### What type of air conditioner do you need?

<table>
<thead>
<tr>
<th>WINDOW AIR CONDITIONERS</th>
<th>THRU-THE-WALL</th>
<th>PORTABLE</th>
<th>HAZARDOUS LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Kühl®</strong></td>
<td><strong>Chill®</strong></td>
<td><strong>WallMaster®</strong></td>
<td><strong>Uni-Fit®</strong></td>
</tr>
<tr>
<td>PERMANENT INSTALLATION</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>SEASONAL INSTALLATION</td>
<td>Y</td>
<td>Y</td>
<td>—</td>
</tr>
<tr>
<td>CAN BE INSTALLED THRU-THE-WALL</td>
<td>Y</td>
<td>Y—except CP05</td>
<td>Y</td>
</tr>
<tr>
<td>ENERGY STAR®</td>
<td>Y Y</td>
<td>Y Y</td>
<td>Y Y</td>
</tr>
<tr>
<td>POWER SUPPLY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>115V</td>
<td>Y Y</td>
<td>Y Y</td>
<td>Y Y</td>
</tr>
<tr>
<td>230V</td>
<td>Y Y</td>
<td>Y Y</td>
<td>Y Y</td>
</tr>
<tr>
<td>COOLING W/ HEAT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEAT PUMP</td>
<td>Y —</td>
<td>Y —</td>
<td>Y —</td>
</tr>
<tr>
<td>ELECTRIC HEAT</td>
<td>Y Y</td>
<td>Y Y</td>
<td>Y Y</td>
</tr>
<tr>
<td>EXTRA LARGE CAPACITY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;17,000 Btu</td>
<td>Y Y</td>
<td>— —</td>
<td>— —</td>
</tr>
<tr>
<td>&gt;25,000 Btu</td>
<td>Y —</td>
<td>— —</td>
<td>— —</td>
</tr>
<tr>
<td>SPECIAL FEATURES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ROLLS FROM ROOM TO ROOM</td>
<td>— —</td>
<td>— —</td>
<td>— —</td>
</tr>
<tr>
<td>SMARTGRID READY</td>
<td>Y*</td>
<td>— —</td>
<td>— —</td>
</tr>
<tr>
<td>ENHANCED FILTRATION</td>
<td>Y —</td>
<td>— —</td>
<td>— —</td>
</tr>
<tr>
<td>OPTIONAL FEATURES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wi-Fi CONTROL</td>
<td>Y*</td>
<td>— —</td>
<td>— —</td>
</tr>
<tr>
<td>CREATE CUSTOM SCHEDULES</td>
<td>Y*</td>
<td>— —</td>
<td>— —</td>
</tr>
<tr>
<td>BRIGU2 UNITS FOR CENTRALIZED CONTROL</td>
<td>Y*</td>
<td>— —</td>
<td>— —</td>
</tr>
<tr>
<td>DECORATOR COLORS</td>
<td>Y —</td>
<td>— —</td>
<td>— —</td>
</tr>
</tbody>
</table>

*Requires FriedrichLink® adapter accessory (sold separately).
## Window Air Conditioner Selector Guide

**Product Selection Tools**

These tools are only a guide. Due to variations in room design, local climate and occupancy, larger areas may require the use of multiple units to provide the optimal cooling solution. Please consult your local authorized Friedrich distributor or the Friedrich Technical Assistance team for sizing or application assistance.

**COOLING SIZING GUIDE**

The cooling guide to the right is based on normal room insulation, average number of sun-exposed windows, and two-person occupancy.

**HEATING SIZING INFORMATION**

In heating mode, an energy efficient heat pump will generate slightly less heating Btus than it would in cooling mode. However, in heating mode, heat pumps use approximately 1/3 the energy of resistance heat, making them an excellent high-efficiency alternative. Back-up resistance heat ensures heat operation below 40°F outdoor temperatures for year-round comfort.

### Common Window Types

Traditional wooden windows are typical in many residences built before 1965, but more modern windows are often constructed of aluminum or vinyl. Many newer energy-efficient windows like double-glazed windows actually sandwich low conductance gas between two panes of glass. While Friedrich air conditioners may be used with this type of window, care should be taken not to break the seal between the two panes of glass during installation. Depending on the style of window in the application, you may want to consider the cooling solutions in the adjacent chart. Professional installers may be able to tell you about any local codes that may apply to your installation.

**WHICH AIR CONDITIONER IS RIGHT FOR YOU?**

Many models may be installed through a wall so long as the unit’s side vents are not blocked or covered in any way. See page 17, In-wall Installation for more information. Depending on the style of window in the application, you may want to consider the cooling solutions in the adjacent chart. Professional installers may be able to tell you about any local codes that may apply to your installation.

**THRU-THE-WALL INSTALLATION**

Many models may be installed through a wall so long as the unit’s side vents are not blocked or covered in any way. See page 17, In-wall Installation for more information.
Kühl Construction.

For over 125 years, Friedrich products have been renowned for their commercial-grade, built-to-last design. Advanced engineering, high-end materials and components, and rigorous product testing are just a few examples of Friedrich’s commitment to quality. When designing Kühl, our engineers challenged convention to develop the very best window air conditioner on the market.

Kühl incorporates high-end materials like heavy-gauge galvanized steel, rifled copper tubing, and high-tech aluminum fins. Kühl also uses the most durable components to extend the life of your air conditioner, including fully enclosed fan motors that seal out dirt, and powerful, energy-efficient compressors, which make Kühl as tough an air conditioner as we’ve ever built.

Kühl Quiet.

Kühl has been engineered for quiet operation. Materials have been chosen because of their sound-absorption properties and every moving part has been braced and insulated. For example, extra thick rubber grommets absorb vibration and reduce noise inside, while steel inner walls and extra dense insulation block outdoor noise.

Rugged hardboard side panels help reduce noise and keep out light. The unique air path is more streamlined, drawing air through the sides, away from moving parts. And our larger discharge vents allow for smoother airflow, delivering maximum conditioned air quietly.

Kühl Comfort.

