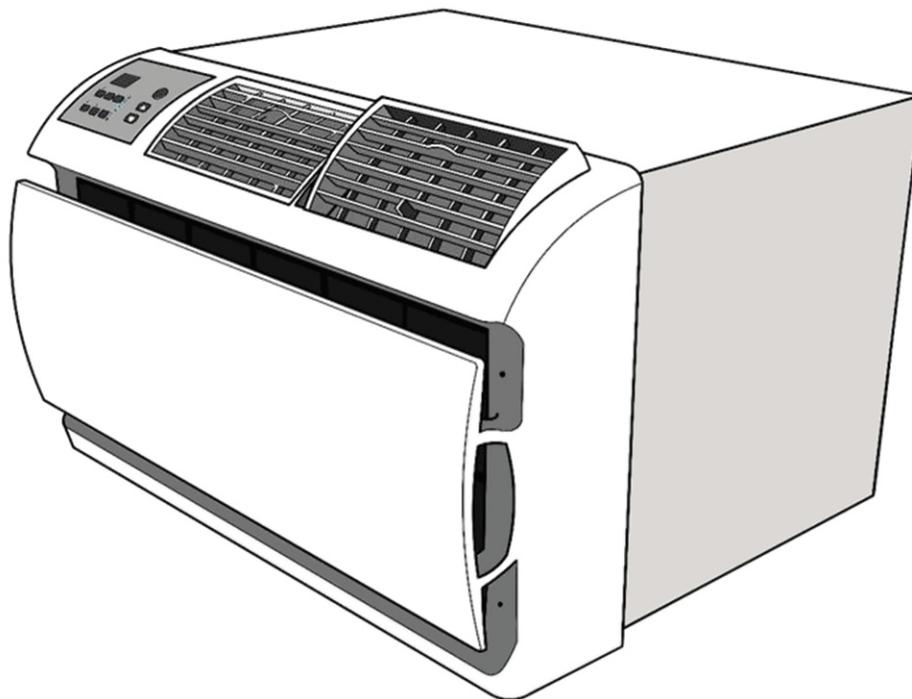




Wallmaster® Series Room Air Conditioners



Standard Chassis Models Using R-32 Refrigerant

Wallmaster 230-Volt: WCT16

THE EXPERTS IN ROOM AIR CONDITIONING

RECOGNIZE THIS SYMBOL AS AN INDICATION OF IMPORTANT SAFETY INFORMATION!

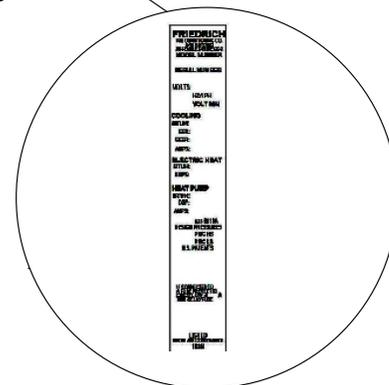
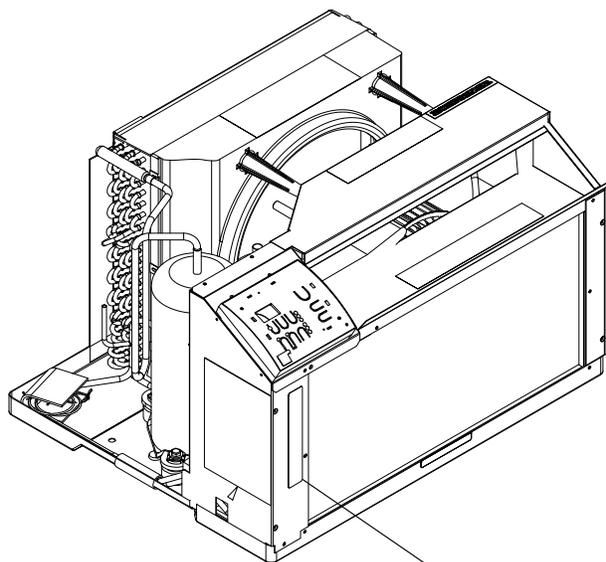
WARNING

THESE INSTRUCTIONS ARE INTENDED AS AN AID TO QUALIFIED SERVICE PERSONNEL FOR PROPER INSTALLATION, ADJUSTMENT AND OPERATION OF THIS UNIT. READ THESE INSTRUCTIONS THOROUGHLY BEFORE ATTEMPTING INSTALLATION OR OPERATION. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN IMPROPER INSTALLATION, ADJUSTMENT, SERVICE OR MAINTENANCE, POSSIBLY RESULTING IN FIRE, ELECTRICAL SHOCK, CARBON MONOXIDE POISONING, EXPLOSION, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

WARNING

PROPOSITION 65 WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

DO NOT DESTROY THIS MANUAL. PLEASE READ CAREFULLY AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE BY A SERVICEMAN.



Register your Air Conditioner

Model information can be found on the name plate. Please complete and mail the owner registration card furnished with this product, or register online at www.friedrich.com.

For your future convenience, record the model information in Section R, information for the owner.

Model Nameplate Location

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A. IMPORTANT SAFETY AND GENERAL INFORMATION

A.1 Introduction

This booklet contains the installation and operating instructions for your Air Conditioning unit. There are some precautions that should be taken to ensure proper operation. Improper installation can result in unsatisfactory operation or dangerous conditions.

Read this booklet and any instructions packaged with separate equipment required to make up the system prior to installation. Give this booklet to the owner and explain its provisions. The owner should retain this booklet for future reference.

A.2 · Safety Symbols

SAFETY IS IMPORTANT

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.



This is a safety Alert symbol. This symbol alerts you to potential hazards that can kill or hurt you and others.

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what will happen if the instructions are not followed.

All safety messages will follow the safety alert symbol with the word "WARNING" or "CAUTION". These words mean:



WARNING

Indicates a hazard which, if not avoided, can result in severe personal injury or death and damage to product or other property.



CAUTION

Indicates a hazard which, if not avoided, can result in personal injury and damage to product or other property.

NOTICE

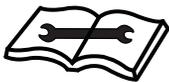
Indicates property damage can occur if instructions are not followed.



This symbol indicates that this appliance uses a flammable refrigerant. If the refrigerant is leaked and is exposed to an external ignition source, there is a risk of fire.



This symbol indicates that the Operation Manual should be read carefully.



This symbol indicates that service personnel should be handling this equipment with reference to the installation manual.



This symbol indicates that information is available such as the Installation and Operation manual, or the Service Manual.

A. IMPORTANT SAFETY AND GENERAL INFORMATION

A.3 Safety Warnings

⚠️ WARNING: The manufacturer's warranty does not cover any damage or defect to the air conditioner caused by the attachment or use of any components, accessories or devices (other than those authorized by the manufacturer) into, onto or in conjunction with the air conditioner. You should be aware that the use of unauthorized components, accessories or devices may adversely affect the operation of the air conditioner and may also endanger life and property. The manufacturer disclaims any responsibility for such loss or injury resulting from the use of such unauthorized components, accessories or devices.

⚠️ WARNING: This appliance is not intended for use by persons (Including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

⚠️ WARNING: The maximum altitude for this appliance is 2,000 meters(6,562 feet).

Do not use above 2,000 meters(6,562 feet).

⚠️ WARNING: Electrical Shock Hazard

Disconnect all power to the unit before starting maintenance. All electrical connections and wiring MUST be installed by a qualified electrician and conform to the National Code and all local codes which have jurisdiction. Failure to do so can result in property damage, severe electrical shock or death.



⚠️ WARNING: Read Installation Manual

Read this manual thoroughly prior to equipment installation or operation. It is the installer's responsibility to properly apply and install the equipment. Installation must be in conformance with the NFPA 70-2023 national electric code or current edition, International Mechanic code 2021 or current edition, and any other local or national codes.



⚠️ WARNING: Safety First

Do not remove, disable, or bypass this unit's safety devices. Doing so may cause fire, injuries, or death.

⚠️ WARNING: This Product uses R-32 Refrigerant

Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.

The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.

Do not pierce or burn.

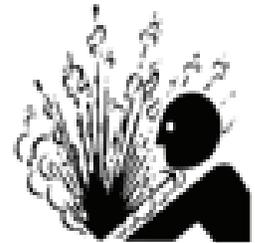
Be aware that refrigerants may not contain an odor.



Refrigerant
Safety Group
A2L

⚠️ WARNING: Refrigeration System under High pressure

Do not puncture, heat, expose to flame or incinerate. Only certified refrigeration technicians should service this equipment. R32 systems operate at higher pressures than R22 equipment. Appropriate safe service and handling practices must be used.



⚠️ CAUTION: Do Not Operate Equipment During Active Stages Of Construction

To ensure proper operation, Friedrich requires that all equipment is not operated during active construction phases. This includes active stages of completing framing, drywalling, spackling, sanding, painting, flooring, and moulding in the equipment's designated conditioning space. The use of this equipment during construction could result in premature failure of the components and/or system and is in violation of our standard warranty guidelines. The operation of newly installed equipment during construction will accelerate the commencement and/or termination of the warranty period.

⚠️ WARNING: Keep all air circulation and ventilation openings free from obstruction.

⚠️ WARNING: The unit should not be in contact with any equipment that will transmit vibration to the unit. Any excessive vibration or pulsation to the unit could result in damage to the refrigerant tubing.

A. IMPORTANT SAFETY AND GENERAL INFORMATION

A.4 Unpacking Instructions

STEP 1. Cut all 4 packing straps.

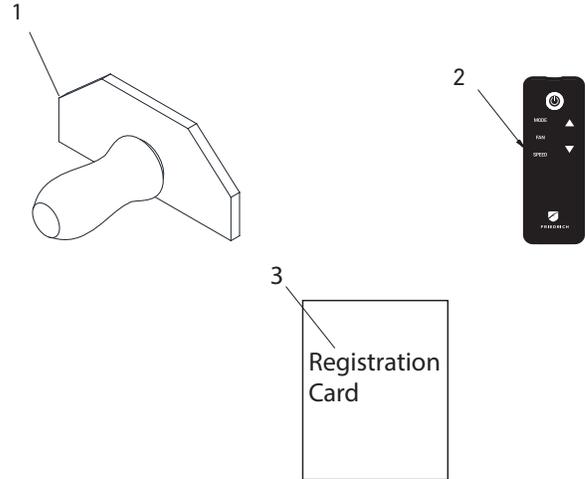
STEP 2. Slowly remove outer box, careful not to loosen decorative front.

STEP 3. Remove upper box cover.

STEP 4. Remove corner supports.

STEP 5. Carefully lift unit out of box.

Packing List		
ITEM NO	DESCRIPTION	QTY.
1	DRAIN NIPPLE	1
2	REMOTE CONTROL	1
3	REGISTRATION CARD	1



A.5 Importance of a Quality Installation

Optimal system performance and longevity depend upon a quality and proper installation. Failure to properly install this unit could result in undesirable operation and subsequent faults and potential failures.

Carefully follow all guidelines listed in the manual and industry best practices. Conform to all local code requirements. Contact your local technical representative with any questions or concerns.

Upon receiving the unit, inspect it for any damage from shipment. Claims for damage, either shipping or concealed, should be filed immediately with the shipping company. **IMPORTANT:** Check the unit model number, Cooling size, electrical characteristics, and accessories to determine if they are correct.

WARNING: Check the unit power cord and make sure the cord is protected from wear, corrosion, excessive pressure, vibration, sharp edges, or any other adverse environmental effects. It is recommended that the cord is checked for any potential damage when filter maintenance is performed. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

WARNING: If the unit appears damaged, or if a refrigerant leak is suspected, do not install. Contact a licenced repair person to perform a leak check on the unit.



WARNING: Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used. The following leak detection methods are deemed acceptable for all refrigerant systems. Electronic leak detectors may be used to detect refrigerant leaks but, in the case of **FLAMMABLE REFRIGERANTS**, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL.

WARNING: Service of this product (aside from filter maintenance) shall only be performed by trained service personnel. This includes:

- Opening of any ventilated Any tubing or refrigerant circuit work
- Opening of any sealed components
- Enclosures beyond the hinged door for filter cleaning

Scan this QR code to be linked to the Friedrich professional support page where you can locate the Service Manual.



B. SPECIFICATIONS

B.1 Product Data

Wireless Programming and Control:

Friedrich Connect allows you to conveniently control, program, and monitor your air conditioning unit remotely from a smartphone or computer.

Pre-Programmed Timer Options:

Your unit's digital control comes equipped with a 24-hour timer.

24-Hour Timer

The 24-hour timer allows you to set 2 temperature changes at pre-set times or a unit control panel.

Customizable Programming Options:

Customizable timers, with up to four temperature adjustments per day, can be set using Friedrich Connect for one or multiple units.

See www.friedrich.com for complete details on Friedrich Connect.

