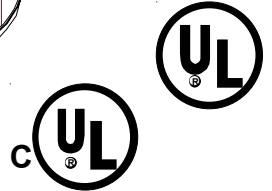
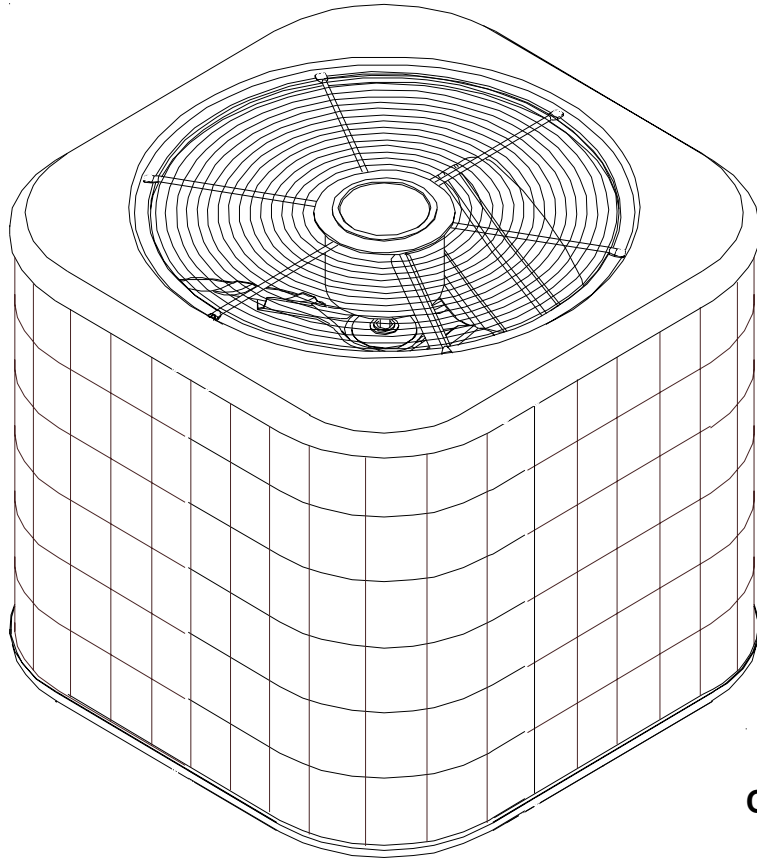


# REMOTE CONDENSING UNIT

## User's Information Manual

**Amana**<sup>®</sup>



**Thank you** for investing in our quality Comfort System. The air conditioner you have purchased is part of a Split System and has both indoor and outdoor components. With proper installation and maintenance, it should provide you with years of dependable service.

Take time to familiarize yourself with the information concerning unit features, operation, and maintenance contained within this manual.

Check the serial plate for model identification. Record this information on the last page of this booklet.

Please read this User's Manual carefully, and follow the instructions given. Keep it in a safe place for future reference.

Your warranty certificate is supplied with this unit. Read it carefully and note what is covered. Keep it and a copy of the bill received from your dealer in a safe place for future reference. This can serve as proof of the date of installation.

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**Amana**<sup>®</sup>  
Heating & Air Conditioning  
**LASTS AND LASTS AND LASTS.™**

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March 2004

# ATTENTION INSTALLING PERSONNEL

As a professional installer you have an obligation to know the product better than the customer. This includes all safety precautions and related items.

Prior to actual installation, thoroughly familiarize yourself with this Instruction Manual. Pay special attention to all safety warnings. Often during installation or repair it is possible to place yourself in a position which is more hazardous than when the unit is in operation.

Remember, it is **your** responsibility to install the product safely and to know it well enough to be able to instruct a customer in its safe use.

Safety is a matter of common sense...a matter of thinking before acting. Most dealers have a list of specific good safety practices...follow them.

The precautions listed in this Installation Manual are intended as supplemental to existing practices. However, if there is a direct conflict between existing practices and the content of this manual, the precautions listed here take precedence.

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### Safety and Operational Tips

- To maintain greater personal comfort, run the fan continuously. This will minimize "air pockets" that are too cool or warm for your liking.
- To ensure proper operation, be sure that the unit has unrestricted airflow (see Installation Instructions for clearances). The unit area must be kept clear of grass clippings, leaves, or other debris. Establish a regular service and maintenance schedule to ensure efficient and safe operation of the unit.
- To keep the unit efficiency at an optimal level, ensure that supply and return air registers are not blocked. Drapes, furniture, and toys are some of the items commonly found obstructing registers.

# Important System Information

Here is the Model number, Manufacturing number, and Serial number of your unit.

