Central Air Conditioning Systems Owner's Information Manual



A NOTE ABOUT SAFETY

Any time you see this symbol \triangle in manuals, instructions and on the unit, be aware of the potential for personal injury. There are three levels of precaution:

DANGER identifies the most serious hazards which will result in severe personal injury or death.

WARNING signifies hazards that could result in personal injury or death.

CAUTION is used to identify unsafe practices which would result in minor personal injury or product and property damage.

NOTE is used to highlight suggestions which will result in enhanced installation, reliability, or operation.

WARNING

PERSONAL INJURY, DEATH AND / OR PROPERTY DAMAGE HAZARD

Failure to follow this warning could result in personal injury, death or property damage.

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock, or other conditions which may cause personal injury or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or service agency must use factory-authorized kits or accessories when modifying this product.

Read and follow all instructions and warnings, including labels shipped with or attached to unit before operating your new air conditioner.

ABOUT YOUR AIR CONDITIONING SYSTEM

Identifying Your System

Your new Bryant air conditioning system is what we call a "split system." It has an outdoor unit and an indoor unit connected to each other with copper tubing called refrigerant lines. Each of these units has a rating plate with the model and serial numbers you will need to reference when calling an authorized Bryant dealer about your system.

Take a few moments now to locate those numbers and record them in the spaces provided on the cover of this booklet.

USING YOUR NEW BRYANT SYSTEM

Your Bryant air conditioning system is controlled by a wall-mounted thermostat installed inside your home. Because there are so many thermostats available, please refer to the owner's manual supplied with your thermostat for complete details on system operation.

EVOLUTION™ OPERATION

If you own an Evolution $\stackrel{\text{\tiny M}}{}$ two-stage air conditioning system, you may notice your system runs for longer periods of time. Nearly 80% of the time it's running, it is operating in low-stage, and your indoor temperature will remain more consistent with fewer drafts, better humidity control, enhanced comfort and enhanced energy efficiency.

COOLING YOUR HOME

For cooling operation, make sure the System or Mode control is set for Cooling. Then, adjust the Temperature control to your desired setting. Finally, use the Fan control to select Automatic (turns on and off as cooling is needed) or On (runs continuously).

OPERATION UNDER EXTREME CONDITIONS

Your air conditioner will run as long as necessary to maintain the indoor temperature selected on your thermostat. On extremely hot days, your air conditioner will run for longer periods at a time than on moderate days. Your system will also run for longer periods of time under the following conditions:

- Frequent opening of exterior doors
- Operating laundry appliances
- Taking hot showers
- More than the usual number of people present in the home
- More than the normal number of electric lights in use
- Drapes or blinds are open on the sunny side of the home

ROUTINE MAINTENANCE

Simple, routine maintenance as described below will enhance your air conditioning system's ability to operate economically and dependably. Always remember the following safety precautions:

WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death.

Disconnect all electrical power to the indoor air handler or furnace before removing access panels to perform any maintenance. Disconnect power to both the indoor and outdoor units.

NOTE: There may be more than one electrical disconnect switch.

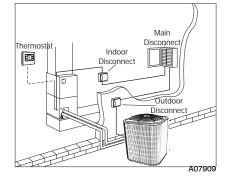


Fig. 1 - Electrical Disconnects

CAUTION

4

PERSONAL INJURY AND/OR PRODUCT AND PROPERTY DAMAGE HAZARD

Failure to follow this caution may result in personal injury or product and property damage.

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.

• Keep Filter Clean

A clogged or improperly installed air filter on your indoor unit will increase operating costs and shorten the life of the unit. For detailed filter cleaning information refer to indoor unit literature.

• Do Not Block Floor, Wall or Ceiling Vents

When drapes, furniture, toys or other common household items block vents, the restricted airflow lessens the system's efficiency and life span.