The most comfortable temperature is the one you never notice. Kühl uses multiple built-in environmental sensors to more accurately monitor indoor and outdoor temperatures so that it can maintain your ideal settings.

Kühl+ models have the ability to cool or heat as needed so units can operate year-round. And, like the most advanced central systems, Kühl+ automatically switches between air conditioning and heating functions to maintain the desired comfort level. You won’t have to lift a finger.

Plus, Kühl’s air flow systems are tested for powerful and precise air distribution which means faster cooling when you need it most.
Kühl’s streamlined modern design in Neutral Gray can blend in with any décor. Or coordinate a look that complements your space by using any of the six colored front covers.

### Built-in controls

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SIMPLE OPERATION</strong></td>
<td>Turn the unit on, select ‘MODE’ and make simple up/down temperature adjustments either at the control panel or with included remote.</td>
</tr>
<tr>
<td><strong>BUILT-IN 7-DAY SCHEDULES</strong></td>
<td>Kühl units include two 7-day energy management schedules which can be accessed and selected from the unit’s controls. The ‘Residential’ schedule causes Kühl to raise the room temperature temporarily during the hours when most people are away at work and lower them again prior to the time when most people will return home. The ‘Commercial’ schedule tells the unit to raise temperatures after typical working hours and on weekends when commercial spaces are typically unoccupied.</td>
</tr>
</tbody>
</table>

### Wi-Fi control

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CUSTOM 7-DAY SCHEDULE</strong></td>
<td>Create up to 5 custom programs that you can use to operate your Kühl air conditioner for maximum comfort and efficiency. Each 7-day program allows up to 4 setting changes per day.</td>
</tr>
<tr>
<td><strong>WIRELESS CONTROL</strong></td>
<td>Control Kühl units with a smartphone, tablet or computer. You can even group units to operate as a single system for central air-like control.</td>
</tr>
</tbody>
</table>

### Wireless thermostat

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>KWW WIRELESS THERMOSTAT</strong></td>
<td>Connect up to 8 Kühl units* with 1 KWW thermostat. Each unit requires 1 communication module (KCM). KWW thermostat ships with 1 KCM module. Kühl units* can be connected to a Building Management System with a KCM module (1 for each Kühl unit) and a KJD. KES may also be required depending on Building Management System. Contact your Friedrich sales representative for more information.</td>
</tr>
</tbody>
</table>

**Smart Grid Capable**

Kühl is the first room air conditioner that can tie into a power company’s smart grid.

A grid is a network that brings electricity from power stations to consumers. New technologies allow power companies to adjust electrical loads of residential users based on their specific needs - this is called a ‘smart grid’. Smart grid helps consumers to be better informed about their electricity usage and allows electric utility companies to serve customer demand in the most efficient way.

For example, during a hot summer afternoon when AC units are running at full capacity, the smart grid can send information to recalibrate other loads, which helps to alleviate stress on the system as a whole.

Source: SGIC (Smart Grid Information Clearinghouse)

---

COLOR YOUR WORLD
with one of six Kühl colors.
Change your Kühl’s appearance to complement your color scheme or to make a bold statement.
If you have a room that is too cold in winter, too hot in summer, adding a Kühl+ model is the perfect solution.

Window Air Conditioners

Ultra Premium Line

Experience the control and convenience of a central air conditioning system in ways you never thought possible. Control Kühl units via FriedrichLink®.

You’ll find more options, features and ways to customize your cooling experience than you ever thought possible in a window air conditioning solution.

If you have a room that is too cold in winter, too hot in summer, adding a Kühl+ model is the perfect solution.
Kühl® Features

Comfort & Convenience
• Convenient control from your smartphone, tablet or computer via FriedrichLink® (required accessory sold separately)
• 2 ready-to-go 7-day energy management programs
• Create customizable, 7-day schedules with up to 6 settings changes per day (requires accessory, sold separately)
• 24-hour timer
• Up to 4 cooling and 4 fan-only speeds on select models†
• Automatic fan speed adjustment
• Auto-changeover from cool to heat to cool to maintain set temperature (Kühl+ models except EQ08)†
• 8-way air flow control
• Temperature readout can display set temperature and room temperature
• Control panel lockout (ON/OFF)
• LCD panel auto dims if not in use
• Nightlight mode

Superior Filtration
• Superior fresh air intake and stale air exhaust vent*"• Washable, antimicrobial air filter
• Check filter reminder
• Optional premium filter when used in conjunction with standard filter provides superior air filtration with ratings as high as MERV 6, while also absorbing odors and reducing ozone and VOCs
• Hinged door for easy filter access for easier maintenance

Durable
• Robust 20 gauge steel cabinet
• Solid-sleeve top keeps out falling debris*
• Solid-state blower housing offers enhanced protection
• Totally enclosed commercial grade fan motor runs at a lower temperature to prevent overheating and is double-mounted for added stability and reduced wear
• Durable base pan and steel inner walls
• Unit’s structural integrity allows it to be removed, cleaned and maintained outside of its sleeve
• Aluminum rear grille protects the outdoor coil from damage by debris and vandalism
• Aluminum end plates will not contribute to rust-stained building exteriors
• Scratch-resistant cabinet
• High-tech aluminum fins with rifled copper tubing are more efficient and less prone to corrosion
• Heavy-duty installation hardware lasts longer and provides a superior barrier from the outside elements

Installation Features
• Install in a window or thru-the-wall
• Slideout chassis for more permanent installation and easier access for maintenance
• Includes heavy-duty window installation hardware (optional accessory on Kühl+ models sold separately)
• Rugged hardboard side panels or (heavy duty side curtains on SQ and EQ models) for a more permanent installation
• Power cord can run either left or right
• Firm grip handles for easier chassis installation and removal
• Front cover attaches easily and securely. Nut driver included**

Superior Sound Reduction Technology
• Steel inner wall and extra dense insulation materials block outdoor noise
• Vibration isolating design and components diminish traditional operating noise
• Precision engineering maximizes air flow while delivering ultraquiet operation

Safety & Security Features
• EntryGuard™ anti-intrusion protection—steel retaining wire secures the chassis to the sleeve to deter ‘kick-in’ intrusion
• Powercord leakage current protected
• Robust 20 gauge steel cabinet
• EntryGard™ anti-intrusion protection

DRAIN KIT
Drain tube field installed to the bottom of the base pan.