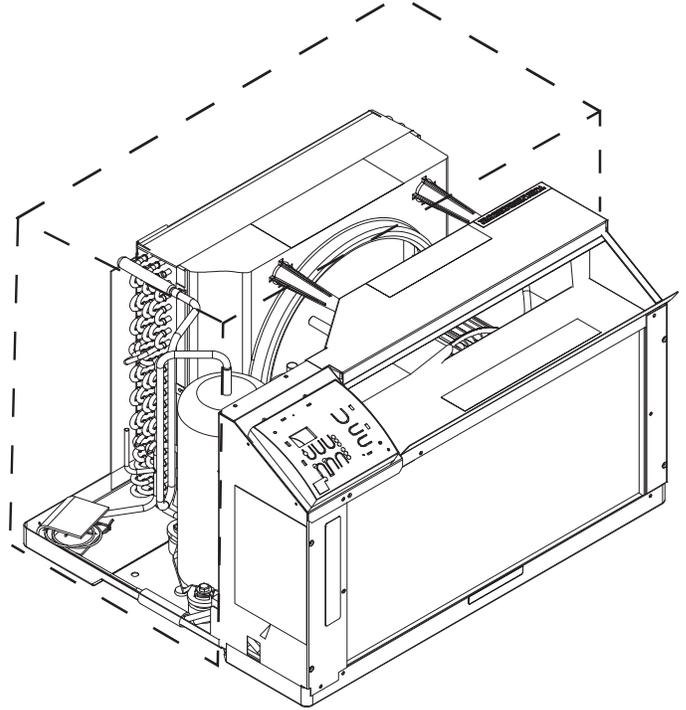
B.2 Dimensions

Chassis Dimensions						
Height	Width	Depth	Height of Front	Width of Front	Depth with Front	Minimum Extension into the Room with Front
15 ³ / ₄ "	26 ¹ / ₂ "	21"	17 ¹ / ₄ "	27 ¹ / ₂ "	23 ¹ / ₄ "	7 1/2"

WSE Sleeve Dimensions							
					Thru-the-Wall Finished Hole		
Height	Width	Depth	Depth with Front	Minimum Extension Outside	Height	Width	Max. Depth
16 ³ / ₄ "	27"	16 ³ / ₄ "	24 ¹ / ₄ "	9/16"	17 ¹ / ₄ "	27 ¹ / ₄ "	15 ⁵ / ₁₆ "

B.3 Outdoor Use

The only section of this air conditioner acceptable for outdoor use is designated by the dotted area in the image below. To ensure the protection of parts not acceptable for outdoor use please follow the installation instructions as shown in this document. Please note that junction and electrical boxes are not acceptable for outdoor use.



C. INSTALLATION OF THE UNIT

C.1 Pre-Installation Checkpoints

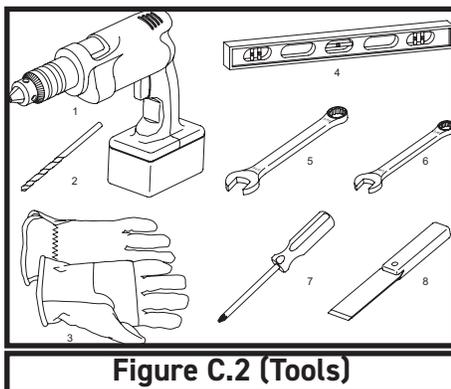
Before attempting any installation, carefully consider the following points:

- Clearances and provision for servicing. Install this unit in accordance with local and national standards. Any and all work must be done by authorized personnel.
- **IMPORTANT:** Before you begin the actual installation of your air conditioner, check your local electrical codes and the information below. Your air conditioner must be connected to a power source with the same alternating current (A.C.) voltage and amperage as marked on the name plate located on the chassis. Only A.C. can be used. Direct Current (D.C.) cannot be used.
- **CIRCUIT PROTECTION** – Use on single outlet circuit only. An overloaded circuit will invariably cause malfunction or failure of an air conditioner; therefore, it is necessary that the electrical protection is adequate. Due to momentary high current demand when the air conditioner starts, use a “TIME DELAY” fuse or a HACR type circuit breaker. Consult your dealer or power company if in doubt.
- Refer to the electrical name plate located on the air conditioner chassis (see Table E.1 to determine the correct fuse or circuit breaker amperage for your model.
- The power cord has a plug with a grounding prong and a matching receptacle is required.

C.2 Tools Required

⚠ WARNING	
	<p>Electrical Shock Hazard</p> <p>Make sure your electrical receptacle has the same configuration as your air conditioner's plug. If different, consult a Licensed Electrician.</p> <p>Do not use plug adapters. Do not use an extension cord. Do not remove ground prong.</p> <p>Always plug into a grounded 3 prong outlet. Failure to follow these instructions can result in death, fire, or electrical shock.</p>

- | | |
|-------------------------------------|----------------------------|
| 1. Power Drill | 10. Flat Head Screw Driver |
| 2. 5/32" Drill Bit | 11. Measuring Tape |
| 3. Gloves | 12. Utility Knife |
| 4. Carpenters Level | |
| 5. 5/16" Wrench | |
| 6. 1/4" Wrench | |
| 7. #2 Phillips Screw Driver | |
| 8. Putty Knife or (wood stir stick) | |
| 9. 1/4" Nut Driver | |



C.3. Choosing a Location Installation Clearances

Improper installation of the Air Conditioner can cause poor performance and premature wear of the unit.

Ensure that the Wallmaster unit is installed with proper clearances as described below.

Ensure no obstructions or enclosures are within clearances limits to allow for proper airflow.

Ensure no open flames, or surfaces that will exceed 1200 degrees Fahrenheit are within clearances limits.

⚠ WARNING	
	<p>Refrigeration System Under High Pressure</p> <p>Do not puncture, heat, expose to flame or incinerate. Only certified refrigeration technicians should service this equipment. R410A and R32 systems operate at higher pressures than R22 equipment. Appropriate safe service and handling practices must be used. Only use gauge sets designed for use with R410A or R32. Do not use standard R22 gauge sets..</p>

Clearances

A minimum distance of 1" must be allowed on all sides of the unit to adjacent wall and floor. Where the sub-base is required, the minimum distance from the floor to the sleeve must be 3 1/2". To minimize chances of short cycling of the compressor, the minimum clearance between the ceiling and the top of the unit should be 24". (See Figure C.41).

⚠ CAUTION	
	<p>Moving Parts Hazard</p> <p>Do not operate unit out of sleeve or with front grille removed. Do not place hands in blower or fan blade areas. Failure to do so can result in serious injury</p>

⚠ CAUTION	
	<p>Excessive Weight Hazard</p> <p>Use two or more people when installing your air conditioner. Failure to do so can result in back or other injury.</p>

C. INSTALLATION OF THE UNIT

C.4 WSE Sleeve Installation

Wall Preparation

⚠ WARNING



Falling Object Hazard

Not following Installation Instructions for mounting your air conditioner can result in property damage, injury, or death.

STEP 1. The wall opening required for a WSE SLEEVE is 17 ¼ high by 27 ¼ wide.

STEP 2. LINTELS must be used in opening of brick veneer and masonry walls to support the material above the WSE SLEEVE. The following considerations should also be given:

- A. Masonry walls to support the material above the WSE SLEEVE.
- B. Locally manufactured SUBBASE or other unit support must be provided for panel wall type construction and for walls less than 8 thick.

Mounting Hardware		
ITEM NO	DESCRIPTION	QTY.
1	SCREW, #12A x 2"	7

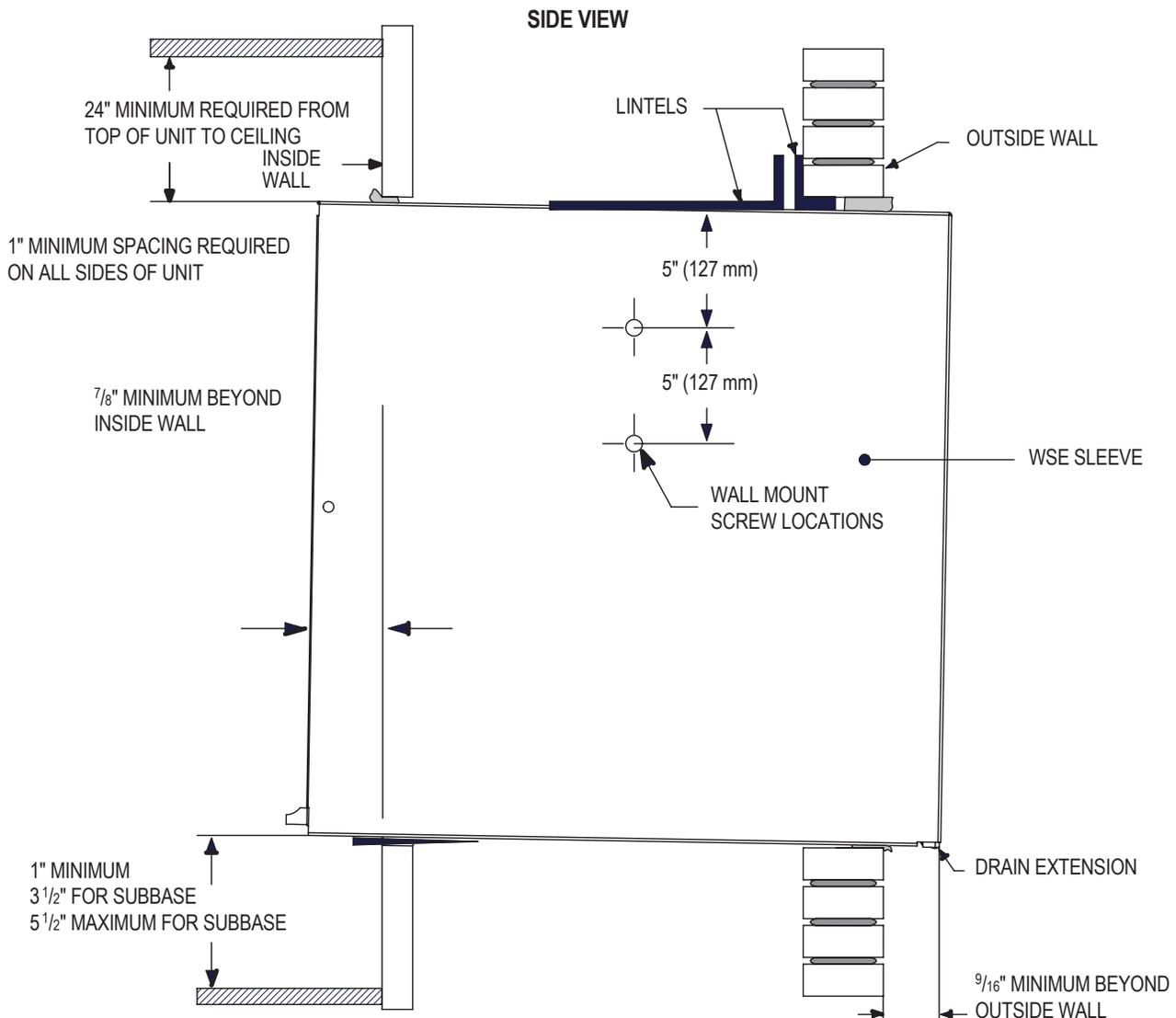


Figure C.4.1

C. INSTALLATION OF THE UNIT

C.4 WSE Sleeve Installation

Installation Requirements

- STEP 1.** The WSE sleeve should be positioned so that the drain extension extends a minimum of $\frac{9}{16}$ " beyond the outside wall (see Figure C.4.1).
- STEP 2.** The WSE sleeve must extend a minimum of $\frac{7}{8}$ " beyond the inside wall.
- STEP 3.** The WSE sleeve must be installed level side to side.
- STEP 4.** The WSE sleeve must also be installed with a downward tilt toward the outside of the building. If a level is placed so that it rests on the front and back unit rest as shown in Figure C.4.2, a properly installed unit provides a $\frac{3}{8}$ " slope to the outside of the building.

NOTICE

Sleeve projections and leveling precautions must be observed to prevent the entry of water into the room.

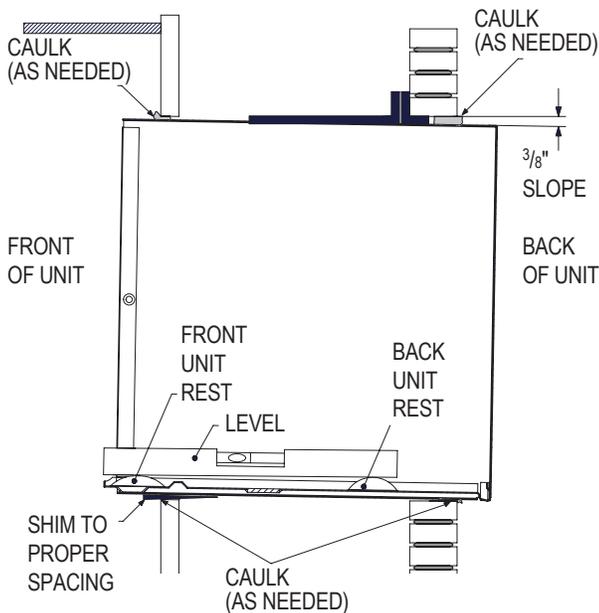


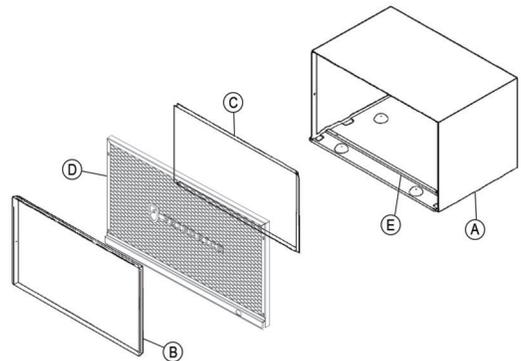
Figure C.4.2

Sleeve Requirements

- STEP 1.** After unpacking the WSE sleeve from the carton, remove the indoor weather panel. Place the WSE sleeve in the wall opening following the instructions given in the Installation Requirements. Attach the sleeve to the inside wall by driving two #12A x 2" screws in each side of the sleeve (see Figure C.4.1). Shim at the top of the sleeve, midway between the sides. Drive one #12A x 2" screw in the top of the sleeve. If the wall opening is not framed with wood, use expansion anchor bolts or molly (toggle) bolts (not provided).
 - STEP 2.** Once the sleeve has been installed, check the level again to be sure the $\frac{3}{8}$ " downward slope is maintained.
- NOTE:** If necessary, apply shims below the chassis and inside the sleeve front unit rest, to ensure a $\frac{3}{8}$ " downward slope front to back.
- STEP 3.** Caulk the perimeter of the entire opening on the inside and the outside between the sleeve and the wall.
 - STEP 4.** The indoor weather panel removed in Step 1 above must be remounted back in place if masonry work is to be done and/or if the "WallMaster" chassis is to be installed at a later date.

