Standard Chassis Models

Kühl
115-Volt: KCS08, KCS10, KCS12, KCS14
230-Volt: KCS12, KCS16, KCM18, KCM21, KCM24
KCL22, KCL24, KCL28, KCL36

Kühl +
115-Volt: KHS10
230-Volt: KES12, KES16, KH12, KEM18
KHM18, KHM24, KEL36, KHL24

Kühl +
Electric Heat

Kühl +
Heat Pump
Thank you for your decision to purchase the Friedrich High Efficiency Air Conditioner. Your new Friedrich has been carefully engineered and manufactured to give you many years of dependable, efficient operation, maintaining a comfortable temperature and humidity level. Many extra features have been built into your unit to assure quiet operation, the greatest circulation of cool, dry air, and the most economical operation.

THANK YOU, on behalf of our entire company, for making such a wise purchase.

Register your air conditioner

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

MODEL NUMBER

SERIAL NUMBER

PURCHASE DATE

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Unpacking Instructions

STEP 1. Cut all packing straps.
STEP 2. Remove wooden shipping bar dividers.
STEP 3. Remove top foam pads.
STEP 4. Remove decorative front, carefully not to loosen decorative front.
STEP 5. Slide the front forward.
STEP 6. Remove decorative front and not safely safely.
STEP 7. Remove decorative front, carefully not to loosen decorative front.

Unpacking Instructions
WARNING: Before Operating Your Unit

WARNING
Electrical Shock Hazard
Make sure your electrical receptacle has the same configuration as your air conditioner’s plug. Do not use plug adapters. Do not use an extension cord. 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 fuse 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 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.

Test 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). The power cord is ready for use.

WARNING: Do not use the LCDI device as an ON/OFF switch. Failure to adhere to this precaution may cause premature equipment malfunction.

Table 1

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CIRCUIT RATING OR TIME DELAY FUSE</th>
<th>REQUIRED WALL RECEPTACLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>KCS08, KCS10</td>
<td>15 125 5-15R</td>
<td></td>
</tr>
<tr>
<td>KCS12, KCS14</td>
<td>15 250 6-15R</td>
<td></td>
</tr>
<tr>
<td>KCS16</td>
<td>20 250 6-20R</td>
<td></td>
</tr>
<tr>
<td>KEM12, KEM16</td>
<td>30 250 6-30R</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: Do not reset the LCDI device.

Standard Filter Cleaning / Installation Instructions

STEP 1. Swing the door open and remove the filter by grasping the filter grip and pushing the filter holder upward and outward.

NOTE: Make sure the front frame with the mesh filter is facing you.

STEP 2. Slide the filter grip out from the filter as shown in Figure 4.

STEP 3. Swing the front frame open. Clean the front frame by washing the dirt from the filter. Use a mild soap solution if necessary. Allow filter to dry.

STEP 4. Install the filter grip back into the filter by sliding it into the filter.

NOTE: The filter handle slides into the frame in only one direction. If the tab in the frame stops the handle from sliding in, slide the handle from the other direction. DO NOT FORCE THE HANDLE INTO THE FRAME.

STEP 5. Install the filter back into the unit. Follow the instructions on the inside of the front door.
**Premium Carbon Filter Installation Instructions**

**STEP 1.** Remove the filter from the unit as per the instructions on the inside of the filter door.

**STEP 2.** Hold the filter at the top and slide the grip out as shown in Figure 4.

**STEP 3.** If you already have a carbon filter installed remove the dirty filter by laying the filter down and swinging open the front frame as shown in Figure 6.

**NOTE:** Make sure the frame with the mesh is facing toward you.

**STEP 4.** Place the new carbon filter on the top of the back filter frame. The carbon filter has been cut to the correct dimension and should fit in the frame as shown in Figure 7.

**NOTE:** The carbon filter is not washable and needs to be replaced every three months for optimum efficiency.

**STEP 5.** Slide the filter handle back on to hold the frames together and slide the assembly into the unit as per the instructions on the door.

**NOTE:** The filter handle slides into the frame in only one direction. If the tab in the frame stops the handle from sliding in, slide the handle from the other direction. DO NOT FORCE THE HANDLE INTO THE FRAME.

---

**Control Panel Operation**

All of the control panel function buttons and mode icons can be viewed in Figure 8.

**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 30 seconds of inactivity. The remote control can also be used to turn power ON / OFF (see Remote Control).

**Display** – The display is a single-line LCD with a back light. After 30 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**
  - Increase UP
  - Decrease DOWN

- **MODE**
  - Cycles between COOL, HEAT, FAN ONLY (if equipped)

- **ON / OFF**
  - Turns unit on/off

- **FILTER**
  - Check clean

---

**Figure 8**

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>FAN MODE</th>
<th>FAN SPEED</th>
<th>TEMPERATURE</th>
<th>TIMER</th>
<th>IR WINDOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO</td>
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<td>LOW</td>
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<td>OFF</td>
</tr>
<tr>
<td>FAN</td>
<td>AUTO</td>
<td>MAX</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
</tbody>
</table>

**Figure 9**

- **MODE**
  - AUTO: Automatically switches between cool and heat

- **FAN SPEED**
  - Low, MED, HIGH, or MAX (if equipped)

- **TEMPERATURE**
  - Set Point (Temperature)
  - Clock (AM/PM)

- **FILTER**
  - Check / clean

- **2 DIT DISPLA**
  - Shows setting for
    - Low, MED, HIGH, or MAX (if equipped)

- **FILTER LOCK**
  - Shows filter is locked

- **WI-FI OPERATING STATE**
  - Shows Wi-Fi operating state
Control Panel Operation

**Accessing Sub-Menus**
The leftmost MENU button accesses the sub-menu. See Figure 10.

The arrow buttons navigate the 6 menu options (See Figure 11):
- LIM
- LOCK
- TM
- CnCT
- F-C
- diAG

The rightmost button exits the menu. See Figure 12.

