



FRIEDRICH

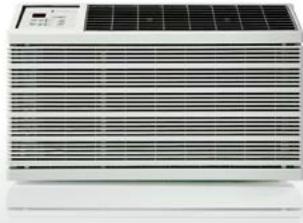
1883

# ROOM AIR CONDITIONERS



THE EXPERTS IN ROOM AIR CONDITIONING

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## What type of air conditioner do you need?

|                                     | WINDOW AIR CONDITIONERS |                | THRU-THE-WALL |          | PORTABLE  | HAZARDOUS LOCATION |
|-------------------------------------|-------------------------|----------------|---------------|----------|-----------|--------------------|
|                                     | Kühl®                   | Chill®         | WallMaster®   | Uni-Fit® | ZoneAire® | Hazardgard®        |
| PERMANENT INSTALLATION              | Y                       | Y              | Y             | Y        | —         | Y                  |
| SEASONAL INSTALLATION               | Y                       | Y              | —             | —        | Y         | —                  |
| CAN BE INSTALLED THRU-THE-WALL      | Y                       | Y -except CP05 | Y             | Y        | —         | Y                  |
| ENERGY STAR®                        | Y                       | Y              | Y             | Y        | NA        | NA                 |
| POWER SUPPLY                        |                         |                |               |          |           |                    |
| 115V                                | Y                       | Y              | Y             | Y        | Y         | —                  |
| 230V                                | Y                       | Y              | Y             | Y        | —         | Y                  |
| COOLING W/ HEAT                     |                         |                |               |          |           |                    |
| HEAT PUMP                           | Y                       | —              | Y             | —        | Y         | —                  |
| ELECTRIC HEAT                       | Y                       | Y              | Y             | Y        | —         | —                  |
| EXTRA LARGE CAPACITY                |                         |                |               |          |           |                    |
| >17,000 Btu                         | Y                       | Y              | —             | —        | —         | Y                  |
| >25,000 Btu                         | Y                       | —              | —             | —        | —         | —                  |
| SPECIAL FEATURES                    |                         |                |               |          |           |                    |
| ROLLS FROM ROOM TO ROOM             | —                       | —              | —             | —        | Y         | —                  |
| SMARTGRID READY                     | Y*                      | —              | —             | —        | —         | —                  |
| ENHANCED FILTRATION                 | Y                       | —              | —             | —        | —         | —                  |
| OPTIONAL FEATURES                   |                         |                |               |          |           |                    |
| WI-FI CONTROL                       | Y*                      | —              | —             | —        | —         | —                  |
| CREATE CUSTOM SCHEDULES             | Y*                      | —              | —             | —        | —         | —                  |
| GROUP UNITS FOR CENTRALIZED CONTROL | Y*                      | —              | —             | —        | —         | —                  |
| DECORATOR COLORS                    | Y                       | —              | —             | —        | —         | —                  |

\*Requires FriedrichLink® adapter accessory (sold separately).

# Window Air Conditioner Selector Guide

|                            | COMMERCIAL GRADE  |  | RESIDENTIAL GRADE   |   |   |
|----------------------------|---|--|---|---|---|
|                            | Kühl®   | Kühl®+   | Chill®  | Chill®+   |   |
| OVERVIEW                   | Description   | Bold design and exclusive features. Programmability to rival central systems. Trusted Friedrich durability. Designer colors. | All the performance and durability of Kühl, plus heating. Choose efficient heat pump or toasty electric heat. | Good value. Available in a large range of cooling capacities. 24-hr. timer. | Good value. Four models with electric heat. 24-hr. timer. |
|                            | Room size (sq. ft.)   | 100-2700   | 350-2700  | 100-1500  | 100-1500  |
|                            | Functions   | COOL   | HEAT/COOL   | COOL  | HEAT/COOL   |
|                            | Applications  | COMMERCIAL AND RESIDENTIAL   | COMMERCIAL AND RESIDENTIAL  | RESIDENTIAL AND LIGHT COMMERCIAL  | RESIDENTIAL AND LIGHT COMMERCIAL                          |
| COMFORT & CONVENIENCE      | Electronic controls   | Y  | Y   | Y   | Y   |
|                            | Timer   | 7-day with up to 4 settings per day*; 24 hr. timer   | 7-day with up to 4 settings per day*; 24-hr. timer  | 24 hr.  | 24-hr.  |
|                            | Remote control  | LCD  | LCD   | LCD   | LCD   |
|                            | Control with smart phone or computer with FriedrichLink® (accessory required) | Y  | Y   | —   | —   |
|                            | Auto-restart w/setting retention  | Y  | Y   | Y   | Y   |
|                            | Auto temp/ fan speed adjustment   | Y  | Y   | —   | —   |
|                            | Auto-changeover   | —  | All except EQ08   | —   | —   |
|                            | Air flow directions   | 8  | 8   | 4   | 4   |
|                            | Auto swing louvers  | —  | —   | All except CP05   | Y   |
|                            | Optional color fronts   | Y  | Y   | —   | —   |
| SOUND REDUCTION TECHNOLOGY | Steel inner wall and extra dense insulation                                   | Y  | Y   | —   | —   |
|                            | Vibration isolating design and components                                     | Y  | Y   | —   | —   |
|                            | Superior airflow design   | Y  | Y   | —   | —   |
| EARTH FRIENDLY             | ENERGY STAR® models   | Y  | Y   | Y   | —   |
|                            | Smart Grid capable  | Y  | Y   | —   | —   |
|                            | Environmentally friendly R-410A   | Y  | Y   | Y   | Y   |
|                            | Energy saver switch   | Y  | Y   | Y   | Y   |
|                            | RoHS compliant  | Y  | Y   | —   | —   |
| HEALTH                     | Washable, antimicrobial air filter  | Y  | Y   | Y   | Y   |
|                            | Optional carbon filter  | Y  | Y   | —   | —   |
|                            | Check filter reminder   | Y  | Y   | Y   | Y   |
|                            | Superior fresh air intake/stale air exhaust                                   | All except SQ  | All except EQ08   | Stale air exhaust only, all except CP05                                     | Stale air exhaust only                                    |
| SAFETY                     | EntryGard™ anti-intrusion protection  | Y  | Y   | Y   | Y   |
|                            | Insect barrier  | All except SQ  | All except EQ08   | —   | —   |
| INSTALLATION               | Slideout chassis  | Y  | Y   | All except CP05   | Y   |
|                            | Power cord direction  | Left or right  | Left or right   | Left or right   | Left or right   |
|                            | Thru-the-wall installation option   | Y  | Y   | All except CP05   | Y   |
|                            | Window installation hardware  | Heavy duty   | Heavy duty, available as accessory  | Standard  | Standard  |

\*Requires internet connection and FriedrichLink® accessory.

## 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

| Area to be conditioned in sq. ft. | Cooling Btu |
|-----------------------------------|-------------|
| 100 - 150                         | 5000        |
| 150 - 250                         | 6000        |
| 250 - 300                         | 7000        |
| 300 - 350                         | 8000        |
| 350 - 400                         | 9000        |
| 400 - 450                         | 10000       |
| 450 - 550                         | 12000       |
| 550 - 700                         | 14000       |
| 700 - 1000                        | 18000       |
| 1000 - 1200                       | 21000       |
| 1200 - 1400                       | 23000       |
| 1400 - 1600                       | 25000       |
| 1600 - 1900                       | 28000       |
| 1900 - 2700                       | 36000       |

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 make field adaptations, including removing all or part of a window to support alternative types of air conditioning units. Professional installers should also be able to tell you about any local codes that may apply to your installation.

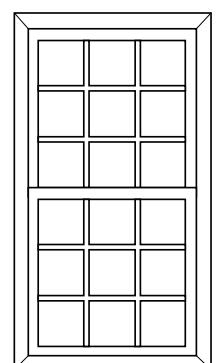
### THRU-THE-WALL INSTALLATION

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 max. depth.