How to cover inner weather panel holes

Two beige plugs are included in the plastic bag taped to the WallMaster chassis. These plugs may be used to cover the two holes left after removing the indoor weather panel.



A	WSE	SLEEVE
B	61603200	INDOOR WEATHER PANEL (METAL)
C	61603304	OUTDOOR WEATHER PANEL (PAINTED METAL)
D	61603012	ASSY GRILLE WSE SLEEVE
E	61578101	GASKET (ATTACHED TO SLEEVE)

Figure C.4.3

C. INSTALLATION OF THE UNIT

C.5 Chassis Installation

⚠ CAUTION



Excessive Weight Hazard

Use two or more people when installing your air conditioner.

Failure to do so can result in back or other injury.

⚠ CAUTION



Cut/Sever

Although great care has been taken to minimize sharp edges in the construction of your unit, use gloves or other hand protection when handling unit.

Failure to do so can result in minor to moderate personal injury.

Sleeve Dimensions			
	Friedrich WSE Sleeve	Fedders A Sleeve	Fedders B Sleeve*
Height	16 3/4"	16 3/4"	16 3/4"
Width	27"	27"	27"
Depth	16 3/4"	16 3/4"	19 3/4"
*Installation in a Fedders B sleeve requires a baffle adapter kit-BAK			

STEP 1. Check the sleeve to be certain it has been correctly installed in the wall. Remove the front panel on the WSE SLEEVE. Remove the rear WEATHER PANEL. Reverse grille. Place lower edge into sleeve tab (Friedrich logo facing out). Align slots with the screw holes. Secure grille with screws.

A. Check the anchor screw. There should be four (4) in the WSE SLEEVE (two in each side).

B. Determine if the sleeve has a downward slope of 3/8 bubble to the outside. See Figure C.4.2 for further details.

C. Check to be sure the sleeve has been sealed around all edges with an industrial type caulking on both the outside and inside to prevent rain entry.

STEP 2. Check the electrical receptacle to see that it conforms to the requirements for the chassis model to be installed. See Section E.2 for the receptacle requirements.

STEP 3. Remove the chassis from the shipping carton.

STEP 4. Remove the FRONT PANEL. Using the handles, pull panel out until it is released from the two retaining snaps. Place the cover aside carefully.

STEP 5. Lift the chassis by the basepan and slide it into the front of the sleeve. (Obtain assistance as needed.)

Step 6. Turn the unit at an angle to allow clearance to secure the grounding wire which has a red tag on it. Drive a grounding screw through the lug on the grounding wire, through the wall sleeve, and into the wall frame.

Step 7. Push the chassis all the way into the sleeve, using the plastic front handles, so that the front panel meets the front edge of the shell.

NOTE: Chassis comes with pre-installed seal gasket.

Step 8. Check that filter is properly installed, and reinstall front panel. Refer to Section C.6

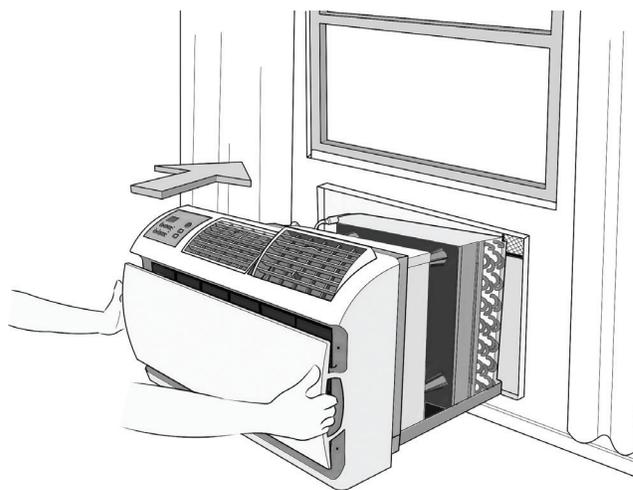


Figure C.5

C.6 Install or Replace Filter

HOW TO CLEAN YOUR AIR FILTER

Your Friedrich room air conditioner is equipped with a permanent/washable mesh air filter. The filter serves to remove dust, pollen, and other impurities from the air.

CHECK FILTER LIGHT

Your Friedrich room air conditioner is equipped with a check filter light that will illuminate after *45-60 days of fan operation.

To reset the CHECK FILTER press the fan mode and speed buttons simultaneously (While the reminder is set for 45-60 days of operation, we recommend checking the filter every 30 days for optimal performance.)

*Actual timer is set for 1000 hours of fan cycle operation.

FILTER ACCESS

Remove the **FRONT PANEL**. Using the handles, pull panel out until it is released from the two retaining snaps. Place the cover aside carefully. Remove the filter by pulling it from the handles releasing it from the slots on the frame. Wash the filter with water to remove all dust and then rinse, remove water excess and let it dry - do not twist - then replace the filter by inserting each tab in their respective slot.

Replace the **FRONT PANEL** by positioning one of the sides in the snaps of the handle first and then the other side, make sure that both snaps are correctly aligned and the logo is in the right position.

C. INSTALLATION OF THE UNIT

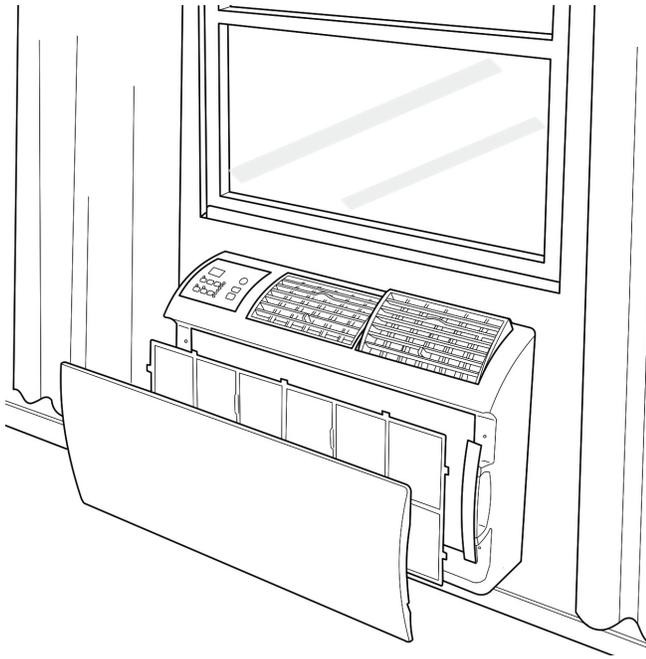


Figure C.6

C.7 Condensate Removal

If you desire to drain condensate from the basepan during unit operation, this unit is provided with a drain nipple that can be attached to the basepan. You must provide a 3/8" outside diameter thin-wall plastic or copper tube which will attach to the drain nipple.

Follow the instructions below:

- STEP 1.** Find the drain rubber plug on the rear of the basepan and remove it (see Figure C.7).
- STEP 2.** Remove the knockout in the lower right side of the rear grille. Slide the chassis into the WSE SLEEVE so that the drain nipple extends through the knockout.
- STEP 3.** Slide the tubing over the drain nipple. If the chassis must be removed from the sleeve for service, remove the clamped drain hose before sliding the chassis out of the sleeve.

C.8 Alternate Drain Kits

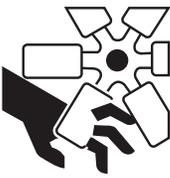
IDK (Drain Kit)

New construction allowing for condensate drain systems built within the walls can use the Friedrich Interior Drain Kit (Accessory #IDK). This kit is designed for installation in the bottom of the sleeve below the condensate bellows valve (heat/cool models only).

DK (Drain Kit)

In the event that the outdoor temperature drops below 37 °F, any water that remains in the chassis basepan is drained into the sleeve pan on WET and WHT models to prevent freezing. (NOTE: In the cooling mode of the WCCT, WET and WHT models, condensate overflow is possible in very humid climates). For these particular instances, an optional drain kit (Accessory #DK) is available for water removal.

⚠ CAUTION	
	Moving Parts Hazard Do not operate unit out of sleeve or with front grille removed. Do not place hands in blower or fan blade areas. Failure to do so can result in serious injury

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	Moving Parts Hazard Do not operate unit out of sleeve or with front grille removed. Do not place hands in blower or fan blade areas. Failure to do so can result in serious injury

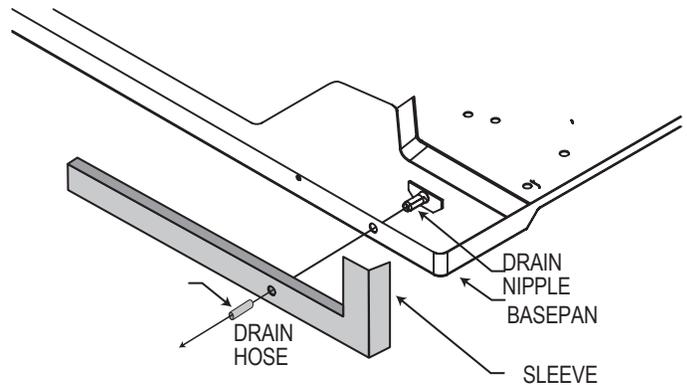


Figure C.7

E. ELECTRICAL

E.1 Electrical Safety Information

⚠ WARNING



Electrical Shock Hazard

Make sure your electrical receptacle has the same configuration as your air conditioner's plug. If different, consult a Licensed Electrician.

Do not use plug adapters.
Do not use an extension cord.
Do not remove ground prong.

Always plug into a grounded 3 prong outlet.
Failure to follow these instructions can result in death, fire, or electrical shock.

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 Table 1.

DO NOT use an extension cord.

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

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

Proper grounding must be maintained at all times. Two prong receptacles must be replaced with a grounded receptacle by a certified electrician.

The grounded receptacle should meet all national and local codes and ordinances. You must use the three prong plug furnished with the air conditioner. Under no circumstances should you remove the ground prong from the plug.

MODEL	CIRCUIT RATING OR TIME DELAY FUSE		REQUIRED WALL RECEPTACLE	
	AMP	VOLT	NEMA NO.	
	15	125	5-15R	
WCT16	15	250	6-15R	
	20	250	6-20R	
	30	250	6-30R	

E.2 Testing the Power Cord

All Friedrich room air conditioners are shipped from the factory with a Leakage Current Detection Interrupter (LCDI) equipped power cord. The LCDI device on the end of the cord meets the UL and NEC requirements for cord connected air conditioners.

To test your power supply cord:

1. Plug power supply cord into a grounded 3 prong outlet.
2. Press RESET (see Figure 1).
3. Press TEST, listen for click; the RESET button trips and pops out.
4. Press and release RESET (Listen for click; RESET button latches and remains in). Check that the green LED light is on. The power cord is ready for use.

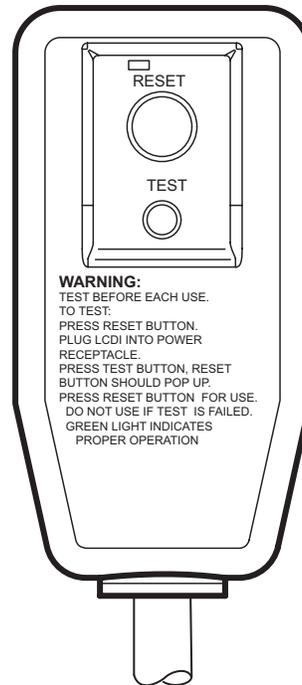


Figure E.2

Once plugged in, the unit will operate normally without the need to reset the LCDI device. If the LCDI device fails to trip when tested or if the power supply cord is damaged, it must be replaced with a new power supply cord from the manufacturer.

NOTICE

Do not use the LCDI device as an ON/OFF switch.

Failure to adhere to this precaution may cause premature equipment malfunction.

