



Operating Guide

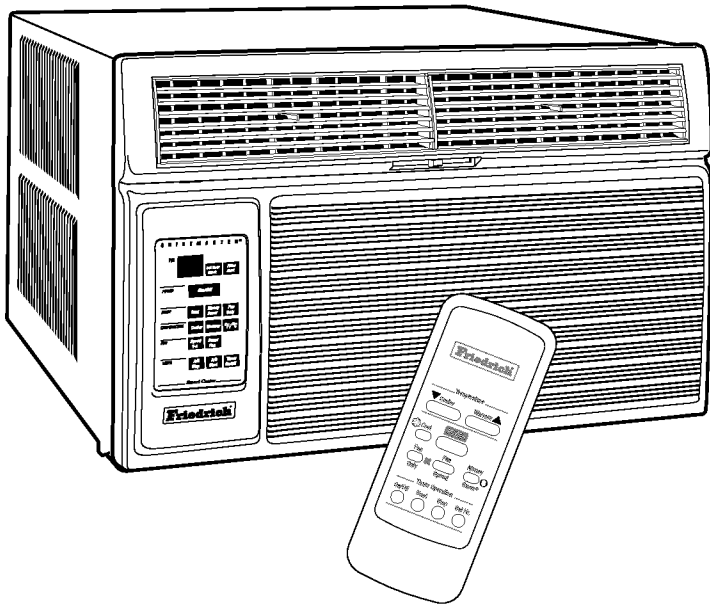
QuietMaster Electronic®

Room Air Conditioner | with remote control

115-Volt: SS08R | SS09 | SS10R | SS12R | SS14R

230-Volt: SS12 | SS16 | SM18R | SM20

* Remote control included on SS08R, SS10R, SS12R, SS14R and SM18R



Please register your air conditioner

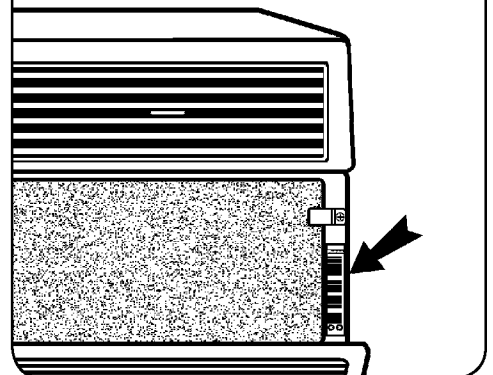
Model information can be found on the name plate behind the front.

Please complete and mail the owner registration card furnished with this product, or register on-line at www.friedrich.com (USA only). For your future convenience, record the model information here.

MODEL NUMBER

SERIAL NUMBER

PURCHASE DATE



America's Best Air Conditioner

Congratulations!

You have purchased the very latest in room air conditioner technology. Your new Friedrich high efficiency room air conditioner will give you many years of dependable service. Many extra features have been built into your Friedrich air conditioner to assure quiet operation, the best circulation of cool, dry air, functional controls, and the most economical operation.

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WARNING: Before operating your unit

Make sure the wiring is adequate for your unit.

If you have fuses, they should be of the time delay type. Before you install or relocate this unit, be sure that the amperage rating of the circuit breaker or time delay fuse does not exceed the amp rating listed in Figure 1.

DO NOT use an extension cord.

The cord provided will carry the proper amount of electrical power to the unit; an extension cord will not.

Make sure that the receptacle is compatible with the air conditioner cord plug provided.

This insures proper grounding. If you have a two prong receptacle you will need to have the circuit replaced by a certified electrician with a grounded circuit that meets all national and local codes and ordinances. Under no circumstances should you remove the ground prong from the plug. You must use the three prong plug furnished with the air conditioner.



MODEL	CIRCUIT RATING OR TIME DELAY FUSE		PLUG FACE	
	AMP	VOLT	N° NEMA	
SS08R • SS09 • SS10R SS12R • SS14R	15	125	5-15P	
SS12 • SS16 • SM18R • SM20	15	250	6-15P	

Figure 1

For the best cooling performance and highest energy efficiency

Keep the filter clean

Make sure that your air conditioner is always in top performing condition by cleaning the filter regularly. Instructions for removing and cleaning the filter can be found on page 7.

