

# USER'S INFORMATION MANUAL

## R-410A OUTDOOR SPLIT-SYSTEM AIR CONDITIONING OR HEAT PUMP

MODELS: 13 SEER

CZB / AC3B / AL3B / YZB / HC3B / HL3B SERIES

1-1/2 TO 5 TONS



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### CONTACT INFORMATION

- Go to website at [www.york.com](http://www.york.com) click on "about us", then click on "contact us" and follow the instructions.
- Contact us by mail:

York International  
Consumer Relations  
5005 York Drive  
Norman, OK 73069

## SECTION I: SAFETY

### WARNING

*This product must be installed and serviced by a qualified installer or service agency. Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage.*

## SECTION II: THERMOSTATS

### YOUR KEY TO COMFORT

Though thermostats may vary widely in appearance they are all designed to perform the same basic function, to control the operation of your air conditioning or heat pump system. Regardless of size or shape, each thermostat will feature a temperature indicator; a dial, arm or push button for selection of the desired temperature; a fan switch to choose the indoor fan operation; and a comfort switch for you to select the system mode of operation.

Only approved thermostats have been tested and are fully compatible with this equipment. *Please be aware that many different thermostats operate on batteries or "power stealing" principals. These types of thermostats can not be supported as trouble free when used with this product.*

The following illustrations and discussion will aid you to determine which type of thermostat you have for your system.

A complete operating instruction is provided by the manufacturer for each thermostat. Familiarize yourself with its proper operation to obtain the maximum comfort with a minimum of energy consumption.

### COOLING ONLY

If your air conditioning system is designed to provide cooling only (AC), with no capability for heating operation (heat pump), a one-stage cooling only thermostat, with a manual, one-position "Cool" and "Off" comfort switch is all that is required for system operation.

**NOTE:** If you have an independent heating system (with a separate thermostat), always be sure the heating control is turned "Off" before turning on the cooling system.

### COOLING AND HEATING (HEAT PUMP)

If your system has been designed to allow both cooling and heating operation, you may have either a manual change-over type, or a programmable electronic type thermostat.

### MANUAL CHANGE-OVER

Manual change-over simply means that the comfort switch must be manually positioned every time you wish to switch from the cooling to heating or heating to cooling modes of operation.

## SECTION III: PROGRAMMABLE ELECTRONIC THERMOSTATS

The computerized electronic thermostat is actually a sophisticated electronic version of a manual change-over type. This thermostat includes features which allow "set-back" temperature variations for periods of sleep, or while you are away during the day, and means energy savings for you. The thermostat also features a digital clock.

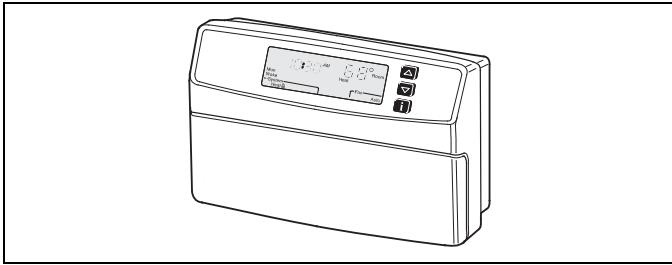


FIGURE 1: PROGRAMMABLE ELECTRONIC THERMOSTAT

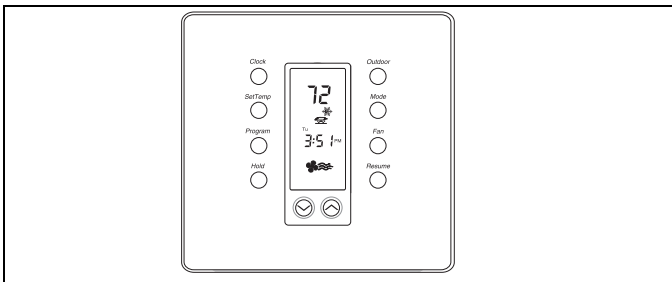


FIGURE 2: PROGRAMMABLE ELECTRONIC THERMOSTAT

## FAN OPERATION SELECTION

A multi-position fan switch allows you to choose the type of fan operation of the indoor fan.

### AUTO

With the thermostat fan switch set to "AUTO", the fan will run intermittently as required for either heating or cooling. This position will provide the lowest operating cost. If you purchased one of our thermostats, they have an Intelligent fan mode which continually circulates the air during occupied modes or when you are at home, and can cycle the fan during unoccupied mode or during the night while you sleep to further conserve energy.