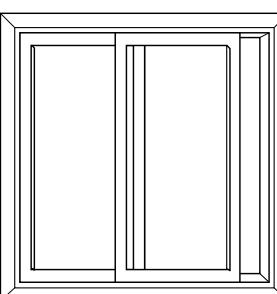
## WHICH AIR CONDITIONER IS RIGHT FOR YOU?

| Window Type           | Air Conditioner             |
|-----------------------|-----------------------------|
| Single/double hung    | Window, portable, ductless  |
| Slider                | Window*, portable, ductless |
| Casement              | Portable, ductless          |
| Vertical Casement     | Portable, ductless          |
| Awning                | Portable, ductless          |
| Hopper                | Portable, ductless          |
| Picture (non-opening) | Thru-the-wall, ductless     |

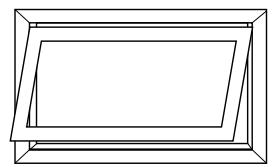
\*May require additional modifications



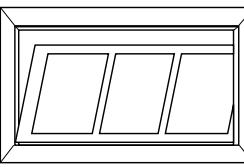
Single/double hung  
(Opens up or down)



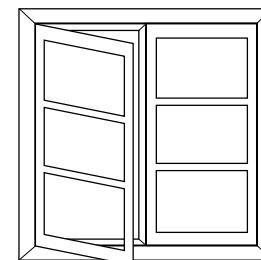
Slider  
(Opens left to right, or right to left)



Awning  
(Cranked out)



Hopper  
(Opens in)

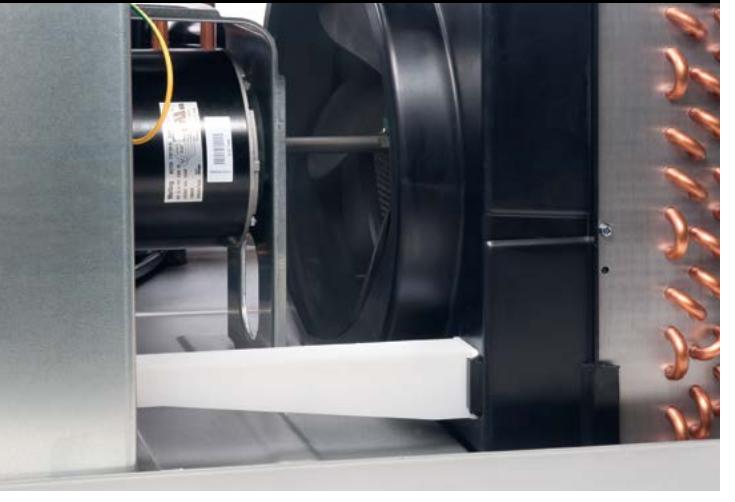


Casement  
(Cranked out)

# MAINTENANCE



KÜHL.  
BUILT TOUGH FOR THE  
MOST DEMANDING  
APPLICATIONS



## 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.



Deep Red



## 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.



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.



Neutral Gray  
(STANDARD)



Pink Diamond



Cobalt Blue



Classic Beige



Black Onyx



Designer White

## Kühl® Control

|                            |  |
|----------------------------|--|
| <b>Built-in controls</b>   | <b>SIMPLE OPERATION</b><br>Turn the unit on, select 'MODE' and make simple up/down temperature adjustments either at the control panel or with included remote.  |
|                            | <b>BUILT-IN 7 DAY SCHEDULES</b><br>Kühl units include two 7-day energy management schedules which can be accessed and selected from the unit's controls.<br>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.<br>The 'Commercial' schedule tells the unit to raise temperatures after typical working hours and on weekends when commercial spaces are typically unoccupied. |
| <b>Wi-Fi control</b>       | <b>CUSTOM 7-DAY SCHEDULE</b> ( <i>requires optional accessory sold separately</i> )<br>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.<br><b>WIRELESS CONTROL</b><br>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.  |
| <b>Wireless thermostat</b> | <b>KWW WIRELESS THERMOSTAT</b> ( <i>requires optional accessory sold separately</i> )<br>Connect up to 8 Kühl units* with 1 KWW thermostat. Each unit requires 1 communication module (KCM). KWW thermostat ships with 1 KCM module.<br>Kühl units* can be connected to a Building Management System with a KCM module (1 for each Kühl unit) and a KJD. KEG may also be required depending on Building Management System. Contact your Friedrich sales representative for more information.   |

\*Wireless thermostat and Building Management Systems are not compatible Kühl SQ and EQ models.

## 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)



Control Kühl with a smartphone, tablet or computer.

FriedrichLink® Wi-Fi allows monitoring and control of one or all of your Kühl air conditioners remotely.



Connect Kühl\* to a Building Management System.



## 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.

FITS WINDOWS FROM  
22" TO 42" WIDE



Neutral Gray  
(STANDARD)



Kühl®  
5200-9600 Btu  
**Up to 11.2 EER**

Kühl®+  
Electric Heat  
COOLING  
7900 Btu  
**Up to 11.2 EER**  
ELECTRIC HEAT  
4000 Btu



Full LCD display shows MODE, FAN SPEED, SET TEMPERATURE and SCHEDULE. Adjust TEMPERATURE and FAN SPEEDS, set AUTO MODE and turn the SCHEDULE ON/OFF.

FITS WINDOWS FROM  
27 3/8" TO 42" WIDE



Neutral Gray  
(STANDARD)

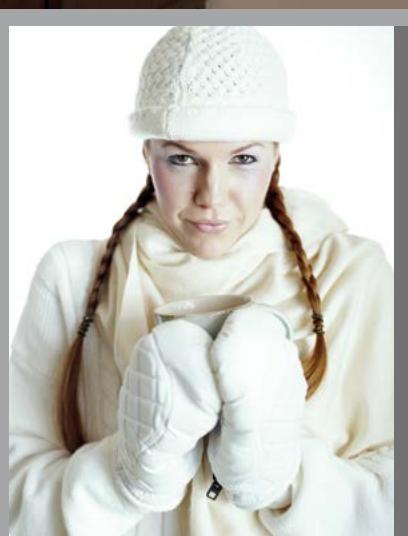


Kühl®  
8000-36000 Btu  
**Up to 11.5 EER**

Kühl®+  
Electric Heat  
COOLING  
12000-36000 Btu  
**Up to 11.3 EER**  
ELECTRIC HEAT  
8900-17300 Btu



If you have a room that is too cold in winter, too hot in summer, adding a Kühl+ model is the perfect 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®+  
Heat Pump  
COOLING  
9500-24000 Btu  
**Up to 10.4 EER**  
HEATING  
8000-22000 Btu  
**Up to 2.7 COP**

# 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 4 setting 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; 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 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

## 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 adsorbing 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-steel 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 damaging 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\*\*.

## Earth Friendly

- Smart Grid capable
- Auto Fan mode saves money by conserving energy
- ENERGY STAR® qualified models, including heat pumps
- Environmentally-friendly R-410A refrigerant used in all models
- Recyclable packaging
- RoHS compliant

## Safety & Security Features

- EntryGard™ anti-intrusion protection-steel retaining wire secures the chassis to the sleeve to deter 'kick-in' intrusion
- Powercord leakage current protected
- Insect barrier\*
- Protective rear grille

# Kühl® Accessories

## 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.

| Model    | Kit No. |
|----------|---------|
| N Series |         |
| KWIFI    |         |



## PREMIUM CARBON FILTERS

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



| Model         | Kit No. |
|---------------|---------|
| SQ and EQ     | KWCFO   |
| SS, ES and YS | KWCFS   |
| SM, EM and YM | KWCFM   |
| SL, EL and YL | KWCFL   |

## WINDOW MOUNTING KITS: KÜHL+

Heavy duty kits required for installation of these Kühl+ models in a window.

| Heat/Cool Models                          | Kit No. |
|---|---------|
| EQ08N11B*                                 | KWIKQA  |
| ES12N33B, ES16N33, YS10N10B and YS12N33B. | KWIKSA  |
| EM18N34, EM24N34A and YM18N34B.           | KWIKMA  |
| EL36N35B and YL24N35B.                    | KWIKLA  |

\*EQ08N11B window kit KWIKQ does not include window brackets.