Provide good air flow

Make sure the airflow to and from the unit is clear. Your air conditioner puts the air out at the top of the unit, and takes in air at the bottom. Airflow is critical to good operation. It is just as important on the outside of the building that the airflow around the unit exterior is not blocked.

Unit placement

If your air conditioner can be placed in a window or wall that is shaded by a tree or another building, the unit will operate even more efficiently. Using drapes or blinds on the sunny side of the dwelling will also add to your unit's efficiency.

Insulation

Good insulation will be a big help in maintaining desirable comfort levels. Doors should have weather stripping. Be sure to caulk around doors and windows.

How to operate your Friedrich room air conditioner

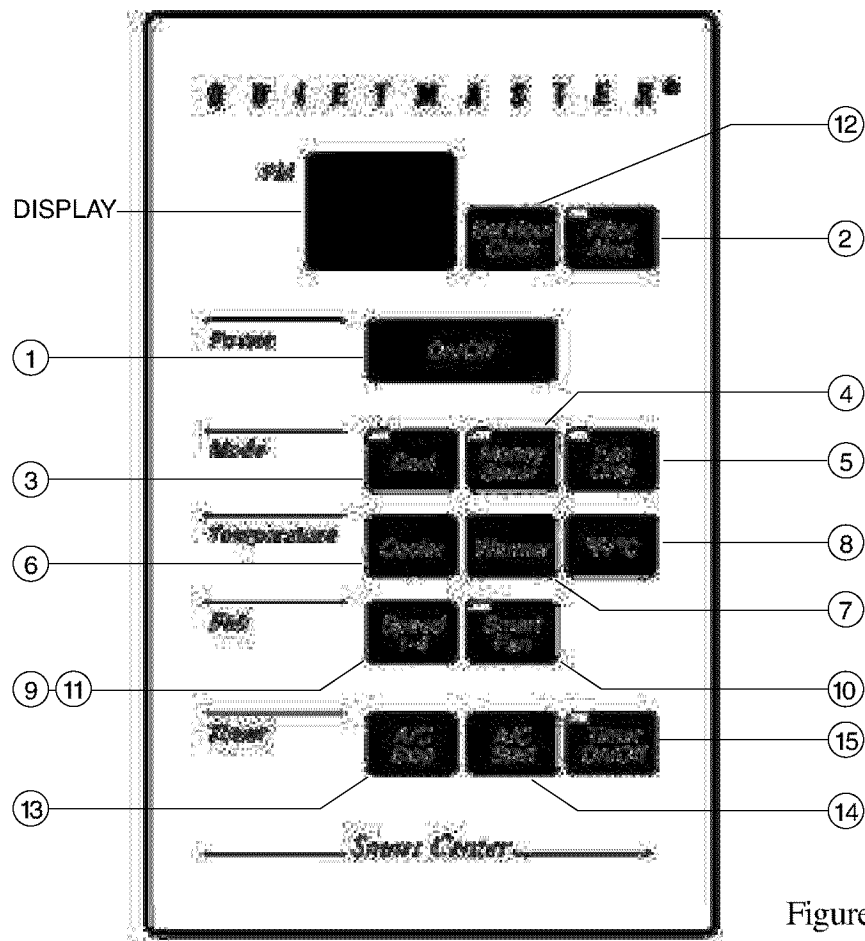


Figure 2

To start unit

① If your air conditioner is installed and plugged into a proper receptacle, it is ready to go. Touch ON/OFF button once. The unit will automatically be in COOL mode with the temperature set at 75°F (24°C) and the fan speed at F1, the sleep setting. There is a 3-minute delay before the compressor will turn on. (See next page, "Automatic Component Protection.")

② Should the FILTER ALERT light turn on when you first turn on the unit, touch FILTER ALERT to turn off the light.