FRIEDRICHLINK® WI-FI ADAPTER
Wi-Fi Adapter Accessory connects to unit to allow for remote wireless access and programming from a computer, tablet or mobile device.

PREMIUM CARBON FILTERS
Remove odors and VOCs (volatile organic compounds). Achieve up to a MERV 6 rating when used with standard filter. 3 pk.

COLORED FRONT COVERS
Colored front cover kits available in six colors.

Kühl® Accessories

FRIEDRICHLINK® COMMUNICATION MODULE
Connects to Kühl units. One thermostat can control up to 8 Kühl units. Additional units require 1 KCM Communication Module.

WIRELESS THERMOSTAT- KWW
Wireless thermostat for control of Kühl units*. One thermostat can control up to 8 Kühl units. Additional units require 1 KCM Communication Module.

*Not compatible with Kühl SQ and EQ models.

* Feature not available on Kühl SQ and EQ models. **Nut driver not required for Kühl SQ and EQ models.

†Kuhl SQ and SL models have 3 fan speeds. Kuhl+ models have 3 fan speeds cooling and heating.

*EQ08N11B window kit KWWQ does not include window brackets.
CHILL® SLEEK DESIGN

and outstanding efficiency.

Available in a range of capacities with convenience features for carefree cooling and heating.

Premium Line

Sleek white design and energy efficient operation, including heat/cool models.

Our efficient line of room air conditioners with programmable controls for convenient operation.

Money Saver® feature saves energy by cycling the fan with the compressor.

Window Air Conditioners

Comfort & Convenience

- 24-hour timer
- Auto air sweep swing louvers* provide more even air distribution
- 3 cooling speeds, plus 3 fan-only settings; 2 cooling speeds, 2 heating speeds, plus fan-only setting on Chill+
- Ultraquiet operation
- 4-way air flow control
- Auto restart saves settings if power is interrupted

Earth Friendly

- ENERGY STAR® qualified models
- Money Saver® setting saves money by operating the fan only when cooling

Health

- Washable, antimicrobial air filter
- Check filter alert
- Stale air exhaust

Installation Features

- Slideout chassis*
- Install in window or thru-wall**
- Standard installation hardware
- Expandable side curtains
- Power cord can run either left or right out of the side of the unit front*

Safety & Security Features

- EntryGard™ anti-intrusion protection

* Feature not available on CP05. ** CP05 has a fixed chassis and is for window installation only.

Select MODE, FAN SPEED, MONEY SAVER®, adjust TEMPERATURE and set the TIMER.
### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Cooling Btu Heating Btu</th>
<th>Volts Rated</th>
<th>Coating Amps</th>
<th>Coating Watts</th>
<th>Heating Amps</th>
<th>Heating Watts</th>
<th>Heating EER</th>
<th>CFM</th>
<th>Noise Level</th>
<th>Sleeve Width</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC15N10A*</td>
<td>15000</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>-</td>
<td>-</td>
<td>350</td>
</tr>
<tr>
<td>AC15N15A*</td>
<td>15000</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>-</td>
<td>-</td>
<td>350</td>
</tr>
<tr>
<td>AC18N20A*</td>
<td>18000</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>-</td>
<td>-</td>
<td>350</td>
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<tr>
<td>AC24N30A</td>
<td>24000</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>115 120</td>
<td>-</td>
<td>-</td>
<td>350</td>
</tr>
</tbody>
</table>

* Minimum extensions when mounted in a window.

** Minimum widths achieved using one side curtain assembly as opposed to both in a standard installation.

### Installation Information

<table>
<thead>
<tr>
<th>Model</th>
<th>Rating</th>
<th>Btu (000) Cooling</th>
<th>Btu (000) Heating</th>
<th>CFM</th>
<th>Noise Level</th>
<th>Sleeve Width</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SM24N30A</td>
<td>24000</td>
<td>24000</td>
<td>24000</td>
<td>115 120</td>
<td>115 120</td>
<td>350</td>
<td>350</td>
</tr>
<tr>
<td>SM21N30B</td>
<td>21000</td>
<td>21000</td>
<td>21000</td>
<td>115 120</td>
<td>115 120</td>
<td>320</td>
<td>320</td>
</tr>
<tr>
<td>SM28N30B</td>
<td>28000</td>
<td>28000</td>
<td>28000</td>
<td>115 120</td>
<td>115 120</td>
<td>350</td>
<td>350</td>
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<tr>
<td>SM36N30B</td>
<td>36000</td>
<td>36000</td>
<td>36000</td>
<td>115 120</td>
<td>115 120</td>
<td>380</td>
<td>380</td>
</tr>
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</table>

### Circuit Rating / Breaker

<table>
<thead>
<tr>
<th>Model</th>
<th>Circuit Rating Breaker or 15-A Fuse</th>
<th>Plug Face (60°C)</th>
<th>Power Cord Level II</th>
<th>Wall Outlet Appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP05G10A</td>
<td>125V-15A</td>
<td>6-15P</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>CP07G10A</td>
<td>120V-15A</td>
<td>6-15P</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>CP09G20A</td>
<td>208V-15A</td>
<td>6-15P</td>
<td>6</td>
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<tr>
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<td>120V-15A</td>
<td>6-15P</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>CP15G10A</td>
<td>120V-15A</td>
<td>6-15P</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>CP18G10A</td>
<td>120V-15A</td>
<td>6-15P</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>CP24G30A</td>
<td>23500/23000</td>
<td>2390/2340</td>
<td>2390/2340</td>
<td></td>
</tr>
<tr>
<td>CP24G33A</td>
<td>23500/23000</td>
<td>2760/2700</td>
<td>2760/2700</td>
<td></td>
</tr>
</tbody>
</table>