KWIKQ, KWIKS, KWIKM, KWIKL

## COLORED FRONT COVERS

Colored front cover kits available in six colors.



Deep Red



Cobalt Blue



Classic Beige



Designer White



Black Onyx



Pink Diamond

| COLOR         |          |             |               |                |            |              |
|---------------|----------|-------------|---------------|----------------|------------|--------------|
| Model         | Deep Red | Cobalt Blue | Classic Beige | Designer White | Black Onyx | Pink Diamond |
| SQ and EQ     | KWREDQA  | KWBLUQA     | KWBGEQA       | KWWHTQA        | KWBLKQA    | KWPNKQA      |
| SS, ES and YS | KWREDSA  | KWBLUSA     | KWBGESA       | KWWHTSA        | KWBLKSA    | KWPNSA       |
| SM, EM and YM | KWREDMA  | KWBLUMA     | KWBGEMA       | KWWHTMA        | KWBLKMA    | KWPNKMA      |
| SL, EL and YL | KWREDLA  | KWBLULA     | KWBGELA       | KWWHTLA        | KWBLKLA    | KWPNLKA      |

## DRAIN KIT

Drain tube field installed to the bottom on the base pan.

| Model                  | Kit No. |
|------------------------|---------|
| All Kühl Series Models | DC2     |



## 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 per unit. KWW Thermostat ships with 1 KCM Communication Module.



## COMMUNICATION MODULE- KCM

Communicates with KWW thermostat or building management system.

\*Not compatible with Kühl SQ and EQ models.





# CHILL® SLEEK DESIGN

and outstanding efficiency.

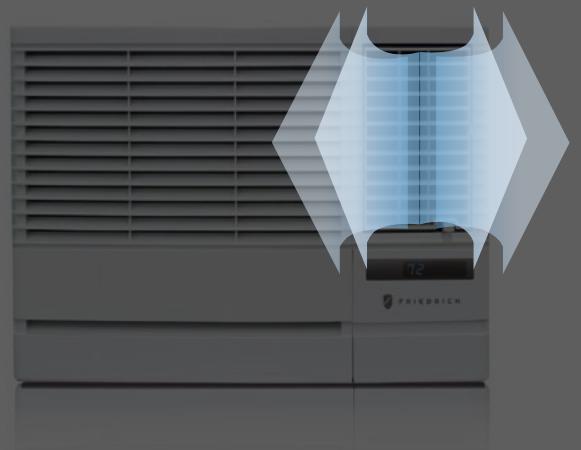
Available in a range of capacities with convenience features for carefree cooling and heating.

## 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

AUTO AIR SWEEP SWING LOUVERS FOR EVEN COOLING THROUGHOUT THE ROOM.



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

# CHILL® SLEEK DESIGN

and outstanding efficiency.