**MODEL**  
**MFG**  
**PIC**  
**SERIAL#**

<p><b>CRANKCASE HEATER</b>   YES <input type="checkbox"/> NO <input type="checkbox"/></p>
-------------------------------------------------------------------------------------------

Record installer information below:

Installing Company: \_\_\_\_\_  
 Telephone Number: \_\_\_\_\_  
 Installation Date: \_\_\_\_\_



Space has been provided below to record the Model, Manufacturing, and Serial numbers of the indoor air handler, "A" coil, or accessory equipment installed with your unit. Recording this information here will assist you in the future should service be required. (Note: Some accessories will not have serial numbers.)




**MODEL** \_\_\_\_\_  
**MFG** \_\_\_\_\_  
**SERIAL#** \_\_\_\_\_

**MODEL** \_\_\_\_\_  
**MFG** \_\_\_\_\_  
**SERIAL#** \_\_\_\_\_

**NOTE:** If safety labels are missing or illegible, contact the installing dealer for ordering information.

 <p><b>⚠ WARNING</b></p>
<p><b>HAZARDOUS MOVING PARTS</b>                  Fan blades may start rotating automatically.</p> <p>Do not apply power to this appliance or compressor if the compressor terminal cover has been removed or is not firmly in place.</p>
<p><b>⚠ AVERTISSEMENT</b></p> <p><b>PIÈCES MOBILES DANGEREUSES</b>                  Les ailes du ventilateur peuvent commencer à tourner automatiquement.</p> <p>N'applique pas le pouvoir à cet appareil ou compresseur si la borne couvre a été enlevée ou n'est pas fermement dans endroit.</p> <p style="text-align: right; font-size: small;">20183701</p>

 <p><b>WARNING</b></p>	
<p>FIRE AND/OR SEVERE PERSONAL INJURY HAZARD. REFRIGERANT MUST BE REMOVED FROM BOTH THE LOW AND HIGH PRESSURE SIDES OF THE SYSTEM BEFORE HEAT IS APPLIED.</p>	
104666-01	

	 <p><b>WARNING</b></p>
	<p>Risk of electric shock or death.                  Disconnect remote electric power supply or supplies before servicing.                  This compartment must be closed except when servicing.</p>
	 <p><b>AVERTISSEMENT</b></p>
<p>Danger de choc électrique ou de mort.                  Débrancher toute boîte à fusibles avant l'entretien.                  Ce compartiment doit rester ferme, sauf pour l'entretien.</p>	

# Typical Thermostat Operation

Your thermostat is the control center for your Split System. It is very important that the thermostat be located where it can best “sense” the average room temperature. It must not be located where it is exposed to hot or cold drafts or to hot or cold spots on the wall, such as those received from outside walls, walls with pipes inside, or from openings into the attic. Because of the wide variety of programmable thermostats available, we cannot describe how all of them work. However, a typical thermostat has two switches: a SYSTEM switch and a FAN switch.

## ! WARNING

To avoid possible equipment damage, personal injury, fire or death, the following instructions must be observed regarding unit location, air requirements and operating procedures.

The SYSTEM switch can include settings of HEAT, OFF, COOL, AUTO:

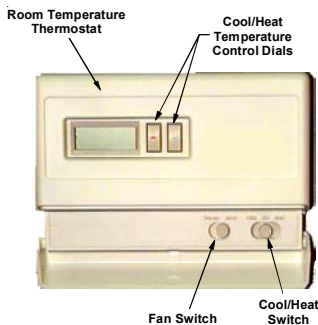
- HEAT** – Your comfort system provides heat when the temperature in the room falls below the temperature selected. No matter how warm the room becomes, cooling will not be provided.
- OFF** – Your comfort system will not provide heating or cooling, no matter how cold or hot the room becomes.
- COOL**– Your comfort system provides cooling when the temperature in the room rises above the temperature selected. No matter how cold the room becomes, heat will not be provided.
- AUTO**– Your comfort system will provide heat when the temperature in the room falls below the temperature selected, and will provide cooling when the temperature in the room rises above the temperature selected. With most of these thermostats, you will have a temperature range in which neither heating or cooling is being provided. The AUTO setting will help your building avoid temperature extremes, but it may increase your operating costs.

## EMERGENCY

**HEAT – EMERGENCY HEAT** is only used with heat pumps. Emergency heat means the compressor (i.e., the outdoor unit) is turned off, and your backup source (if present) will provide heat when the temperatures in the room falls below the temperature selected. (No matter how warm the room becomes, cooling will not be provided.) The backup source is usually electricity, but it may be a gas or oil furnace. The EMERGENCY HEAT setting may be used if you suspect a problem exists with the heat provided by the compressor, but your dealer is not able to service it immediately. With some comfort systems, the EMERGENCY HEAT setting may also be used to provide a quicker warm-up of the room. Once the warm-up is completed, you should usually return the system switch to the HEAT or AUTO setting. If you leave the system switch in the EMERGENCY HEAT setting, it may increase your operating costs.

