# THE EXPERTS
## IN ROOM AIR CONDITIONING

FRIEDRICH
1883

WINDOW
THRU-THE-WALL
PORTABLE
HAZARDOUS LOCATION

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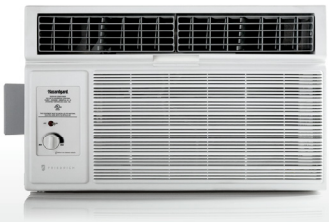


specifications 31

# 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 | — | — | — | — | — |
| DECORATOR COLORS | Y | — | — | — | — | — |
| **OPTIONAL FEATURES** | | | | | | |
| WI-FI CONTROL | Y* | — | — | — | — | — |
| CREATE CUSTOM SCHEDULES | Y* | — | — | — | — | — |
| GROUP UNITS FOR CENTRALIZED CONTROL | 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 | N |
| | 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 | — | — |
| | 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-intrustion 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

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.

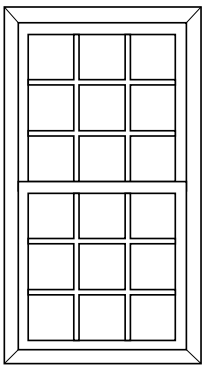
## Common Window Types

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.

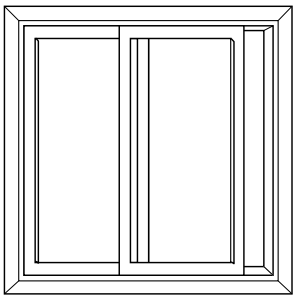
Depending on the style of window in the application, you may want to consider the cooling solutions in the adjacent chart. Professional installers may be able to make field adaptations, including removing all or part of a window to support alternative types of air conditioning units. Professional installers should also be able to tell you about any local codes that may apply to your installation.

THRU-THE-WALL INSTALLATION

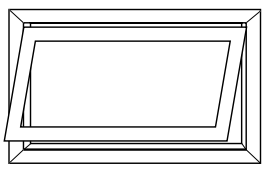
Many models may be installed through a wall so long as the unit's side vents are not blocked or covered in any way. See page 15, In-wall Installation max. depth.



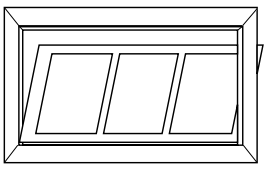
**Single/double hung**
(Opens up or down)



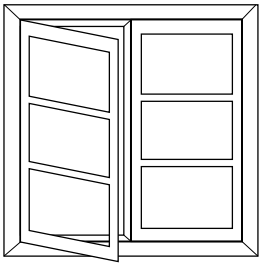
**Slider**
(Opens left to right, or right to left)



**Awning**
(Cranks out)



**Hopper**
(Opens in)



**Casement**
(Cranks out)

### 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 |

### 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

# KÜHL® IS COMMERCIAL GRADE

IT'S TOUGH, DURABLE, POWERFUL AND NOW IT'S WIRELESS.

## 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.

COMMERCIAL GRADE

Wi-Fi READY

Kühl® Series

## 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 CONSTRUCTION

# COLOR YOUR WORLD

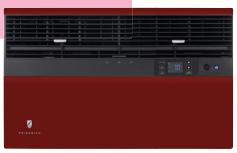
## With six Kühl colors.

Change your Kühl's appearance to complement your color scheme or to add a splash of color

Neutral Gray
(STANDARD)

Black Onyx

Pink Diamond



Deep Red

Classic Beige

Cobalt Blue

Designer White

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.

# KÜHL COLORS

# KÜHL® YOUR WORLD

## Whenever. Wherever.

Kühl is Wi-Fi enabled so you can control the comfort in your home from a smartphone, tablet or computer.

FriedrichLink™

WI-FI OPERATION (requires optional accessory sold separately)

Kühl units can be controlled remotely over a Wi-Fi network using FriedrichLink™ Wif-Fi Adapter Accessory.

A web-based control portal on Friedrich.com allows you to access units for monitoring or control.

Wi-Fi READY

With Kühl you can choose from simple ON/OFF operation of a single unit to advanced programming and scheduling.

### SIMPLE OPERATION

Turn the unit on, select 'MODE' and make simple up/down temperature adjustments either at the control panel or with included remote.

### BUILT-IN 7 DAY SCHEDULES

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.

### CUSTOM 7-DAY SCHEDULE (*requires optional accessory sold separately*)

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.

See http://friedrichlink.friedrich.com for more details.

## 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)

KÜHL CONTROL

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

COMMERCIAL GRADE

# Kühl® ULTRA PREMIUM LINE

**Experience the control and convenience of a central air conditioning system in ways you never thought possible.**

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

NEW smaller size

FITS WINDOWS FROM
22" TO 42" WIDE

Neutral Gray
(STANDARD)

COOL

COOL & HEAT

Kühl®
5400-9600 Btu
Up to 11.2 EER

Kühl®+
*Electric Heat*
COOLING
7600 Btu
Up to 10.5 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)

COOL

COOL & HEAT

Kühl®
7900-36000 Btu
Up to 11.2 EER

Kühl®+
*Electric Heat*
COOLING
7600-36000 Btu
Up to 10.9 EER
ELECTRIC HEAT
4000-17300 Btu

Kühl®+
*Heat Pump*
COOLING
9500-23500 Btu
Up to 10.5 EER
HEATING
8000-23500 Btu

# 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 (Kuhl+ 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

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

5YR. LIMITED WARRANTY

COMMERCIAL GRADE

ENERGY STAR

# KÜHL® ACCESSORIES

## FRIEDRICHLINK™ 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 | KWCFQ |
| SS, ES and YS | KWCFS |
| SM, EM and YM | KWCFM |
| SL, EL and YL | KWCFL |