FILTER ALERT light will come on after 250 hours of use. (See page 7 for filter cleaning instructions.) Touch FILTER ALERT to reset.

To set mode of operation

③ When you first turn on the unit, it will be in the COOL mode (light on), with constant fan.

④ Touch MoneySaver® (light on) to activate the MoneySaver® feature.

MoneySaver® is a feature that cycles the fan with the compressor so that the fan does not run all the time. This saves energy and improves dehumidification. MoneySaver® will also run to test the temperature if the off cycle is too long. Or you may prefer constant fan for more air movement. To return to constant fan, touch COOL.

⑤ Touch FAN ONLY (light on) if you want only the fan to run. You may want to use this feature in conjunction with the FRESH AIR / EXHAUST lever to bring outside air into a room, or to exhaust stale air. (See page 7, "Fresh Air and Exhaust Control" for more information.)

How to operate your Friedrich room air conditioner

To adjust temperature

[60°F (16°C) to 90°F (32°C)]

- ⑥ COOLER - Touch COOLER to see setting, touch again to change.
- ⑦ WARMER - Touch WARMER to see setting, touch again to change.
- ⑧ Touch °F/°C to show desired temperature in Fahrenheit or Celsius.

To adjust fan speed

- ⑨ Touch SPEED 1-4 to see current setting. Touch again to change speed. F1 is the lowest setting (SLEEP SETTING), F2 is low speed (LOW), F3 is medium speed (MED), F4 is high speed (HIGH).

To activate smart fan

- ⑩ Touch SMART FAN (light on). Smart Fan will adjust the fan speed automatically to maintain the desired comfort level. For example, if the outside doors in your home are open for an extended period of time, or more people enter a room, Smart Fan may adjust to a higher fan speed to compensate for the increased heat load. This keeps you from having to adjust the fan speed on your own. Smart Fan cannot be activated in the FAN ONLY mode.

To deactivate smart fan

- ⑪ Touch SPEED 1-4, and select your desired fan speed.

To set hour clock

- ⑫ Press SET HOUR CLOCK once to see the current clock setting. Continue pressing the button until the hour closest to the actual time appears in the display. MAKE SURE YOU SET A.M. AND P.M. PROPERLY. A light will appear in the upper left corner of the display when the hour is p.m.

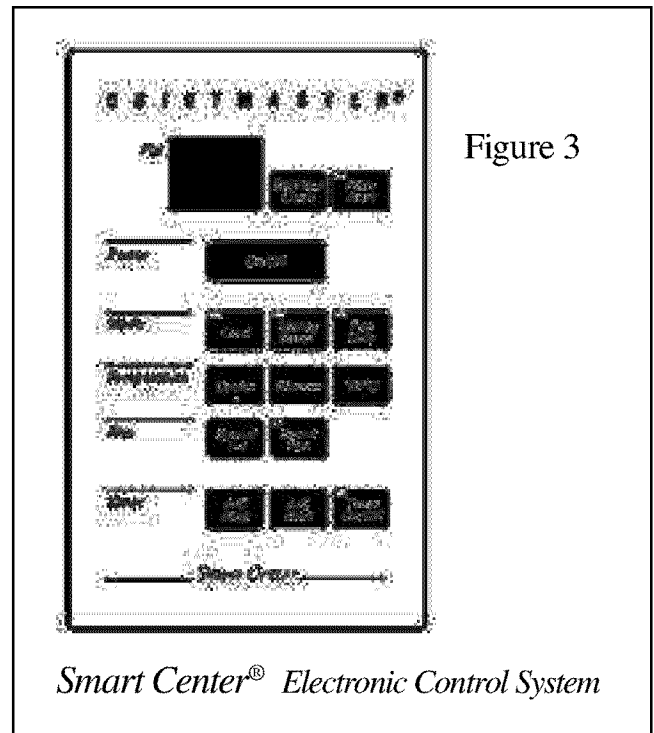
Minutes will NOT show on display.

To set the timer

NOTE: SET HOUR CLOCK before attempting to set timer functions.

