

Operating Controls

Operating your air conditioner properly helps you to obtain the best possible results.

This section explains proper air conditioner operation.

IMPORTANT:

- If you turn off the air conditioner, wait at least 3 minutes before turning it back on. This prevents the air conditioner from blowing a fuse or tripping a circuit breaker.
- Do not try to operate your air conditioner in the cooling mode when outside temperature is below 61°F (16°C). Do not try to operate your air conditioner in the heating mode when outside temperature is over 86°F (30°C).

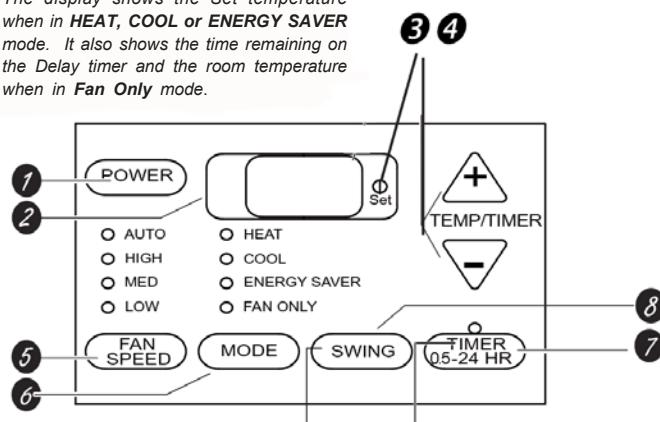
NOTES:

- NOTE:** Factory default setting is for °F. To convert to °C, press the **INCREASE ▲ / DECREASE ▼** buttons simultaneously for approximately 5 seconds. To return to °F, repeat the procedure.
- In the event of a power failure, your air conditioner will operate at the previous settings when the power is restored.

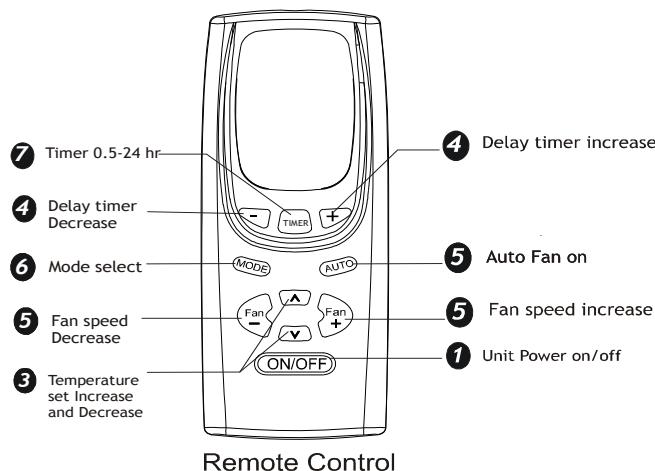
Lights next to the touch pads on the air conditioner control panel indicate the selected settings.

Light indicates the unit is in the temperature or delay time Set mode.

The display shows the Set temperature when in **HEAT**, **COOL** or **ENERGY SAVER** mode. It also shows the time remaining on the Delay timer and the room temperature when in **Fan Only** mode.



Air Conditioner Controls



Remote Control

Controls

① Power Pad (Button)

Turns air conditioner on and off. When turned on, the display will show the room temperature.

② Display

Shows the Set temperature when in **HEAT**, **COOL** or **ENERGY SAVER** mode; shows the time remaining on the Delay Timer; shows the room temperature when in **Fan Only** mode. The **SET** light will turn on while setting.

③ Temp Increase ▲ / Decrease ▼ Pads

Use to set temperature when in **HEAT** (on some models), **COOL** or **ENERGY SAVER** mode. The **SET** light will turn on while setting.

④ Delay Timer Increase ▲ (+) / Decrease ▼ (-) Pads

Each touch of the **INCREASE ▲ / DECREASE ▼** pads on the unit or the **INCREASE (+) / DECREASE (-)** pads on the remote control will set the delay time when using the **TIMER 0.5-24 hr.**

The **SET** light will turn on while setting.

⑤ Fan Speed Pads

Use to set the fan speed to **LOW**, **MED**, **HIGH** or **AUTO**, on the unit.

NOTE: On the remote control, use the fan speed **INCREASE (+) / DECREASE (-)** pads to set the fan speeds to **LOW**, **MED** or **HIGH**. Use the **AUTO** pad to turn Auto fan on.

⑥ Mode Pad

Use to set the air conditioner to **COOL**, **ENERGY SAVER**, **FAN ONLY** or **HEAT** (on some models) mode.

⑦ Timer Pads

TIMER ON - When the air conditioner is off, it can be set to automatically come on in 0.5 (1/2 hr.) to 24 hours at its previous mode and fan settings.