J. STARTUP AND OPERATION

J.1 Final Inspection

- Inspect and ensure that all components and accessories have been installed properly and that they have not been damaged during the installation progress.
- Check the condensate water drain(s) to ensure that they are adequate for the removal of condensate water, and that they meet the approval of the end user.
- Ensure that all installation instructions concerning clearances around the unit have been adhered to. Check to ensure that the unit air filter, indoor coil, and outdoor coil are free from any obstructions.
- Inspect the unit for any damage to the coils and tubing that could cause a leak.
- Ensure that the circuit breaker(s) or fuse(s) and supply circuit wire size have been sized correctly. If the unit was supplied with a power supply cord, insure that it is stored properly.
- Ensure that the entire installation is in compliance with all applicable national and local codes and ordinances having jurisdiction.
- Secure components and accessories, such as a decorative front cover.
- Start the unit and check for proper operation of all components in each mode of operation.
- Instruct the owner or operator of the units operation, and the manufacturer's Routine Maintenance.

NOTE: A log for recording the dates of maintenance and/or service is recommended.

J.2 Air Flow Selection and Adjustment

Airflow direction adjustment

The airflow path may be adjusted to distribute air independently from the left or right side of the discharge opening. Each of the banks of louvers can be directed left, right, up, or down in order to achieve the most optimum airflow positioning.

To adjust airflow direction, grab the lever in the center of the louver bank and move it in the direction that you would like the air to be directed. Please note that it is normal that airflow may be stronger out of one side of the louvers than the other.

J.3 Control Panel Operation

SYSTEM - The **MODE** button allows you to sequentially select up to four modes of operation:

AUTO	Available on select models
COOL	
HEAT	Available on select models
FAN ONLY	

AUTO FAN (No Cooling Demand)

When in **AUTO** mode, the fan only operates when the system has a demand to cool or heat the room.

In the **ON** fan mode, the fan operates all the time. The system periodically cools or heats the fan's airflow but the flow of air does not stop.

UP and DOWN Arrows - Pressing either an **UP** or **DOWN** button changes the system's setpoint (desired room temperature). These buttons are also used to make system parameter changes later in this manual.

One press equals 1 degree of change in Fahrenheit mode. One press equals 0.5 degree change in Celsius mode.

TIMER

The timer can be engaged or disengaged from the control panel. This is done by pressing or holding the UP and DOWN arrows simultaneously for three seconds.

OTHER FUNCTIONS

°F – °C Select

To switch from degrees Fahrenheit (F) to Celsius (C), press the MENU button and enter the F-C sub-menu.

FAN SPEED - Depending on your model, the FAN SPEED button allows you to toggle between three or four modes of operation: LOW, MEDIUM, HIGH and MAX.

Alerts

When the filter needs to be cleaned or replaced, the CHECK FILTER icon displays.

The alert can be dismissed by pressing the FAN MODE and SPEED for 3 seconds.

Lock Control Panel

To lock/unlock the front panel controls, navigate to the "LOCK" sub-menu found after clicking the MENU button. The lock requires a four digit pass code to lock/unlock the unit. This pass code will be required to enter the menu to unlock the unit. The LOCK icon illuminates to indicate the locked status.

The LOCK icon disappears to indicate unlocked status.

External Control Status

The Wi-Fi icon illuminates to indicate that the system is receiving a Wi-Fi connection. The Wi-Fi icon also provides information about the signal strength.

ADVANCED FUNCTIONS

The functions mentioned in the following section may or may not be available depending on the air conditioner model.

Modify the TIMER Function

Navigate to the TIME menu to set the timer.

J. STARTUP AND OPERATION

J.3 Control Panel Operation

All of the control panel function buttons and mode icons can be viewed in Figure J.3.2

Power On – Press the button to turn on the air conditioner. The power button illuminates to indicate that the power is on. The backlight on the power switch will automatically turn off after 20 seconds of inactivity.

Display – The display is a high efficiency LCD with a built-in backlight. After 20 seconds of inactivity, the display switches off. Touching any button automatically changes the display to full brightness.

There are three control push buttons on each side of the display.

SYSTEM Cycles between AUTO, HEAT, COOL, or FAN ONLY (if equipped)	FAN MODE Sets fan to either: - Cycle automatically - Run continuously	FAN SPEED Sets fan speed: LOW, MED, HIGH or AUTO (if equipped)	TEMPERATURE Increment UP	TIMER Turns ON or OFF	IR WINDOW Do not block	ON / OFF Turns unit on/off
			TEMPERATURE Increment DOWN			

Figure J.3.1

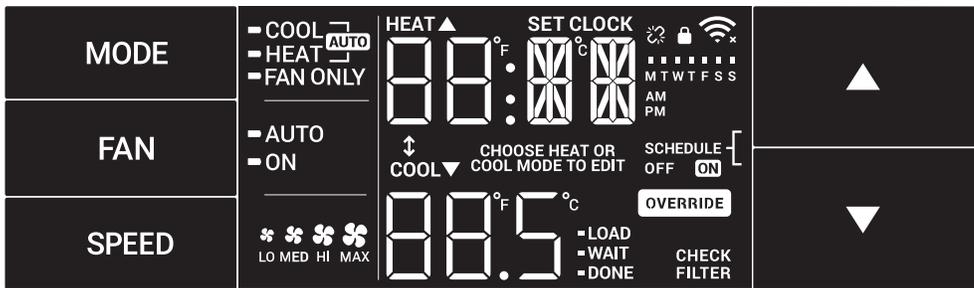
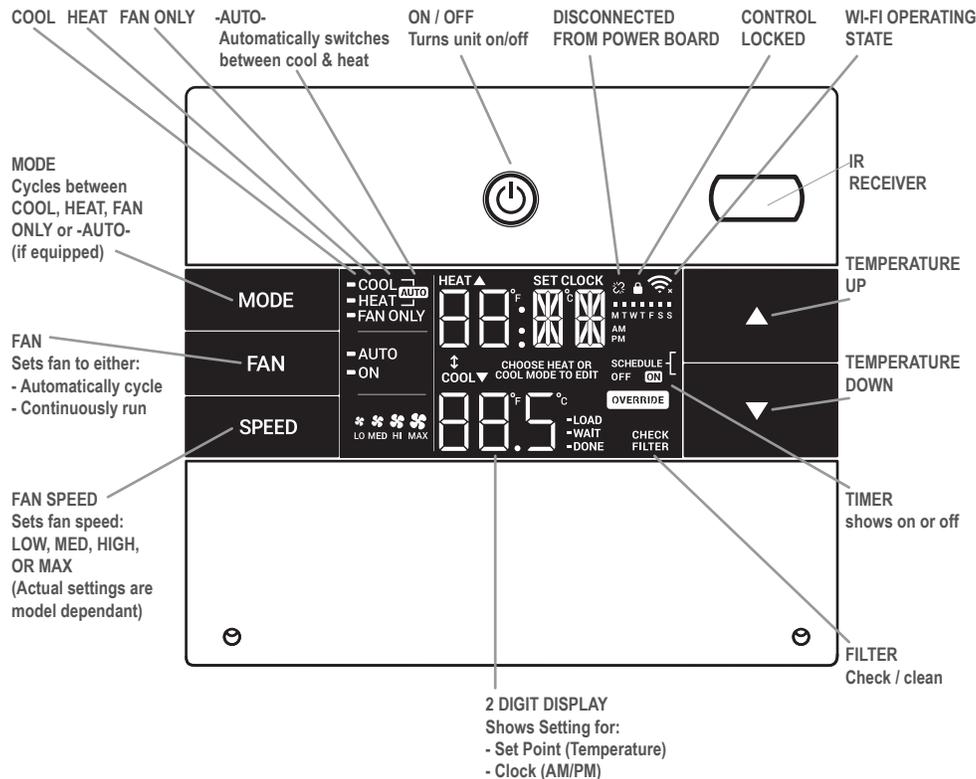


Figure J.3.2



J. STARTUP AND OPERATION

J.3 Control Panel Operation

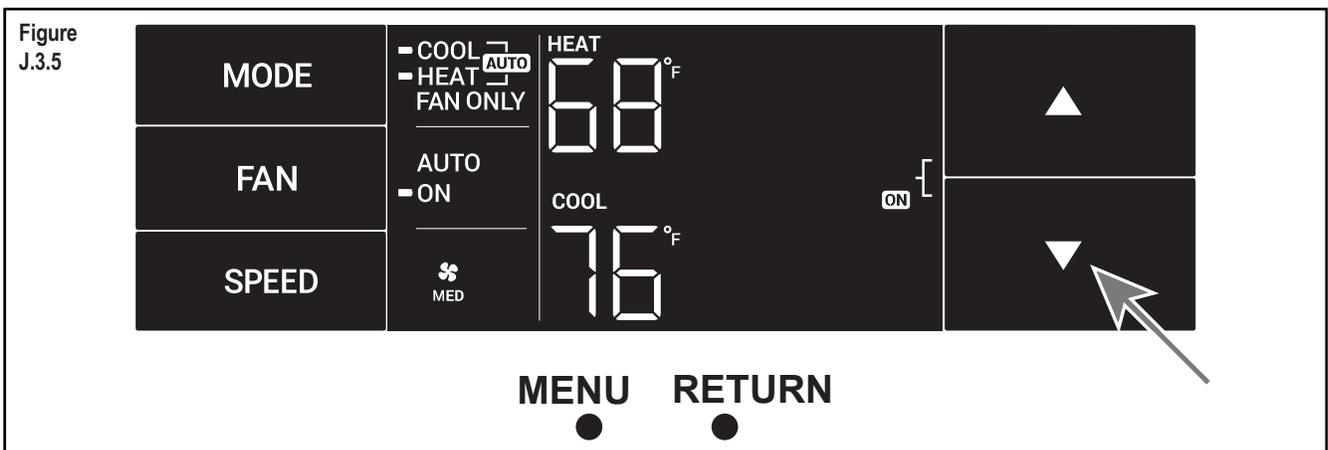
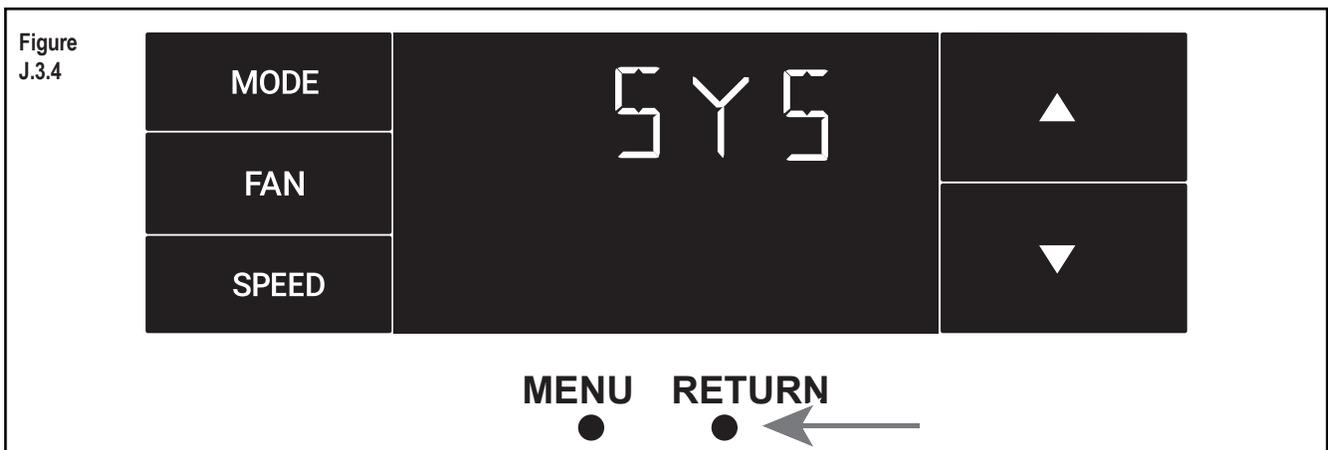
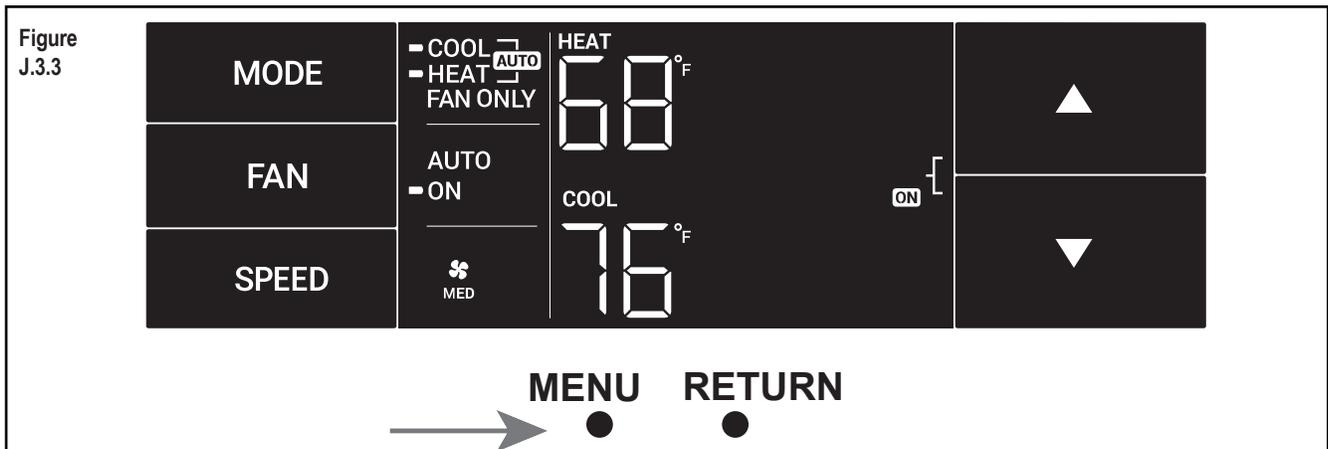
Accessing Sub-Menus

The MENU button accesses the sub-menu. See Figure J.3.3.