You can set the A/C START and A/C STOP timer a minimum of one hour apart and a maximum of twenty-three hours apart.

- ⑬ TIMER STOP - Press the A/C STOP button and hold until the hour you want the unit to shut off appears in the display (A.M. or P.M.). The stop time for cooling will then be set.



- ⑭ START TIME - Press A/C START to view the current start time for cooling. Continue pressing until the hour you want the unit to start appears in the display (A.M. or P.M.). The start time for cooling will then be set.
- ⑮ Press the TIMER ON/ OFF button once to activate (light on) the timer function. Touch TIMER ON / OFF again (light off) to cancel the timer function if you so desire. Once the on and off times have been selected, they will remain in memory, and cycle daily until changed.

NOTE: If unit is unplugged or power is interrupted, the SET HOUR CLOCK button must be reset or the TIMER ON/OFF functions will not work.

Automatic component protection

Your unit is equipped with Automatic Component Protection.

To protect the compressor of the unit, there is a three minute time delay if you turn the unit off or if power is interrupted. The fan will not be affected.

Also, if you switch from COOL mode to FAN ONLY, and switch back to COOL mode, there is a three minute delay before the compressor comes back on.

How to use the remote control (optional)*

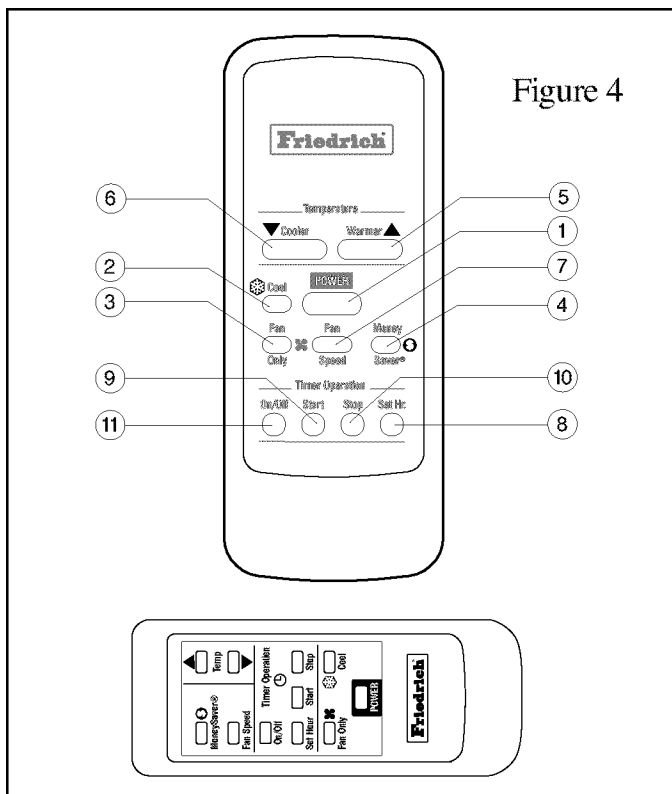


Figure 4

NOTE: Physical appearance of your remote control may vary. Follow instructions for the illustration that best resembles your remote.

To start unit

- 1 **POWER** - Press the **POWER** button once. The unit will automatically turn on in the mode and fan speed it was last left on.

To set mode of operation

- 2 **COOL** - Press the **COOL** button to automatically switch the operating mode to **COOL**.
- 3 **FAN ONLY** - Press the **FAN ONLY** button if you want to run the fan only. You may want to use this feature in conjunction with the **FRESH AIR/ EXHAUST** if you want to bring outside air into the room, or exhaust stale air. (The **FRESH AIR/ EXHAUST** feature is located on the front of the air conditioner near the top. See page 7, Figure 6.)
- 4 **MoneySaver®** - Press the **MoneySaver®** button to activate the **MoneySaver®** feature. **MoneySaver®** is the feature that cycles the fan with the compressor so that the fan does not run all the time.