TIMER OFF - When the air conditioner is on, it can be set to automatically turn off in 0.5 (1/2 hr.) to 24 hours.

How to set:

Press the **TIMER 0.5-24 hr** pad on the unit or the **TIMER** pad on the remote control. Each touch of the **INCREASE ▲ / DECREASE ▼** pads on the unit or the **INCREASE (+) / DECREASE (-)** pads on the remote control will set the timer in 0.5 (1/2 hr.) or 1-hour intervals. (The delay timer can be set in 0.5 (1/2 hr.) increments if programmed for under 10 hours, but if the delay timer is set for above 10 hours, the timer will be set in 1-hour increments.) The **SET** light will turn on while setting.

To review the remaining time, press the **TIMER 0.5-24 hr TIMER** pad on the unit or the **TIMER** pad on the remote control. Use the **INCREASE ▲ / DECREASE ▼** pads on the unit or the **INCREASE (+) / DECREASE (-)** pads on the remote control to set a new time if desired.

To cancel the timer, press and hold the TIMER 0.5-24 hr pad until the light on the TIMER 0.5-24 hr pad goes off.

⑧ Swing Pad

Turn on to provide continuous side-to-side air circulation. For fixed side-to-side air direction, turn on until the desired air direction is obtained, then turn it off.

Remote Control:

- To ensure proper operation, aim the remote control at the signal receiver on the air conditioner.
- The remote control signal has a range of up to 20 feet.
- Make sure nothing is between the air conditioner and the remote control that could block the signal.
- Make sure your batteries are fresh and installed correctly as indicated on the remote control.

Cool Mode

Use the **COOL** mode at **LOW, MED, HIGH, or AUTO FAN SPEED** for cooling. Use the **TEMPERATURE INCREASE ▲ / DECREASE ▼** pads to set the desired temperature between 61° and 86°F in 1° increments.

The compressor will cycle on and off to keep the room at the set level of comfort. Set the thermostat at a lower number and the indoor air will become cooler. Set the thermostat at a higher number and the indoor air will become warmer.

NOTE: If the air conditioner is off and then turned on while set to a **COOL** setting, or if it is turned from a fan setting to a **COOL** setting, it may take approximately 3 minutes for the compressor to start and cooling to begin.

Cooling Descriptions

For Normal Cooling - Select the **COOL** mode and **HIGH** or **MED** fan with a middle set temperature.

For Maximum Cooling - Select the **COOL** mode and **HIGH** fan with a lower set temperature.

For Quieter & Nighttime Cooling - Select the **COOL** mode and **LOW** fan with a middle set temperature.

Energy Saver Mode

Controls the fan.

ON - The fan will cycle on and off with the compressor.

This results in wider variations of room temperature and humidity and is normally used when the room is unoccupied.

NOTE: The fan may continue to run for a short time after the compressor cycles off.

OFF - The fan runs all the time, while the compressor cycles on and off.

Fan Only Mode

Use the **FAN ONLY** mode at **LOW, MED** or **HIGH** fan speed to provide air circulation and filtering without cooling. Since the fan only settings do not provide cooling, a **SET** temperature cannot be entered. The room temperature will appear in the display.

NOTE: Auto Fan Speed cannot be used when in the **FAN ONLY** mode.

Heat Mode (on some models)

Use the **HEAT** mode at **LOW, MED, HIGH** or **AUTO FAN SPEED** for heating. Use the **TEMPERATURE INCREASE ▲ / DECREASE ▼** pads to set the desired temperature between 61°F and 86°F in 1°F increments.

Auto Fan Speed

Set to **AUTO** fan speed for the fan speed to automatically set to the speed needed to provide optimum comfort settings with the set temperature. If the room needs more cooling, the fan speed will automatically increase. If the room needs less cooling, the fan speed will automatically decrease.

NOTE: Auto Fan Speed cannot be used when in the **FAN ONLY** mode.

Power Outage Recovery Feature

In the case of a power outage or interruption, the unit will automatically re-start in the settings last used, after the power is restored. If the **TIMER 0.5-24 hr** feature was set, it will resume countdown. You may need to set a new time if desired.

BEFORE CALLING SERVICE



WARNING

HIGH VOLTAGE

Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Turn the fan control to the OFF position and remove the unit plug from the wall outlet prior to inspection or maintenance. Failure to do so may cause personal injury or death due to electrical shock.



The following is a list of problems that are sometimes encountered when using a room air conditioner. Possible cause and suggested remedies are given for each problem.

If the problem cannot be fixed using the suggested remedies, see *WHEN SERVICE IS REQUIRED* section.