**NOTE:** Keeping your windows closed whenever the thermostat SYSTEM switch is in the HEAT, COOL or AUTO setting will keep operating costs down.

The Fan switch may include settings of AUTO and ON:



System Switch	Fan Switch	Action
OFF	AUTO	None
COOL	AUTO	System only cools, fan cycles off and on.
COOL	ON	System only cools, fan runs all the time.
HEAT	AUTO	System only heats, fan cycles off and on.
HEAT	ON	System only heats, fan runs all the time.
OFF	ON	No heating or cooling, fan runs all the time.

**Typical Thermostat**

**AUTO**– The indoor fan is operating when heating or cooling is being provided. **NOTE:** With some comfort systems, the indoor fan may continue to run for a short time after the compressor shuts off. With most gas furnaces, the indoor fan will start a short time after the burners are lit, and will keep running for a short time after the burners shut off. When your comfort system is not heating or cooling, the fan will not run.

**ON** – The indoor fan runs continuously.

# Typical Thermostat Operation

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## CAUTION

Do not exceed the set point limits preset at the factory. As shipped from the factory, your comfort system is designed to provide cooling only when the outdoor temperature is 55°F or higher. Exceeding these limits may result in severe equipment damage.

In some commercial applications or in a few homes, you may need cooling indoors even when the outdoor temperature is less than 55°F. If you do, discuss it with your dealer before operating your comfort system during cool weather.

In most homes, these limits will not cause problems. To avoid potential problems, you may want to remind children not to play with the thermostat.



## CAUTION

Over adjusting or “jiggling” the thermostat switch will cause the compressor on the outdoor unit to turn on then off, then quickly on again. Eventually this will cause a blown fuse, a tripped circuit breaker, and/or a damaged compressor. Do not move the temperature selector on the thermostat for at least five minutes after the compressor has shut off.

**IMPORTANT:** Keep light bulbs and other heat sources away from the thermostat. Heat from these items may cause the thermostat to falsely register the temperature of the room as warm when in actuality it may be quite cold.

Residential room thermostats must be exposed to the air in the room in order to accurately control room temperature. It must not be covered. Thermostats used in commercial buildings however can be covered if approved thermostat guards are used. If you need a thermostat guard for your commercial building, contact your dealer or another qualified servicer.

Some comfort systems will include a programmable thermostat. If your system does not include a programmable thermostat, you may want to discuss it with your dealer. Programmable thermostats can automatically switch to a more economical temperature setting when your building is unoccupied or you are sleeping. Programmable thermostats automatically switch to a more comfortable temperature setting at the time you have previously selected. A programmable thermostat can reduce operating costs without substantially reducing comfort.

For more information on your thermostat, consult the literature that shipped with your thermostat. If you have read it and still have questions, contact your dealer.

# General

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## Electrical Power Supply

Many outdoor units include a crankcase heater. This small heater warms the oil in the compressor for improved lubrication. Once the needed temperature has been reached, most of these heaters will shut off automatically.

These heaters work effectively, but not rapidly. If your outdoor unit has a crankcase heater and the power has been disconnected from your outdoor unit for more than two hours, you must connect electrical power to the outdoor unit for at least four hours before setting the thermostat so as to cause the unit to come on.

Not all outdoor units have crankcase heaters. If you are not certain whether yours does or not, contact your dealer.

If your outdoor air conditioning (not heat pump) unit does have a crankcase heater, you may wish to shut it off in the fall after cooling season is completely over. To do this, simply open the disconnect switch which is near the outdoor unit, or turn the proper circuit breaker at the electrical panel to the OFF position. This could save you a small amount of your winter electrical bills. If you choose to do this, remember - a four hour warm-up period with the electrical power connected is necessary before running the air conditioner again in the spring. If you forget this warm-up period, you run the risk of severe equipment damage.

Most of your questions can be answered by your local dealer. Check with your dealer first if you need further information regarding the operation, maintenance, or service of your unit. 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

1-877-254-4729 (U.S. only)

email us at: [customerservice@goodmanmfg.com](mailto:customerservice@goodmanmfg.com)

fax us at: (731) 856-1821

(Not a technical assistance line for dealers.)

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

(Not a technical assistance line for dealers.)

Your telephone company will bill you for the call.

## Refrigerant

Your comfort system uses R-22 as a refrigerant. R-22 has been used as a refrigerant for many years. It is classified as an HCFC (**H**ydro**Ch**loro**Fl**uoro**C**arbons).

Recent evidence suggests that HCFCs, when released into the atmosphere, play a role in the thinning of the earth's ozone layer. Therefore, the EPA (Environmental Protection Agency, a branch of the U.S. Federal Government) is beginning to implement new regulations regarding the purchase, handling, and use of HCFCs including R-22. Some of these regulations may increase the cost of installation and service work on air conditioning and refrigeration equipment.