**Navigating Inside the Sub-Menus**
The leftmost MENU button moves you forward through the sub-menu. See Figure 13.

The rightmost button moves you backward once inside the LIM and TM menus. See Figure 14.
Control Panel Operation

The LIM Menu
This is the limit menu. See Figure 15.
Upon entering the menu, the first option will be to set the lower setpoint limit using the arrow buttons. See Figure 16.
Then you can set the higher setpoint limit using the arrow buttons. See Figure 17.
Pressing the leftmost button completes the limit setting. See Figure 18.
Then you can set the higher setpoint limit using the arrow buttons. See Figure 16.

The TM Menu
This is the TM menu used to set a timer. See Figure 19.
In the menu, you set the current time using the arrow buttons. See Figure 20. (Note: These two “set clock” steps will be skipped if the unit is already connected to Wi-Fi.)
First, set the hour.
Using the leftmost button, you switch to the minutes and complete setting the time. See Figure 21.
You select your mode. Either cool, heat, or auto. Toggle these using the arrow buttons. See Figure 22. (Note: cooling-only models skip this step.)
The process is the same for all three modes. Auto mode will be shown as the example.
Control Panel Operation

The TM Menu continued

Auto mode selected. See Figure 23.

Set the cool setpoint for the first timer period using the arrow buttons. See Figure 24.

Set the heat setpoint for the first timer period. See Figure 25.

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

Set the cool setpoint for the second scheduled timer. See Figure 27.

Set the heat setpoint for the second timer. See Figure 28.

Set the time to start the second timer period. See Figure 29.

Press the leftmost button to complete the time timer setup.

1. Set the cool setpoint for the first timer period.
2. Set the heat setpoint for the first timer period.
3. Set the time to start the second timer period.
4. Press the leftmost button to complete the time timer setup.
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 30.

Using the arrow buttons on the right side switches it from Fahrenheit to Celsius. See Figures 31 and 32.

Figure 30

---

The Lock Menu

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

This is the Lock Menu. See Figure 33.

The default is the off setting. Use the arrows to toggle between off and on. See Figure 34.

This is Lock on. See Figure 35.

Set the first digit of the password using the arrow buttons. Use the leftmost button to proceed to the next digit. See Figure 36.

---
Control Panel Operation

The Lock Menu continued

Set the second digit of the password using the same method. See Figure 37.

Set the third digit of the password using the same method. See Figure 38.

Set the fourth digit of the password using the same method. See Figures 39.

Press the leftmost button to complete the password process. See Figure 40.

Enter the password in the same manner it was created. See Figure 41.

Entering the correct password will give the user access to all of the sub-menus. See Figure 42.

Accessing the lock menu will allow you to toggle lock OFF if needed. See Figure 43.

The ON on the right side of the display shows the lock function is active. To go back into the menu, select the leftmost button again. See Figure 41.

Enter the password in the same manner it was created. See Figure 42.

Entering the correct password will give the user access to all of the sub-menus. See Figure 43.

Accessing the lock menu will allow you to toggle lock OFF if needed. See Figure 44.
Control Panel Operation

The CnCT Menu
This menu is used to turn on Wi-Fi connection.
This is the CnCT menu. Pressing the leftmost button will activate Wi-Fi.
See Figure 45.
The Wi-Fi symbol in the top right corner of the display shows Wi-Fi connection is on. See Figure 46.

Control Panel Operation

The diAG Menu
This menu is used to access the diagnostic codes. See Figure 47.
Selecting this sub-menu shows the E that represents “Error.”
See Figure 48.
Toggle through the error codes using the arrow keys. See Figure 49.
New Kühl Control Options

The new Kühl gives you a variety of options for control, programming, and scheduling, including wireless capabilities.

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 is digitally controlled and 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.

Wi-Fi Set-Up Instructions

Accessing Sub-Menus:
Below are the set-up instructions for Wi-Fi to use your unit wirelessly.

Follow the instructions below:

STEP 1. Using a mobile device such as a smartphone or laptop, navigate to www.FriedrichConnect.com.

STEP 2. Sign-in using your username and password.

STEP 3. Click the "Add Device" button.

STEP 4. Select the time zone the device is located in and click the "Next" button.

STEP 5. To start the setup process, click the menu button on the home screen of your Kühl model.

STEP 6. Using the up and down arrows, navigate to the CnCT screen (Figure 50).

STEP 7. Click the menu button, this will begin the setup process for your Friedrich Connect enabled device.

STEP 8. Click the "Next" button on your mobile device.