The arrow buttons navigate the 6 menu options See Figure J.3.4:

- LIM
- LOCK
- TM
- CnCT
- F-C
- diAG

The RETURN button exits the menu. See Figure J.3.5.



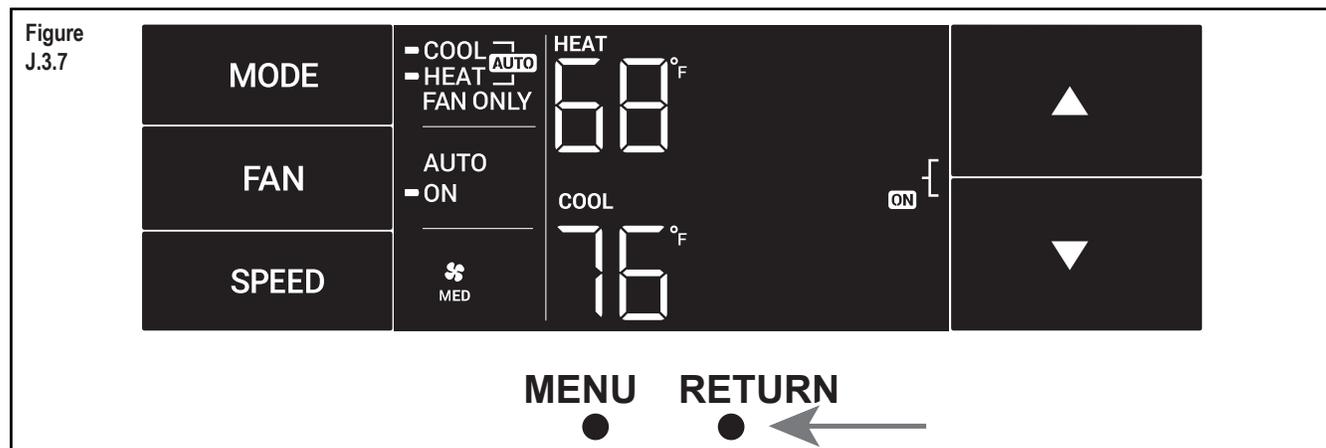
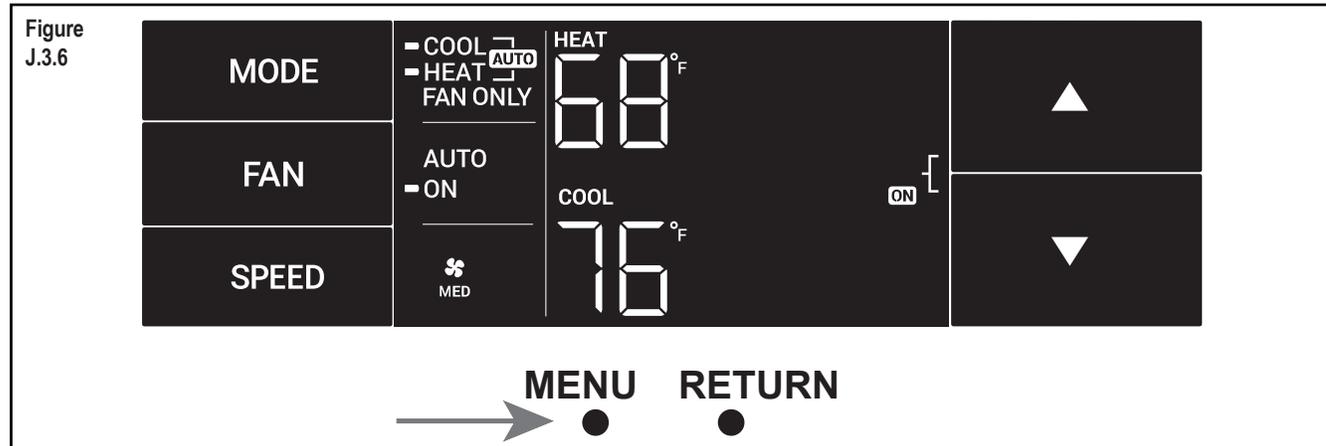
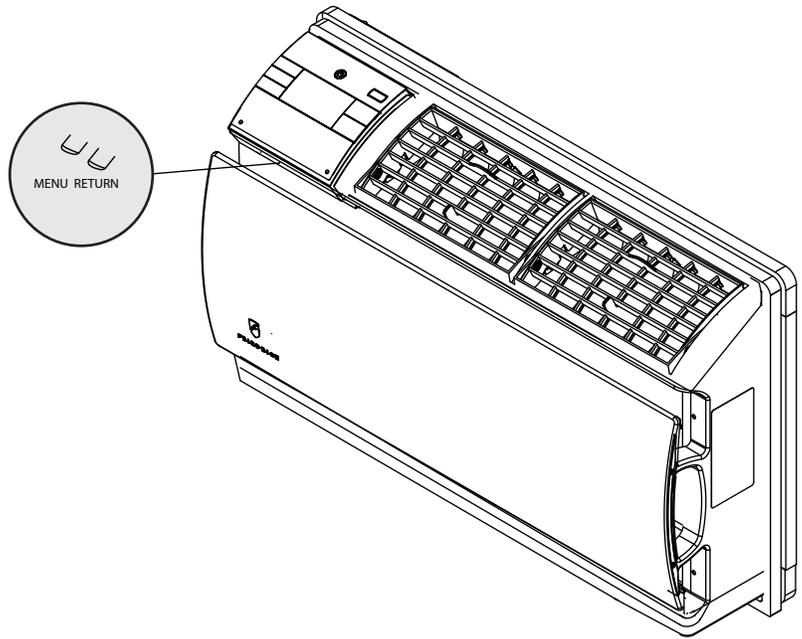
J. STARTUP AND OPERATION

J.3 Control Panel Operation

Navigating Inside the Sub-Menus

The MENU button moves you forward through the sub-menu. See Figure J.3.6.

The RETURN button moves you backward once inside the LIM and TM menus. See Figure J.3.7.



J. STARTUP AND OPERATION

J.3 Control Panel Operation

The LIM Menu

This is the limit menu. See Figure J.3.8.

Upon entering the menu, the first option will be to set the lower setpoint limit using the arrow buttons. See Figure J.3.9.

Then you can set the higher setpoint limit using the arrow buttons. See Figure J.3.10.

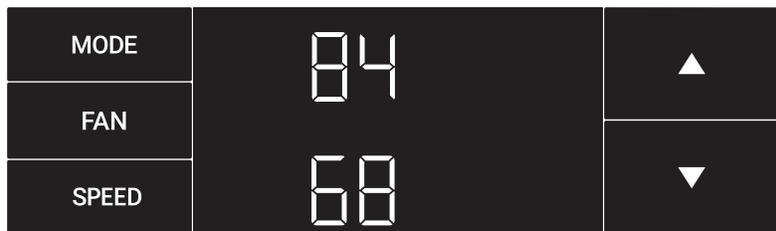
Pressing the menu button completes the limit setting. See Figure J.3.11.

Figure J.3.8



MENU RETURN

Figure J.3.9



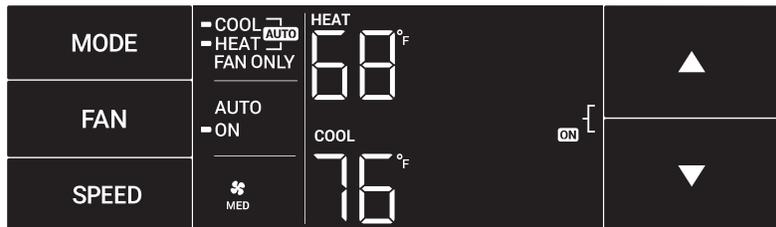
MENU RETURN

Figure J.3.10



MENU RETURN

Figure J.3.11



MENU RETURN

J. STARTUP AND OPERATION

J.3 Control Panel Operation

The TM Menu

This is the TM menu used to set a timer. See Figure J.3.12.

In the menu, you set the current time using the arrow buttons. See Figure J.3.13. (Note: These two "set clock" steps will be skipped if the unit is already connected to Wi-Fi.)

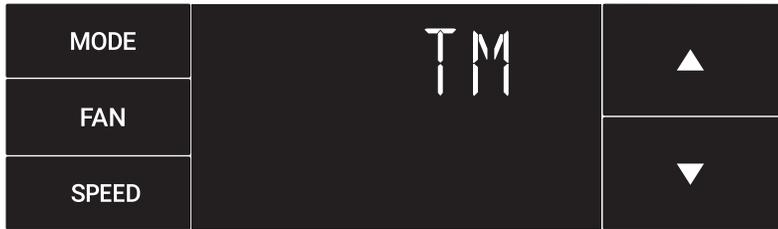
First, set the hour.

Using the  button, you switch to the minutes and complete setting the time. See Figure J.3.14.

You select your mode. Either cool, heat, or auto. Toggle these using the arrow buttons. See Figure J.3.15. (Note: cooling-only models skip this step.)

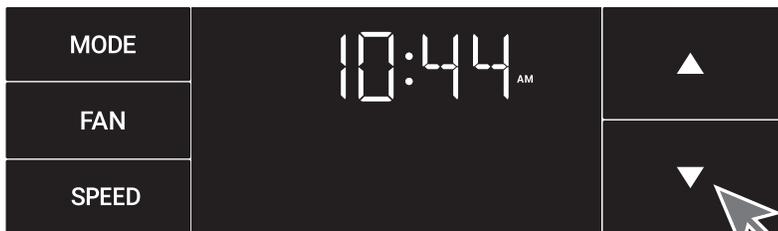
The process is the same for all three modes. Auto mode will be shown as the example.

Figure J.3.12



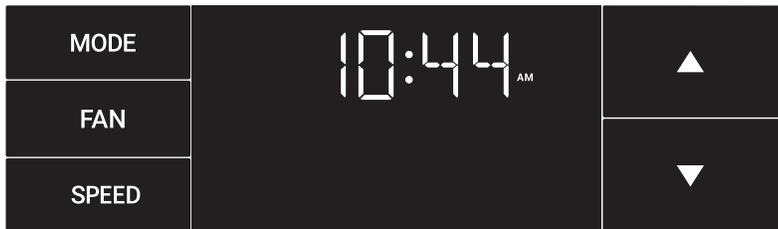
MENU RETURN

Figure J.3.13



MENU RETURN

Figure J.3.14



MENU RETURN

Figure J.3.15



MENU RETURN

J. STARTUP AND OPERATION

J.3 Control Panel Operation

The TM Menu continued

Auto mode selected. See Figure J.3.16.

Note: The auto mode timer sets both the cool and heat setpoint.

Set the cool setpoint for your first timer period using the arrow buttons. The cooling mode timer only sets the cool setpoint. See Figure J.3.17.

Set the time to start the first timer period. See Figure J.3.19.

Next, set the heat setpoint for your first timer period. The heating mode timer only sets the heat setpoint. See Figure J.3.18.