### Room Air Conditioner Model Identification Guide

- **FUNCTION**
  - S - Straight Cool
  - X - X-Glow Cool
  - Y - Heat Pump

- **MODEL SERIES**
  - C - Compact
  - M - Medium
  - L - Large

- **APPROXIMATE (Btu) Cooling**
  - 5 - 1500 Btu
  - 6 - 3000 Btu
  - 7 - 6000 Btu
  - 8 - 12000 Btu
  - 9 - 24000 Btu

- **SL 28 N 30 A**

### Sleeve Dimensions Drawing

- **SIDE VIEW**

- **L - Large Chassis**
- **S - Small Chassis**
- **0 - Straight Cool**
- **1 - X-Glow Cool**
- **2 - Heat Pump Models**
- **3 - 1 KW heat strip, Nominal**
- **4 - 1 KW heat strip, Nominal**
- **5 - 1 KW heat strip, Nominal**
- **6 - 1 KW heat strip, Nominal**

### Notes

- Specifications are subject to change without notice.
**WHEN SHOULD YOU INSTALL A SOLID SIDE SLEEVE?**

A solid-side wall sleeve allows for installation in thick exterior walls where the installation of room air units with side vents would affect performance and may even void the warranty.

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<table>
<thead>
<tr>
<th>THRU-THE-WALL MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WallMaster</strong>™</td>
</tr>
<tr>
<td><strong>OVERVIEW</strong></td>
</tr>
<tr>
<td><strong>Sleeve size</strong></td>
</tr>
<tr>
<td><strong>Applications</strong></td>
</tr>
<tr>
<td><strong>COMFORT &amp; CONVENIENCE</strong></td>
</tr>
<tr>
<td><strong>Perfect fit for Fedders’ 27” sleeves</strong></td>
</tr>
<tr>
<td><strong>Top-mounted controls</strong></td>
</tr>
<tr>
<td><strong>Electronic controls</strong></td>
</tr>
<tr>
<td><strong>Programmable timer</strong></td>
</tr>
<tr>
<td><strong>Remote control</strong></td>
</tr>
<tr>
<td><strong>Auto-restart when power is interrupted</strong></td>
</tr>
<tr>
<td><strong>Smart Fan auto adjusting fan</strong></td>
</tr>
<tr>
<td><strong>Upward angled air discharge</strong></td>
</tr>
<tr>
<td><strong>Air flow direction control</strong></td>
</tr>
<tr>
<td><strong>Fan speeds</strong></td>
</tr>
<tr>
<td><strong>SOUND REDUCTION TECHNOLOGY</strong></td>
</tr>
<tr>
<td><strong>Steel inner wall and extra dense insulation</strong></td>
</tr>
<tr>
<td><strong>Vibration-isolating design and components</strong></td>
</tr>
<tr>
<td><strong>Superior airflow design</strong></td>
</tr>
<tr>
<td><strong>ENERGY STAR® models</strong></td>
</tr>
<tr>
<td><strong>Environmentally friendly R-410A</strong></td>
</tr>
<tr>
<td><strong>Energy saver switch</strong></td>
</tr>
<tr>
<td><strong>WASHABLE, ANTIMICROBIAL AIR FILTER</strong></td>
</tr>
<tr>
<td><strong>Stale air exhaust</strong></td>
</tr>
<tr>
<td><strong>ENTRYGUARD® anti-intrusion protection</strong></td>
</tr>
<tr>
<td><strong>Insect barrier</strong></td>
</tr>
<tr>
<td><strong>INSTALLATION</strong></td>
</tr>
<tr>
<td><strong>Sidewall chassis</strong></td>
</tr>
<tr>
<td><strong>Power cord direction</strong></td>
</tr>
<tr>
<td><strong>Concealed power cord option</strong></td>
</tr>
<tr>
<td><strong>Internal drain kit option</strong></td>
</tr>
<tr>
<td><strong>Baffle adapter kit (for installation in Fedders ‘B’ sleeves)</strong></td>
</tr>
<tr>
<td><strong>Condensate drain kit</strong></td>
</tr>
</tbody>
</table>

---

**FRIEDRICH THRU-THE-WALL**

Solid-side sleeve (no side vents) can be installed in thicker walls. Sleeve can be positioned flush with exterior wall.

---

**ROOM AIR CONDITIONER**

Blocked side vents restrict air flow.

---

**FRIEDRICH THRU-THE-WALL**

Solid-side sleeve (no side vents) can be installed in thicker walls. Sleeve can be positioned flush with exterior wall.

---

**OVERVIEW**

Sleeve size: Fits 27” sleeves. Fits sleeves from 24 1/2” to 27”.

Applications: Residential or light commercial.

**COMFORT & CONVENIENCE**

- **Perfect fit for Fedders’ 27” sleeves:** Y —
- **Top-mounted controls:** Y —
- **Electronic controls:** Y Y
- **Programmable timer:** 24 hr. 24 hr.
- **Remote control:** Y Y
- **Auto-restart when power is interrupted:** Y Y
- **Smart Fan auto adjusting fan:** Y —
- **Upward angled air discharge:** Y —
- **Air flow direction control:** 4-way 4-way
- **Fan speeds:** 3 3

**SOUND REDUCTION TECHNOLOGY**

- **Steel inner wall and extra dense insulation:** Y
- **Vibration-isolating design and components:** Y Y
- **Superior airflow design:** Y —
- **ENERGY STAR® models:** Y Y
- **Environmentally friendly R-410A:** Y Y
- **Energy saver switch:** Y Y

**WASHABLE, ANTIMICROBIAL AIR FILTER**

- **Washable, antimicrobial air filter:** Y Y
- **Stale air exhaust:** — Y
- **ENTRYGUARD® anti-intrusion protection:** Y —
- **Insect barrier:** Y —

**INSTALLATION**

- **Sidewall chassis:** Y Y
- **Power cord direction:** Left Right
- **Concealed power cord option:** Y —
- **Internal drain kit option:** Y —
- **Baffle adapter kit (for installation in Fedders ‘B’ sleeves):** Y —
- **Condensate drain kit:** Y —

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**WHEN SHOULD YOU INSTALL A SOLID SIDE SLEEVE?**

A solid-side wall sleeve allows for installation in thick exterior walls where the installation of room air units with side vents would affect performance and may even void the warranty.