STEP 9. Follow the on-screen steps to finish adding the device to your account.

Figure 50

Figure 51
Control Panel Operation Instructions

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

- AUTO: Available on select models
- COOL: Available on select models
- 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 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 Control Operation

Remote Control - Refer to Figure 52 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 ft of the air conditioner for operation (refer to Figure 52 for effectiveness). 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.

SYSTEM Button - Allows the user to sequentially select the following:

- AUTO
- COOL
- HEAT
- FAN ONLY

When in AUTO or AUTO FAN (No Cooling Demand) 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 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.

OTHER FUNCTIONS

Wi-Fi: 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.
- Wi-Fi: Select

Modify the TIMER Function

Navigate to the TIME menu to set the timer.

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.

Figure 52
IMPORTANT:
Before you begin the actual installation of your air conditioner, check your local electrical codes and the information below.

**Alternating Current (A.C.) Voltage and Amperage**
- Make sure the electrical requirements match the specifications for your air conditioner.
- Consult the name plate located on the chassis for voltage and amperage information.
- Only A.C. can be used. Direct Current (D.C.) cannot be used.

**Circuit Protection**
- Use on a single outlet circuit only. Overloading the circuit will cause malfunction or failure of the air conditioner.
- Ensure electrical protection is adequate due to momentary high current demand when starting the air conditioner.
- Consult a local electrician if unsure.
- Refer to the electrical name plate located on the air conditioner chassis for correct fuse or circuit breaker amperage.
- The power cord has a plug with a grounding prong. Use a matching receptacle.

**Recommended Tools**
- Power Drill
- 5/32" Drill Bit
- Gloves
- Carpenters Level
- 5/16" Wrench
- 1/4" Wrench
- #2 Phillips Screw Driver
- Putty Knife or wood stir stick

**Electrical Requirements**
- Electrical Shock Hazard
  - Make sure your electrical receptacle has the plug. If different, consult a Licensed Electrician.
  - Do not use plug adapters.
  - Do not remove ground prong.
  - Always plug into a grounded 3 prong outlet.
  - Failure to follow these instructions can result in electrical injury.

**Installation Instructions**
- Read this first!
- Electrical Requirements
- Moving Parts Hazard
- Excessive Weight Hazard
- Use two or more people when installing your air conditioner. Failure to do so can result in injury.

**Airflow Selection and Adjustment**
- Fresh Air and Exhaust Control
  - Your air conditioner has a humidity controlling feature to remove excess moisture from the room.
  - The control slide is found on the upper part of the unit (see Figure 53).

**Airflow Path**
- The airflow path may be adjusted to distribute or exhaust air from the left or right side of the discharge opening.
- Each of the banks of louvers can be directed left, right, up, or down to achieve the most optimum airflow.
- Move the lever to the direction that you would like the air to be directed.

**Fresh Air Position**
- Allows outside air to enter the room. Useful in fall and spring.
- Can also be used in the summer with the compressor in the Cooling Mode if you wish.

**Exhaust Position**
- Removes stale air out of the room. Especially useful in the spring or fall when indoor air tends to get stale.
- Can be used after a social gathering involving smokers or to remove cooking odors.

**Re-Circulate Position**
- The air is circulated within the room.
- Best performance when not using the air conditioner.

**Circuit Protection**
- Use on a single outlet circuit only. Overloading the circuit will cause malfunction or failure of the air conditioner.
- Refer to the electrical name plate located on the air conditioner chassis for correct fuse or circuit breaker amperage.
- The power cord has a plug with a grounding prong and a matching receptacle.
Installation Hardware and Accessory Details

<table>
<thead>
<tr>
<th>ITEM 1</th>
<th>ITEM 2</th>
<th>ITEM 3</th>
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<tr>
<td>ITEM 5</td>
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</tr>
<tr>
<td>ITEM 13</td>
<td>ITEM 14</td>
<td>ITEM 15</td>
<td>ITEM 16</td>
</tr>
</tbody>
</table>

Installation Hardware

- Handle Use
  - Use handles on both sides to pull unit from sleeve.
- Use handle on both sides to pull unit from sleeve.

NOTE:
- Hardware and accessories used during installation are shown on pages 23 and 24. Each part will be referred to as “Item No.”
- Parts are not all to scale. For all KES and KH models, use the KWIKM. For all KEL and KHL models, use the KWIKL. For all KEM and KHM models, use the KWIK.

CAUTION:
- Handle use. Do not push, pull, or lift from center of support.
- Do not remove any other foam parts.
Standard Window Installation continued

CAUTION

Remove Shipping Blocks
Prior to operating the unit remove the foam shipping blocks.
Failure to do so may result in damage to the unit which is not covered by the manufacturer's warranty!

STEP 5. Check the window sill and frame to be sure they are in good condition and functioning.

STEP 6. CABINET MOUNTING
– Raise the lower window 1/4 of the height of the cabinet. Carefully slide the cabinet through the opening until the lower sill plate channel rests behind the window sill and the top angle rests against the window (see Figure 58). Center the cabinet within the opening. Drill three (3) 3/16" diameter pilot holes into window sill using the holes in the cabinet sill plates as a guide. Install three (3) #12 x 2" long screws (Item 4) (see Figure 58).