Figure J.3.16



Figure J.3.17

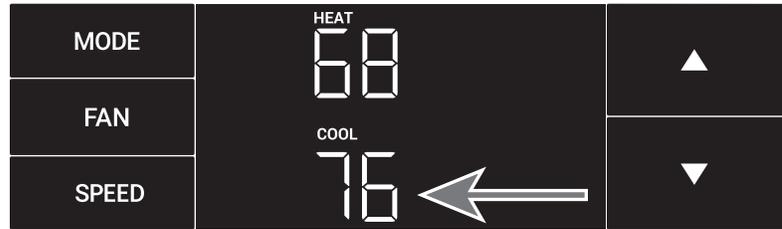


Figure J.3.18

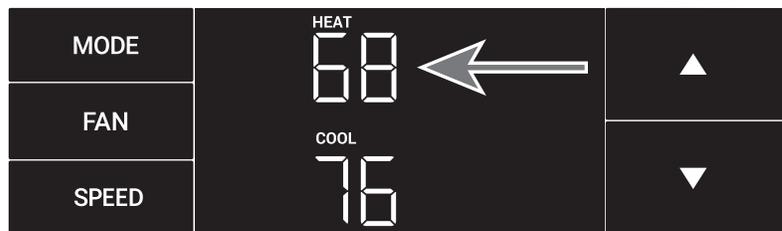


Figure J.3.19



J. STARTUP AND OPERATION

J.3 Control Panel Operation

The TM Menu continued

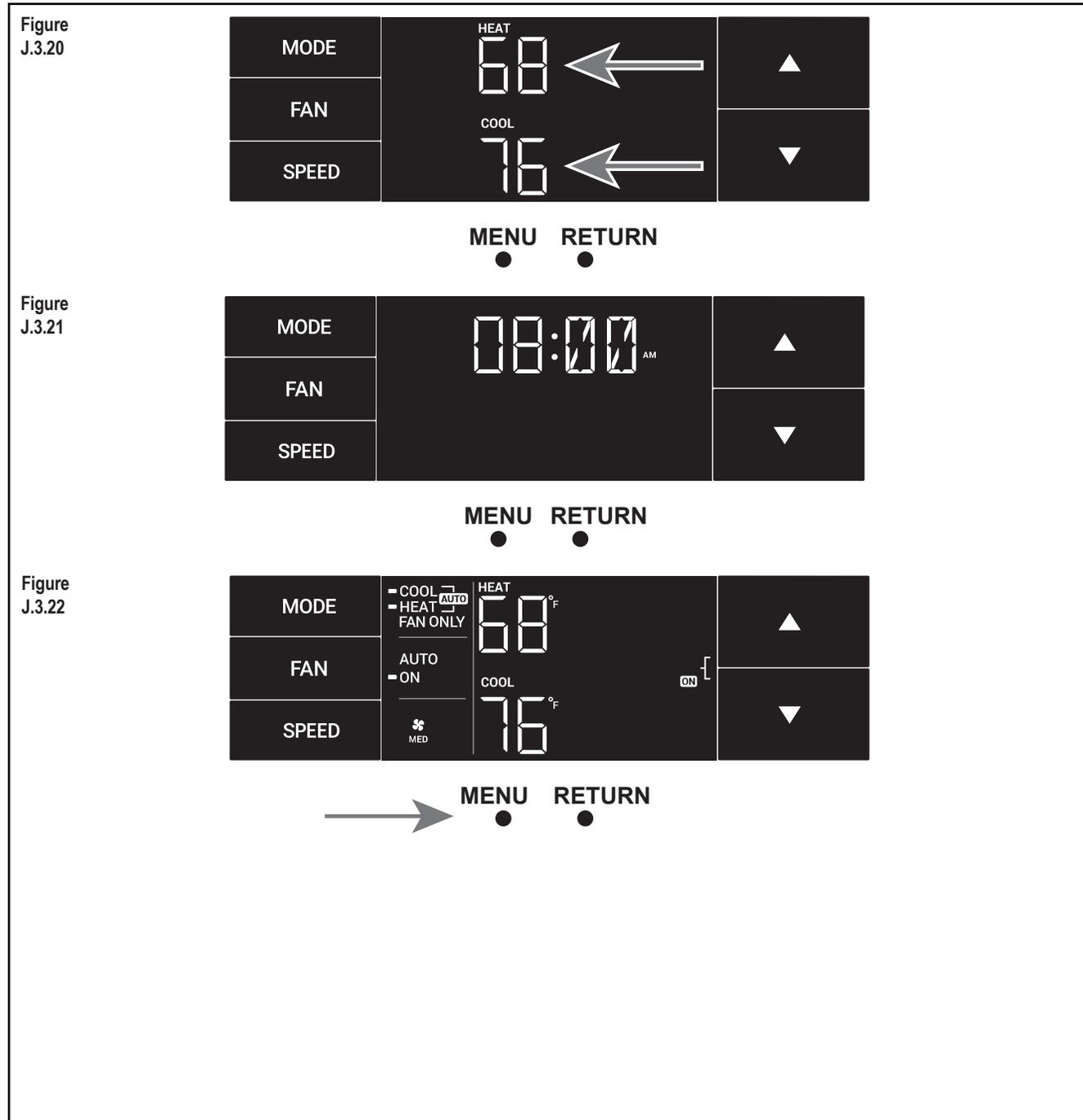
Set the cool setpoint for the second scheduled timer. See Figure J.3.20.

Set the heat setpoint for the second timer.

Set the time to start the second timer period. See Figure J.3.21.

Press the button to complete the time timer setup.

See Figure J.3.22.



J. STARTUP AND OPERATION

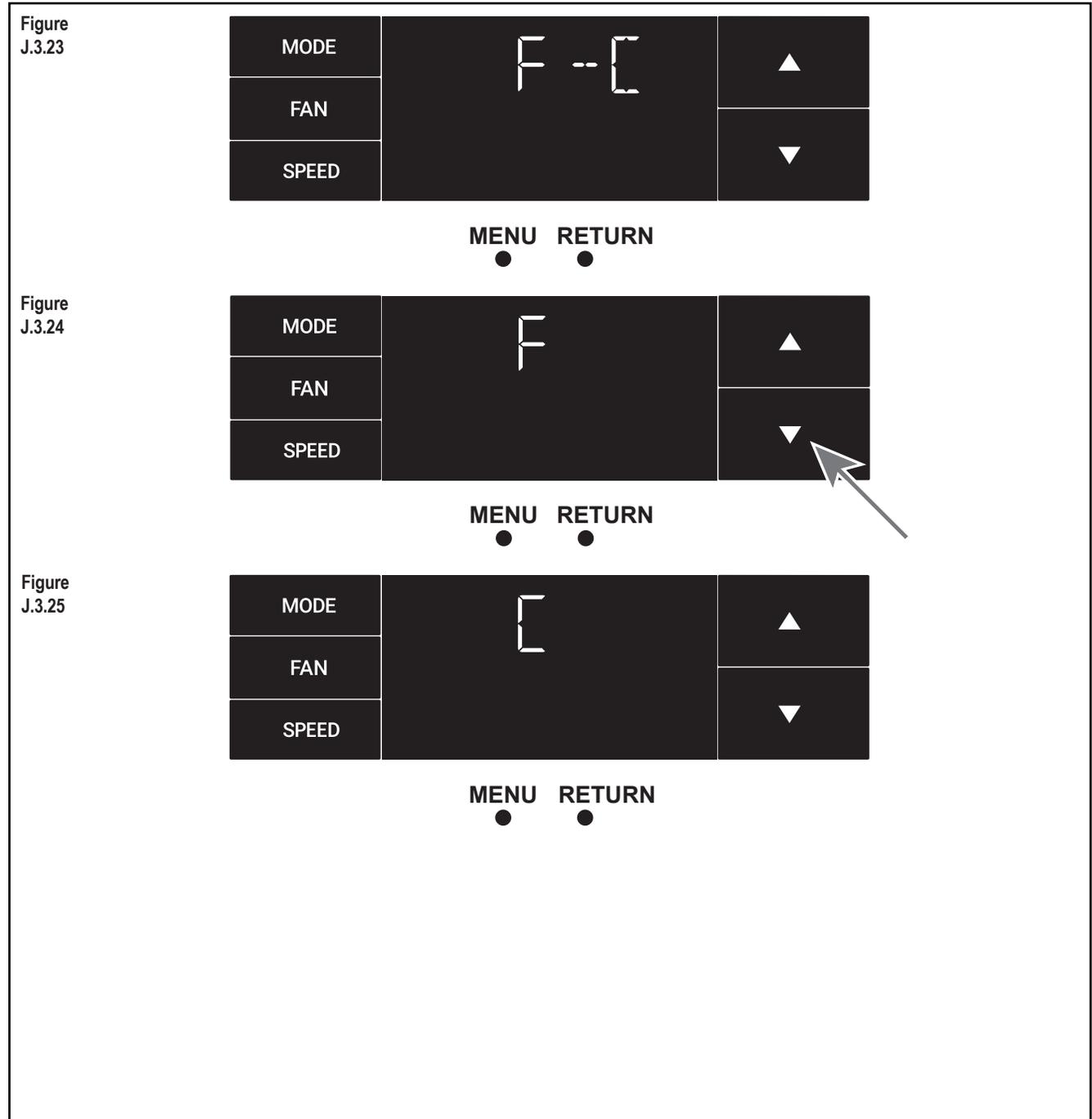
J.3 Control Panel Operation

The F-C Menu

This menu is used to toggle between Fahrenheit and Celsius.

This is the Fahrenheit/ Celsius Menu. See Figure J.3.23

Using the arrow buttons on the right side switches it from Fahrenheit to Celsius. See Figures J.3.24 and J.3.25.



J. STARTUP AND OPERATION

J.3 Control Panel Operation

The Lock Menu

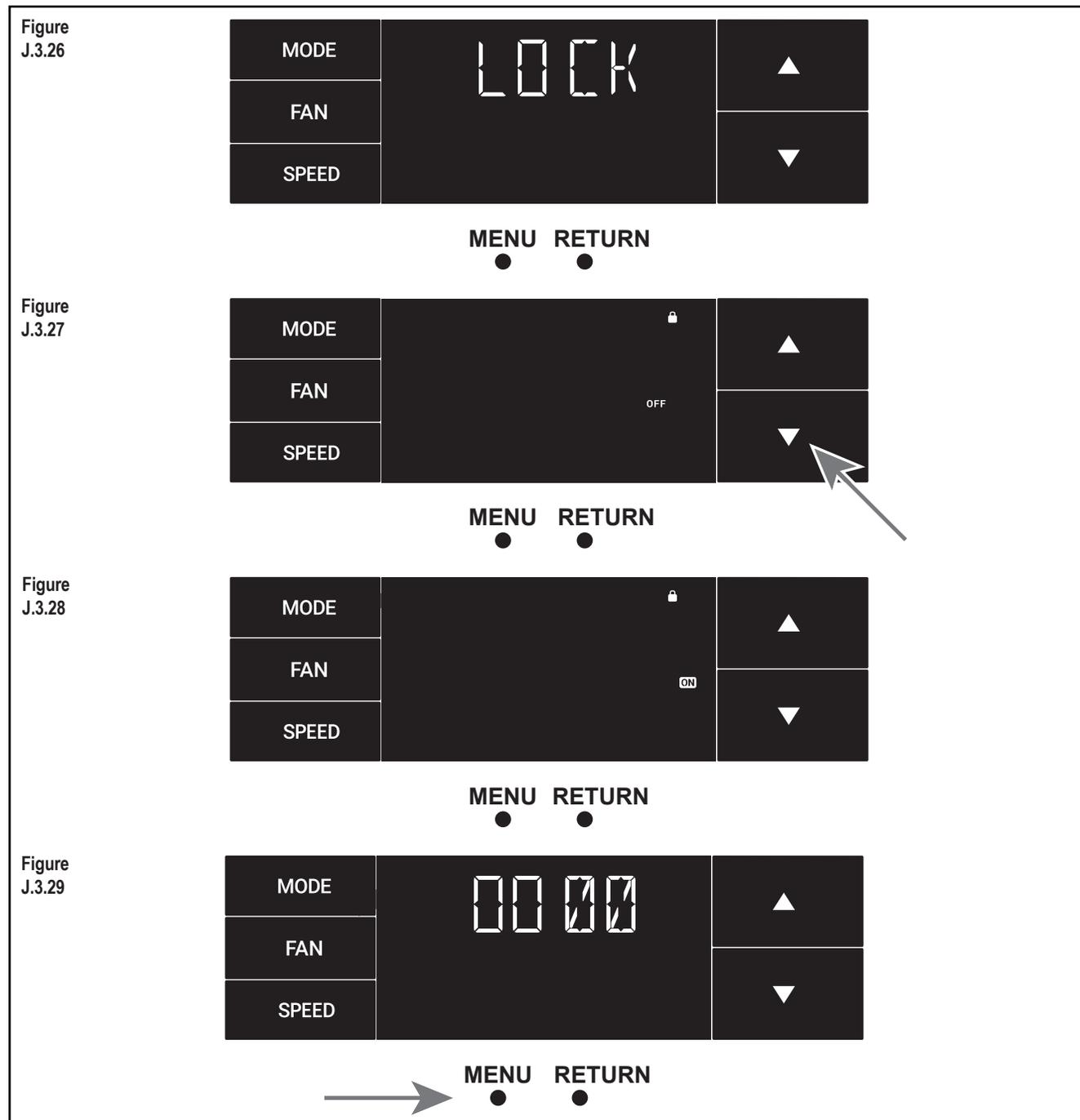
This menu is used to lock the changing setting with a password.