PROBLEM	POSSIBLE CAUSE	SUGGESTED REMEDY
UNIT WILL NOT RUN	No power to unit	Push reset button on power cord. Set Fan Control to position other than OFF. Make sure plug is firmly seated in outlet. Check for blown fuses, tripped circuit breakers.
LITTLE OR NO COOLING LITTLE OR NO HEATING (fan and compressor run)	Fresh air/exhaust damper open Obstructed indoor or outdoor airflow Dirty air filters Unit undersized for application	Set vent to CLOSED. Remove obstruction from indoor grille or outdoor louvers. Dirty air filter. Clean or replace, as needed. Check with dealer to determine proper capacity unit for application.
LITTLE OR NO COOLING LITTLE OR NO HEATING (only fan runs)	Temperature Control not set properly	For cooling, turn Temperature Control to cooler setting. For heating, turn Temperature Control to warmer setting.
NOISY UNIT	Loose front on mounting assembly Weak building construction Water hitting fan blade Unit oversized for application: compressor cycles on and off frequently	Tighten any loose parts. Provide additional support for unit. Normal in high humidity. Stop noise by removing drain plug or adding condensate drain cup. Check with dealer to determine proper capacity unit for application.
MOUNTING SUPPORT NOT INSTALLED	Storm window frame installed in window	Some models require removal of storm window frame before installation.
FROST ON INDOOR COIL	Dirty air filter Normal for low outdoor temperatures	Clean air filter by vacuuming or washing with water and mild soap. Turning Temperature Control to warmer setting reduces occurrence and duration of frost.
FROST ON OUTDOOR COIL (heat pump models only)	Normal for outdoor temperatures at or below 45°F	Call for service <i>only</i> if unit does not heat room and you have checked all problems and remedies listed under LITTLE OR NO HEATING.
ODORS IN COOLING	Mold, mildew, or algae formation on wet surfaces	To reduce algae growth, use algaecide tablet in base pan; remove drain plug; add condensate drain cup and hose. Thoroughly clean unit.
ODORS IN HEATING	Normal for first time electric heater is used each season	Caused by dust accumulation during unused months. Odor dissipates quickly with heater use.

When Service Is Required

Your room air conditioner dealer can give you the name of your nearest Authorized Service Center. Help them give you prompt service by providing:

- An accurate description of problem.
- Complete model, serial, and manufacturing numbers from serial plate.
- Proof of purchase (sales receipt) upon request.

Repair by unauthorized servicer that results in subsequent failure of unit voids warranty. Warranty details are contained in warranty certificate enclosed with unit.

Keep accurate records of service calls, including what was done, servicer's name, and date of service.

Any Questions?

Most questions can be answered by your local dealer. If you have other matters that cannot be resolved locally, or you need additional information regarding other heating and cooling products offered by us - please call:

**CONSUMER INFORMATION LINE
AMANA TOLL FREE**

1-877-376-0214 (U.S. and Canada only)

email us at: customerservice@goodmanmfg.com

fax us at: (713) 856-1821

(Not a technical assistance line for dealers.)

Outside the U.S. and Canada, call 1-713-861-2500.

(Not a technical assistance line for dealers.)

Your telephone company will bill you for the call.



LIMITED WARRANTY CONSUMERS

RAC WINDOW TYPE H & C (AE, AH, PBC, PBE, PBH)

This warranty is extended only to purchasers for personal, family or household use. A distinct warranty is extended to commercial customers.

Amana® brand RAC window-type heating or air conditioning units identified as AE, AH, PBC, PBE and PBH units are warranted by Goodman Company, L.P. to consumers against defects in materials and workmanship under normal use and maintenance, as provided below.

FIRST-YEAR COVERAGE (ENTIRE UNIT): We will repair or replace, free of charge (to include labor), any part of a unit that proves to be defective due to workmanship or materials within the first year after the date of purchase.

SECOND THROUGH FIFTH YEARS SEALED SYSTEM COVERAGE: During the 2nd through 5th years after the date of purchase, we will repair (to include labor) any refrigerant leaks caused by defects in workmanship or material of a unit, and will repair or replace (to include labor) any portion of the evaporator coil, condenser coil, compressor, reversing valves or connecting tubing that proves to be defective, in workmanship or materials.

If the date of purchase cannot be verified, the warranty period begins three months after the month of manufacture (indicated by the first four digits of the unit's serial number (yymm)).

Any part replaced or leak repaired under this warranty is warranted only for the unexpired portion of the original warranty term.

The above remedies are our only responsibilities, and the consumer's only remedies, under this warranty. For warranty credit, any defective part must be returned to an Amana® brand heating and air conditioning products distributor by an authorized Amana® brand servicer; and all warranty service must be performed by an authorized Amana® brand servicer. To locate an authorized Amana® brand servicer, contact Goodman Company Consumer Affairs at the number or address found at the bottom of this certificate.

Goodman will not pay for electricity or fuel costs, or increases in electricity or fuel costs, for any reason, including additional or unusual use of supplemental electric heat. This warranty does not cover lodging.