### ON

**CONTINUOUS FAN OPERATION:** With the thermostat fan switch set to "ON", the indoor fan will not shut off. However, the cooling (AC) or heating (heat pump) systems will still operate as required by room temperatures. This provides continuous air filtering and more even temperature distribution to all conditioned spaces.

**FAN ONLY OPERATION:** On moderate days, usually during spring and fall, when neither heating nor cooling is required, you may want to run only the fan to ventilate, circulate and filter the air in your home or building. Set the comfort control switch to "OFF" and the fan switch to "ON". Be sure to return the switches to their original positions for normal operation.

## SECTION IV: START-UP

The maximum and minimum conditions for operation must be observed to assure a system that will give maximum performance with minimum service.

TABLE 1: APPLICATION LIMITATIONS

Air Temperature DB at Outdoor Coil, °F				Air Temperature DB at Indoor Coil, °F			
Min.		Max.		Min.		Max.	
Cool	Heat	Cool	Heat	°WB Cool	°DB Heat	°WB Cool	°DB Heat
50	-10	115	75	57	50 <sup>1</sup>	72	80

<sup>1</sup> Operation below this temperature is permissible for a short period of time, during morning warm-up.

The comfort control switch is assumed to be in the "OFF" position. If the main power supply to the outdoor and indoor units is off, turn the appropriate disconnects to the "ON" position. Place the system into operation as follows:

1. Set temperature adjustment to the desired temperature on your thermostat.

**COOLING** - The higher the setting, the lower the amount of energy consumed. Federal Guidelines recommend a setting of 78 °F.

**HEATING** - The lower the setting, the lower the amount of energy consumed. Federal guidelines recommend a setting of 65 °F or lower.

**NOTE:** If your cooling and heating temperature adjustments are separate, be sure to set both.

2. After considering "Fan Operation Selection" above, select and set the fan operation mode you desire.
3. Move the comfort control switch to the desired mode of operation (Cooling or Heating) found on your particular thermostat.

## POWER FAILURE

When accidents, wind storms, etc. disrupt electrical power supply to your house, switch thermostat to "OFF" position.

## SECTION V: SYSTEM OPERATION

### MANUAL CHANGE-OVER THERMOSTAT

**COOLING YOUR HOME:** With the comfort control switch in the "COOL" position, the system will operate as follows: When the indoor temperature rises above the level indicated by the temperature adjustment setting, the system will start. The outdoor unit will operate and the indoor fan will circulate the cooled, filtered air. When the room temperature is lowered to the setting selected, the system will shut off.

**HEATING YOUR HOME:** If your system includes a heating unit and the comfort control switch is in the "HEAT" position, the system will operate as follows: When the indoor temperature drops below the level indicated by the temperature adjustment setting, the system will start. The heating system will operate and the indoor fan will circulate the filtered air. When the room temperature rises to the setting selected, the system will shut off. Whether heating or cooling, the fan will continue to operate if the fan switch was set in the "ON or Intelligent" position. The "AUTO" setting on the fan switch will allow the fan to shut off when your system does.

### ELECTRONIC THERMOSTAT

The computerized electronic thermostat, when programmed, will function automatically to operate the system as follows: When the indoor temperature rises above the higher (COOL) setting, the outdoor unit will operate and the indoor fan will circulate the cooled, filtered air. When the room temperature is lowered to the selected level, the system will shut off. The indoor fan will either shut off or run continuously, depending upon your choice of fan switch setting. When the indoor temperature drops below the lower (HEAT) setting, the heating system will operate, and the indoor fan will circulate the heated, filtered air. When the indoor temperature rises to the selected setting, the system will shut off.

The indoor fan will either shut off or run continuously, depending upon your choice of fan switch setting.

## SECTION VI: CARE OF SYSTEM

It is strongly recommended that regular periodic preventative maintenance be performed on this equipment. The person most familiar with the equipment in your H.V.A.C. system is a dealer. The dealer can ensure your maintenance program meets the conditions of the Warranty<sup>1</sup>, maximize the efficiency of the equipment, and service your unit within the federally mandated guidelines with regard to unlawful discharge of refrigerants into the atmosphere.