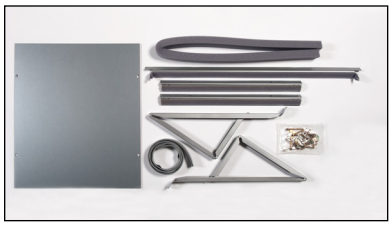
## WINDOW MOUNTING KITS: KÜHL+

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

| Heat/Cool Models | Kit No. |
|---|---|
| EQ08N11* | KWIKQ |
| ES12N33, ES16N33, YS10N10A and YS12N33. | KWIKS |
| EM18N34, EM24N34A and YM18N34. | KWIKM |
| EL36N35 and YL24N35. | KWIKL |

*EQ08N11 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 | | | | | |
|---|---|---|---|---|---|---|
| | Deep Red | Cobalt Blue | Classic Beige | Designer White | Black Onyx | Pink Diamond |
| Model | Kit No. | | | | | |
| SQ and EQ | KWREDQA | KWBLUQA | KWBGEQA | KWWHTQA | KWBLKQA | KWPNKQA |
| SS, ES and YS | KWREDSA | KWBLUSA | KWBGESA | KWWHTSA | KWBLKSA | KWPNKSA |
| SM, EM and YM | KWREDMA | KWBLUMA | KWBGEMA | KWWHTMA | KWBLKMA | KWPNKMA |
| SL, EL and YL | KWREDLA | KWBLULA | KWBGELA | KWWHTLA | KWBLKLA | KWPNKLA |

## DRAIN KIT

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

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

# CHILL™ SLEEK DESIGN

## And outstanding efficiency

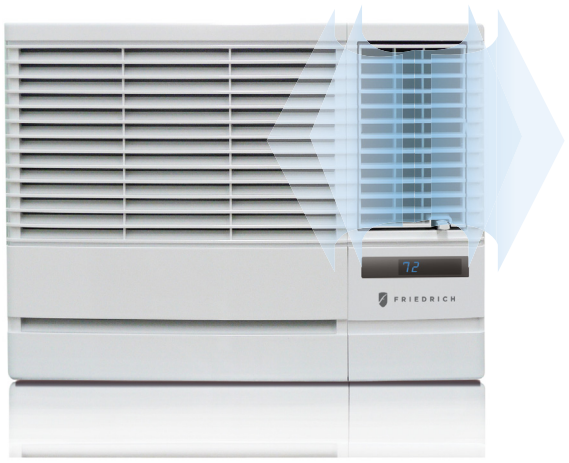
Available in a range of capacities with convenience features for carefree cooling and heating.