This is LOCK on. See Figure J.3.28

This is the Lock Menu. See Figure J.3.26

Set the first digit of the password using the arrow buttons. Use the button to proceed to the next digit. See Figure J.3.29

The default is the off setting. Use the arrows to toggle between off and on. See Figure J.3.27



J. STARTUP AND OPERATION

J.3 Control Panel Operation

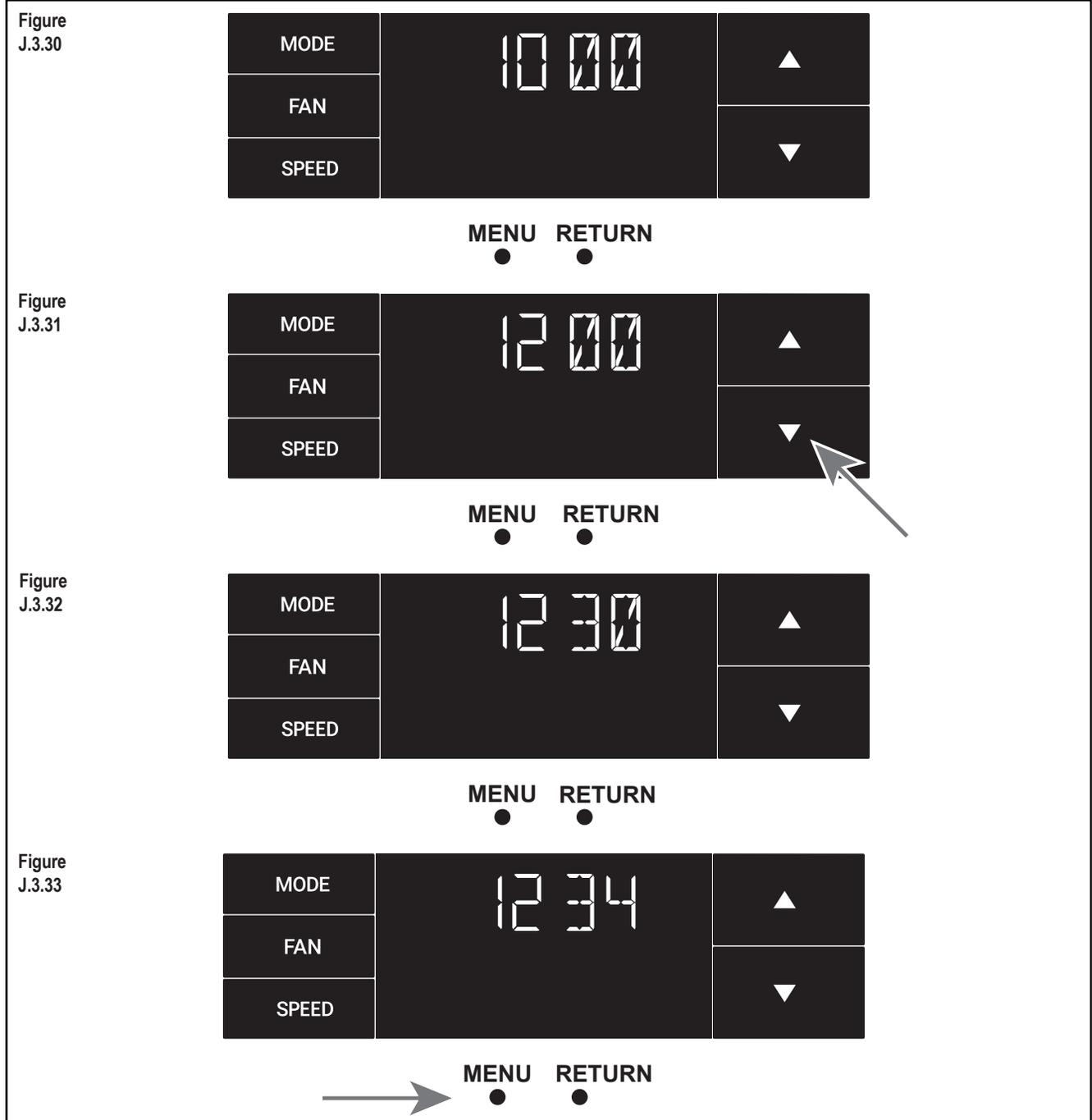
The Lock Menu continued

Set the second digit of the password using the same method.
See Figure J.3.30

Set the third digit of the password using the same method.
See Figure J.3.31

Set the fourth digit of the password using the same method.
See Figures J.3.32

Press the button to complete the password process.
See Figure J.3.33



J. STARTUP AND OPERATION

J.3 Control Panel Operation

The Lock Menu continued

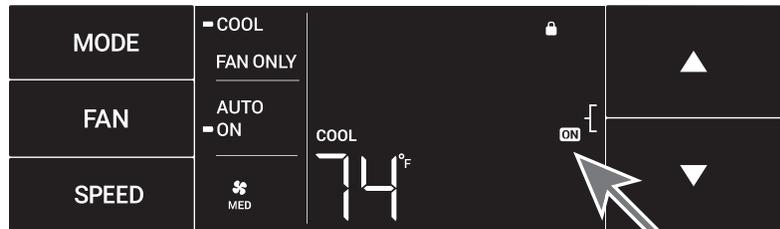
The ON on the right side of the display shows the lock function is active. To go back into the menu, select the button again. See Figure J.3.34

Enter the password in the same manner it was created. See Figure J.3.35.

Entering the correct password will give the user access to all of the sub-menus. See Figure J.3.36

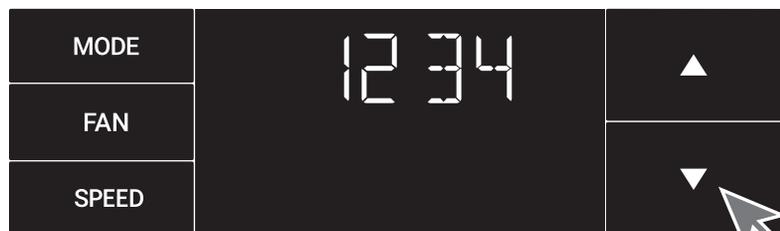
Accessing the lock menu will allow you to toggle lock OFF if needed. See Figure J.3.37

Figure J.3.34



MENU RETURN

Figure J.3.35



MENU RETURN

Figure J.3.36



MENU RETURN

Figure J.3.37



MENU RETURN

J. STARTUP AND OPERATION

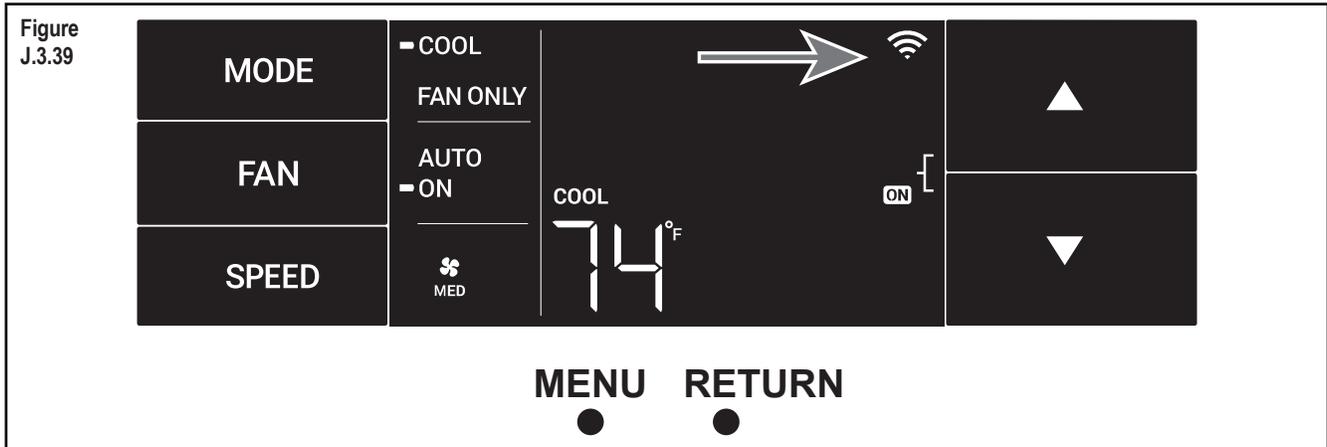
J.3 Control Panel Operation

The CnCT Menu

This menu is used to turn on Wi-Fi connection.

This is the CnCT menu. Pressing the button will activate Wi-Fi.
See Figure J.3.38

The Wi-Fi symbol in the top right corner of the display shows Wi-Fi connection is on. See Figure J.3.39



J. STARTUP AND OPERATION

J.3 Control Panel Operation

The diAG Menu

This menu is used to access the diagnostic codes. See Figure J.3.40.

Selecting this sub-menu shows the E that represents "Error."
See Figure J.3.41

Toggle through the error codes using the arrow keys. See Figure J.3.42

Figure J.3.40



Figure J.3.41



Figure J.3.42



J. STARTUP AND OPERATION

J.4 Remote Control Operation

Remote Control - Refer to Figure J.4.1 during operation description.

Getting Started - Install two (2) AAA batteries in the battery compartment located on the back of the unit.

Operation - The remote control should be within 25 feet of the air conditioner for operation. Press the power button to turn the remote on. The remote will automatically power off after 15 seconds if the buttons are not being pressed. The remote must be on to control the unit.

POWER Button - Turns remote and unit on and off.

SYSTEM Button - Allows the user to sequentially select the following: AUTO, COOL, HEAT, and FAN ONLY operations. When the button is pressed, the display indicates which mode has been selected via a display message. Note that when the heating function is not available, the system will automatically skip the HEAT mode.

FAN MODE Button - Selects between automatic (AUTO FAN) or CONTINUOUS operation. In the AUTO FAN mode, the fan only turns on and off when the compressor operates or the heat function is enabled.

NOTE: AUTO FAN is not available in the FAN ONLY Mode, the display indicates CONTINUOUS. In the CONTINUOUS mode, fan speed is determined by your selection on the FAN SPEED button.

FAN SPEED Button - Used to sequentially select new fan speed, plus AUTO operation. When the FAN SPEED button is pressed, the fan speed icon (triangle) changes to indicate the new speed level. Fan speed automatically varies depending on the set temperature on the control panel and the actual room temperature. For example, if there is a big difference between your set temperature and the actual room temperature, the system fan speed increases to HIGH. It remains at this speed until the room temperature matches the set temperature.

UP and DOWN Arrows - Pressing either the UP or DOWN button changes the desired room temperature. The factory preset lower and upper limits are 60°F (16°C) and 99°F (37°C). These buttons are also used to navigate between function options when using the User Menu or Maintenance Mode.

Remote Effectiveness

Handheld Remote - Has an operating range of up to 25 ft. The infrared remote control signal must have a clear path to transmit the command to the air conditioning unit. The remote signal has some ability to "bounce" off of walls and furniture similar to a television remote control. The diagram below shows the typical operating range of the control in a standard room with 8 ft high ceilings.

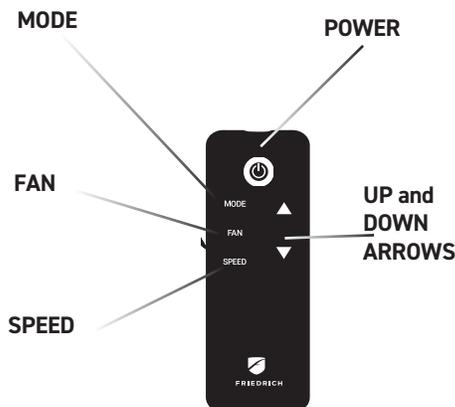


Figure J.4.1

J.5 Start-up

This is a warm weather appliance

Your air conditioner is designed to cool in warm weather when the outside temperature is above 60°F and below 115°F, so it won't cool a room if it is already cool outside.

Condensation is normal

Air conditioners actually pump the heat and humidity from your room to the outside. 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 these. Set the SYSTEM mode 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. Friedrich units are designed to operate as quietly as possible. An air conditioner mounted in a wall is quieter than one mounted in a window. It is important to ensure that the chassis seal gasket (Item 13) is properly installed (refer to the Installation Instructions).

NOTICE

This unit is certified to operate in cooling mode under these maximum conditions. Any operation beyond these conditions may result in intermittent operation.

Indoor temperature: 90 °F (45% relative humidity)

Outdoor temperature: 110 °F (25% relative humidity)

If unit is heat pump equipped, it is certified to operate in heating mode under these maximum conditions. Any operation beyond these conditions may result in intermittent operation.

Indoor temperature: 80 °F (humidity does not affect operation)

Outdoor temperature: 70 °F (60% relative humidity)

L. WiFi

This model is currently compatible with Friedrich Connect and Alexa, but not Google Connect. Use a QR Reader on your phone to scan this QR Code. It will take you to the Wifi Instructions page of our website.



