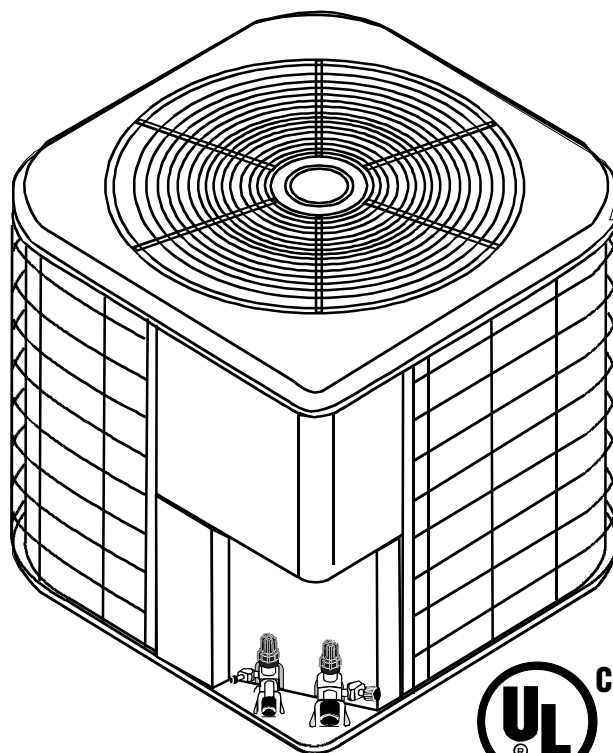


REMOTE CONDENSING UNIT

with R-410A

User's Information Manual



[®]
Amana

Thank you for investing in a quality Amana 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 and on the registration card supplied with this unit. Be sure to include the Model, Manufacturing and Serial Numbers, plus the installation date. Please mail your registration card today. This will assist us in contacting you if any safety or service information should change in the future. If the registration card cannot be located, please call 1-877-254-4729 to register the unit.

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 Amana dealer in a safe place for future reference. This can serve as proof of the date of installation.



RECOGNIZE THIS SYMBOL AS A SAFETY PRECAUTION.

Heating & Air Conditioning
Amana[®]
Comfort. Quality. Trust.

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.

Remember to leave this manual with the homeowner.

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General Information

Your air conditioning unit has the latest in scroll compressor technology. To better understand your unit, become familiar with its characteristic start-up and operational sounds.



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.

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.



CAUTION

Never operate your unit without a clean air filter properly installed as dust and lint will build up on internal parts resulting in a loss of efficiency, equipment damage and/or fire.

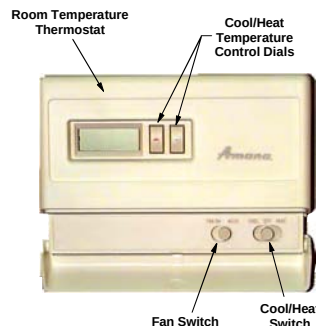
Thermostat Operation

Your thermostat is the control center for your Amana 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.

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



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

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.

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

General Information

Thermostat Operation (cont'd)

The Fan switch may include settings of AUTO and ON:

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.



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 Amana dealer before operating your comfort system during cool weather.



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 Amana 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 Amana 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 Amana dealer.

General Information

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 Amana 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.

Refrigerant

Your comfort system uses R-410A refrigerant. R-410A does not contain chlorine and will not harm the ozone layer in the atmosphere. It is classified as an HFC (**Hydrofluorocarbon**).

The EPA has approved R-410A under its Significant Alternative Policy (SNAP) guidelines. R-410A is environmentally "friendly" as it does not harm the ozone layer in the atmosphere. R-410A systems are the recognized replacement for R-22 systems in residential applications.

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.

Maintenance

Annual Maintenance

We strongly recommends your unit be given an annual maintenance checkup by a qualified servicer. Your unit should be inspected by a qualified installer or service agency at least twice a year. This check should be performed before the heating and cooling seasons begin. This will ensure that your unit operates at maximum efficiency. Particular attention should be paid to the following items. Repair as necessary.

- Check physical support of the unit. Ensure it is sound without any sagging, cracks, or gaps, around the base.
- Check for obvious signs of deterioration of the unit.
- Check electrical connections for tightness and/or corrosion. Check wires for damage.
- Check that filters are clean and in the proper placement in the unit or duct system.

Routine Maintenance

REPLACE OR CLEAN INDOOR 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 Amana 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 death or personal injury due to electrical shock, disconnect the electrical power before cleaning the coil(s).

DISCONNECT ALL ELECTRICAL POWER TO THE INDOOR AIRHANDLER OR FURNACE BEFORE REMOVING ACCESS PANELS TO PERFORM MAINTENANCE. Disconnect power to both the indoor and any outdoor units. NOTE: THERE MAY BE MORE THAN ONE ELECTRICAL DISCONNECT SWITCH.

ALTHOUGH SPECIAL CARE HAS BEEN TAKEN TO MINIMIZE SHARP EDGES IN THE CONSTRUCTION OF YOUR UNIT, BE EXTREMELY CAREFUL WHEN HANDLING PARTS OR REACHING INTO THE UNIT.

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 Amana 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 Amana 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

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 fire or equipment damage, install the same amperage circuit breaker 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.

Safety Labels

NOTE: If safety labels are missing or illegible, contact the installing dealer or our Customer Service Department for ordering information.

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

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

⚠ WARNING 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.	
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Any Questions?

Most of your questions can be answered by your local Amana dealer. Check with your dealer first if you need any further information regarding the operation, maintenance, or service of your unit. Then, if you should have any matters which are not resolved locally, or if you would like information on other Amana heating and cooling products - please call:

CONSUMER INFORMATION

TOLL FREE

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

email us at: hac.consumer.affairs@amanahvac.com

fax us at: (931) 438- 4362

(Not a technical assistance line for dealers.)

Outside the U.S., call 1-931-433-6101.

(Not a technical assistance line for dealers.)

Your telephone company will bill you for the call.

Extended Service Plan

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



Model Information

IMPORTANT SYSTEM INFORMATION

Please write the Model number, Manufacturing number, and Serial number of your unit.

MODEL
MFG
PIC
SERIAL#

CRANKCASE HEATER YES ☐ NO ☐

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# _____

MODEL

MFG

SERIAL#