## CHILL™ SERIES 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

# WINDOW AIR CONDITIONERS

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

CP05

COOL

Chill™
5450 Btu
**10.7 EER**

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

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

COOL COOL & HEAT

Chill™
6000-23500 Btu
**Up to 10.8 EER**

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

ELECTRIC HEAT
3850-12000 Btu

## 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
- 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.

5YR. LIMITED WARRANTY

ENERGY STAR

# 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 Operating Cost | COP | Moisture Removal-Pints/HR | CFM | Sleeve | Net Wt. lbs. | Ship Wt. lbs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Kühl® | | | | | | | | | | | | | | | |
| ★ | SQ05N10 | 5400 | - | 115 | 4.9 | 482 | - | - | 11.2 | $39 | - | 0.5 | 190 | Q | 72 | 85 |
| ★ | SQ06N10 | 5800 | - | 115 | 4.9 | 527 | - | - | 11.0 | $42 | - | 0.5 | 190 | Q | 72 | 85 |
| ★ | SQ08N10 | 8000 | - | 115 | 6.6 | 741 | - | - | 10.8 | $59 | - | 1.2 | 240 | Q | 71 | 84 |
| | SQ10N10 | 9600 | - | 115 | 9.2 | 980 | - | - | 9.8 | $78 | - | 2.1 | 240 | Q | 71 | 84 |
| ★ | SS08N10A | 7900 | | 115 | 6.6 | 731 | | | 10.8 | $58 | - | 1.5 | 255 | S | 99 | 121 |
| ★ | SS10N10 | 9500 | - | 115 | 7.7 | 848 | - | - | 11.2 | $68 | - | 2.5 | 300 | S | 106 | 128 |
| ★ | SS12N10 | 12000 | - | 115 | 10 | 1111 | - | - | 10.8 | $89 | - | 3.0 | 300 | S | 112 | 134 |
| ★ | SS14N10A | 13500 | | 115 | 10.8 | 1250 | | | 10.8 | $100 | - | 4.0 | 275 | S | 116 | 133 |
| ★ | SS12N30 | 11500/11200 | - | 230/208 | 4.8/4.9 | 1055/1027 | - | - | 10.9/10.9 | $84 | - | 2.8 | 275 | S | 112 | 134 |
| ★ | SS16N30 | 15500/15200 | | 230/208 | 6.5/7.1 | 1449/1421 | | | 10.7/10.7 | $116 | - | 4.8 | 350 | S | 116 | 136 |
| ★ | SM15N10 | 14800 | | 115 | 12.0 | 1358 | | | 10.9 | $108 | - | 3.5 | 360 | M | 141 | 154 |
| ★ | SM18N30 | 17500/17200 | - | 230/208 | 7.4/8.0 | 1635/1607 | - | - | 10.7/10.7 | $131 | - | 4.6 | 350 | M | 140 | 161 |
| ★ | SM21N30 | 20500/20000 | - | 230/208 | 9.4/10.3 | 2181/2128 | - | - | 9.4/9.4 | $174 | - | 6.0 | 425 | M | 132 | 153 |
| | SM24N30A | 23500/23200 | | 230/208 | 12.7/13.6 | 2765/2730 | | | 8.5/8.5 | $221 | - | 7.1 | 430 | M | 152 | 173 |
| ★ | SL24N30 | 24000/23800 | - | 230/208 | 11.2/12.0 | 2553/2532 | - | - | 9.4/9.4 | $204 | - | 7.0 | 640 | L | 191 | 212 |
| ★ | SL28N30 | 27500/27000 | - | 230/208 | 13.5/14.4 | 2926/2872 | - | - | 9.4/9.4 | $234 | - | 8.5 | 640 | L | 193 | 214 |
| | SL36N30 | 36000/35700 | - | 230/208 | 19/20.5 | 4235/4200 | - | - | 8.5/8.5 | $338 | - | 12.0 | 725 | L | 212 | 233 |
| | Kühl® + (Heat Pump) | | | | | | | | | | | | | | | |
| ★ | YS10N10A* | 9500 | 8000 | 115 | 6.4 | 915 | 7.3 | 870 | 10.4 | $73 | 2.7 | 2.0 | 300 | S | 109 | 131 |
| ★ | YS12N33 | 11500/11300 | 9400/9000 | 230/208 | 5.2/5.4 | 1095/1076 | 5.6/5.8 | 1132/1139 | 10.5/10.5 | $87 | 2.4/2.3 | 3.0 | 375 | S | 115 | 136 |
| ★ | YM18N34 | 17900/17700 | 15500/15400 | 230/208 | 8.5/8.9 | 1808/1788 | 8.5/8.7 | 1833/1761 | 9.9/9.9 | $144 | 2.5/2.6 | 5.4 | 370 | M | 141 | 154 |
| ★ | YL24N35 | 23500/23000 | 23500/23200 | 230/208 | 11.1/12.0 | 2500/2447 | 12.2/14.3 | 2610/2575 | 9.4/9.4 | $199 | 2.6/2.6 | 7.0 | 600 | L | 197 | 211 |
| | Kühl®+ (Electric Heat) | | | | | | | | | | | | | | | |
| | EQ08N11 | 7600 | 4000 | 115 | 6.7 | 724 | 11.2 | 1290 | 10.5 | $58 | - | 1.9 | 175 | Q | 72 | 84 |
| | ES12N33 | 11500/11200 | 10700/8900 | 230/208 | 4.8/4.9 | 1055/1027 | 16.0/14.7 | 3500/2900 | 10.9/10.9 | $84 | - | 2.8 | 275 | 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 | $116 | - | 4.8 | 350 | S | 117 | 133 |
| | EM18N34 | 17500/17200 | 13000/10600 | 230/208 | 7.4/8.0 | 1635/1607 | 19.5/17 | 4200/3500 | 10.7/10.7 | $131 | - | 4.6 | 350 | M | 141 | 154 |
| | EM24N34A | 23500/23200 | 13000/10600 | 230/208 | 12.7/13.6 | 2765/2730 | 19.5/17 | 4200/3500 | 8.5/8.5 | $221 | - | 7.1 | 430 | M | 153 | 166 |
| | EL36N35 | 36000/35700 | 17300/14300 | 230/208 | 19/20.5 | 4235/4200 | 24.0/22.4 | 5500/4650 | 8.5/8.5 | $338 | - | 12.0 | 725 | L | 213 | 225 |
| | Chill™ (Cool Only) | | | | | | | | | | | | | | | |
| ★ | CP05G10 | 5450 | - | 115 | 4.8 | 500 | - | - | 10.7 | $41 | - | 1.5 | 140 | P1 | 46 | 50 |
| ★ | CP06G10 | 6000 | - | 115 | 5.1 | 560 | - | - | 10.7 | $45 | - | 1.8 | 200 | P6 | 60 | 66 |
| ★ | CP08G10 | 7800 | - | 115 | 6.8 | 720 | - | - | 10.8 | $58 | - | 2.2 | 250 | P6 | 64 | 70 |
| ★ | CP10G10 | 10000 | - | 115 | 8.5 | 920 | - | - | 10.8 | $74 | - | 3.0 | 300 | P7 | 81 | 87 |
| ★ | CP12G10 | 12000 | - | 115 | 10.2 | 1110 | - | - | 10.8 | $89 | - | 3.3 | 330 | P7 | 87 | 93 |
| ★ | CP15G10 | 15000 | - | 115 | 12.9 | 1400 | - | - | 10.7 | $112 | - | 4.0 | 400 | P8 | 120 | 134 |
| ★ | CP18G30 | 18000/17500 | - | 230/208 | 7.6/8.1 | 1680/1630 | - | - | 10.7/10.7 | $134 | - | 4.5 | 520 | P9 | 136 | 150 |
| ★ | CP24G30 | 23500/23000 | - | 230/208 | 11.4/12.4 | 2500/2450 | - | - | 9.4/9.4 | $200 | - | 6.8 | 590 | P9 | 146 | 160 |
| | Chill™+ (Electric Heat) | | | | | | | | | | | | | | | |
| | EP08G11 | 8000 | 3850 | 115 | 7.5 | 820 | 11.0 | 1260 | 9.8 | $65 | - | 2.6 | 265 | P7 | 79 | 85 |
| | EP12G33 | 12000/11500 | 11200/9200 | 230/208 | 5.5/5.8 | 1220/1170 | 15.3/14.0 | 3500/2900 | 9.8/9.8 | $98 | - | 3.3 | 265 | P7 | 87 | 93 |
| | EP18G33 | 18000/17500 | 12000/9800 | 230/208 | 8.3/9.0 | 1850/1800 | 15.0/16.0 | 3670/3100 | 9.7/9.7 | $148 | - | 5.5 | 430 | P9 | 136 | 150 |
| | EP24G33 | 23500/23000 | 12000/9800 | 230/208 | 12.2/13.2 | 2760/2700 | 15.0/16.0 | 3670/3100 | 8.5/8.5 | $221 | - | 6.5 | 560 | P9 | 146 | 160 |

* Operates on 115 volt and is not equipped with supplemental heat. Will not provide heat at temperatures below 40°F.
Friedrich room air conditioners are designed to operate in outdoor temperatures from 60° F to 115° F.

Kühl+ Heat Pump heating information (shown in red) indicates heat pump performance. Kühl+ and Chill+ Electric Heat heating information (shown in red) indicates electric heat strip performance. For Kühl+ Heat Pump electric heating performance refer to corresponding Kühl+ Electric Heat model.