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**THRU-THE-WALL MODELS**

<table>
<thead>
<tr>
<th><strong>WallMaster</strong>™</th>
<th><strong>Uni-Fit®</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sleeve size</strong></td>
<td>Fits 27” sleeves</td>
</tr>
<tr>
<td><strong>Applications</strong></td>
<td>RESIDENTIAL OR LIGHT COMMERCIAL</td>
</tr>
</tbody>
</table>

**COMFORT & CONVENIENCE**

- **Perfect fit for Fedders’ 27” sleeves:** Y —
- **Top-mounted controls:** Y —
- **Electronic controls:** Y Y
- **Programmable timer:** 24 hr. 24 hr.
- **Remote control:** Y Y
- **Auto-restart when power is interrupted:** Y Y
- **Smart Fan auto adjusting fan:** Y —
- **Upward angled air discharge:** Y —
- **Air flow direction control:** 4-way 4-way
- **Fan speeds:** 3 3

**SOUND REDUCTION TECHNOLOGY**

- **Steel inner wall and extra dense insulation:** Y
- **Vibration-isolating design and components:** Y Y
- **Superior airflow design:** Y —
- **ENERGY STAR® models:** Y Y
- **Environmentally friendly R-410A:** Y Y
- **Energy saver switch:** Y Y

**WASHABLE, ANTIMICROBIAL AIR FILTER**

- **Washable, antimicrobial air filter:** Y Y
- **Stale air exhaust:** — Y
- **ENTRYGUARD® anti-intrusion protection:** Y —
- **Insect barrier:** Y —

**INSTALLATION**

- **Sidewall chassis:** Y Y
- **Power cord direction:** Left Right
- **Concealed power cord option:** Y —
- **Internal drain kit option:** Y —
- **Baffle adapter kit (for installation in Fedders ‘B’ sleeves):** Y —
- **Condensate drain kit:** Y —
Thru-the-wall Air Conditioners

WallMaster®. A perfect fit in Friedrich and competitor’s 27” sleeves.

Commercial grade quality unit is ideal for installation in new construction, retrofits and remodels.

Perfect fit in 27” wall sleeves, including Fedders A and B* sleeves.

NOTE: Chassis requires WSE sleeve for new installations (sold and shipped separately)

WallMaster® Features

Comfort & Convenience
- Easy-to-reach, top mount controls
- Remote control
- 24-hour timer
- Smart Fan auto-adjusts fan speed to maintain desired temperature
- 3-speed fan
- Auto restart
- Electronic defrost control
- Reversible louver allows a second airflow option

Energy Efficiency
- Money Saver® setting saves money by operating the fan only when needed
- ENERGY STAR® qualified models
- R-410A refrigerant

Health and IAQ
- Washable, antimicrobial filter

Safety & Security
- EntryGard™ anti-intrusion protection secures chassis to sleeve to deter ‘kick-in’ intrusion
- Power cord current leakage protected
- Insect barrier

Durability & Quality
- Rotary compressors provide quiet, dependable performance
- Premium aluminum exterior grille
- Dense blower insulation
- Rifled copper tubing
- Impact resistant front cover
- High tech fins with sine wave lanced louvers increase energy efficiency by increasing surface area for heat exchange

Accessories
- WSE sleeve, ships with inside and outside weather panel and standard grille
- AG architectural grille for use with WSE sleeve
- Baffle adapter kit for use with deep sleeve installations
- Drain kit for condensate disposal
- Internal drain kit for new construction applications where condensate drain system is built-in

Installation Features
- Mounts flush with the exterior wall for a neat appearance
- Ideal for thicker wall installations, where side fins don’t fit
- Reversible louver allows for a second airflow option
- A high efficiency replacement for 27” sleeves including Fedders A and B*. Sleeve measures 27” W x 16 3/4” H

Energy Saver
- Select MODE, FAN SPEED, adjust TEMPERATURE and set the TIMER.

WallMaster®
8000-15600 Btu
Up to 10.4 EER

WallMaster®
Electric Heat
COOLING
9800-15600 Btu
Up to 9.8 EER
ELECTRIC HEAT
9100-11000 Btu

WallMaster®
Heat Pump
COOLING
9000-12000 Btu
Up to 9.8 EER
HEATING
7500-9350 Btu
Up to 2.6 COP

WSE wall sleeve ships with weather panels and grille.

Sleeve is shown at right with standard galvanized steel inner panel, painted steel outer panel and standard grille

Inner steel weather panel

WSE sleeve

Outer weather panel

Standard grille

Fits Fedders A & B sleeves. *B sleeve installations require BAK accessory, baffle adapter kit.
Uni-Fit® Universal fit for easy replacement in existing 24 1/2˝, 26” or 27” sleeves.
Residential grade quality for installation in new construction, retrofits and remolds.

Select MODE, FAN SPEED, MONEY SAVER®, adjust TEMPERATURE and set the TIMER.

U.S.C. wall sleeve ships with weather panels and grille.
Sleeve is shown at right with standard painted steel inner panel, painted steel outer panel and standard grille.

NOTE: Chassis requires USC sleeve for new installations (sold and shipped separately)

IMPORTANT: 1” gap on sides and 1/2” gap at top, which allows installation into varying sleeve sizes, can be covered by two-piece trim ring that fits over the chassis front. Trim ring comes standard with chassis.

NEW! Architectural grille for USC sleeve

Uni-Fit® Features

Comfort & Convenience
- 6-way air flow control
- Remote control
- 24-hour timer
- 3-speed fan
- Auto restart
- Defrost control

Durability & Quality
- Rotary compressors provide quiet, dependable performance
- Seacoast protection for corrosion resistance in harsh environments

Installation Features
- Universal fit trim ring
- Chassis designed to fit 24 1/2” to 27” sleeves
- USC sleeve fits standard 26” sleeve opening. See installation manual for exact dimensions.