To adjust temperature

- 5 **WARMER** - Press the **TEMP ▲** button to raise the temperature setting.
- 6 **COOLER** - Press the **TEMP ▼** button to lower the temperature setting.

To adjust fan speed

- 7 **FAN SPEED** - Press the **FAN SPEED** button to see the current setting. Press again to change the fan speed. F1 is the lowest setting (**SLEEP SETTING**), F2 is low speed (**LOW**), F3 is medium (**MED**), and F4 is high (**HIGH**).

To set the hour clock

- 8 **SET HOUR CLOCK** - Press **SET HOUR** once to see the current clock setting. Continue pressing the button until you arrive at the current time. **MAKE SURE YOU SET THE A.M. AND P.M. PROPERLY.** (NOTE: **MINUTES ARE NOT SHOWN ON THE DISPLAY.**) A light will appear in the upper left corner of the display when the hour is **P.M.**

To set the timer

- NOTE: Set the hour clock before attempting to set timer functions. You can set the timer **ON/OFF** a minimum of one hour apart, and a maximum of 23 hours apart.
- 9 **TIMER START** - Press **START** to view the current start time for cooling. Continue pressing the **START** button until you arrive at the start time you desire. The start time for cooling will then be set.
 - 10 **TIMER STOP** - Press the **STOP** button. Continue pressing the **STOP** button until you arrive at the stop time you desire. The stop time for cooling will then be set.
 - 11 **TIMER ON/OFF** - Press the **ON/OFF** button once to activate (light on) or deactivate (light off) the timer. Once the **START** and **STOP** times have been selected, they will remain in memory, and cycle daily until changed.

NOTE: If the unit is unplugged or the power is interrupted, the **HOUR CLOCK** must be reset or the **TIMER ON/OFF** functions will not work.

* A Friedrich RC1 wireless remote control can be used to operate all QuietMaster® Electronic models. A remote is included with the SS08R, SS10R, SS12R, SS14R and SS18R. To add an RC1 remote to other Friedrich models, please visit your local authorized Friedrich Dealer.

Removing and cleaning the filter / fresh air and exhaust feature

To remove, wash and replace filter and return air grille

Open the return air (RA) grille by grasping it at the top outside edges and pulling towards you (see figure 5). The RA grille will stay open until it is detached or closed. If you need to remove the RA grille, grasp it at the bottom and pull towards you.

The filter is held in place by two spring clips (see figure 5). Push down on the clips, grasp the filter and pull towards you to remove it for cleaning. Clean with warm water and a mild detergent, rinse, dry completely and replace. Use caution when removing the filter. The internal metal components are sharp.

If the RA grille has not been completely detached, close it by grasping it at the top outside edges and pushing it towards the unit until it snaps shut.

If the RA grille has been removed, reposition it bottom first, while lining up the control panel opening with the control panel itself (see figure 5). Once it is lined up, push in at the bottom of the RA grille until you hear it snap into place. Now close it by grasping the top outside edges and pushing it towards the unit until it snaps shut.