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

## 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

FITS WINDOWS FROM  
20 1/8" TO 36" WIDE



CP05



### 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

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

### 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\*

FITS WINDOWS FROM  
20 1/8" TO 42" WIDE



COOL COOL & HEAT

### Safety & Security Features

- EntryGard™ anti-intrusion protection



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

Chill®  
5450 Btu  
**10.7 EER**

Chill®  
6000-23500 Btu  
**Up to 11.3 EER**

Chill®+  
Electric Heat  
COOLING  
8000-23500 Btu  
**Up to 9.8 EER**

ELECTRIC HEAT  
3850-12000 Btu

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



# Specifications

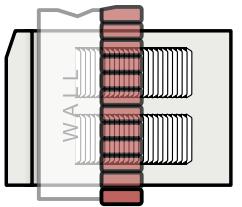
★ ENERGY STAR® models

| Model                          | Cooling Btu |             | Heating Btu |              | Volts Rated  | Cooling Amps                | Cooling Watts                | Heating Amps | Heating Watts             | Energy Efficiency Ratio EER | Estimated Yearly Energy Cost | COP          | Moisture Removal-Pints/HR | CFM | Sleeve | Net Wt. lbs. | Ship Wt. lbs. |
|--------------------------------|-------------|-------------|-------------|--------------|--------------|-----------------------------|------------------------------|--------------|---------------------------|-----------------------------|------------------------------|--------------|---------------------------|-----|--------|--------------|---------------|
|                                | Cooling Btu | Heating Btu | Volts Rated | Cooling Amps | Heating Amps | Energy Efficiency Ratio EER | Estimated Yearly Energy Cost | COP          | Moisture Removal-Pints/HR | CFM                         | Sleeve                       | Net Wt. lbs. | Ship Wt. lbs.             |     |        |              |               |
| <b>Kühl®</b>                   |             |             |             |              |              |                             |                              |              |                           |                             |                              |              |                           |     |        |              |               |
| ★ SQ05N10B                     | 5200        | -           | 115         | 4.7          | 464          | -                           | -                            | 11.2         | \$42                      | -                           | 0.5                          | 190          | Q                         | 72  | 85     |              |               |
| ★ SQ06N10B                     | 5700        | -           | 115         | 4.7          | 509          | -                           | -                            | 11.2         | \$46                      | -                           | 0.5                          | 190          | Q                         | 72  | 85     |              |               |
| ★ SQ08N10B                     | 7900        | -           | 115         | 6.4          | 705          | -                           | -                            | 11.2         | \$63                      | -                           | 1.2                          | 200          | Q                         | 71  | 84     |              |               |
| ★ SQ10N10                      | 9600        | -           | 115         | 9.2          | 980          | -                           | -                            | 9.8          | \$88                      | -                           | 2.1                          | 240          | Q                         | 71  | 84     |              |               |
| ★ SS08N10B                     | 8000        | -           | 115         | 6.1          | 696          | -                           | -                            | 11.5         | \$63                      | -                           | 1.9                          | 255          | S                         | 99  | 121    |              |               |
| ★ SS10N10B                     | 9700        | -           | 115         | 7.8          | 858          | -                           | -                            | 11.3         | \$77                      | -                           | 2.5                          | 300          | S                         | 106 | 128    |              |               |
| ★ SS12N10B                     | 12000       | -           | 115         | 9.7          | 1062         | -                           | -                            | 11.3         | \$96                      | -                           | 3.0                          | 300          | S                         | 112 | 134    |              |               |
| SS14N10A                       | 13500       | -           | 115         | 12.0         | 1250         | -                           | -                            | 10.8         | \$113                     | -                           | 4.0                          | 275          | S                         | 116 | 133    |              |               |
| ★ SS12N30B                     | 12000/12000 | -           | 230/208     | 4.9/5.2      | 1062/1062    | -                           | -                            | 11.3/11.3    | \$96                      | -                           | 3.4                          | 325          | S                         | 112 | 134    |              |               |
| SS16N30                        | 15500/15200 | -           | 230/208     | 6.5/7.1      | 1449/1421    | -                           | -                            | 10.7/10.7    | \$130                     | -                           | 4.8                          | 350          | S                         | 116 | 136    |              |               |
| ★ SM15N10B                     | 15000       | -           | 115         | 12.0         | 1339         | -                           | -                            | 11.2         | \$121                     | -                           | 3.5                          | 360          | M                         | 141 | 154    |              |               |
| SM18N30                        | 17500/17200 | -           | 230/208     | 7.4/8.0      | 1635/1607    | -                           | -                            | 10.7/10.7    | \$147                     | -                           | 4.6                          | 350          | M                         | 140 | 161    |              |               |
| ★ SM21N30B                     | 20500/20000 | -           | 230/208     | 9.3/10.2     | 2092/2062    | -                           | -                            | 9.8/9.7      | \$188                     | -                           | 6.0                          | 425          | M                         | 132 | 153    |              |               |
| SM24N30A                       | 23500/23200 | -           | 230/208     | 12.7/13.6    | 2765/2730    | -                           | -                            | 8.5/8.5      | \$249                     | -                           | 7.1                          | 430          | M                         | 152 | 173    |              |               |
| ★ SL24N30B                     | 24000/23800 | -           | 230/208     | 10.8/11.4    | 2449/2429    | -                           | -                            | 9.8/9.8      | \$220                     | -                           | 7.0                          | 640          | L                         | 191 | 212    |              |               |
| ★ SL28N30B                     | 28000/27600 | -           | 230/208     | 13.0/14.0    | 2857/2875    | -                           | -                            | 9.8/9.6      | \$257                     | -                           | 8.5                          | 640          | L                         | 193 | 214    |              |               |
| SL36N30B                       | 36000/35500 | -           | 230/208     | 17.5/19.2    | 4000/3944    | -                           | -                            | 9.0/9.0      | \$360                     | -                           | 12.0                         | 725          | L                         | 212 | 248    |              |               |
| <b>Kühl+® (Heat Pump)</b>      |             |             |             |              |              |                             |                              |              |                           |                             |                              |              |                           |     |        |              |               |
| ★ YS10N10B*                    | 9500        | 8000        | 115         | 8.2          | 913          | 7.3                         | 870                          | 10.4         | \$82                      | 2.7                         | 2.0                          | 300          | S                         | 109 | 131    |              |               |
| ★ YS12N33B                     | 11500/11300 | 9400/9000   | 230/208     | 5.0/5.4      | 1106/1087    | 4.6/5.0                     | 1132/1139                    | 10.4/10.4    | \$100                     | 2.4/2.3                     | 3.0                          | 375          | S                         | 115 | 136    |              |               |
| ★ YM18N34B                     | 17500/17200 | 15500/15000 | 230/208     | 7.5/8.1      | 1683/1654    | 7.8/8.4                     | 1824/1765                    | 10.4/10.4    | \$151                     | 2.5/2.5                     | 5.4                          | 370          | M                         | 141 | 154    |              |               |
| ★ YL24N35B                     | 24000/24000 | 22000/22000 | 230/208     | 10.8/11.6    | 2449/2449    | 10.7/11.4                   | 2391/2391                    | 9.8/9.8      | \$220                     | 2.6/2.6                     | 7.0                          | 600          | L                         | 197 | 211    |              |               |
| <b>Kühl+® (Electric Heat)</b>  |             |             |             |              |              |                             |                              |              |                           |                             |                              |              |                           |     |        |              |               |
| EQ08N11B                       | 7900        | 4000        | 115         | 6.4          | 705          | 11.2                        | 1290                         | 11.2         | \$63                      | -                           | 1.2                          | 200          | Q                         | 72  | 84     |              |               |
| ES12N33B                       | 12000/12000 | 10700/8900  | 230/208     | 4.9/5.2      | 1062/1062    | 16.0/14.7                   | 3500/2900                    | 11.3/11.3    | \$96                      | -                           | 3.4                          | 325          | S                         | 113 | 128    |              |               |
| ES16N33                        | 15500/15200 | 10700/8900  | 230/208     | 6.5/7.1      | 1449/1421    | 16.0/14.7                   | 3500/2900                    | 10.7/10.7    | \$130                     | -                           | 4.8                          | 350          | S                         | 117 | 133    |              |               |
| EM18N34                        | 17500/17200 | 13000/10600 | 230/208     | 7.4/8.0      | 1635/1607    | 19.5/17.0                   | 4200/3500                    | 10.7/10.7    | \$147                     | -                           | 4.6                          | 350          | M                         | 141 | 154    |              |               |
| EM24N34A                       | 23500/23200 | 13000/10600 | 230/208     | 12.7/13.6    | 2765/2730    | 19.5/17.0                   | 4200/3500                    | 8.5/8.5      | \$249                     | -                           | 7.1                          | 430          | M                         | 153 | 166    |              |               |
| EL36N35B                       | 36000/35500 | 17300/14300 | 230/208     | 17.5/19.2    | 4000/3944    | 24.0/22.4                   | 5500/4650                    | 9.0/9.0      | \$360                     | -                           | 12.0                         | 725          | L                         | 213 | 246    |              |               |
| <b>Chill® (Cool Only)</b>      |             |             |             |              |              |                             |                              |              |                           |                             |                              |              |                           |     |        |              |               |
| CP05G10A                       | 5450        | -           | 115         | 4.8          | 500          | -                           | -                            | 10.7         | \$46                      | -                           | 1.5                          | 140          | P1                        | 46  | 50     |              |               |
| ★ CP06G10A                     | 6000        | -           | 115         | 4.9          | 530          | -                           | -                            | 11.2         | \$48                      | -                           | 1.8                          | 200          | P6                        | 60  | 66     |              |               |
| ★ CP08G10A                     | 7800        | -           | 115         | 6.3          | 690          | -                           | -                            | 11.2         | \$63                      | -                           | 2.2                          | 250          | P6                        | 64  | 70     |              |               |
| ★ CP10G10A                     | 10000       | -           | 115         | 8.5          | 880          | -                           | -                            | 11.3         | \$80                      | -                           | 3.0                          | 300          | P7                        | 81  | 87     |              |               |
| ★ CP12G10A                     | 12000       | -           | 115         | 9.7          | 1060         | -                           | -                            | 11.3         | \$96                      | -                           | 3.3                          | 330          | P7                        | 87  | 93     |              |               |
| ★ CP15G10A                     | 15000       | -           | 115         | 12.0         | 1330         | -                           | -                            | 11.2         | \$121                     | -                           | 4.0                          | 400          | P8                        | 120 | 134    |              |               |
| ★ CP18G30A                     | 18000/17500 | -           | 230/208     | 7.3/7.8      | 1600/1560    | -                           | -                            | 11.2/11.2    | \$145                     | -                           | 4.5                          | 520          | P9                        | 136 | 150    |              |               |
| ★ CP24G30A                     | 23500/23000 | -           | 230/208     | 10.9/11.8    | 2390/2340    | -                           | -                            | 9.8/9.8      | \$216                     | -                           | 6.8                          | 590          | P9                        | 146 | 160    |              |               |
| <b>Chill+® (Electric Heat)</b> |             |             |             |              |              |                             |                              |              |                           |                             |                              |              |                           |     |        |              |               |
| EP08G11A                       | 8000        | 3850        | 115         | 7.5          | 820          | 11.0                        | 1260                         | 9.8          | \$73                      | -                           | 2.6                          | 265          | P7                        | 79  | 85     |              |               |
| EP12G33A                       | 12000/11500 | 11200/9200  | 230/208     | 5.5/5.8      | 1220/1170    | 15.3/14.0                   | 3500/2900                    | 9.8/9.8      | \$110                     | -                           | 3.3                          | 265          | P7                        | 87  | 93     |              |               |
| EP18G33A                       | 18000/17500 | 12000/9800  | 230/208     | 8.3/9.0      | 1850/1800    | 16.0/15.0                   | 3670/3100                    | 9.7/9.7      | \$167                     | -                           | 5.5                          | 430          | P9                        | 136 | 150    |              |               |
| EP24G33A                       |             |             |             |              |              |                             |                              |              |                           |                             |                              |              |                           |     |        |              |               |

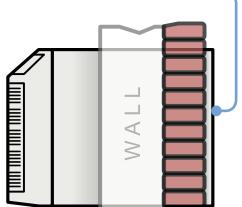
## WHEN SHOULD YOU INSTALL A SOLID SIDE SLEEVE?

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.