Energy Management
- Money Saver® setting saves money by conserving energy
- ENERGY STAR® qualified models
- R-410A refrigerant

Health and IAQ
- Washable antimicrobial filter
- Stale air exhaust

Accessories
- USC sleeve ships with expanded aluminum grille
- Replacement grille ships with US/UE chassis for use in existing sleeves when a grille is needed
- UXAA architectural grille for use with USC sleeve
Thru-the-Wall Unitary Specifications

**Thru-the-Wall Optional Accessories**

- **Sleeve/Chassis Dimensions**
  - **Thru-the-wall Optional Accessories**
  - **Installation Accessories (27" sleeve models only)**
  - **Uni-Fit® 26" Sleeve Exterior Grilles**
  - **Sleeve/Chassis Dimensions**

**Uni-Fit® 26" Sleeve Exterior Grilles**

- **Standard Grille** - Ships with USC sleeve.
- **Expanded aluminum grille designed for use with USC sleeve.**
- **Black plastic for use on existing sleeves without any grille.**

**Thru-the-Wall Specifications**

- **WallMaster® Heat Pump heating information (shown in red) indicates heat pump heating performance. WallMaster Electric Heat heating information (shown in red) indicates electric heat strip performance. For WallMaster Heat Pump electric heating performance refer to corresponding WallMaster Electric Heat model.**
- **WallMaster Heat Pump**
- **HEATING PERFORMANCE:** Change over from heat pump operation to resistance operation on models that dehydrate automatically by pressurizing the ambient temperature of approximately 20°F. Calculate the heat loss of the space to be heated. As long as the heat loss does not exceed the resistance heating capacity of the unit, the heating performance will be satisfactory. Note: all models will produce condensate. If condensate disposal is desired, an optional drain kit is available.
- **TECHNICAL DATA:**
- **Defrost Control:** Initiated at 29°F (outdoor coil temperature) and terminated at 43°F (outdoor coil temperature). During defrost, the compressor stops and the defrost control automatically controls the defrost cycle. **Defrost Drain:** Drains automatically by pressurizing at approximately 50°F to prevent condensate from freezing into drain pan.

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**WallMaster® 27" Sleeve Exterior Grilles**

- **WSE SLEEVE** - Standard Grille: Premium, stamped steel grille with powder coat paint. Ships with sleeve. Galvanized steel inner and outer weather panels also ship with sleeve.

**COOLING** Vertical Louvers

**CORRECT Vertical Louvers**

**INCORRECT Horizontal Louvers**

**WallMaster® 27" Sleeve Exterior Grilles**

- **WSE Sleeve/Chassis Dimensions**
- **Thru-the-wall Optional Accessories**
- **Installation Accessories (27" sleeve models only)**
- **Uni-Fit® 26" Sleeve Exterior Grilles**
- **Sleeve/Chassis Dimensions**

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- **WallMaster Heat Pump**
- **HEATING PERFORMANCE:** Change over from heat pump operation to resistance operation on models that dehydrate automatically by pressing the ambient temperature of approximately 20°F. Calculate the heat loss of the space to be heated. As long as the heat loss does not exceed the resistance heating capacity of the unit, the heating performance will be satisfactory. Note: all models will produce condensate. If condensate disposal is desired, an optional drain kit is available.
- **TECHNICAL DATA:**
- **Defrost Control:** Initiated at 29°F (outdoor coil temperature) and terminated at 43°F (outdoor coil temperature). During defrost, the compressor stops and the defrost control automatically controls the defrost cycle. **Defrost Drain:** Drains automatically by pressurizing at approximately 50°F to prevent condensate from freezing into drain pan.

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**Thru-the-Wall Unitary Specifications**

- **Thru-the-Wall Specifications**
- **WallMaster® Heat Pump heating information (shown in red) indicates heat pump heating performance. WallMaster Electric Heat heating information (shown in red) indicates electric heat strip performance. For WallMaster Heat Pump electric heating performance refer to corresponding WallMaster Electric Heat model.**
- **WallMaster Heat Pump**
- **HEATING PERFORMANCE:** Change over from heat pump operation to resistance operation on models that dehydrate automatically by pressing the ambient temperature of approximately 20°F. Calculate the heat loss of the space to be heated. As long as the heat loss does not exceed the resistance heating capacity of the unit, the heating performance will be satisfactory. Note: all models will produce condensate. If condensate disposal is desired, an optional drain kit is available.
- **TECHNICAL DATA:**
- **Defrost Control:** Initiated at 29°F (outdoor coil temperature) and terminated at 43°F (outdoor coil temperature). During defrost, the compressor stops and the defrost control automatically controls the defrost cycle. **Defrost Drain:** Drains automatically by pressurizing at approximately 50°F to prevent condensate from freezing into drain pan.

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**Thru-the-Wall Specifications**

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- **WallMaster Heat Pump**
- **HEATING PERFORMANCE:** Change over from heat pump operation to resistance operation on models that dehydrate automatically by pressing the ambient temperature of approximately 20°F. Calculate the heat loss of the space to be heated. As long as the heat loss does not exceed the resistance heating capacity of the unit, the heating performance will be satisfactory. Note: all models will produce condensate. If condensate disposal is desired, an optional drain kit is available.
- **TECHNICAL DATA:**
- **Defrost Control:** Initiated at 29°F (outdoor coil temperature) and terminated at 43°F (outdoor coil temperature). During defrost, the compressor stops and the defrost control automatically controls the defrost cycle. **Defrost Drain:** Drains automatically by pressurizing at approximately 50°F to prevent condensate from freezing into drain pan.

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**Thru-the-Wall Specifications**

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- **HEATING PERFORMANCE:** Change over from heat pump operation to resistance operation on models that dehydrate automatically by pressing the ambient temperature of approximately 20°F. Calculate the heat loss of the space to be heated. As long as the heat loss does not exceed the resistance heating capacity of the unit, the heating performance will be satisfactory. Note: all models will produce condensate. If condensate disposal is desired, an optional drain kit is available.
- **TECHNICAL DATA:**
- **Defrost Control:** Initiated at 29°F (outdoor coil temperature) and terminated at 43°F (outdoor coil temperature). During defrost, the compressor stops and the defrost control automatically controls the defrost cycle. **Defrost Drain:** Drains automatically by pressurizing at approximately 50°F to prevent condensate from freezing into drain pan.
Dual hose design for up to 40% faster cooling or heating and increased energy efficiency.