When your comfort system is operating properly, the refrigerant is contained within airtight passages. No refrigerant escapes into the atmosphere during normal operation.

When repair or replacement of your comfort system becomes necessary, it is essential that you hire a qualified servicer to perform the work. A qualified servicer will have the tools and training necessary to ensure that EPA regulations are followed. U.S. residents who ignore or intentionally violate the EPA regulations are in violation of the law, and may be subject to fines or other penalties.



Ask your participating dealer about our extended service plan. It adds to the strong warranty with additional parts and labor coverage.

Asure<sup>SM</sup> is a service mark of Maytag Corporation and is used under license to Goodman Company, L.P. All rights reserved.

# Maintenance

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We strongly recommend a bi-annual maintenance checkup be performed before the heating and cooling seasons begin by a **qualified servicer**.

## Routine Maintenance

### REPLACE OR CLEAN FILTER

**IMPORTANT NOTE:** Never operate unit without a filter installed as dust and lint will build up on internal parts resulting in loss of efficiency, equipment damage and possible fire.

An indoor air filter must be used with your comfort system. A properly maintained filter will keep the indoor coil of your comfort system clean. A dirty coil could cause poor operation and/or severe equipment damage.

Your air filter or filters could be located in your furnace, in a blower unit, or in “filter grilles” in your ceiling or walls. The installer of your air conditioner or heat pump can tell you where your filter(s) are, and how to clean or replace them.

Check your filter(s) at least once a month. When they are dirty, clean or replace them.

You may want to ask your dealer about high efficiency filters. High efficiency filters are available in both electronic and non-electronic types. These filters can do a better job of catching small airborne particles.

### CLEAN OUTSIDE COIL (QUALIFIED SERVICER ONLY)



#### WARNING

To avoid personal injury or death due to electrical shock, disconnect the electrical power before cleaning the coil(s).

Air must be able to flow through the outdoor unit of your comfort system. Do not construct a fence near the unit or build a deck or patio over the unit without first discussing your plans with your dealer or other qualified servicer. Restricted airflow could lead to poor operation and/or severe equipment damage.

Likewise, it is important to keep the outdoor coil clean. Dirt, leaves, or debris could also restrict the airflow. If cleaning of the outdoor coil becomes necessary, hire a qualified servicer. Inexperienced people could easily puncture the copper tubing in the coil. Even a small hole in the tubing could eventually cause a large loss of refrigerant. Loss of refrigerant can cause poor operation and/or severe equipment damage.

Do not use a condensing unit cover to “protect” the outdoor unit during the winter, unless you first discuss it with your dealer. Any cover used must include “breathable” fabric to avoid moisture buildup.

### COMPRESSOR

The compressor motor is hermetically sealed and does not require additional oiling.

### MOTORS

Indoor and outdoor fan motors are permanently lubricated and do not require additional oiling.

# Before Calling Your Servicer

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There are several built-in safety features that may automatically shut off the unit under abnormal operating conditions. If your system does not operate normally, take time to perform the following checks before requesting service. A couple of simple checks may allow you to avoid a service call. If the following steps do not resolve the problem, contact a qualified servicer for further troubleshooting and/or repairs. Do not attempt troubleshooting beyond that which is outlined below.

- Check the thermostat to confirm that it is properly set.
- Wait 15 minutes. Some devices in the outdoor unit or in programmable thermostats will prevent compressor operation for awhile, and then reset automatically. Also, some power companies will install devices which shut off air conditioners for several minutes on hot days. If you wait several minutes, the unit may begin operation on its own.
- Check the electrical panel to see if any circuit breakers have tripped or fuses have failed. If they have, you may reset the circuit breaker(s) or replace the fuse(s) once without calling a servicer.



## CAUTION

To avoid the risk of equipment damage or fire, install the same amperage or fuse as you are replacing. If the circuit breaker or fuse should open again within thirty days, contact a qualified servicer to correct the problem. If you repeatedly reset the breaker or replace the fuse without having the problem corrected, you run the risk of severe equipment damage.

- Check the disconnect switch near the indoor furnace or blower to confirm that it is closed.
- Check the outdoor unit to confirm that it has not been covered on the sides or the top. If it has been covered by a large object that you can easily remove, you may do so without calling a servicer. If it is covered with dirt or debris, call a qualified servicer to clean it.
- Check the indoor air inlets and outlets to confirm that they are not blocked by rugs, curtains, or other objects; or have not been accidentally closed. If air cannot get into a room, the room will not be comfortable.
- If airflow through all the air outlets seems low, check the filter. If it is dirty, clean or replace it.



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