As an ENERGY STAR® partner, Friedrich Air Conditioning Co. has determined that the selected ENERGY STAR® models meet the ENERGY STAR® guidelines for energy efficiency.

The consumer- through the AHAM Room Air Conditioner Certification Program- can be certain that the AHAM Certification Seal accurately states the unit's cooling and heating capacity rating, the amperes and the energy efficiency ratio.

Your operating costs will depend on your utility rates and use. The estimated operating cost is based on a electricity cost of $ .1065 per kWh. For more information, visit www.ftc.gov/energy.

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

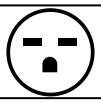
ENERGY STAR AHAM VERIFIDE c UL us LISTED

# INSTALLATION INFORMATION/SLEEVE DIMENSIONS

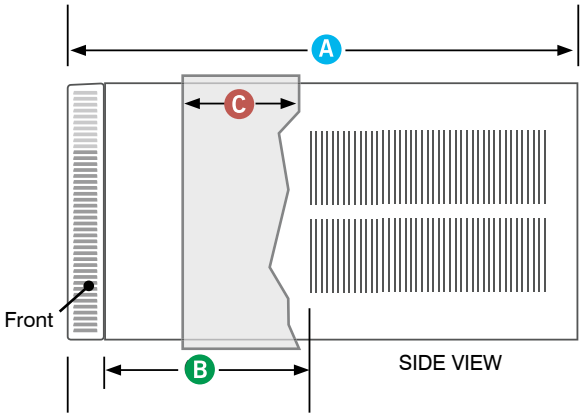
| Sleeve | Height INCHES | Width INCHES | Depth with Front INCHES (A) | Shell Depth to Louvers INCHES (B) | Minimum Extension Into Room* INCHES | Minimum Extension Outside * INCHES | Window Width INCHES Minimum** | Window Width INCHES Maximum | In-wall Installation Finished Hole INCHES Height | In-wall Installation Finished Hole INCHES Width | In-wall Installation Finished Hole INCHES Max. Depth (C) | Carton Dimensions INCHES Height | Carton Dimensions INCHES Width | Carton Dimensions INCHES Depth |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q | 14" | 19 3/4" | 21 3/8" | 8 1/2" | 5 1/2" | 10 3/4" | 22" | 42" | 14 1/4" | 20" | 8 1/2" | 18 3/4" | 25 1/2" | 22 3/4" |
| P1† | 12" | 18 1/2" | 15" | 5" | 3 1/2" | 10 3/4" | 20 1/8" | 36" | NOT FOR THRU-WALL | | | 15 1/4" | 22 1/4" | 17 1/2" |
| P6 | 14" | 18 3/8" | 20 7/8" | 8 1/8" | 4 1/2" | 11" | 20 1/8" | 36" | 14 1/8" | 18 7/8" | 7 1/2" | 17 7/8" | 22 3/4" | 22" |
| P7 | 15" | 23 5/8" | 21 3/4" | 8 3/4" | 4 1/2" | 12" | 25 1/4" | 39" | 15 1/4" | 23 7/8" | 8" | 18 3/4" | 26 3/4" | 23 7/8" |
| P8 | 16 7/8" | 26" | 26 7/8" | 10 1/4" | 5 1/2" | 16 5/8" | 26 1/2" | 42" | 17 1/8" | 26 1/4" | 9 " | 21 1/2" | 29 1/2" | 29" |
| P9 | 16 7/8" | 26" | 30 3/8" | 10 1/4" | 5 1/2" | 19 1/2" | 26 1/2" | 42" | 17 1/8" | 26 1/4" | 9 " | 21 1/2" | 33" | 28 7/8" |
| S | 15 15/16" | 25 15/16" | 29" | 8 3/4" | 5 3/4" | 16 15/16" | 27 3/8" | 42" | 16 3/16" | 26 3/16" | 7 3/8" | 19" | 34 1/2" | 29" |
| M | 17 15/16" | 25 15/16" | 29" | 8 3/4" | 5 3/4" | 16 15/16" | 27 3/8" | 42" | 18 3/16" | 26 3/16" | 7 3/8" | 21" | 34 1/2" | 29" |
| L | 20 3/16" | 28" | 35 1/2" | 16 1/2" | 5 3/8" | 18 15/16" | 29 7/8" | 42" | 20 3/8" | 28 1/4" | 15 1/8" | 24 1/2" | 38 7/8" | 31 5/8" |

* Minimum extensions when mounted in a window.
** Minimum widths achieved using one side curtain assembly as opposed to both in a standard installation.
† Sleeve P1 does not have In-wall hole dimensions, as these units are fixed chassis and should not be installed In-wall.
NOTE: S,M and L sleeves may be installed in window with no side kits if properly installed.