• Do Not Cover or Block Outdoor Unit

The outdoor unit needs unrestricted airflow. Do not cover it or place items on or next to it. Do not allow grass clippings, leaves, or other debris to accumulate on the sides or top of the unit. And, maintain a 12" (304.8 mm) minimum clearance between the outdoor unit and tall grass, vines, shrubs, etc.

• Check Condensate Drain

Your air conditioner removes humidity from your home during the cooling season. After a few minutes of operation, water should trickle from the condensate drain of the indoor coil. Check this occasionally to be sure the drain system is not clogged. Drainage will be limited if you live in a very dry environment.

• Do Not Operate Below 55°F/12.78°C

Your outdoor unit is not designed to operate when outdoor temperatures are lower than $55^{\circ}F/12.78^{\circ}C$ without modification. If operation below this temperature is required, consult your Bryant dealer.

• Coil Cleaning

Your indoor coil is located in a sealed cabinet on your indoor unit and will require minimal cleaning with routine filter maintenance. Longer operating cycles and reduced energy efficiency may indicate the need for a coil cleaning by your Bryant dealer.

• Base Pan Drainage

Periodically check for and remove debris that has settled around the base of your outdoor unit. This will ensure proper drainage of the base pan and eliminate standing water inside the outdoor unit.

• Level Installation

Your Bryant dealer will install the outdoor unit in a level position. If the support base settles or shifts and the unit is no longer level, be sure to re-level it promptly to assure proper drainage. If you notice water or ice collecting beneath the unit, arrange for it to be drained away from the unit.

SEA COAST COIL MAINTENANCE

Coastal locations often require additional maintenance of the outdoor unit due to highly corrosive airborne ocean salt. Although your new Bryant system is made of galvanized metal and is protected by top-grade paint, take the additional precaution of periodically washing all exposed surfaces and the outdoor coil approximately every 3 months. Consult your installing Bryant dealer for proper cleaning intervals and procedures for your geographic area or ask about a service contract for regularly scheduled professional cleaning and inspections.

TROUBLESHOOTING

Before you request dealer service, check for these easily solved problems:

- Check the indoor and outdoor disconnect switches Also check your main electrical panel circuit breakers or fuses.
- Check for sufficient airflow. Air filter(s) should be reasonably clean and interior vents should be open and unobstructed.
- Check thermostat settings. For cooling, your desired temperature setting should be LOWER than the displayed room temperature, and the System/Mode control should be on Cool or Auto. For heating, your temperature setting should be HIGHER than the displayed room temperature, and the System/Mode control is set to Heat or Auto.
- Time delays depending on the Bryant air conditioner you have, there may be delays in unit operation that are built-in to protect the equipment and your comfort. Don't be alarmed if you notice a time delay in operation. It may be a standard protection feature of your equipment. Check with your Bryant Dealer for more information on time delays.

If you need to contact your Bryant dealer for troubleshooting and/or repairs, be sure to have the model and serial numbers of your equipment available (there are spaces on the cover for you to write this information). With this information, your dealer may be able to offer helpful suggestions over the phone or save valuable time through knowledgeable preparation for the service call.

REGULAR DEALER MAINTENANCE

In addition to the routine maintenance that you perform, your home comfort system should be inspected regularly by a properly trained service technician. Many dealers offer this service at a reduced rate with a service contract. Some service contracts offer additional benefits such as parts discounts and no additional charge for "after hours" or emergency service.

Your annual system inspection should include:

- Routine inspection of air filter(s) with replacement or cleaning as required
- Inspection and cleaning of the blower wheel housing and motor
- Inspection and, if required, cleaning of indoor and outdoor coils
- Inspection of the indoor coil drain pan, as well as the primary and secondary drain lines. If the system has an auxiliary drain pan and line, they should be inspected at this time as well. Service should include cleaning if required.
- · Check all electrical wiring and connections
- Check for secure physical connections of individual parts in each unit
- Operational check of the air conditioning system to determine actual working condition. Necessary repair and, or adjustment should be performed at this time.



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