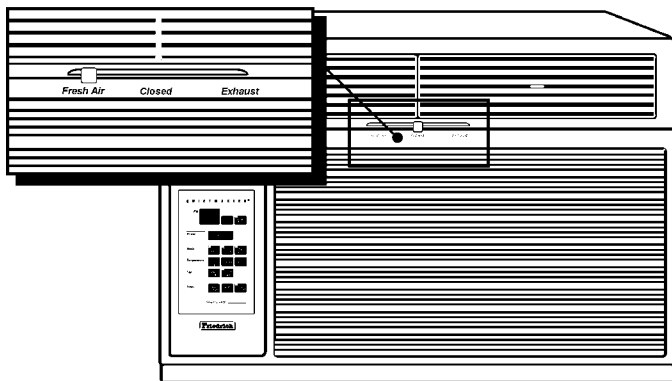
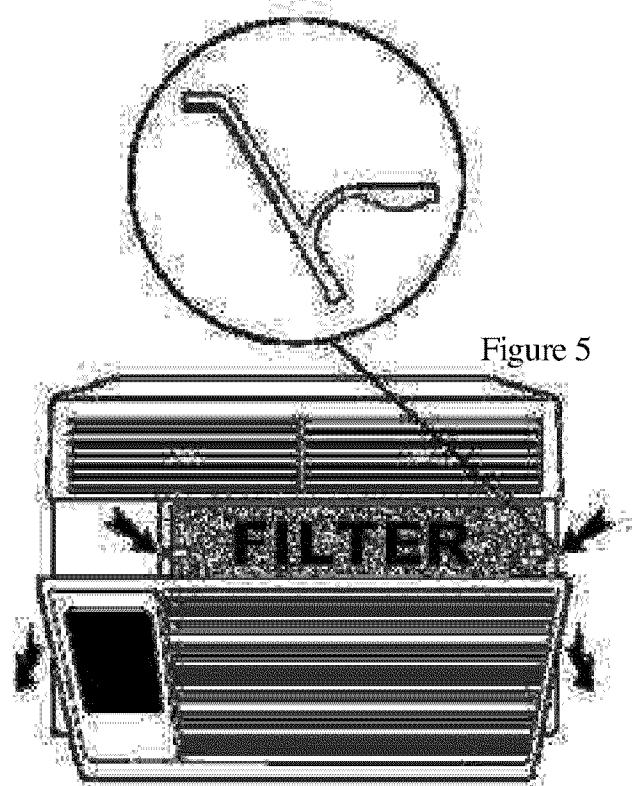


Figure 6

Fresh air and exhaust control

Your air conditioner has the ability to bring fresh air into the room and exhaust stale air out of the room. The control lever is found on the upper part of the unit (see Figure 6).

TO BRING FRESH AIR IN - Move the lever to the **FRESH AIR** position which allows outside air to enter the room. This is useful in fall and spring as a means of bringing in fresh outside air when using **FAN ONLY**. It can also be used in the summer with the compressor in the **Cooling Mode** if you wish. Normally, for most efficient operation, cooling is accomplished with this control in the middle or closed position.

TO EXHAUST INDOOR AIR - Move the lever to the **EXHAUST** position. This will allow stale air to be expelled to the outside of the dwelling. This is especially handy in the winter when indoor air tends to get stale, after a social gathering involving smokers, or to remove odors after cooking.

Troubleshooting tips

Power failure

If you have a power failure, the unit's auto-restart feature will resume operation in the selected mode prior to the power failure

Won't cool?

If your air conditioner operates, but won't cool; check to see if the controls are properly set. Check the filter and clean thoroughly if needed.

Won't run?

Make sure the power cord is plugged in all the way. Check for a bad fuse or a tripped breaker. This guide shows the proper fuse size on page 3. Lastly, you can reset the circuit board by pressing the "MONEYSAVER" button and the "FILTER ALERT" button at the same time. The LED (small red light) for the Filter Alert will begin blinking. Once this occurs, turn the unit off by pressing the On/Off button once and then unplug the unit. Finally, plug the unit back in and turn it on by pressing the On/Off button once. All settings revert back to the factory default settings.

This is a warm weather appliance

Your air conditioner is designed to cool in warm weather when the outside temperature is above 60°F (16°C), so it won't cool a room if it is already cool outside. If you want to cool a room in the winter, touch FAN ONLY and set the FRESH AIR/EXHAUST control to FRESH AIR. This will bring in a supply of outside air.

Condensation is normal

Air conditioners actually pump heat and humidity from your room to the outside air. Humidity becomes water, and your air conditioner will use most of the water to keep the outside coil cool. If there is excessive humidity, there may be excess water that will drip outside. This is normal operation.

Frosting

This usually occurs because of insufficient airflow across the coils, a dirty filter, cool damp weather, or all of these. Set unit to Fan Only and the frost will disappear. Setting the thermostat a little warmer will probably prevent the frosting from recurring.

Noises

All air conditioners make some noise. We build them to operate as quietly as possible. An air conditioner mounted in a wall is quieter than one mounted in a window.