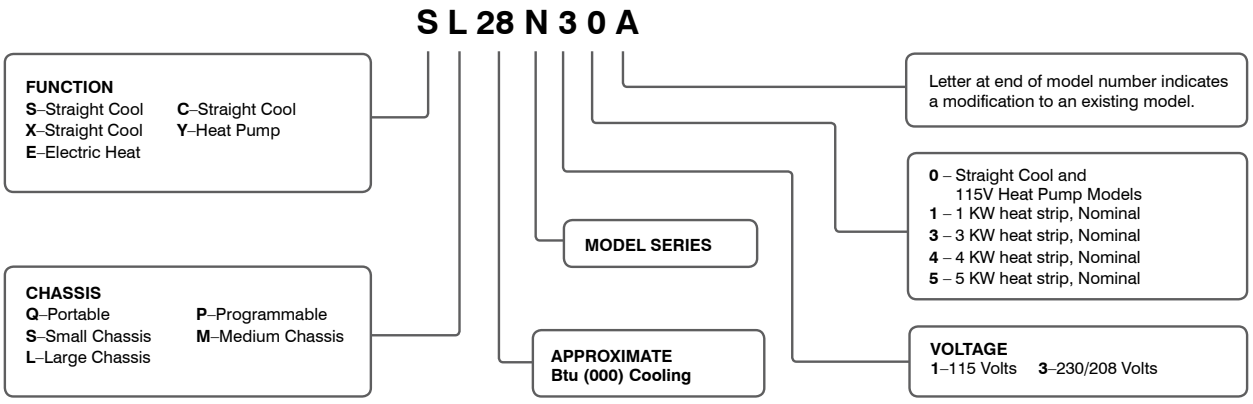
## Circuit Rating/ Breaker

| Model | Circuit Rating Breaker or T-D Fuse | Plug Face (NEMA#) | Power Cord Length (ft.) | Wall Outlet Appearance |
|---|---|---|---|---|
| CP05 | 125V - 15A | 5 - 15P | 6 1/2 | |
| CP06G10, CP08G10, CP10G10, CP12G10 and CP15G10. EP08G11. All SQ MODELS. EQ08N11. SS08N10A, SS10N10, SS12N10 and SS14N10A. YS10N10A. | | | 6 | |
| CP18G30 | 250V - 15A | 6 - 15P | 4 | |
| SS12N30, SS16N30, SM16N10, SM18N30 and SM21N30. | | | 4 1/2 | |
| | | | 6 | |
| CP24G30. EP12G33, EP18G33, EP24G33 | 250V - 20A | 6 - 20P | 4 | |
| SM24N30A. SL24N30 and SL28N30. ES12N33 and ES16N33. YS12N33. | | | 6 | |
| SL36N30. EM18N34, EM24N34A and EL36N35. YM18N34 and YL24N35. | 250V - 30A | 6 - 30P | 6 |  |

Sleeve Dimensions Drawing



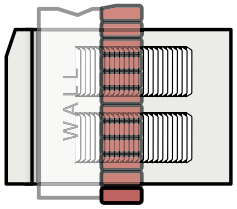

## Room Air Conditioner Model Identification Guide



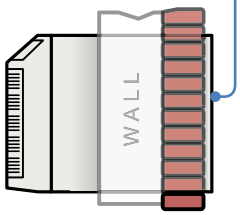
# When should you install a solid side sleeve?

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

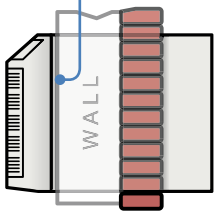
ROOM AIR CONDITIONER
Blocked side vents restrict air flow




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 26" sleeves and sleeves as small as 24 1/2" |
| | 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. | 12 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-intrustion 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' sleeve | Y | — |
| | Condensate drain kit | Y | — |

# THRU-THE-WALL UNITS IN TWO SIZES.

## Fit many competitor's  sleeves

Upgrade your old inefficient units with Friedrich 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®

Uni-Fit®

COMMERCIAL GRADE

# 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.

FITS SLEEVES
16 3/4" HIGH X 27" WIDE

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

## WallMaster®

7800-15600 Btu
**Up to 9.9 EER**

## WallMaster® *Electric Heat*

COOLING
9500-15600 Btu
**Up to 9.6 EER**

ELECTRIC HEAT
9100-11000 Btu

## WallMaster® *Heat Pump*

COOLING
9300-12000 Btu
**Up to 9.4 EER**

HEATING
7300-9350 Btu

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

## WSD 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.

WSD 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 Management and Compliance

- 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

## 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

## Safety & Security

- EntryGard™ anti-intrusion protection secures chassis to sleeve to deter 'kick-in' intrusion
- Power cord current leakage protected
- Insect barrier

## Maintenance and 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

## Accessories

- WSD sleeve, ships with inside and outside weather panel and standard grille
- AG architectural grille for use with WSD 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

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.

## WallMaster® fits existing Fedders sleeves.

| Sleeve Dimensions | Friedrich WSD 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 WSD sleeve (sold and shipped separately)
*Installation in Fedders B sleeve requires a baffle kit. See BAK accessory under accessories.

# 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, adjust TEMPERATURE and set the TIMER.

COOL

COOL & HEAT

## Uni-Fit®
8000-13000 Btu
**Up to 9.6 EER**

## Uni-Fit® *Electric Heat*
COOLING
8000-11500 Btu
**Up to 9.6 EER**

ELECTRIC HEAT
3850-11200 Btu

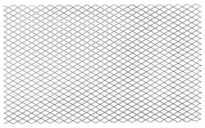
## USC wall sleeve ships with weather panels and grille.

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 and Compliance

- 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

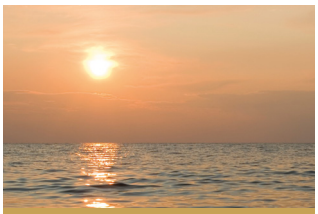
- Rotary compressors provide quiet, dependable performance
- Seacoast protection for corrosion resistance in harsh environments

## Installation and Maintenance Features

- Universal fit trim ring
- Chassis designed to fit 24 ½" 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



Seacoast protection for corrosion resistance in harsh environments

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.

## Uni-Fit® installs in many existing sleeves.

| Sleeve Dimensions | Friedrich USC Sleeve | Amana | Carrier (51S Series) | Fedders/ Emerson/ Friedrich WSD | Emer-son/ 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 OPTIONAL ACCESSORIES

## WallMaster® 27" Sleeve Exterior Grilles

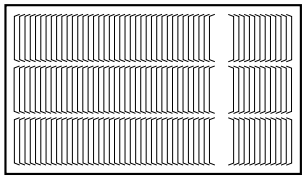
WSD SLEEVE
Standard Grille
Premium, stamped galvanized steel grille with powder coat paint. Ships with sleeve. Galvanized steel inner and outer weather panels also ship with sleeve.

WSD SLEEVE
Optional Architectural Grille- AG
Premium brushed aluminum grille.