M. TROUBLESHOOTING

M.1. Troubleshooting Tips

COMPLAINT	CAUSE	SOLUTION
Unit does not operate.	<ul style="list-style-type: none"> The unit is turned to the off position, or the thermostat is satisfied. 	<ul style="list-style-type: none"> Turn the unit to the on position and raise or lower temperature setting (as appropriate) to call for operation.
	<ul style="list-style-type: none"> The LCDI power cord is unplugged. 	<ul style="list-style-type: none"> Plug into a properly grounded 3 prong receptacle. See “Electrical Rating Tables” on Page 6 for the proper receptacle type for your unit.
	<ul style="list-style-type: none"> The LCDI power cord has tripped (Reset button has popped out). 	<ul style="list-style-type: none"> Press and release RESET (Listen for click. Reset button latches and remains in.) to resume operation.
	<ul style="list-style-type: none"> The circuit breaker has tripped or the supply circuit fuse has blown. 	<ul style="list-style-type: none"> Reset the circuit breaker, or replace the fuse as applicable. If the problem continues, contact a licensed electrician.
	<ul style="list-style-type: none"> There has been a local power failure. 	<ul style="list-style-type: none"> The unit will resume normal operation once power has been restored.
Unit Trips Circuit Breaker or Blows Fuses.	<ul style="list-style-type: none"> Other appliances are being used on the same circuit. 	<ul style="list-style-type: none"> The unit requires a dedicated outlet circuit, not shared with other appliances.
	<ul style="list-style-type: none"> An extension cord is being used. 	<ul style="list-style-type: none"> Do NOT use an extension cord with this or any other air conditioner.
	<ul style="list-style-type: none"> The circuit breaker or time-delay fuse is not of the proper rating. 	<ul style="list-style-type: none"> Replace with a circuit breaker or time-delay fuse of the proper rating. See Table E.1 for the proper circuit breaker/fuse rating for your unit. If the problem continues, contact a licensed electrician.
LCDI Power Cord Trips (Reset Button Pops Out).	<ul style="list-style-type: none"> The LCDI power cord can trip (Reset button pops out) due to disturbances on your power supply line. 	<ul style="list-style-type: none"> Press and release RESET (Listen for click. Reset button latches and remains in.) to resume normal operation.
	<ul style="list-style-type: none"> Electrical overload, overheating, or cord pinching can trip (Reset button pops out) the LCDI power cord. 	<ul style="list-style-type: none"> Once the problem has been determined and corrected, press and release RESET (Listen for click. Reset button latches and remains in.) to resume normal operation.
	<p>NOTE: A damaged power supply cord must be replaced with a new power supply cord obtained from the product manufacturer and must not be repaired. The power cord must be replaced by trained service personnel.</p>	
Unit Does Not Cool/Heat Room Sufficiently, or Cycles On And Off Too Frequently.	<ul style="list-style-type: none"> The return/discharge air grille is blocked. 	<ul style="list-style-type: none"> Ensure that the return and/or discharge air paths are not blocked by curtains, blinds, furniture, etc.
	<ul style="list-style-type: none"> Windows or doors to the outside are open. 	<ul style="list-style-type: none"> Ensure that all windows and doors are closed.
	<ul style="list-style-type: none"> The temperature is not set at a cool enough/warm enough setting. 	<ul style="list-style-type: none"> Adjust the Temperature control to a cooler or warmer setting as necessary.
	<ul style="list-style-type: none"> The filter is dirty or obstructed. 	<ul style="list-style-type: none"> Clean the filter, (see Routine Maintenance), or remove obstruction.
	<ul style="list-style-type: none"> The indoor coil or outdoor coil is dirty or obstructed. 	<ul style="list-style-type: none"> Clean the coils, (see Routine Maintenance), or remove obstruction.
	<ul style="list-style-type: none"> There is excessive heat or moisture (cooking, showers, etc.) in the room. 	<ul style="list-style-type: none"> Be sure to use exhaust vent fans while cooking or bathing and, if possible, try not to use heat producing appliances during the hottest part of the day.
	<ul style="list-style-type: none"> The temperature of the room you are trying to cool is extremely hot. 	<ul style="list-style-type: none"> Allow additional time for the air conditioner to cool off a very hot room.

M. TROUBLESHOOTING

M.1. Troubleshooting Tips (Cont)

COMPLAINT	CAUSE	SOLUTION
Unit Does Not Cool/ Heat Room Sufficiently, or Cycles On And Off Too Frequently (continued).	<ul style="list-style-type: none"> The outside temperature is below 60 °F (16 °C). 	<ul style="list-style-type: none"> Do not try to operate your air conditioner in the cooling mode when the outside temperature is below 60 °F (16 °C). The unit will not cool properly, and the unit may be damaged.
	<ul style="list-style-type: none"> The digital control is set to fan cycling mode. 	<ul style="list-style-type: none"> Since the fan does not circulate the room air continuously at this setting, the room air does not mix as well and hot (or cold) spots may result. Using the continuous fan setting is recommended to obtain optimum comfort levels.
	<ul style="list-style-type: none"> The air conditioner has insufficient cooling capacity to match the heat gain of the room. 	<ul style="list-style-type: none"> Check the cooling capacity of your unit to ensure it is properly sized for the room in which it is installed. Room air conditioners are not designed to cool multiple rooms.
	<ul style="list-style-type: none"> The air conditioner has insufficient heating capacity to match the heat loss of the room. 	<ul style="list-style-type: none"> Check the heating capacity of your unit. Air conditioners are sized to meet the cooling load, and heater size is then selected to meet the heating load. In extreme northern climates, room air conditioners may not be able to be used as a primary source of heat.
Unit Runs Too Much.	<ul style="list-style-type: none"> This may be due to an excessive heat load in the room. 	<ul style="list-style-type: none"> If there are heat producing appliances in use in the room, or if the room is heavily occupied, the unit will need to run longer to remove the additional heat.
	<ul style="list-style-type: none"> It may also be due to an improperly sized unit. 	<ul style="list-style-type: none"> Be sure to use exhaust vent fans while cooking or bathing and, if possible, try not to use heat producing appliances during the hottest part of the day.
	<ul style="list-style-type: none"> This may be normal for higher efficiency (EER) air conditioners. 	<ul style="list-style-type: none"> The use of higher efficiency components in your new air conditioner may result in the unit running longer than you feel it should. This may be more apparent, if it replaced an older, less efficient, model. The actual energy usage, however, will be significantly less when compared to older models.
	<ul style="list-style-type: none"> You may notice that the discharge air temperature of your new air conditioner may not seem as cold as you may be accustomed to from older units. This does not, however, indicate a reduction in the cooling capacity of the unit. 	<ul style="list-style-type: none"> The energy efficiency ratio (EER) and cooling capacity rating (Btu/h) listed on the unit's rating plate are both agency certified.

M.2 Diagnostic Codes

DIAG CODE	PROBLEM	CONTROL BOARD'S ACTION
1	Front Panel Button Stuck For More Than 20 Seconds	Continue to monitor for "OPEN" (Unstuck) switch. Do not process switch input. ENSURE FRONT COVER DOES NOT DEPRESS BUTTONS
3	Indoor Temperature Sensor is Open or Shorted	Set temp to 75°F in COOLING or 68°F in HEATING. Unit continues to operate
4	Indoor Coil Temperature Sensor is Open or Shorted	Control Board sets temp to a default of 40°F. Override sensor. Unit continues to operate.
5	Outdoor Coil Temperature Sensor is Open or Shorted	Sets temp to 20°F. Override sensor. Continue operation. Use Electric Heat if available for HEATING. If not available use HEAT PUMP if outdoor temp allows.
6	Outdoor Coil greater than 175° F	Turn Compressor off. Wait for the outdoor coil to be less than 150°F for more than 2 consecutive minutes.
7	Indoor Coil less than 30° F for 2 consecutive minutes	Turn compressor and electric heat off. When coil temp reaches 45°F resume operation after lockout time.
8	Unit Cycles greater than 9 Times per hour	Continue operation. Continue to monitor. Take no action. Log Only.
9	Unit Cycles less than 3 Times per Hour	Continue operation. Continue to monitor. Take no action. Log Only.

M. TROUBLESHOOTING

M.2 Diagnostic Codes (Cont.)

12	Discharge Air greater than 185°F	Shutdown electric heater. Wait for the discharge air temperature to be less than 100°F. Resume operation.
13	High Pressure Switch Open	Turn compressor off. Wait until pressure switch is no longer open. Resume operation after lockout time.
14	Discharge Air Temperature Sensor is Open or Shorted	Override Sensor. Set temp to 75°F. Continue to monitor. Set error code 14 ON.
16	Temperature Beyond Operating Limits	Ambient temp is less than 0°F or greater than 130°F. Turn off compressor, electric heat, and fan. When cleared resume operation.
22	Outdoor Coil Temperature less than 30°F for 2 consecutive Minutes	Only applicable to units with heat pump and electric heat. Turn off heat pump operation. Use electric heat to satisfy all heating demands. Cleared when outdoor coil temp is greater than 45°F.
23	Frost Protection.	Only applicable to heat pump only units. Active when Heat Pump run time exceeds 60 minutes with the outdoor coil temp less than 26°F. Runs active defrost for up to 6 minutes.

P. Appendixes

P.1 Accessories and Options

DK / Drain Kit

Installed at the back of the unit and allows for attachment to condensate disposal system, if necessary or desired.

IDK / Internal Drain Kit

New construction applications where a condensate drain system has been built into the wall interior.

BAK / Baffle Adapter Kit

Necessary when installing in a sleeve deeper than 16¾" deep, such as Fedders B sleeve (19¾" deep).

WSE Wall Sleeve

Ships with standard grille and standard galvanized steel inner panel and painted steel outer panel.

A	WSE	SLEEVE
B	61603200	INDOOR WEATHER PANEL (METAL)
C	61603304	OUTDOOR WEATHER PANEL (PAINTED METAL)
D	61603012	ASSY GRILLE WSE SLEEVE
E	61578101	GASKET (ATTACHED TO SLEEVE)

Outer weather panel

Architectural Grille- AG

Premium extruded aluminum grille. Optional accessory.

R . INFORMATION FOR THE OWNER

Present the owner or operator of the equipment with the Installation & Operation Manual, all accessory installation instructions, and the name, address, and telephone number of the Authorized Friedrich Warranty Service Company in the area for future reference if necessary. Inspect the unit for any damage to the coils and tubing that could cause a leak.

R.1 Room air conditioner unit performance test data sheet

Job name _____		
Tech's name _____		
Date _____		
Model# _____ serial # _____		
Check the installation	acceptable	not acceptable
	Yes	no
Is a chasis gasket installed?	_____	_____
Is the fresh / exhaust air vent open?	_____	_____
Is a friedrich sleeve installed?	_____	_____
Is a friedrich outdoor grille installed?	_____	_____
Is maintenance being performed?	_____	_____
Electrical		
Line voltage (static)	_____	volts
Start up voltage	_____	volts
Amperage draw (cool)	_____	amps
Amperage draw (heat)	_____	amps
Compressor		
Locked rotor amps	_____	amps
Running amperage draw	_____	amps
Indoor conditions		
Indoor ambient temperature	_____	f
Relative humidity (rh) indoor	_____	%
Discharge air temperature (indoor)(cool)	_____	f
Discharge air temperature (indoor)(heat)	_____	f
Return air temperature (indoor)(cool)	_____	f
Return air temperature (indoor) (heat)	_____	f
Outdoor temperature		
Outdoor ambient temperature	_____	f
Rh outdoor relative humidity	_____	%
Discharge air temperature (outdoor)(cool)	_____	f
Discharge air temperature (outdoor)(heat)	_____	f
Intake air temperature (outdoor)(cool)	_____	f
Intake air temperature (outdoor)(heat)	_____	f
Cooling or heating area		
Area w _____ * l _____ = feet squared		
For a general guide refer to sizing guide to the right		
For exact load calculations consult manual j or m.		

Air Conditioned Area	Cooling BTUs Required	Air Conditioned Area	Cooling BTUs Required
100 - 150	5000	550 - 700	14000
150 - 250	6000	700 - 1000	18000
250 - 300	7000	1000 - 1200	21000
300 - 350	8000	1200 - 1400	23000
350 - 400	9000	1400 - 1500	24000
400 - 450	10000	1500 - 2000	30000
450 - 550	12000	2000 - 2500	34000

R.2 Routine Maintenance

Decorative Front

Use a damp (not wet) cloth when cleaning the control area to prevent water from entering the unit, and possibly damaging the electronic control.

The decorative front and the cabinet can be cleaned with warm water and a mild liquid detergent. Do NOT use solvents or hydrocarbon based cleaners such as acetone, naphtha, gasoline, benzene, etc. The indoor coil can be vacuumed with a dusting attachment if it appears to be dirty. DO NOT BEND FINS. The outdoor coil can be gently sprayed with a garden hose.

Air Filter

The air filter should be inspected weekly and cleaned if needed by vacuuming with a dust attachment or by cleaning in the sink using warm water and a mild dishwashing detergent. Dry the filter thoroughly before reinstalling. Use caution, the coil surface can be sharp. Refer to Section C.8 for instructions on how to replace filter.

WARNING: Service of this product (aside from filter maintenance) shall only be performed by trained service personnel. Refer to the Service Manual for procedures on how to inspect and maintain the interior of the unit and its components. A QR code is located in section A.5 which will help you locate the service manual online.



Coils & Chassis

The indoor coil and outdoor coils and base pan should be inspected periodically (annually or semi-annually) and cleaned of all debris (lint, dirt, leaves, paper, etc.) as necessary. Under extreme conditions, more frequent cleaning may be required.

Wall Sleeve

Inspect the inside of the wall sleeve and drain system periodically (annually or semi-annually) and clean as required. Under extreme conditions, more frequent cleaning may be necessary.

Blower Wheel / Housing / Condensor Fan / Shroud

Inspect the indoor blower and its housing, evaporator blade, condenser fan blade and condenser shroud periodically (yearly or bi-yearly) and clean of all debris (lint, dirt, mold, fungus, etc.).

R. INFORMATION FOR THE OWNER

R.3 Warranty



FRIEDRICH

**Friedrich Air Conditioning Company
10001 Reunion Place, Suite 500
San Antonio, TX 78216**

**1-800-541-6645
www.friedrich.com**

WALLMASTER® THRU-THE-WALL 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 re-installation 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.

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.