STEP 7. OUTSIDE SUPPORT MOUNTING – Refer to Figures 57 and 58. Assemble the support brackets (Item 1) to the bottom of the cabinet with four (4) 10-24 x 1" long screws (Item 2) and four 10-24 flat nuts (Item 3). Adjust the support brackets, using a combination of the elongated holes of the bracket and different hole locations in the cabinet, to bring the bottom support bracket pads in contact with the wall. A 1" x 4" x 4" x 4" GRINDER HOOD 1/2" THICK SODIUM CHLORIDE IS RECOMMENDED BETWEEN THE WALL AND SUPPORT THE BRACKETS WHEN INSTALLED ON ALUMINUM OR VINYL SIDING. Drill 1/4" diameter pilot holes and secure the brackets to the wall with two (2) 1/2" x 2" long screws (Item 4).

NOTE: DO NOT LEVEL the cabinet from front-to-back. Make sure there is approximately a 1/16" to 1/4" slope (1/4" to 1/8" bubble on level) toward the outside of the house.

Adjust the support brackets to provide an inside-to-outside slope for extra condensation drainage (refer to Standard Window Installation, Figures 59 through 61). Tighten all screws.

Alternate support method A: If you have a deep window sill which prevents you from mounting the brackets as shown in Figure 61, try the following. Using the elongated holes and different hole locations in the cabinet, set the placement of the bracket to support the unit's weight (Figure 62). Tighten all screws.

Alternate support method B: If the window ledge gap is narrow, try the following. Bend the bracket end tab flat. Cut the bracket in two (2) places as shown in Figure 63. Bend the short piece so it will be vertical when installed. Adjust the placement as required. Tighten all screws.

STEP 8. Measure and cut the wingboard panels (fit with about 1/8" clearance) from the supplied Masonite (Item 8) to fill the spa between the window side channels and cabinet (Figure 59). Make sure you include the depth of the window channel.

NOTE: FOR YOUR security and safety, YOU must provide a means of preventing the upper part of the window from opening.

STEP 9. To assemble the wingboard panels, push on the 3/4" type speed nuts (Item 9) and spring steel clips (Item 10) (see Figure 65 on Page 35). Refer to Figures 66 on Page 36.
FOR LEDGES

Standard Window Installation continued

#10-24 SCREW

3/8

3/8

CONDENSER

AIR INLETS

#10-24 FLAT WELD NUT

SPACER

ADJUST IN OR OUT TO REST ON THE LEDGE

STONE LEDGE

#10-24 FLAT WELD NUT

SECURE THE LONGEST SIDE OF THE BRACKET TO THE SHELL ALONG THE BOTTOM RAIL OF THE SHELL

#10-24 SCREW

SUPPORT BRACKET

NUT (ITEM 3)

SPACER SHOULD BE USED BETWEEN WALL AND BRACKET WHEN INSTALLED

3/8

3/8

CONDENSER

AIR OUTLET

CONDENSER

AIR INLETS

#10-24 SCREW
**ALTERNATE METHOD B**

**STEP 10. INSTALL THE R1 INSULATION PANEL** – To minimize air leaks and ensure optimal insulation, install the included R1 insulation panel (14 in parts list) (see Figure 67A-C).

First, measure the width from one side of the cabinet/sleeve (covering the side angles where the wingboard was just secured) to the end of the wingboard (see Figure 67A).

Next, cut the R1 insulation panel to the measured width and remove protective cover, exposing adhesive on back panel (see Figure 67B).

Last, evenly apply the adhesive side of the panel across the entire height and width from side angle to wingboard panel (see Figure 67C).

Repeat the steps above for the other wingboard panel.

**STEP 11. INSTALL THE WINDOW SEALING GASKETS** – Measure and cut the dark foam window seal gasket (Item 12) and install it between the upper glass panel and the top part of the window sash (see Figure 67A).

**STEP 12.** Carefully team lift the chassis and set it into the cabinet. Slide the chassis seal gasket (Item 13) one inch deep between the chassis and the cabinet (see Figure 68) as shown on Page 37. A paint stick or other tool might be helpful here. Begin inserting the gasket at either bottom corner and go up the sides, across the top, and down the opposite side. Then push the chassis all the way into the cabinet.

**NOTE:** If the chassis seal gasket is not installed or installed improperly, the operation of the unit will be negatively affected. Operational noise and vibration will also amplify.

**STEP 13.** Reattach the EntryGard™ chassis and EntryGard™ retain wire with the same screw retained in Step 1 (see Figure 54).

---

**WARNING**

**Falling Object Hazard**

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

**CAUTION**

**Cut/Sever**

Although great care has been taken to minimize sharp edges and points 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.
Standard Window Installation continued

Figure 68

TOP OF CABINET
PLACE WINDOW BOARD PANELS IN WINDOW JAM TO COMPRESS THE SPRINGS INSIDE THE RUNNERS AND SWING THE WINDOW BOARD PANELS INTO PLACE AS INDICATED BY THE DASHED LINES.

SECTION A-A
SECURE THE SIDE WINDOW BOARD PANELS TO THE SIDE ANGLES WITH FOUR (4) #8 x 1/2" LONG SCREWS (ITEM 11), TWO ON EACH SIDE.