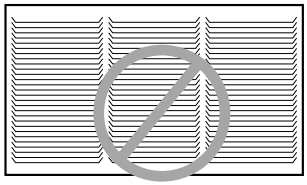
**IMPORTANT:**
Operating the air conditioner with incorrect rear grille or without Baffle Adapter Kit (on 19 3/4" deep sleeve) will recirculate discharge air and cause compressor overload to trip.

This will cause the unit to shut down temporarily and may lead to premature compressor failure.

CORRECT Vertical Louvers



INCORRECT Horizontal Louvers



## Installation Accessories (27" sleeve models only)

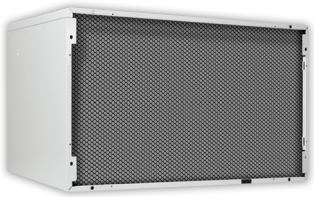
DK / Drain Kit
Installed at the back of the unit and allows for attachment to condensate disposal system, if necessary or desired.

IDK / Internal Drain Kit
New construction applications where a condensate drain system has been built into the wall interior.

BAK / Baffle Adapter Kit
Necessary when installing in a sleeve deeper than 16 3/4" deep, such as Fedders B sleeve (19 3/4" deep).

## Uni-Fit® 26" Sleeve Exterior Grilles

USC Sleeve Standard Grille



Sleeve shown with Replacement Grille

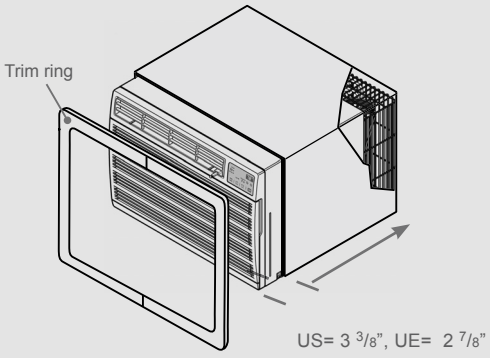
STANDARD GRILLE – Ships with USC sleeve
Expanded aluminum grille designed for use with USC sleeve.

REPLACEMENT GRILLE – Ships with US/UE chassis
Black plastic for use on existing sleeves without any grille.

**IMPORTANT:**
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.

## Sleeve/Chassis Dimensions

| Model | Height | Width | Depth | Depth with Front | Minimum Extension Into Room | Minimum Extension Outside | Thru-the-wall Finished Hole Height | Thru-the-wall Finished Hole Width | Thru-the-wall Finished Hole Max. Depth |
|---|---|---|---|---|---|---|---|---|---|
| **WallMaster®** | | | | | | | | | |
| WSD 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" | – | – | – | – | – |
| **Uni-Fit®** | | | | | | | | | |
| 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" | – | – | – | – |




**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 Efficiency Ratio EER | Estimated Yearly Operating Cost | Moisture Removal Pints/HR | CFM | Sleeve | Net Weight Lbs. | Ship Weight Lbs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **WALLMASTER®** | | | | | | | | | | | | | | |
| | ***Cool only*** | | | | | | | | | | | | | | |
| ★ | WS08C10 | 7800 | NA | 115 | 7.1 | 788 | NA | NA | 9.9 | † | 1.2 | 250 | WSD | 93 | 97 |
| ★ | WS10C10 | 9700 | NA | 115 | 10.0 | 1032 | NA | NA | 9.4 | $82 | 2.4 | 260 | WSD | 103 | 107 |
| ★ | WS12C10C | 11500 | NA | 115 | 11.5 | 1223 | NA | NA | 9.4 | $98 | 3.1 | 320 | WSD | 112 | 116 |
| ★ | WS10C30 | 9500/9200 | NA | 230/208 | 4.5/4.7 | 989/958 | NA | NA | 9.6/9.6 | $79 | 1.5 | 300 | WSD | 101 | 105 |
| ★ | WS12C30 | 11500/11200 | NA | 230/208 | 5.5/6.0 | 1223/1191 | NA | NA | 9.4/9.4 | $98 | 3.0 | 320 | WSD | 109 | 113 |
| | WS16C30 | 15600/15000 | NA | 230/208 | 8.3/8.9 | 1835/1765 | NA | NA | 8.5/8.5 | $144 | 4.2 | 290 | WSD | 119 | 123 |
| | ***Heat Pump*** | | | | | | | | | | | | | | |
| ★ | WY09C33 | 9300/9000 | 7300/7300 | 230/208 | 4.4/4.7 | 989/957 | 3.8/4.0 | 839/793 | 9.4/9.4 | $79 | 2.1 | 250 | WSD | 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 | $111 | 2.6 | 275 | WSD | 111 | 115 |
| | ***Cool with Electric Heat*** | | | | | | | | | | | | | | |
| | WE10C33 | 9500/9200 | 11000/9100 | 230/208 | 4.5/4.7 | 989/957 | 16.0/14.7 | 3550/2950 | 9.6/9.6 | $79 | 1.5 | 300 | WSD | 121 | 125 |
| | WE12C33 | 11500/11200 | 11000/9100 | 230/208 | 5.5/6.0 | 1123/1191 | 16.0/14.7 | 3550/2950 | 9.4/9.4 | $98 | 3.0 | 320 | WSD | 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 | $140 | 4.2 | 290 | WSD | 116 | 120 |
| | **UNI-FIT®** | | | | | | | | | | | | | | |
| | ***Cool Only*** | | | | | | | | | | | | | | |
| ★ | US08D10 | 8000 | - | 115 | 7.5 | 830 | - | - | 9.6 | $66 | 2.2 | 260 | USC | 73 | 79 |
| ★ | US10D10 | 9800 | - | 115 | 9.6 | 1040 | - | - | 9.4 | $83 | 3.2 | 285 | USC | 78 | 84 |
| ★ | US12D10 | 11500 | - | 115 | 11.2 | 1220 | - | - | 9.4 | $97 | 3.8 | 290 | USC | 80 | 87 |
| ★ | US10D30A | 10000/9800 | - | 230/208 | 4.7/5.2 | 1060/1040 | - | - | 9.4/9.4 | $85 | 3.2 | 285 | USC | 78 | 84 |
| ★ | US12D30 | 11500/11200 | - | 230/208 | 5.6/6.0 | 1220/1190 | - | - | 9.4/9.4 | $97 | 3.8 | 290 | USC | 80 | 87 |
| | US14D30A | 13000/12600 | - | 230/208 | 7.0/7.5 | 1520/1480 | - | - | 8.5/8.5 | $121 | 4.0 | 310 | USC | 94 | 97 |
| | ***Cool with Electric Heat*** | | | | | | | | | | | | | | |
| | UE08D11 | 8000 | 3850 | 115 | 7.5 | 830 | 10.7 | 1230 | 9.6 | $66 | 2.2 | 260 | USC | 73 | 79 |
| | UE10D33 | 10000/9800 | 11200/9200 | 230/208 | 4.7/5.2 | 1060/1040 | 15.3/14.0 | 3500/2900 | 9.4/9.4 | $85 | 3.2 | 285 | USC | 78 | 84 |
| | UE12D33 | 11500/11200 | 11200/9200 | 230/208 | 5.6/6.0 | 1220/1190 | 15.3/14.0 | 3500/2900 | 9.4/9.4 | $97 | 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.