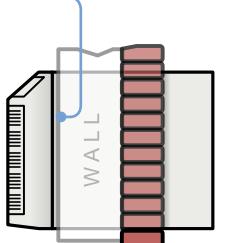
ROOM AIR CONDITIONER  
Blocked side vents restrict air flow.



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



Or with minimum intrusion into the room.



|                            |  | THRU-THE-WALL MODELS            |                                  |
|----------------------------|--|---------------------------------|----------------------------------|
|                            |  | WallMaster®                     | Uni-Fit®                         |
| OVERVIEW                   | Sleeve size  | Fits 27" sleeves                | Fits sleeves from 24 1/2" to 27" |
|                            | Applications   | RESIDENTIAL OR LIGHT COMMERCIAL | RESIDENTIAL OR LIGHT COMMERCIAL  |
| COMFORT & CONVENIENCE      | Perfect fit for Fedder's 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                           | 6-way                            |
|                            | Fan speeds   | 3                               | 3                                |
| SOUND REDUCTION TECHNOLOGY | Steel inner wall and extra dense insulation                  | Y                               | Steel inner wall                 |
|                            | Vibration-isolating design and components                    | Y                               | Y                                |
|                            | Superior airflow design                                      | Y                               | —                                |
| EARTH FRIENDLY             | ENERGY STAR® models  | Y                               | Y                                |
|                            | Environmentally friendly R-410A                              | Y                               | Y                                |
|                            | Energy saver switch  | Y                               | Y                                |
| HEALTH                     | Washable, antimicrobial air filter                           | Y                               | Y                                |
|                            | Stale air exhaust  | —                               | Y                                |
| SAFETY                     | EntryGard™ anti-intrusion protection                         | Y                               | —                                |
|                            | Insect barrier   | Y                               | —                                |
| INSTALLATION               | Slideout 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 UNITS IN TWO SIZES.

Upgrade your old inefficient units with Wallmaster® and Uni-Fit® thru-the-wall air conditioners.



### The best option for deep wall installations

Energy efficient solid-side air conditioners, heat pumps and electric heat models.

WallMaster® fits existing Fedders sleeves.

| Sleeve Dimensions | Friedrich WSE Sleeve | Fedders A Sleeve | Fedders B Sleeve* |
|-------------------|----------------------|------------------|-------------------|
| Height (inches)   | 16 3/4               | 16 3/4           | 16 3/4            |
| Width (inches)    | 27                   | 27               | 27                |
| Depth (inches)    | 16 3/4               | 16 3/4           | 19 3/4            |

Chassis requires WSE sleeve (sold and shipped separately)

\*Installation in Fedders B sleeve requires a baffle kit. See BAK accessory under accessories.



Uni-Fit® installs in many existing sleeves.

| Sleeve Dimensions | Friedrich USC Sleeve | Amana  | Carrier (51S Series) | Fedders/ Emerson/ Friedrich WSE | Emerson/ Fedders | GE/ Hot-point | Whirlpool    | White-Westinghouse/Frigidaire/ Carrier (52F Series) |
|-------------------|----------------------|--------|----------------------|---------------------------------|------------------|---------------|--------------|---|
| Height (inches)   | 15 1/2               | 15 5/8 | 16 7/8               | 16 3/4                          | 15 3/4           | 15 5/8        | 16 1/2       | 15 1/4  |
| Width (inches)    | 25 7/8               | 26     | 25 3/4               | 27                              | 26 3/4           | 26            | 25 7/8       | 25 1/2  |
| Depth (inches)    | 16 3/4               | 16 7/8 | 18 5/8               | 16 3/4 or 19 3/4                | 15               | 16 7/8        | 17 1/8 or 23 | 16, 17 1/2 or 22                                    |

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

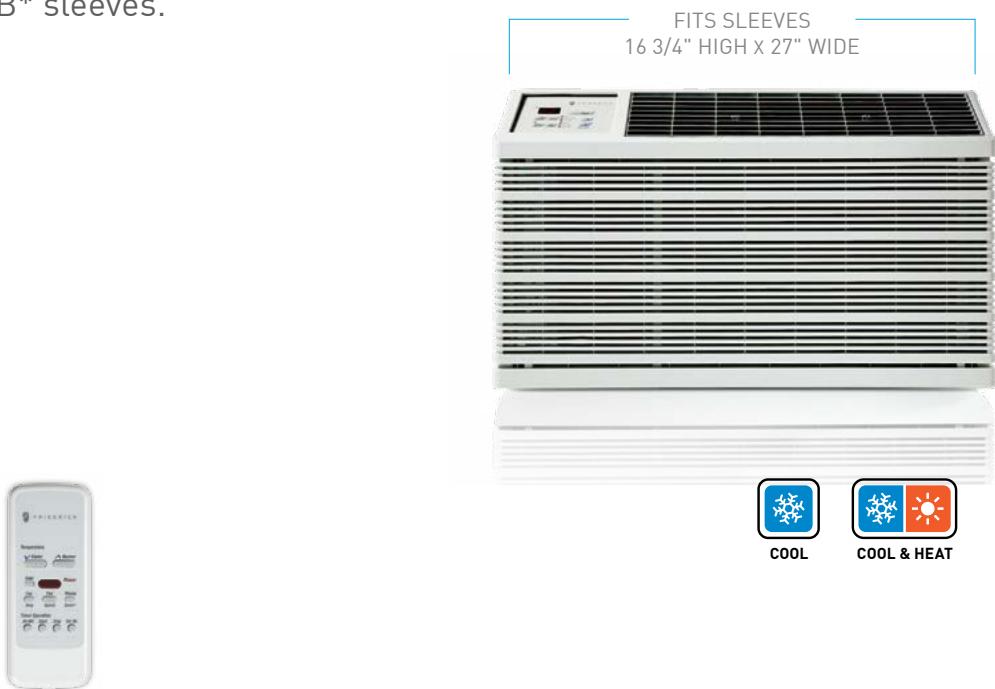


## Thru-the-wall Air Conditioners

### 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.



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

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

#### 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.



## 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



Rifled copper tubing



Sine wave lanced louvers

## 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

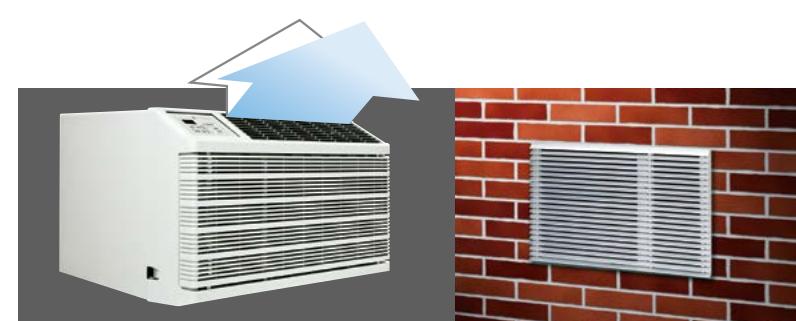
7500-9350 Btu  
**Up to 2.6 COP**

### 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



Angled air discharge for superior air distribution when the unit is installed low on a wall. Reversible louver for a second air flow option.

Sleeve can be installed flush with the exterior wall. Optional AG architectural grille shown.



## Thru-the-wall Air Conditioners

### 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 remodels.



FITS SLEEVES  
24 1/2", 26" AND 27" WIDE



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

#### USC 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



Inner weather panel



USC sleeve



Outer weather panel



Standard grille

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

## Uni-fit® Features

### Comfort & Convenience

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

### 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

### 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.

### 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

**Uni-Fit®**  
8000-13000 Btu  
**Up to 9.8 EER**

**Uni-Fit®**  
Electric Heat  
COOLING  
8000-11500 Btu  
**Up to 9.6 EER**  
ELECTRIC HEAT  
3850-11200 Btu

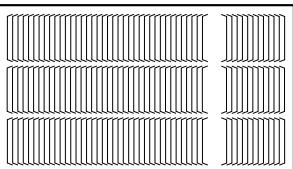
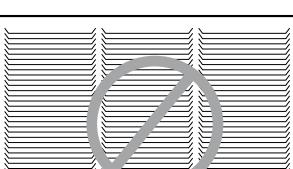


IMPORTANT: 1" gap on sides and 1/2" gap at top, which allows installation into varying sleeve sizes, can be covered by two-piece trim ring that fits over the chassis front. Trim ring comes standard with chassis.