Figure 69

INSERT FOAM WINDOW SEAL GASKET (ITEM 12)

SECTION B-B

Use Tool Provided
Please use the provided tool to attach the decorative front to the chassis.

STEP 14. To attach and prevent damage to the front grille, align the cord notch over the cord and center the fresh air lever, then align and tighten the four (4) captive screws as indicated by the arrows in Figure 69. Before closing the front panel, be sure the filter is in place. Make sure curtains do not block the side air intakes.

STEP 15. Refer to the Control Panel Operation section for instructions.

You are now to control the comfort level of the room.

Standard Window Installation continued

Figure 69

location of grille removal tool

Figure 70

NOTE: WHEN INSTALLING THE CHASSIS SEAL GASKET, BEGIN AT EITHER BOTTOM CORNER AND GO UP THE SIDE & ACROSS THE TOP & DOWN THE OPPOSITE SIDE.

Figure 71

POWER CORD CLIP

CHASSIS SEAL GASKET (ITEM 13)


Cord Routing Change continued

**STEP 19.** Carefully push electrical control panel back into chassis.

**STEP 20.** Reinstall the 3 screws removed earlier to secure electrical control panel.

**STEP 21.** If running power cord to the right of the unit, install the cord into the cord retainer clips along the bottom front of the unit.

### Cord Routing Change

**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.

For convenience and optimum appearance, the direction that the power cord is run should be consistent with the control panel orientation. In this instance, the control panel is oriented on the right side of the unit, so the cord should also be run to the right of the unit.

**STEP 16.** Carefully pull electrical control panel out 1", for all air units.

**STEP 17.** Pull electrical cord strain relief downward until free and rotate 90 degrees to the right.

**STEP 18.** Push electrical cord strain relief back upward into the electrical control panel.

**NOTE:**

Decorative front removal use tool provided. 

(See figure 39 for location of tool)

Unplug unit.

ENSURE THE ELECTRICAL CORD STRAIN RELIEF IS FLUSH WITH THE TOP OF ELECTRICAL CONTROL PANEL.
Thru-the-Wall Installation

**WARNING**

**Falling Object Hazard**

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

The following instructions apply to wood, masonry, brick, concrete or cinder block wall construction.

**STEP 1.** Roll Steps 1, 2, 3, and 4 of the “STANDARD WINDOW INSTALLATION” instructions beginning on Page 29.

**STEP 2.** CABLE PREPARATION – Remove the sill plate from the cabinet by removing two (2) nuts and screws (Figure 78). Note that the chassis retainer is secured by a right side nut and screw (Detail A, Figure 78). Bend the tabs of the sill plate down into its channel at both ends of the plate or cut them off (Detail B, Figure 78). Rotate the sill plate 180° (end-to-end, Detail B, Figure 78) and reinstall. Reverse the orientation of the nuts and screws so that the head of the screws are on the underside of cabinet facing up and the nuts are on top (Detail C, Figure 78). Ensure that the chassis retainer is reinstalled as shown in the detail.

**STEP 3.** WALL PREPARATION – The maximum wall thickness permissible without special construction is determined by the model size to be installed. Observe the maximum wall thickness shown in Figure 79. Walls exceeding the maximum thickness shown in the chart should be altered as shown in Figure 79.

**STEP 4.** CHECKING WIRING AND PLUMBING – Check for wiring and plumbing inside and outside of the wall to be sure none will be damaged when the cabinet framework is being constructed.

**STEP 5.** OPENING CONSTRUCTION – Depending upon size of unit to be installed, lay out the hole dimensions per Table 3. Cut and frame in the opening to finished dimensions. If the wall construction is a typical frame, it 2” x 4” stud with brick or stone veneers, locate the opening next to one of the studs. For masonry, cement, or under block walls, locate and opening for your convenience (see Figures 80, 81, and 82).

**NOTICE**

The outside cabinet condenser air intake louvers MUST NOT BE BLOCKED by extra brick walls.

**Table 3**

<table>
<thead>
<tr>
<th>FINISHED DIMENSION</th>
<th>SMALL CHASSIS</th>
<th>MEDIUM CHASSIS</th>
<th>LARGE CHASSIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>16 3/4”</td>
<td>18 3/4”</td>
<td>20 3/4”</td>
</tr>
<tr>
<td>B</td>
<td>26 1/2”</td>
<td>26 1/2”</td>
<td>28 1/2”</td>
</tr>
</tbody>
</table>

**NOTE:** These dimensions are for finished opening size.

---

Thru-the-Wall Installation continued

**Figure 79**

**BEFORE**

- CABINET
- TURN SILL PLATE END TO END
- BEND TABS DOWN
- DETAIL A
- DETAIL B
- DETAIL C

**AFTER**

- CABINET
- NOTE: HOLES IN SILL PLATE MOVED TO BACK SIDE
- NOTE: SCREW AND NUT ORIENTATION NOW REVERSED
- SCREW (4 REQUIRED)
- NUT (4 REQUIRED)

**NOTE:** HOLES IN SILL PLATE MOVED TO BACK SIDE

**Figure 79**

**TOP VIEW**

- MAXIMUM WALL THICKNESS
- CONDITIONED AIR INAKE LOUVERS
- CONDITIONED ROOM SIDE AIR
- CONDITIONED AIR OUTLET/REJECTED HEATED AIR