Note: all models will produce condensate. If condensate disposal is desired, an optional drain kit is available.

DEFROST CONTROL: Initiated at 30°F (outdoor coil temperature) and terminated at 43°F (outdoor coil temperature). During defrost, the compressor stops and the electric heat starts, then operates with the fan to maintain indoor comfort. Below 43°F, the unit remains in electric heat mode.

DEFROST DRAIN: Drain automatically opens at approximately 50°F to prevent condensate from freezing inside drain pan.

## Plug Face/ Circuit Rating

| WallMaster® Model Number | Uni-Fit® Model Number | Circuit Rating Breaker or T-D Fuse | Plug Face (NEMA#) | Power Cord Length (ft.) | Wall Outlet Appearance |
|---|---|---|---|---|---|
| WS08C10, WS10C10, WS12C10C | US08D10, UE08D11 US10D10, US12D10 | 125V - 15A | 5 - 15P | 6 | |
| WS10C30, WS12C30, WS16C30 | US10D30A, US12D30, US14D30A | 250V - 15A | 6 - 15P | 4 | |
| WE10C33, WE13C33, WE16C33, WY09C33, WY12C33 | UE10D33, UE12D33 | 250V - 20A | 6 - 20P | 4 | |

Power cords are located on front left of WallMaster models and on front right of Uni-Fit models.

| Model | Carton Dimensions INCHES Height | Width | Depth |
|---|---|---|---|
| **WallMaster®** | | | |
| WSD Sleeve | 18" | 27 1/4" | 18" |
| Chassis | 15 3/4" | 26 1/2" | 21" |
| **Uni-Fit®** | | | |
| USC Sleeve | 17 7/8" | 28" | 19 1/4" |
| US Chassis | 17 1/4" | 27" | 22 1/4" |
| UE Chassis | 17" | 27 1/4" | 22" |

Due to continuing research in new energy-saving technology, specifications are subject to change without notice.
As an ENERGY STAR® partner, Friedrich Air Conditioning Co. has determined that the selected ENERGY STAR® models meet the ENERGY STAR® guidelines for energy efficiency.
Your operating costs will depend on your utility rates and use. The estimated operating cost is based on a electricity cost of $ .1065 per kWh. For more information, visit www.ftc.gov/energy.
† The estimated yearly operating cost of this model was not available at the time the range was published.

# FASTER COOLING & HIGHER EFFICIENCY

## With dual hose design

Portable unit moves easily from room-to-room to provide fast cooling and heating comfort.

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

## DUAL-HOSE DESIGN
## FOR UP TO 40% FASTER COOLING OR HEATING AND INCREASED EFFICIENCY

Self-evaporative condensate system, so there's no bucket to empty.

Removes up to 72 pts./ day when used as a dehumidifier.

AIR CONDITIONER
3-in-1 system:
Air conditioner, dehumidifier and fan.

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

HEAT PUMP
4-in-1 system:
Air conditioner, heater, dehumidifier and fan.

COOL COOL & HEAT

ZoneAire®

*Air Conditioners*
COOLING
9300 and 11600 Btu
**Up to 9.4 EER**

*Heat pump*
COOLING
13500 Btu

HEATING
10700 Btu
**9.5 EER**

## Comfort & Convenience

### HEAT PUMP

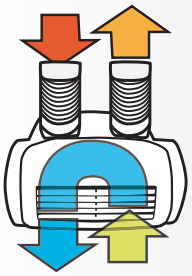
- 4-IN-1 SYSTEM: Air conditioner, heater, dehumidifier and fan
- Dual hoses for closed loop cooling and exhaust functions for up to 40% faster, more efficient cooling
- Built-in drain pump to remove condensate (drain hose included)
- Self-evaporative condensate system means no bucket to empty
- Condensate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

### 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

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

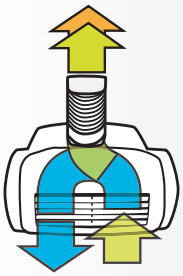
### Superior dual-hose design



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.

INSTALLS QUICKLY AND EASILY WITH THE INCLUDED WINDOW INSTALLATION KIT.

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.