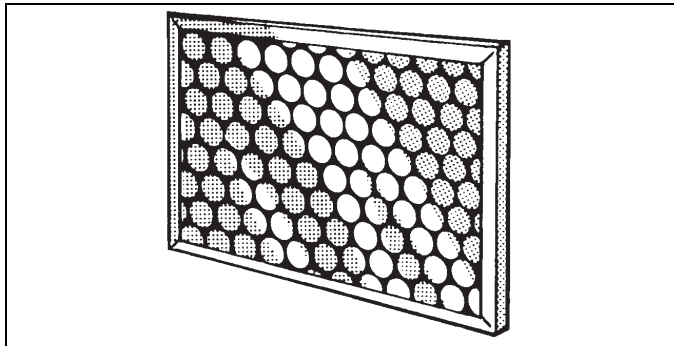
## COIL CARE

Keep the outdoor unit free of foliage, grass clippings, leaves, paper, and any other material which could restrict the proper air flow in and out of the unit. The coil may be vacuumed to remove any debris from between the fins. If the coil becomes excessively dirty, turn the main disconnect switch to "Off" and wash the coil with your garden hose. Avoid getting water into the fan motor and control box. Flush dirt from base pan after cleaning the coil.

## SERVICE CALLS

There are a few instances where the user can avoid unnecessary service calls. If unit stops functioning properly check the following items before calling your servicing dealer:

1. Indoor section for dirty filter.



2. Outdoor section for leaf or debris blockage. Eliminate problem, turn off the thermostat for 10 seconds and attempt start. Wait 5 minutes. If system does not start, call your servicing dealer.

### **▲ WARNING**

*Your system contains environmentally friendly refrigerant R-410A, which operates at high pressures. You may be in danger if you try to make an attempt to repair your unit. Please contact your local dealer.*

## FILTER CARE

Inspect the air filter(s) at least once a month. If they are dirty, wash reusable filters with a mild detergent per manufacturer's recommendations. Replace disposable filters with new filters. Install the clean filters with "air flow" arrow in the same direction as the air flow in your duct. Filters should be clean to assure maximum efficiency and adequate air circulation.

## CLEARANCES

The minimum clearances shown below must be maintained should any patio or yard improvements be done around the outdoor unit.

TOP 48"	SIDES* 24"
SIDES, REAR 12"	FRONT 12"

\* Service Access Panel

## PARTS INFORMATION

Replacement parts are available from local contractor/dealer or the nearest distribution center.

## EXTENDED WARRANTY

Special warranty packages are available through your contractor. These packages reduce the potential cost of service calls following the first year of operation on your cooling (or heating/cooling) system.

## SECTION VII: SOME EFFICIENCY DO'S & DON'TS

**DON'T** heat or cool unused household area. Reduce supply and return air flow to a minimum in areas which are not living spaces (storage rooms, garages, basements, etc).

**DON'T** be a "thermostat juggler". Moving your thermostat setting will not make your system heat or cool any faster. Adjust your thermostat to a comfortable setting and leave it there.

**DON'T** restrict air circulation. Placing furniture, rugs, etc. in such a way that they interfere with air vents will make your system work harder to achieve a comfortable temperature level. This requires more energy, which means greater cost to you.

**DON'T** heat or cool when you are away. If you are going to be away for a day or more, re-adjust your thermostat accordingly. Your furniture is far less demanding than you are when it comes to comfort levels. However, don't expect the system to restore comfort conditions immediately upon returning home. It will take a little time.

**DON'T** locate lamps or other heat-producing appliances (radios, TV's, heaters, etc.) near your thermostat. The heat from these items will give your thermostat "false information" about the temperature in the room.

**DO** select a comfortable thermostat setting, but keep in mind that moderation in temperature selection will save energy.

**DO** turn on your kitchen exhaust fan when cooking and your bathroom exhaust fan when showering. Also, make sure your clothes dryer is properly vented. If these items are neglected, an excess heat and humidity condition may be created, causing your air conditioning system to run longer.

**DO** set your thermostat a few degrees lower than normal several hours before entertaining a large group of people in a relatively small area. People give off a considerable amount of heat and moisture in a closed area.

**DO** keep drapes and venetian blinds closed when practical. These items provide insulation against heat loss/gain.

**DO** contact a qualified service person to make repairs or adjustments to your system. He has been trained to perform this service.

# Limited Warranty

Johnson Controls Unitary Products (hereinafter "Company") warrants this product to be free from defects in factory workmanship and material under normal use and service and will, at its option, repair or replace any parts, without charge, subject to the exclusions below, that prove to have such defects according to the terms outlined on this warranty. This warranty covers only the equipment described by the Product Model Number and Serial Number on the equipment or listed on the Warranty Registration Card and applies only to products installed in the United States or Canada.