**NEW!**  
Architectural grille for USC sleeve

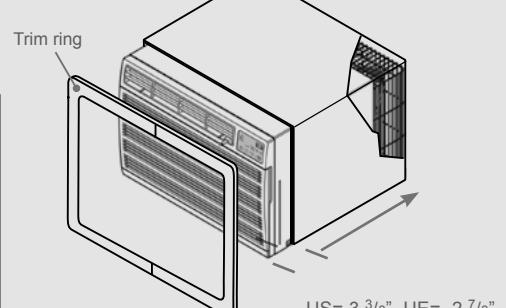


## Thru-the-wall Optional Accessories

| WallMaster® 27" Sleeve Exterior Grilles   |  |  |
|---|--|--|
|    |           |  |
| <b>WSE SLEEVE</b><br>Standard Grille<br>Premium, stamped steel grille with powder coat paint. Ships with sleeve. Galvanized steel inner and outer weather panels also ship with sleeve.   | <b>WSE SLEEVE</b><br>Optional Architectural Grille- AG<br>Premium brushed aluminum grille. |  |
| <b>IMPORTANT:</b><br>Operating the air conditioner with incorrect rear grille or without Baffle Adapter Kit [on 19 3/4" deep sleeve] will recirculate discharge air and cause compressor overload to trip.<br>This will cause the unit to shut down temporarily and may lead to premature compressor failure.   |  |  |
| <p><b>CORRECT</b> Vertical Louvers</p>  <p><b>INCORRECT</b> Horizontal Louvers</p>    |  |  |
| <b>Installation Accessories (27" sleeve models only)</b> <ul style="list-style-type: none"> <li>DK / Drain Kit<br/>Installed at the back of the unit and allows for attachment to condensate disposal system, if necessary or desired.</li> <li>IDK / Internal Drain Kit<br/>New construction applications where a condensate drain system has been built into the wall interior.</li> <li>BAK / Baffle Adapter Kit<br/>Necessary when installing in a sleeve deeper than 16 3/4" deep, such as Fedders B sleeve (19 3/4" deep).</li> </ul> |  |  |
|   |          |  |

| Uni-Fit® 26" Sleeve Exterior Grilles   |   |
|--|---|
|   |                                    |
| <b>STANDARD GRILLE</b> – Ships with USC sleeve<br>Expanded aluminum grille designed for use with USC sleeve.   | <b>REPLACEMENT GRILLE</b> – Ships with US/UE chassis<br>Black plastic for use on existing sleeves without any grille. |
| <b>IMPORTANT:</b><br>When installing into an existing sleeve, consult Installation Section of your Installation/Operation Manual to determine whether or not the grille needs to be replaced and/or a baffle adapter should be used. |   |

| Model              | Height  | Width   | Depth   | Depth with Front | Minimum Extension Into Room | Minimum Extension Outside | Thru-the-wall Finished Hole |         |            |
|--------------------|---------|---------|---------|------------------|-----------------------------|---------------------------|-----------------------------|---------|------------|
|                    |         |         |         |                  |                             |                           | Height                      | Width   | Max. Depth |
| <b>WallMaster®</b> |         |         |         |                  |                             |                           |                             |         |            |
| WSE Sleeve         | 16 3/4" | 27"     | 16 3/4" | 23"              | 7 1/2"                      | 9/16"                     | 17 1/4"                     | 27 1/4" | 15 5/16"   |
| Chassis            | 15 3/4" | 26 1/2" | 21"     | 22"              | -                           | -                         | -                           | -       | -          |
| <b>Uni-Fit®</b>    |         |         |         |                  |                             |                           |                             |         |            |
| USC Sleeve         | 15 1/2" | 25 7/8" | 16 3/4" | 20 1/2"          | -                           | 1/2"                      | 15 3/4"                     | 26 1/8" | 16 1/4"    |
| US Chassis         | 14 3/8" | 24"     | 18 1/2" | 20 1/8"          | 3 3/4"                      | -                         | -                           | -       | -          |
| UE Chassis         | 14 3/8" | 24 5/8" | 18"     | 19 5/8"          | 3 1/2"                      | -                         | -                           | -       | -          |



US = 3 3/8", UE = 2 7/8"

**IMPORTANT:**  
US chassis w/front fully installed into USC sleeve extends into room 3 3/8". UE chassis w/front fully installed into USC sleeve extends into room 2 7/8". 1" gap on sides and 1/2" gap at top can be covered by two-piece trim ring that fits over the chassis front