## 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

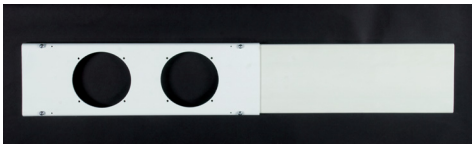
## Installation Features

- 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

## 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 | | 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 | 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 | 78/95 |
| Carton Dimensions (Inches) | W x H x D | 20 7/8 x 43 1/8 x 16 3/4 | | |

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

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

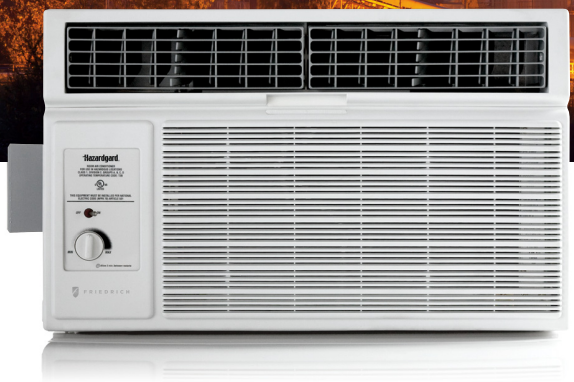
NOTE: Air conditioners will provide cooling at outdoor temperatures down to 41° F and heat pumps will provide heating at outdoor temperatures down to 14° F with single hose installation.

c UL us LISTED

R-401A OZONE FRIENDLY REFRIGERANT

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

# IEC CERTIFIED FOR CLASS 1, ZONE 2, GROUPS IIA, IIB AND IIC HAZARDOUS LOCATIONS.



c UL us LISTED

**Hazardgard®**
60 Hertz
North America
14500 & 20000 Btu
**Up to 9.7 EER**

**Hazardgard®**
50 Hertz
International
19500 Btu
**9.0 EER**

**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.**

T4 temperature classification, unit surface temperatures will not rise above 135° C/275° 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 70-10 (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 |

For more than 30 years, Hazardgard has endured some of the toughest and most unforgiving operating conditions imaginable. Time-tested in the field where it counts, Hazardgard is trusted by professionals who have to get the job done.

Robust engineering with design details like 33% thicker fins extend the life of the coil.

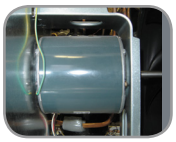
Diamonblue™ advanced corrosion protection on the outdoor coil provides added endurance and protection in coastal or corrosive environments.

Totally enclosed, heavy-duty motors have a hermetically sealed overload for arc-free operation.

# FEATURES

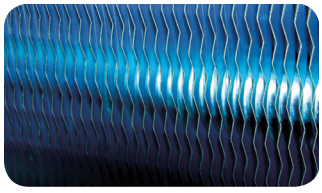
- Permanent split capacitor
- Hermetically sealed refrigeration system
- Environmentally sealed on/off switch and gold plated contacts in thermostat for corrosion resistance.
- Solid-state control relays for compressor and fan operation.
- Hot gas bypass allows the air conditioner to operate at low ambient conditions without freezing at outdoor ambient temperatures as low as 45° F.
- Hermetically sealed reciprocating compressor is cooled during the refrigeration cycle, which allows the unit to tolerate higher outdoor temperatures up to 130° F.
- 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 direct-wired, 15-amp circuit with time-delay fuse that will tolerate current surge without tripping the breaker.



- 20-gauge steel is used in order to create a more robust air conditioner cabinet that will withstand years of hard use.
- Diamonblue advanced corrosion protection provides added endurance and protection in coastal or corrosive environments.
- T4 temperature classification

DIAMONBLUE™
Advanced Corrosion Protection



# 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

# SPECIFICATIONS

## Specifications

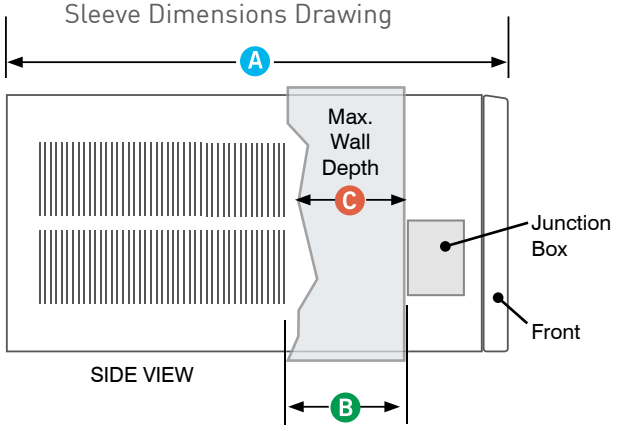
| Model | Cooling Capacity Btu | Electrical Characteristics Volts Rated | Cooling Amps | Cooling Watts | Energy Efficiency Ratio EER | Moisture Removal Pints/ HR | Air Direction Controls | CFM | Refrigerant |
|---|---|---|---|---|---|---|---|---|---|
| | 60 HERTZ - NORTH AMERICA | | | | | | | | |
| SH15M30A | 14500/14000 | 230/208 | 6.9/7.5 | 1495/1443 | 9.7/9.7 | 6.0 | 8-way | 375 | R-410A |
| SH20M30A | 20000/19000 | 230/208 | 8.7/9.6 | 2125/2021 | 9.4/9.4 | 4.0 | 8-way | 375 | R-410A |
| | 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 |

## Installation Information

| Model | Dimensions INCHES Height | Width | Depth with Front (A) | Depth J Box to Louvers (B) | Minimum Extension Into Room | Minimum Extension Outside | Window Width INCHES Min. | Max. | In-Wall Installation Finished Hole INCHES Height | Width | Max. Depth (C) | Circuit Rating Breaker or T - D Fuse Volts - Amps | Weight Lbs. Net | Shipping |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 - 15A | 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 - 15A | 166 | 170 |
| 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 - 15A | 171 | 175 |

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. MAXIMUM TEMPERATURE RATING FOR CLASS I, DIVISION 2, GROUPS A,B,C,D.

Sleeve Dimensions Drawing




NOTE: Hazardgard unit must be hard-wired.

c UL us LISTED

Friedrich is a partner in the ENERGY STAR® program which promotes the conservation of energy and the protection of the environment through the purchase of high efficiency appliances.

FRIEDRICH

Friedrich Air Conditioning Co. | 10001 Reunion Place, Suite 500 | San Antonio, TX 78216 | 800.541.6645 | www.friedrich.com