Air Conditioner
3-IN-1 SYSTEM:
Air conditioner, dehumidifier and fan.

Heat Pump
4-IN-1 SYSTEM:
Air conditioner, heater, dehumidifier and fan.

Heat pump operation is more efficient than other portables that rely on resistance heat.

Both systems remove up to 72 pts./day when used as a dehumidifier.

ZoneAire®
Air Conditioner
COOLING 9300 and 11600 Btu
Up to 9.4 EER

Heat pump
COOLING 13500 Btu
9.5 EER
HEATING 10700 Btu
2.8 COP

NOTE: Unit not shown installed. Vent hoses must vent outdoors.

Comfort & Convenience

AIR CONDITIONER
• 3-IN-1 SYSTEM: Air conditioner, dehumidifier and fan
• Dual hoses for closed loop cooling and exhaust functions for up to 40% faster, more efficient cooling
• Self-evaporative condensate system means no bucket to empty
• Condensate overflow protection— the unit will automatically shut off if tank should become full. The unit can be drained through the water outlet drain
• 24-hour timer
• 3 fan speeds
• Washable, antimicrobial air filter
• Auto restart after power outage
• Stores easily in most closets

HEAT PUMP
• 4-IN-1 SYSTEM: Air conditioner, heater, dehumidifier and fan
• Dual hoses for closed loop cooling and exhaust functions for up to 40% faster, more efficient cooling
• Built-in drain pump to remove condensate (drain hose included)
• Self-evaporative condensate system means no bucket to empty
• Condensate overflow protection—the unit will automatically shut off if tank should become full. The unit can be drained through the water outlet drain
• 24-hour timer
• 3 fan speeds
• Washable, antimicrobial air filter
• Auto restart after power outage
• Stores easily in most closets

Superior dual-hose design

DUAL HOSE
Only indoor air is conditioned and returned into the room. Indoor air is not vented outside and wasted. The room is cooled up to 40% faster with greater energy efficiency.

SINGLE HOSE
Relies on air ‘leakage’ around doors and windows to make up for air volume lost as indoor air is exhausted outside. Inefficient—both indoor air and removed heat are exhausted.

Ideal for areas with added heat loads and for cooling emergencies

NOTE: Air conditioners will provide cooling at outdoor temperatures down to 41°F and heat pumps will provide heating at outdoor temperatures down to 14°F with single hose installation.
Features/Installation/Specifications

Ideal Applications
- Supplemental or emergency cooling or heating anywhere
- Temporary cooling in computer rooms
- Guard buildings
- Construction trailers/RVs
- Workshops and garages
- Home offices
- Dorm rooms
- Bedrooms, attics and basements
- Sunrooms/enclosed patios

Installation Kit
INSTALLATION KIT- Dual intake and exhaust hoses. Flexible, heavy duty intake/exhaust hoses extend from 24” to 60”. The hoses can be vented through a window or through a wall opening to the outside.

WINDOW SLIDER KIT (Included)
Fits HORIZONTAL or VERTICAL WINDOWS
WINDOW OPENING: Minimum: 26” Maximum: 46”
* Window slider kit can be trimmed to fit a smaller opening.

Installation Features
- Plugs into standard 115 volt outlet
- Easy-roll casters for portability
- All installation accessories included
- Window kit fits both vertical and horizontal standard and some casement slider windows
- 6 ft. long power cord
- Due to continuing research in new energy-saving technology, specifications are subject to change without notice.

Model P09B P12B PH14B
PERFORMANCE
Cooling Capacity Btu 9300 11600 13500
Heating Capacity Btu — — 10700
Energy Efficiency Rating EER 9.4 8.8 9.5
Coefficient of Performance COP — — 2.8
Air Movement CFM 212 235 250
Moisture Removal Pts/hr . 5.0 6.0 6.0

SPECIFICATIONS
Refrigerant Type R-410A
Power Supply Volts 115
Rated Current
Cooling Amps — 10.8 10.8
Heating Amps — — 10.8
Watts 989 1318 1421/1120
Dimensions (Inches) W x H x D 19 1/2 x 33 1/2 x 15 1/2
Weight (Net/Shipping) Lbs. 71/89 72/90 78/95
Carton Dimensions (Inches) W x H x D 20 7/8 x 43 1/8 x 16 3/4

NOTE: Air conditioners will provide cooling at outdoor temperatures down to 41°F and heat pumps will provide heating at outdoor temperatures down to 14°F with single hose installation.

LISTED PORTABLE AIR CONDITIONERS
183H

EXTREME A/C FOR HAZARDOUS CONDITIONS
Hazardgard® is specifically designed to cool living quarters, storage areas and other enclosures situated in hazardous locations, where specific volatile flammable liquids or gases are handled or used within enclosed containers or systems.

Hazardgard meets T4 temperature classification which means unit surface temperatures will not rise above 195°F /275°F. [note: 50/60Hz model listed as T4A for surface temperatures 120°F /248°F]. Operates at low ambient conditions without freezing at outdoor ambient temperatures as low as 7°F /45°F. Tolerates higher outdoor temperatures up to 55°C /130°F.

