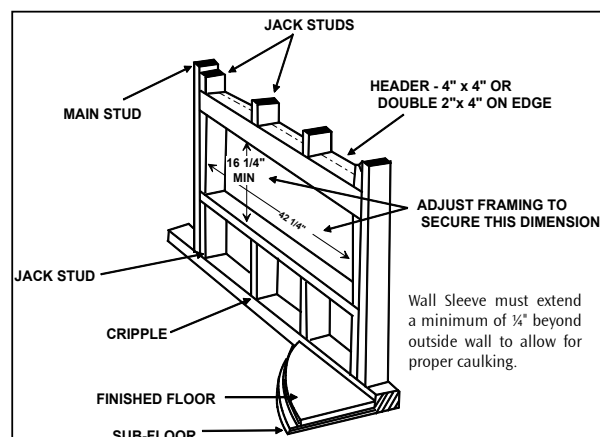
UNIT WITH ACCESSORY WALL SLEEVE AND SUB-BASE ACCESSORY



FRAMING FOR ACCESSORY WALL SLEEVE (WS900D)



Wall Sleeve Opening Height Should Be Squared with Wall Sleeve Opening Width	H = 16¼"
	W = 42¼"

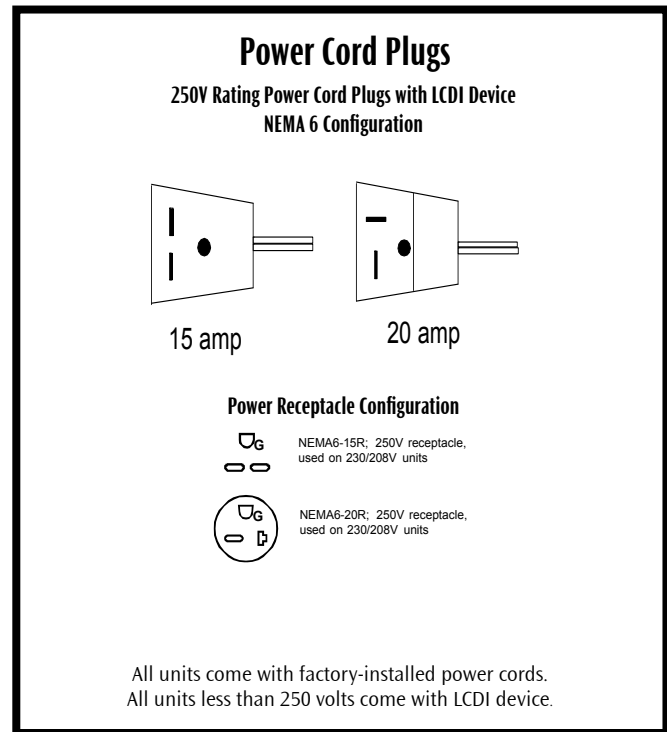


FASTENING WALL SLEEVE

When installed in an opening, the Wall Sleeve must be horizontally level (side-to-side) and pitched $\frac{1}{4}$ bubble to the outside. (NOTE: To ensure unit's maximum efficiency, **DO NOT** over- or under-pitch.)

INSTALLATION NOTES

1. If **Sub-base** (PTSB***E) is installed, allow minimum $3\frac{1}{4}$ " height clearance and maximum 5" height clearance between wall sleeve and floor; allow minimum $2\frac{3}{4}$ " 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.
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 $3\frac{1}{4}$ " height clearance between wall sleeve and floor is permissible.
5. If **Duct Kit** (MDK02B) is installed, allow a minimum of $2\frac{3}{8}$ " into the room from the finished interior wall.



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.