WARRANTY LIMITATIONS: WE ARE NOT RESPONSIBLE FOR:

- Damage or repairs required as a result of faulty installation or application
- Damage or repairs required as a result of floods, fires, wind, lightning, accidents, corrosive atmosphere or other conditions beyond our reasonable control
- Damage or repairs required as a result of the use of components or accessories not compatible with the unit
- Units installed outside of the United States and Canada
- Normal maintenance, as described in the installation and operating manual, such as cleaning of the coils, filter cleaning and/or replacement, or damage caused by failure to perform such maintenance
- Parts or accessories not supplied or designated for use by us
- Damage or repairs required as a result of any improper use, maintenance, operation or servicing
- Damage or failure to start due to interrupted and/or inadequate electrical service
- Changes in the appearance of the unit that do not affect its performance
- Replacement of fuses and replacement or resetting of circuit breakers

THIS WARRANTY IS THE ONLY EXPRESS WARRANTY PROVIDED ON THE UNITS COVERED; AND ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THIS WARRANTY. Some states and provinces do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

WHETHER ANY CLAIM IS BASED ON NEGLIGENCE OR OTHER TORT, BREACH OF WARRANTY OR OTHER BREACH OF CONTRACT, OR ANY OTHER THEORY, IN NO EVENT SHALL WE BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, LOSS OF USE OF A UNIT OR OTHERWISE. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province.

Model # & Serial # _____ Date of Purchase _____



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For service, contact an Authorized Amana® Brand Servicer.

Part No. PW-342C
12/2010

Goodman Consumer Affairs • 7401 Security Way • Houston, Texas 77040
1-877-254-4729 inside U.S.A. • 1-713-861-2500 outside U.S.A.

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WARRANTY TO COMMERCIAL CUSTOMERS

RAC WINDOW TYPE H & C (AE, AH, PBC, PBE, PBH)

This warranty is extended to commercial customers only. A distinct warranty is extended to purchasers for personal, family or household use.

Amana® brand RAC window-type heating or air conditioning units identified as AE, AH, PBC, PBE and PBH units are warranted by Goodman Company, L.P. to commercial customers against defects in materials and workmanship under normal use and maintenance, as provided below.

FIRST-YEAR COVERAGE (ENTIRE UNIT): We will repair or replace, free of charge (to include labor), any part of a unit that proves to be defective due to workmanship or materials within the first year after the date of purchase.

SECOND THROUGH FIFTH YEARS SEALED SYSTEM COVERAGE: During the 2nd through 5th years after the date of purchase, we will repair (to include labor) any refrigerant leaks caused by defects in workmanship or material of a unit, and will repair or replace (to include labor) any portion of the evaporator coil, condenser coil, compressor, reversing valves or connecting tubing that proves to be defective, in workmanship or materials.

If the date of purchase cannot be verified, the warranty period begins three months after the month of manufacture (indicated by the first four digits of the unit's serial number (yymm)).

Any part replaced or leak repaired under this warranty is warranted only for the unexpired portion of the original warranty term.

The above remedies are our only responsibilities, and the customer's only remedies, under this warranty. For warranty credit, any defective part must be returned to an Amana® brand heating and air conditioning products distributor by an authorized Amana® brand servicer; and all warranty service must be performed by an authorized Amana® brand servicer. To locate an authorized Amana® brand servicer, contact Goodman Company Consumer Affairs at the number or address found at the bottom of this certificate.

Model # & Serial # _____

Date of Purchase _____

Goodman will not pay for electricity or fuel costs, or increases in electricity or fuel costs, for any reason, including additional or unusual use of supplemental electric heat. This warranty does not cover lodging.

WARRANTY LIMITATIONS: WE ARE NOT RESPONSIBLE FOR:

- Damage or repairs required as a result of faulty installation or application
- Damage or repairs required as a result of floods, fires, wind, lightning, accidents, corrosive atmosphere or other conditions beyond our reasonable control
- Damage or repairs required as a result of the use of components or accessories not compatible with the unit
- Units installed outside of the United States and Canada
- Normal maintenance, as described in the installation and operating manual, such as cleaning of the coils, filter cleaning and/or replacement, or damage caused by failure to perform such maintenance
- Parts or accessories not supplied or designated for use by us
- Damage or repairs required as a result of any improper use, maintenance, operation or servicing
- Damage or failure to start due to interrupted and/or inadequate electrical service
- Changes in the appearance of the unit that do not affect its performance
- Replacement of fuses and replacement or resetting of circuit breakers

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For service, contact an Authorized Amana® Brand Servicer.

For answers to questions regarding the above or to locate an authorized servicer, contact

Goodman Consumer Affairs • 7401 Security Way • Houston, Texas 77040
1-877-254-4729 inside U.S.A. • 1-713-861-2500 outside U.S.A.

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