## Thru-the-wall Specifications

★ ENERGY STAR® models

| Model                          | Cooling Btu | Heating Btu | Volts Rated | Cooling Amps | Cooling Watts | Heating Amps | Heating Watts | Energy EER | Estimated Yearly Energy Cost | COP     | Moisture Removal Pints/HR | CFM | Sleeve Lbs. | Net Weight Lbs | Ship Weight Lbs |
|--------------------------------|-------------|-------------|-------------|--------------|---------------|--------------|---------------|------------|------------------------------|---------|---------------------------|-----|-------------|----------------|-----------------|
| <b>WALLMASTER®</b>             |             |             |             |              |               |              |               |            |                              |         |                           |     |             |                |                 |
| <i>Cool only</i>               |             |             |             |              |               |              |               |            |                              |         |                           |     |             |                |                 |
| ★ WS08C10D                     | 8000        | -           | 115         | 6.4          | 769           | -            | -             | 10.4       | \$69                         | -       | 1.2                       | 250 | WSE         | 93             | 97              |
| ★ WS10C10D                     | 9700        | -           | 115         | 8.2          | 990           | -            | -             | 9.8        | \$89                         | -       | 2.4                       | 260 | WSE         | 103            | 107             |
| ★ WS12C10D                     | 11500       | -           | 115         | 11.5         | 1174          | -            | -             | 9.8        | \$106                        | -       | 3.1                       | 295 | WSE         | 112            | 116             |
| ★ WS10C30D                     | 10000/9800  | -           | 230/208     | 4.5/4.9      | 1020/1000     | -            | -             | 9.8/9.8    | \$92                         | -       | 1.5                       | 260 | WSE         | 101            | 105             |
| ★ WS12C30D                     | 11500/11200 | -           | 230/208     | 5.5/6.0      | 1174/1143     | -            | -             | 9.8/9.8    | \$106                        | -       | 3.0                       | 290 | WSE         | 109            | 113             |
| WS16C30                        | 15600/15000 | -           | 230/208     | 8.3/8.9      | 1835/1765     | -            | -             | 8.5/8.5    | \$165                        | -       | 4.2                       | 290 | WSE         | 119            | 123             |
| <i>Heat Pump</i>               |             |             |             |              |               |              |               |            |                              |         |                           |     |             |                |                 |
| ★ WY09C33D                     | 9300/9000   | 7500/7500   | 230/208     | 4.3/4.6      | 949/918       | 3.9/4.1      | 833/833       | 9.8/9.8    | \$85                         | 2.6/2.6 | 2.1                       | 260 | WSE         | 103            | 107             |
| WY12C33                        | 12000/11800 | 9350/9200   | 230/208     | 6.1/6.4      | 1395/1372     | 4.8/5.1      | 1062/1010     | 8.6/8.6    | \$126                        | 2.5/2.6 | 2.6                       | 275 | WSE         | 111            | 115             |
| <i>Cool with Electric Heat</i> |             |             |             |              |               |              |               |            |                              |         |                           |     |             |                |                 |
| WE10C33D                       | 10000/9800  | 11000/9100  | 230/208     | 4.5/4.9      | 1020/1000     | 16.0/14.7    | 3550/2950     | 9.8/9.8    | \$92                         | -       | 1.5                       | 260 | WSE         | 104            | 108             |
| WE12C33D                       | 11500/11200 | 11000/9100  | 230/208     | 5.5/6.0      | 1174/1143     | 16.0/14.7    | 3550/2950     | 9.8/9.8    | \$106                        | -       | 3.0                       | 290 | WSE         | 107            | 111             |
| WE16C33                        | 15600/15000 | 11000/9100  | 230/208     | 8.3/8.9      | 1835/1765     | 16.0/14.7    | 3550/2950     | 8.5/8.5    | \$165                        | -       | 4.2                       | 290 | WSE         | 119            | 123             |
| <b>UNI-FIT®</b>                |             |             |             |              |               |              |               |            |                              |         |                           |     |             |                |                 |
| <i>Cool Only</i>               |             |             |             |              |               |              |               |            |                              |         |                           |     |             |                |                 |
| ★ US08D10B                     | 8000        | -           | 115         | 7.4          | 810           | -            | -             | 9.8        | \$73                         | -       | 2.2                       | 260 | USC         | 73             | 79              |
| ★ US10D10B                     | 9800        | -           | 115         | 9.2          | 1000          | -            | -             | 9.8        | \$90                         | -       | 3.2                       | 260 | USC         | 78             | 84              |
| ★ US12D10B                     | 11500       | -           | 115         | 10.7         | 1170          | -            | -             | 9.8        | \$106                        | -       | 3.8                       | TBD | USC         | 80             | 87              |
| ★ US10D30B                     | 10000/9800  | -           | 230/208     | 4.7/5.1      | 1020/1000     | -            | -             | 9.8/9.8    | \$92                         | -       | 3.2                       | 285 | USC         | 78             | 86              |
| ★ US12D30B                     | 11500/11200 | -           | 230/208     | 5.4/5.8      | 1170/1140     | -            | -             | 9.8/9.8    | \$106                        | -       | 3.8                       | 260 | USC         | 80             | 87              |
| US14D30B                       | 13000/12600 | -           | 230/208     | 7.0/7.5      | 1530/1480     | -            | -             | 8.5/8.5    | \$138                        | -       | 4.0                       | 310 | USC         | 87             | 94              |
| <i>Cool with Electric Heat</i> |             |             |             |              |               |              |               |            |                              |         |                           |     |             |                |                 |
| UE08D11B                       | 8000        | 3850        | 115         | 7.5          | 830           | 10.7         | 1230          | 9.6        | \$77                         | -       | 2.2                       | 260 | USC         | 73             | 79              |
| UE10D33B                       | 10000/9800  | 11200/9200  | 230/208     | 4.7/5.2      | 1060/1040     | 15.3/14.0    | 3500/2900     | 9.4/9.4    | \$96                         | -       | 3.2                       | 285 | USC         | 78             | 84              |
| UE12D33B                       | 11500/11200 | 11200/9200  | 230/208     | 5.6/6.0      | 1220/1190     | 15.3/14.0    | 3500/2900     | 9.4/9.4    | \$110                        | -       | 3.8                       | 290 | USC         | 80             | 87              |

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.

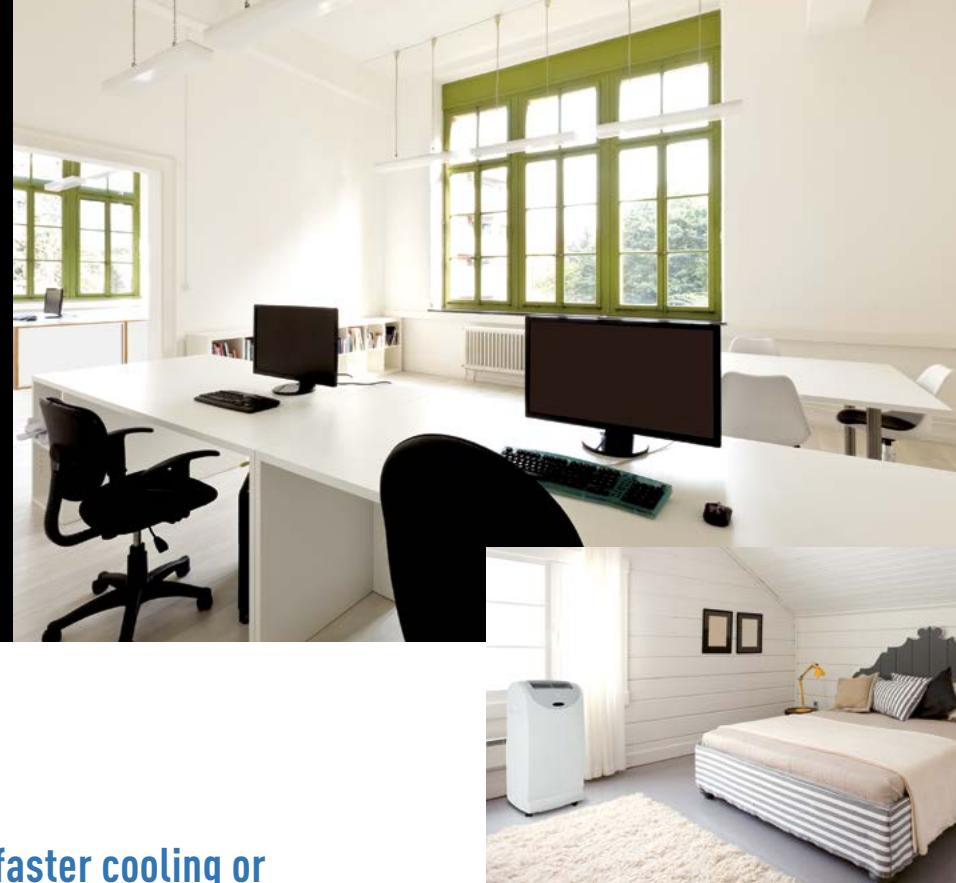
### WALLMASTER HEAT PUMP

HEATING PERFORMANCE: Change-over from heat pump operation to resistance operation on models indicated is automatic at a preset outside ambient temperature of approximately 35°F.

Calculate the heat loss of the space to be heated. As long as the heat loss does not exceed the resistance heating capacity rating of the unit, the heating performance will be satisfactory.

# FASTER COOLING & HIGHER ENERGY EFFICIENCY

Friedrich portables move easily from room-to-room to provide fast cooling and heating comfort.



**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.



COOL



COOL & HEAT

## Portable Air Conditioner and Heat Pump

### Comfort & Convenience

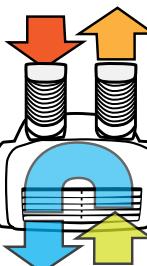
#### AIR CONDITIONER

- 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

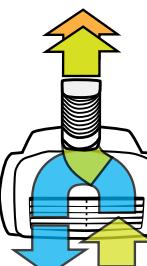
- 4-IN-1 SYSTEM: Air conditioner, heater, dehumidifier and fan
- Dual hoses for closed loop cooling and exhaust functions for up to 40% faster, more efficient cooling
- Built-in drain pump to remove condensate (drain hose included)
- Self-evaporative condensate system means no bucket to empty
- Condensate 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.



Use remote to select MODE, FAN SPEED, adjust TEMPERATURE and set the TIMER.



INSTALLS QUICKLY AND EASILY WITH THE INCLUDED WINDOW INSTALLATION KIT.