**NOTE:** CONDITION AIR INLETS AND OUTLETS MUST BE UNOBSTRUCTED TO AVOID THE RECIRCULATION OF REJECTED HEATED AIR.

**Table**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMALL CHASSIS</td>
<td>7 1/4”</td>
</tr>
<tr>
<td>MEDIUM CHASSIS</td>
<td>7 1/4”</td>
</tr>
<tr>
<td>LARGE CHASSIS</td>
<td>15 1/4”</td>
</tr>
</tbody>
</table>

---

**WARNING**

**Falling Object Hazard**

Not following installation instructions for mounting your air conditioner can result in property damage, injury, or death.
**Thru-the-Wall Installation continued**

**STEP 6.** Slide the cabinet into the hole far enough to allow the guide-channel of the sill plate to contact the inside wall surface (Figure 83).

**STEP 7.** Drill three (3) \( \frac{5}{32} \) inch diameter pilot holes (use the sill plate guides as a guide) into the frame and install three (3) \( \frac{1}{2} \) x 2” long screws (Item 6) (Figure 83).

**NOTE:** Alternate fasteners are required when securing the sill plate or support brackets to material other than wood (cinder block, brick, masonry, or concrete). These items can be purchased at your local hardware store.

**NOTE:** DO NOT LEVEL the cabinet from front to back. Make sure there is approximately \( \frac{1}{4} \) to \( \frac{1}{2} \) slope (\( \frac{1}{4} \) to \( \frac{1}{4} \) bubble on the level) toward the outside of the house.

**STEP 8.** Drill two (2) \( \frac{5}{32} \) inch diameter pilot holes in each cabinet side at the locations shown (Figure 83) and install four (4) \( \frac{1}{2} \) x 2” screws (Item 6). Provided that Step 5 (hole construction) provides a sturdy mount with solid vertical studs, support brackets may not be required. The installation must support the weight of the unit plus an additional weight of 400 pounds on the rear of the cabinet. If support brackets (Item 1) are available, they can be installed as shown in Figure 83.

**STEP 9.** Complete the installation by following Steps 12 through 15 of “STANDARD WINDOW INSTALLATION” instructions, starting on Page 35.

**Thru-the-Wall Installation continued**

**Figure 83**

**EXPANSION ANCHOR BOLT**

**MOLLY OR TOGGLE BOLT**
Final Inspection & Start-up Checklist

- Inspect and ensure that all components and accessories have been installed properly and that they have not been damaged during the installation process.
- Check the condensate water drainage to ensure that it is free from obstructions and that the air is not being sucked out of the unit.
- Ensure that all installation instructions concerning clearances are understood and followed by the installer.
- Secure all components and accessories, such as decorative front cover.
- Check the unit and ensure that it is properly operational.
- If you are not satisfied with the operation of the unit, contact your dealer for further assistance.

Heat pumps operate differently if the outdoor temperature drops below 37 °F (3 °C), your heat pump will automatically turn on the electric resistance heat. If the temperature is above 60 °F (15.6 °C) and below 115 °F (46.1 °C), so it won’t cool a room if it is already cool outside. If you want to cool a room in the spring or fall, select the FAN ONLY mode to prevent the frosting from recurring.

Routin Maintenance Service and Assistance

Before calling for service, please check the “Troubleshooting Tips” section on the website at www.friedrich.com. To Remove, Wash and Replace Filter:

- If the outdoor temperature drops below 37 °F (3 °C), your heat pump will automatically turn on the electric resistance heat.
- The inside coil and outside coil are free from any obstructions.
- Condensation is normal and the frost will disappear. Setting the thermostat a little warmer will probably prevent the frosting from recurring.
- 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 drain seal gasket item 13) is properly installed refer to the Installation Instructions.

Service and Assistance

Before calling for service, please check the “Troubleshooting Tips” section on Pages 46 and 47. This may help you to find the answer to your problem, avoid unnecessary service calls, and save you the cost of a service call if the problem is not due to the product itself. If you have checked the ‘Basic Troubleshooting’ section and still need help, it is available as follows:

- To Remove, Wash and Replace Filter:
- Heat pumps operate differently if the outdoor temperature drops below 37 °F (3 °C), your heat pump will automatically turn on the electric resistance heat.
- The inside coil and outside coil are free from any obstructions.
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Available Accessories

DC-2 Drain Kit – Part No. 01900235
- In some installations, excess condensate water caused by extremely humid conditions, may result in undesirable water drips such as on a patio or over an entryway. MODEL DC-2 DRAIN KIT (Part No. 01900-235) can be installed to drain excess condensation to an alternative location.

Carbon Filter Kits
- The kits vary depending on the chassis size (small, medium, large). Each kit contains three (3) filters.
- KWOF+ – Carbon filter kit for small chassis models.
- KWOFM – Carbon filter kit for medium chassis models.
- KWOLF – Carbon filter kit for large chassis models.

FriedrichLink™ Adapter Accessory
- KWIR – FriedrichLink™ Adapter Accessory for wireless control and additional programming options.