## FOR WARRANTY SERVICE OR REPAIR:

Contact the installer or a Company dealer. You may find the installer's name on this page or on the equipment. You can also find a Company dealer online at [www.yorkupg.com](http://www.yorkupg.com). For help finding a servicing dealer, contact: Johnson Controls Unitary Products, Consumer Relations, 5005 York Drive, Norman, OK 73069. Or, by phone 877-874-7378. All warranty service or repair will be performed during regular business hours, Monday through Friday 9:00am-5:00pm.

Product Model No. \_\_\_\_\_

Installation Date \_\_\_\_\_

Unit Serial No. \_\_\_\_\_

Installing Dealer \_\_\_\_\_

**FOR PRODUCT REGISTRATION:** For your benefit and protection, return the Warranty Registration Card to Company promptly after installation. This will initiate the warranty period and allow us to contact you, should it become necessary. This warranty extends only to the original consumer purchaser and is non-transferable. For this warranty to apply, the product must be installed according to Company recommendations and specifications, and in accordance with all local, state, and national codes; and the product must not be removed from its place of original installation. The warranty period for repair or replacement parts provided hereunder shall not extend beyond the warranty period stated below. In the absence of a recorded Warranty Registration Card, the warranty period will begin upon product shipment from Company. If you are unaware of the date the warranty became effective, contact Company at 877-874-7378 or visit [www.upgproductregistration.com](http://www.upgproductregistration.com). You can register your product online at [www.upgproductregistration.com](http://www.upgproductregistration.com) or by returning the Warranty Registration Card on the back page of this packet.

The warranty period in years, depending on the part and the claimant, is as shown in the chart below.

CONDENSING UNITS			
CONDENSING UNITS		COMPRESSOR	PARTS
13 SEER	CZB, AC3B, AL3B, YZB, HC3B, HL3B	10	5 or 10†

† To qualify for the extended 10-year parts warranty, the unit must be registered online at [www.upgproductregistration.com](http://www.upgproductregistration.com) within 90 days of installation for replacement or 90 days of closing for new home construction. In some states, registration is not required, but proof of installation may be required to qualify for the 10-year parts warranty.

Company strongly recommends regular periodic preventative maintenance on this equipment. The person most familiar with the equipment in your HVAC system is a Company dealer. The Company dealer can ensure your maintenance program meets the conditions of the "Company Warranty", maximize the efficiency of the equipment, and service your unit within the mandated guidelines with regard to unlawful discharge of refrigerants into the atmosphere.

## EXCLUSIONS

This warranty does not cover any:

1. Shipping, labor, or material charges or damages resulting from transportation, installation, or servicing.
2. Damages resulting from accident, abuse, fire, flood, alteration, or acts of God (tampering, altering, defacing or removing the product serial number will serve to void this warranty).
3. Damages resulting from use of the product in a corrosive atmosphere.
4. Damages resulting from inadequacy or interruption of electrical service or fuel supply, improper voltage conditions, blown fuses, or other like damages.
5. Cleaning or replacement of filters or damages resulting from operation with inadequate supply of air or water.
6. Damages resulting from failure to properly and regularly clean air and/or water side of condenser and evaporator.
7. Damages resulting from: (I) freezing of condenser water or condensate; (II) inadequate or interrupted water supply; (III) use of corrosive water; (IV) fouling or restriction of the water circuit by foreign material or like causes.
8. Damages resulting from use of components or accessories not approved by Company (vent dampers, etc.).
9. Increase in fuel or electric cost.

**This warranty is in lieu of all other warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose.**

**Some states do not allow the disclaimer of implied warranty, so that the above disclaimer may not apply to you. Some states only allow a partial limitation on implied warranties to limit the duration of implied warranties to the duration of the express warranty. In such states, the duration of implied warranties is hereby expressly limited to the duration of the express warranty on the face hereof. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.**

**In no event, whether as a result of breach of warranty or contract, tort (including negligence), strict liability, or otherwise, shall Company be liable for special, incidental, or consequential damages, including but not limited to loss of use of the equipment or associated equipment, lost revenues or profits, cost of substitute equipment or cost of fuel or electricity. The above limitations shall inure to the benefit of Company's suppliers and subcontractors. The above limitation on consequential damages shall not apply to injuries to persons in the case of consumer goods.**

**Company does not assume, or authorize any other person to assume for Company, any other liability for the sale of this product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.**

**This warranty gives you specific legal rights. You may also have other rights which vary from state to state.**

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