Cleaning your air conditioner

The decorative front and the cabinet can be cleaned with warm water and a mild liquid detergent. The indoor coil can be vacuumed with a dusting attachment if it appears to be dirty. The outdoor coil can be gently sprayed with a hose if you can get to it. If not, you might call your dealer for a more thorough cleaning when needed.

Friedrich®

FRIEDRICH AIR CONDITIONING CO.
Post Office Box 1540 • San Antonio, Texas 78295-1540
(210) 357-4400 • FAX (210) 357-4480

ROOM AIR CONDITIONERS LIMITED WARRANTY

FIRST YEAR

ANY PART: If any part supplied by FRIEDRICH fails because of a defect in workmanship or material within twelve months from date of original purchase, FRIEDRICH will repair the product at no charge, provided room air conditioner is reasonably accessible for service. Any additional labor cost for removing inaccessible units and/or charges for mileage related to travel by a Service Agency that exceeds 25 miles one way will be the responsibility of the owner. This remedy is expressly agreed to be the exclusive remedy within twelve months from the date of the original purchase.

SECOND THROUGH FIFTH YEAR

SEALED REFRIGERANT SYSTEM: If the sealed refrigeration system (defined for this purpose as the compressor, condenser coil, evaporator coil, reversing valve, check valve, capillary, filter drier, and all interconnecting tubing) supplied by FRIEDRICH in your Room Air Conditioner fails because of a defect in workmanship or material within sixty months from date of purchase, FRIEDRICH will pay a labor allowance and parts necessary to repair the Sealed Refrigeration System; **PROVIDED** FRIEDRICH will not pay the cost of diagnosis of the problem, removal, freight charges and transportation of the air conditioner to and from the Service Agency, and the reinstallation charges associated with repair of the Sealed Refrigeration System. All such cost will be the sole responsibility of the owner. This remedy is expressly agreed to be the exclusive remedy within sixty months from the date of the original purchase.

APPLICABILITY AND LIMITATIONS: This warranty is applicable only to units retained within the Fifty States of the U.S.A., District of Columbia, and Canada. This warranty is not applicable to:

1. Air filters or fuses.
2. Products on which the model and serial numbers have been removed.
3. Products which have defects or damage which results from improper installation, wiring, electrical current characteristics, or maintenance; or caused by accident, misuse or abuse, fire, flood, alterations and/or misapplication of the product and/or units installed in a corrosive atmosphere, default or delay in performance caused by war, government restrictions or restraints, strikes, material shortages beyond the control of FRIEDRICH, or acts of God.

OBTAINING WARRANTY PERFORMANCE: Service will be provided by the **FRIEDRICH Authorized Dealer or Service Organization** in your area. They are listed in the Yellow Pages. If assistance is required in obtaining warranty performance, write to: Room Air Conditioner Service Manager, Friedrich Air Conditioning Co., P.O. Box 1540, San Antonio, TX 78295-1540.

LIMITATIONS: THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER WARRANTIES. Anything in the warranty notwithstanding, ANY IMPLIED WARRANTIES OF FITNESS FOR PARTICULAR PURPOSE AND/OR MERCHANTABILITY SHALL BE LIMITED TO THE DURATION OF THIS EXPRESS WARRANTY. MANUFACTURER EXPRESSLY DISCLAIMS AND EXCLUDES ANY LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGE FOR BREACH OF ANY EXPRESSED OR IMPLIED WARRANTY.

NOTE: Some states do not allow limitations on how long an implied warranty lasts, or do not allow the limitation or exclusion of consequential or incidental damages, so the foregoing exclusions and limitations may not apply to you.

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

PROOF OF PURCHASE: Owner must provide proof of purchase in order to receive any warranty related services.

All service calls for explaining the operation of this product will be the sole responsibility of the consumer.

All warranty service must be provided by an **Authorized FRIEDRICH Service Agency**, unless authorized by FRIEDRICH prior to repairs being made.

In case of questions regarding the provisions of this warranty, the English version will govern.

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