Decorative Color Front Panels Kit
- The kits vary depending on the chassis size (small, medium, large).
- KWIR/ES/MI-LA – S/ M, Decorative Front Cover in Classic Beige
- KWIR/KB/IS-LA – S/ M, Decorative Front Cover in Black Onyx
- KWIR/LB/IS-LA – S/ M, Decorative Front Cover in Cobalt Blue
- KWIR/WS/MLA – S/ M, Decorative Front Cover in Pink Diamond
- KWIR/DS/MLA – S/ M, Decorative Front Cover in Deep Red
- KWIR/WS/IPL – S/ M, Decorative Front Cover in Designer White

Window Installation Kit A (Standard in Kühl Models without Heat)
KWKIS – For all KB and HRS models.
KWKIL – For all KBL and HLM models.

Our specialists are able to assist you with:
- Specifications and Features of our equipment.
- Referrals to dealers and distributors.
- Use and Care Information.
- Recommended maintenance procedures.
- Installation information.
- Referrals to Authorized Service Providers and Parts depots.

Figure 84

To Remove, Wash and Replace Filter:

Lower front panel (Figure 2): First, turn off your unit's power supply at the circuit breaker or fuse box. Next, remove the four (4) screws securing the front panel to the unit with a Phillips-head screwdriver. The front panel will then slide out easily. Use a soft, dry cloth to clean the front panel, or wash it in warm, soapy water. Be sure to wipe down the entire front panel with a damp cloth, then dry it thoroughly before reinstallation. To clean the filter, remove the filter retaining door. Use a gentle vacuum to remove any debris or dust. Replace the filter and reassemble the front panel.

Figure 85

Fan Motor & Compressor
- The fan motor & compressor are permanently lubricated and require no additional lubrication.

Wall Sleeve
- Inspect the inside of the wall sleeve and drain system periodically (annually or semi-annually) for debris and clean as necessary. Under extreme conditions, more frequent cleaning may be necessary. Close both of these areas with an air tight seal and an upright gasket. Rinse both areas thoroughly with water and ensure that the drain outlets are operating correctly. Check the sealant around the sleeve and recessed areas as needed.

Use HAND TOOLS
- Disconnect power and follow all labeled warnings when front panel is removed.

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Final Inspection & Start-up Checklist

- Inspect and ensure that all components and accessories have been installed properly and that they have not been damaged during the installation process.
- Check the condensate water drainage to ensure that it is free from obstructions and that the air is not being sucked out of the unit.
- Ensure that all installation instructions concerning clearances are understood and followed by the installer.
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Troubleshooting Tips

<table>
<thead>
<tr>
<th>COMPLAINT</th>
<th>CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit does not operate.</td>
<td>• The unit is turned to the off position, or the thermostat is satisfied.</td>
<td>• Turn the unit to the on position and raise or lower temperature setting (as appropriate) to call for operation.</td>
</tr>
<tr>
<td></td>
<td>• The LCDI power cord is unplugged.</td>
<td>• Plug into a properly grounded 3 prong receptacle. Refer to Electrical Rating Tables on Page 6 and the proper 3 prong receptacle type for your unit.</td>
</tr>
<tr>
<td></td>
<td>• The LCDI power cord has tripped (Reset button has popped out).</td>
<td>• Press and release RESET (Listen for click. Reset button latches and remains in.) to resume operation.</td>
</tr>
<tr>
<td></td>
<td>• The circuit breaker has tripped or the supply circuit fuse has blown.</td>
<td>• Reset the circuit breaker, or replace the fuse as applicable. If this problem continues, contact a licensed electrician.</td>
</tr>
<tr>
<td></td>
<td>• There has been a local power failure.</td>
<td>• The unit will resume normal operation once power has been restored.</td>
</tr>
<tr>
<td></td>
<td>• The LCDI power cord has tripped (Reset button has popped out).</td>
<td>• Press and release RESET (Listen for click. Reset button latches and remains in.) to resume normal operation.</td>
</tr>
<tr>
<td></td>
<td>• Other appliances are being used on the same circuit.</td>
<td>• The unit may be sized to be a dedicated outlet circuit, not shared with other appliances.</td>
</tr>
<tr>
<td></td>
<td>• An extension cord is being used.</td>
<td>• Do NOT use an extension cord with this or any other air conditioner.</td>
</tr>
<tr>
<td></td>
<td>• The circuit breaker or time-delay fuse is not of the proper rating.</td>
<td>• Replace with a circuit breaker or time-delay fuse of the proper rating, see Electrical Rating Tables on Page 6 for the proper replacement type for your unit.</td>
</tr>
<tr>
<td></td>
<td>• The indoor coil or outdoor coil is dirty or obstructed.</td>
<td>• Clean the coils, (see Routine Maintenance), or remove obstruction.</td>
</tr>
<tr>
<td></td>
<td>• The temperature is not set at a cool enough/warm enough setting.</td>
<td>• Adjust the Temperature control to a cooler/warmer setting as necessary.</td>
</tr>
<tr>
<td></td>
<td>• The filter is dirty or obstructed.</td>
<td>• Clean the filter, (see Routine Maintenance), or remove obstruction.</td>
</tr>
<tr>
<td></td>
<td>• The indoor coil or outdoor coil is dirty or obstructed.</td>
<td>• Clean the coils, (see Routine Maintenance), or remove obstruction.</td>
</tr>
<tr>
<td></td>
<td>• There is excessive heat or moisture (cooking, showers, etc.) in the room.</td>
<td>• Be sure to use exhaust fans while cooking or bathing and, if possible, try not to use heat producing appliances during the hottest part of the day.</td>
</tr>
<tr>
<td></td>
<td>• The temperature of the room you are trying to cool is extremely hot.</td>
<td>• Allow additional time for the air conditioner to cool off a very hot room.</td>
</tr>
</tbody>
</table>