Equipment is certified in accordance with ISA 12.12.01 and NFPA 70 (National Electric Code)
ARTICLE 501 ARTICLE 505
Class I, Div. 2, Group A and Group B Class I, Zone 2, Group IIC
Class I, Div. 2, Group B Class I, Zone 2, Group IIB plus hydrogen, or “+H2”
Class I, Div. 2, Group C Class I, Zone 2, Group IIB
Class I, Div. 2, Group D Class I, Zone 2, Group IIA

Equipment is certified in accordance with ANSI/UL 484 and SANS 2861

Hazardgard®
60 Hertz models North America
14000 to 24000 Btu
Up to 9.7 EER

50 Hertz models International
19100 to 19500 Btu
Up to 9.0 EER

50-60 Hertz model
International-North America
50 Hertz 21000/20500 Btu
8.1/8.5 EER
60 Hertz 24000/23700
8.8/8.5 EER
Applications

Built to perform in the harshest environments

- Offshore oil rigs, on-shore oil company offices and refineries
- Petrochemical sites and propane fill-up stations
- Paint and varnish storage or processing plants
- Grain alcohol processors or storage sites
- Furniture refinishing/stripping workshops
- Recycling plants
- Fertilizer plants
- Hazardous materials storage
- Container labs
- For analyzer houses/shelters

Features

- Permanent split capacitor motor
- Hermetically sealed refrigeration system
- Environmentally sealed on/off switch and gold plated contacts in thermostat for corrosion resistance
- Solid-state control relays for compressor and fan operation
- Hot gas bypass allows the air conditioner to operate at low ambient conditions without freezing at outdoor temperatures as low as 45°F (7°C)
- Hermetically sealed reciprocating compressor is cooled during the refrigeration cycle, which allows the unit to tolerate higher outdoor temperatures up to 130°F (55°C)
- Larger, commercial grade, enclosed fan motor with hermetically sealed overload for arc-free operation. Totally enclosed to assure efficient operation under adverse electrical conditions
- Unit utilizes field supplied, direct-wired, 15-amp circuit with time-delay fuse that will tolerate current surge without tripping the breaker
- 22-gage, G10 steel air conditioner cabinet is powder coated for corrosion protection and to withstand years of hard use
- High density EPS foam insulation for thermal resistance and sound control
- Heavy duty hexacomb packaging resists damage during shipment and is environmentally friendly

COILS COATED FOR CORROSION RESISTANCE

MODEL SH24M20

- ElectroFin® 5-stage, immersion ecoat process on 100% of metallic surfaces on the outdoor coil provides outstanding corrosion resistance protection in coastal or corrosive environments

ELECTROFIN BENEFITS:

- Excellent adhesion characteristics
- Less than 1% thermal degradation
- Outstanding chemical resistance
- Passed 6068 hrs.ASTM B-117 Salt Spray

ELECTROFIN MEETS THE FOLLOWING:

- MIL-C-46168 Chemical Agent Resistance -DS2, HCl Gas
- CID A-A-3247A (OSA)
- MIL-STD-883F, Method 509.4 (Sand and Dust)
- MIL-P-33048 (ME) TACOM Approval
- MIL-DTL-12468 Decontamination Agent (STB)
- PD0 (Douglas Proving Grounds) Soil & Water Exposure Tests
- OMS60P-97 Accelerated Corrosion Test (120 cycles)
- ASTM B117-01 Modified Salt Spray (Fog) Testing-2,000 hours
- ASTM B117 Salt Spray tested by ARL for Lockheed Martin

MODELS SH15M03A, SH20M30A, SH20M50A

- Diamonblue Advanced Corrosion Protection® on the outdoor coil protects the coil against deterioration and extends the life of the unit especially in coastal or corrosive environments

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Cooling Capacity</th>
<th>EER</th>
<th>Energy Efficiency Ratio</th>
<th>Moisture Removal (Pts./Hr)</th>
<th>Air Direction Control</th>
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Installation Information

Due to continuing engineering research and technology, specifications are subject to change without notice. Manufactured under U.S. Design Patent DES 368, 306 decorative front, Utility Patent 5, 622, 058. MAXIMUM outdoor ambient operating temperature is 130°F (55°C). MAXIMUM TEMPERATURE RATING FOR CLASS I, DIVISION 2, GROUPS A,B,C,D.

For global applications, Hazardgard cooling capacities are tested in a certified laboratory at moderate (T1*) and hot (T3*) climate conditions in accordance with SASO (Saudi Arabian Standards Organization) Standard 2681. SASO Standard 2681 is adopted from ISO Standard 5151 for testing and rating for performance of non-ducted air conditioners and heat pumps.

* Capacity and efficiency values at each climate conditions are available upon request.

Applications

Built to perform in the harshest environments

- Offshore oil rigs, on-shore oil company offices and refineries
- Petrochemical sites and propane fill-up stations
- Paint and varnish storage or processing plants
- Grain alcohol processors or storage sites
- Furniture refinishing/stripping workshops
- Recycling plants
- Fertilizer plants
- Hazardous materials storage
- Container labs
- For analyzer houses/shelters

Features

- Permanent split capacitor motor
- Hermetically sealed refrigeration system
- Environmentally sealed on/off switch and gold plated contacts in thermostat for corrosion resistance
- Solid-state control relays for compressor and fan operation
- Hot gas bypass allows the air conditioner to operate at low ambient conditions without freezing at outdoor temperatures as low as 45°F (7°C)
- Hermetically sealed reciprocating compressor is cooled during the refrigeration cycle, which allows the unit to tolerate higher outdoor temperatures up to 130°F (55°C)
- Larger, commercial grade, enclosed fan motor with hermetically sealed overload for arc-free operation. Totally enclosed to assure efficient operation under adverse electrical conditions
- Unit utilizes field supplied, direct-wired, 15-amp circuit with time-delay fuse that will tolerate current surge without tripping the breaker
- 22-gage, G10 steel air conditioner cabinet is powder coated for corrosion protection and to withstand years of hard use
- High density EPS foam insulation for thermal resistance and sound control
- Heavy duty hexacomb packaging resists damage during shipment and is environmentally friendly

COILS COATED FOR CORROSION RESISTANCE

MODEL SH24M20

- ElectroFin® 5-stage, immersion ecoat process on 100% of metallic surfaces on the outdoor coil provides outstanding corrosion resistance protection in coastal or corrosive environments

ELECTROFIN BENEFITS:

- Excellent adhesion characteristics
- Less than 1% thermal degradation
- Outstanding chemical resistance
- Passed 6068 hrs.ASTM B-117 Salt Spray

ELECTROFIN MEETS THE FOLLOWING:

- MIL-C-46168 Chemical Agent Resistance -DS2, HCl Gas
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