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 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

| Model                          | P09B      | P12B                     | PH14B     |
|--------------------------------|-----------|--------------------------|-----------|
| <b>PERFORMANCE</b>             |           |                          |           |
| 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       |
| <b>SPECIFICATIONS</b>          |           |                          |           |
| Refrigerant Type               | R-410A    |                          |           |
| Power Supply Volts             | 115       |                          |           |
| Rated Current Cooling Amps     | 10.8      | 11.5                     | 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     |
| Carton Dimensions (Inches)     | W x H x D | 20 7/8 x 43 1/8 x 16 3/4 |           |

Due to continuing research in new energy-saving technology, specifications are subject to change without notice.

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.

### 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.

| Model                   | Circuit Rating<br>Breaker or T-D<br>Fuse | Plug<br>Face<br>(NEMA#) | Wall Outlet<br>Appearance | Power<br>cord<br>length |
|-------------------------|--|-------------------------|---------------------------|-------------------------|
| P09B,<br>P12B,<br>PH14B | 125V - 15A                               | 5 - 15P                 |                           | 6 ft.                   |



## Hazardous Location Room Air Conditioners

UL LISTED FOR CLASS 1, DIVISION 2,  
GROUPS A, B, C AND D HAZARDOUS LOCATIONS.



### 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 135° C/275° F. (note: 50/60Hz model listed as T4A for surface temperatures to 120° C/248° F). Operates at low ambient conditions without freezing at outdoor ambient temperatures as low as 7° C/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

Class I, Div. 2, Group A and Group B  
Class I, Div. 2, Group B

Class I, Div. 2, Group C  
Class I, Div. 2, Group D

#### ARTICLE 505

Class I, Zone 2, Group IIC  
Class I, Zone 2, Group IIB plus hydrogen, or "+H2"

Class I, Zone 2, Group IIB  
Class I, Zone 2, Group IIA

Equipment is certified in accordance with ANSI/UL 484 and SASO 2681

#### 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
- Plant areas using strong solvents or chemicals
- Munitions plants or armories
- PVC or plastics plants and processing points
- Recycling plants
- Furniture refinishing/stripping workshops
- Fertilizer plants
- Office complexes where methane is a by-product
- Hazardous materials storage
- Container labs
- For analyzer houses/shelters



Friedrich air conditioners can be found in some of the world's toughest locations. Oil companies rely on us to cool offshore oil rigs in the most extreme conditions.



## 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-gauge, G60 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 6048 hrs. ASTM B-117 Salt Spray

#### ELECTROFIN MEETS THE FOLLOWING:

- MIL-C-46168 Chemical Agent Resistance -DS2, HCl Gas
- CID A-A-52474A (GSA)
- MIL-STD 810F, Method 509.4 (Sand and Dust)
- MIL-P-53084 (ME)-TACOM Approval
- MIL-DTL-12468 Decontamination Agent (STB)
- DPG (Douglas Proving Grounds) Soil & Water Exposure Tests
- GM9540P-97 Accelerated Corrosion Test (120 cycles)
- ASTM B117-G85 Modified Salt Spray (Fog) Testing-2,000 hours
- ASTM B117 Salt Spray (tested by ARL for Lockheed Martin)

### 5-stage ecoat



#### MODELS SH15M30A, SH20M30A, SH20M50A

- Diamondblue 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

**DIAMONDBLUE**  
Advanced Corrosion Protection®



## Specifications

| Model                    | Electrical Characteristics |             |           |               |         | Energy Efficiency Ratio | Moisture Removal Pints/HR | Air Direction Controls | Air Circulation CFM | Refrigerant |
|--------------------------|----------------------------|-------------|-----------|---------------|---------|-------------------------|---------------------------|------------------------|---------------------|-------------|
|                          | Cooling Capacity Btu/Hr.   | Volts Rated | Amps      | Cooling Watts | EER     |                         |                           |                        |                     |             |
| 60 HERTZ - NORTH AMERICA |                            |             |           |               |         |                         |                           |                        |                     |             |
| SH15M30A                 | 14500/14000                | 230/208     | 6.9/7.5   | 1495/1443     | 9.7/9.7 | 4.0                     | 8-way                     | 375                    | R-410A              |             |
| SH20M30A                 | 20000/19000                | 230/208     | 8.7/9.6   | 2125/2021     | 9.4/9.4 | 5.5                     | 8-way                     | 375                    | R-410A              |             |
| SH24M20                  | 24000/23700                | 230/208     | 12.6/13.5 | 2727/2788     | 8.8/8.5 | 8.0/7.5                 | 8-way                     | 385                    | R-401A              |             |
| 50 HERTZ - INTERNATIONAL |                            |             |           |               |         |                         |                           |                        |                     |             |
| SH20M50A                 | 19500/19100                | 240/220     | 9.8/10.3  | 2167/2156     | 9.0/9.0 | 5.6/5.5                 | 8-way                     | 425                    | R-410A              |             |
| SH24M20                  | 21000/20500                | 240/220     | 15.0/13.2 | 2600/2412     | 8.1/8.5 | 7.0/7.0                 | 8-way                     | 360                    | R-410A              |             |

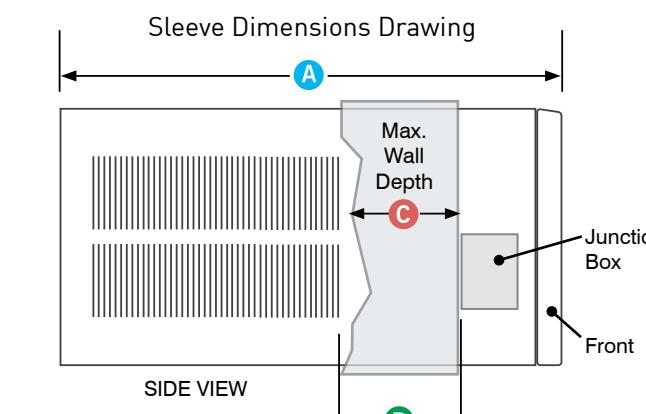
## Installation Information

| Model    | Dimensions INCHES |           |                    |                          |                             | Window Width INCHES       | In-Wall Installation Finished Hole INCHES |        |          | Circuit Rating Breaker or T - D Fuse | Weight Lbs. |                        |
|----------|-------------------|-----------|--------------------|--------------------------|-----------------------------|---------------------------|---|--------|----------|--------------------------------------|-------------|------------------------|
|          | Height            | Width     | Depth with Front A | Depth J Box to Louvers B | Minimum Extension Into Room | Minimum Extension Outside | Min. C                                    | Height | Width    | Max. Depth                           |             |                        |
| SH15M30A | 15 15/16"         | 25 15/16" | 27 3/8"            | 6"                       | 3 1/16"                     | 16 15/16"                 | 27 7/8"                                   | 42"    | 16 3/16" | 26 3/16"                             | 6"          | 250V-15 140 167        |
| SH20M30A | 17 15/16"         | 25 15/16" | 27 3/8"            | 6"                       | 3 1/16"                     | 16 15/16"                 | 27 7/8"                                   | 42"    | 18 3/16" | 26 3/16"                             | 6"          | 250V-15 (230V) 166 170 |
|          |                   |           |                    |                          |                             |                           |   |        |          |                                      |             | 250V-20 (208V)         |
| SH20M50A | 17 15/16"         | 25 15/16" | 27 3/8"            | 6"                       | 3 1/16"                     | 16 15/16"                 | 27 7/8"                                   | 42"    | 18 3/16" | 26 3/16"                             | 6"          | 250V-15 171 175        |
| SH24M20  | 17 15/16"         | 25 15/16" | 27 3/8"            | 6"                       | 3 1/16"                     | 16 15/16"                 | 27 7/8"                                   | 42"    | 18 3/16" | 26 3/16"                             | 6"          | 250V-30 180 185        |

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.



NOTE: Hazardgard unit must be hard-wired.





**FRIEDRICH**

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Friedrich Air Conditioning Co. | 10001 Reunion Place, Suite 500 | San Antonio, TX 78216 | 800.541.6645  
[www.friedrich.com](http://www.friedrich.com)