Troubleshooting Tips continued

<table>
<thead>
<tr>
<th>COMPLAINT</th>
<th>CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Does Not Cool/Heat Room Sufficiently, or Cycles On And Off Too Frequently.</td>
<td>• The outside temperature is below 60 °F (16 °C).</td>
<td>• 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.</td>
</tr>
<tr>
<td></td>
<td>• The digital control is set to fan cycling mode.</td>
<td>• Since the fan does not circulate the room air continuously at this setting, the room air does not mix as well as in fan or (cool) mode. This may result in the continuous fan setting being recommended to obtain optimum comfort levels.</td>
</tr>
<tr>
<td></td>
<td>• The air conditioner has insufficient cooling capacity to match the heat gain of the room.</td>
<td>• 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.</td>
</tr>
<tr>
<td></td>
<td>• The air conditioner has insufficient heating capacity to match the heat loss of the room.</td>
<td>• 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.</td>
</tr>
<tr>
<td></td>
<td>• There has been a local power failure.</td>
<td>• The unit will resume normal operation once power has been restored.</td>
</tr>
<tr>
<td></td>
<td>• Other appliances are being used on the same circuit.</td>
<td>• The unit requires a dedicated outlet circuit, not shared with other appliances.</td>
</tr>
<tr>
<td></td>
<td>• The circuit breaker or time-delay fuse is not of the proper rating.</td>
<td>• It may also be due to an improperly sized unit.</td>
</tr>
<tr>
<td></td>
<td>• The indoor coil or outdoor coil is dirty or obstructed.</td>
<td>• Be sure to use exhaust fans while cooking or bathing and, if possible, try not to use heat producing appliances during the hottest part of the day.</td>
</tr>
<tr>
<td></td>
<td>• The temperature is not set at a cool enough/warm enough setting.</td>
<td>• 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 apparent, if it replaced an older, less efficient, model. This actual energy usage, however, will be significantly less when compared to older models.</td>
</tr>
<tr>
<td></td>
<td>• The temperature of the room you are trying to cool is extremely hot.</td>
<td>• You may notice that the discharge air temperature of your new air conditioner may not seem as cool as you may be accustomed to from older units. This does not, however, indicate a reduction in the cooling capacity of the unit.</td>
</tr>
<tr>
<td></td>
<td>• The room air conditioner is turned to the off position, or the temperature setting (as appropriate) to call for operation.</td>
<td>• The 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.</td>
</tr>
</tbody>
</table>

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.
FRIEDRICH

Friedrich Air Conditioning Company
10001 Reunion Place, Suite 500
San Antonio, TX 78216
1-800-541-6645
www.friedrich.com

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, expansion 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 six 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 on charges associated with the repair of the Sealed Refrigeration System. All such costs 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. The warranty is not applicable to:
1. Air filters or fans
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, or severe weather conditions, or due to water damage caused by: Property owner
   a. Causing 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. ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND MERCHANTABILITY SHALL BE LIMITED TO THE DURATION OF THIS EXPRESS WARRANTY MANUFACTURER EXPRESSLY DISCLAIMS AND EXCLUDES ANY LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, DAMAGE FOR BREACH OF ANY EXPRESSLY 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 repair calls for explaining the operation of the product will be the sole responsibility of the owner.

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

Kühl® Standard Chassis
Performance Testing Installation and Test Method

The following instructions only apply to laboratory test procedures and do not apply to actual product installation and operation.

ANSI/ASHRAE Standard 16-1983 (RA 2009) Method of Testing for Rating Room Air Conditioners and Packaged Terminal Air Conditioners shall be adhered to when testing for obtaining cooling capacity and airflow quality for rating this room air conditioning unit.

Maximum cooling capacity must be achieved in accordance with the following instructions:

NOTE: Image(s) of the sampler are for display purposes and not to scale.

Indoor Sampling Device
Outdoor Sampling Device

Indoor Sampling Device
Outdoor Sampling Device

Indoor Sampling Device
Outdoor Sampling Device

Indoor Sampling Device
Outdoor Sampling Device

Indoor Sampling Device
Outdoor Sampling Device
Test Unit Installation
As per ANSI/ASHRAE Standard 16-1983 (RA 2008), section 4.22, this air conditioner shall be installed per the instructions specified in this Installation & Operation Manual.

Test Unit Settings
Louver position:
• Louvers shall be kept in the retracted position (not extended)
• Louvers shall be centered (not directed left or right) and pointed upward

Fan Speed:
• Fan shall be set to the highest speed setting
  • HIGH

System Operation:
• Unit shall be operating in "Cool" Mode