

ROOM AIR CONDITIONERS

COMMERCIAL GRADE | RESIDENTIAL GRADE



F R I E D R I C H

1 8 8 3

LEADING
TECHNOLOGY

RUGGED
DURABILITY

ENERGY
SMART



ROOM 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 C	HEAT/COOL H C	COOL C	HEAT/COOL H C
	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	—	—
	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	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	—	—
	Superior fresh air intake/stale air exhaust	Y	Y	Stale air exhaust only, all except CP05	Stale air exhaust only
SAFETY	EntryGard™ anti-intrusion protection	Y	Y	Y	Y
	Insect barrier	Y	Y	—	—
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

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.

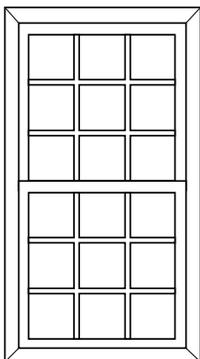
Common Window Types

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.

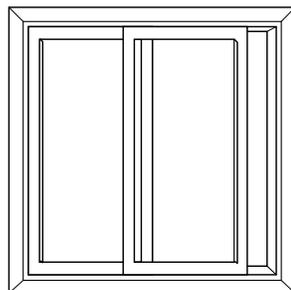
Depending on the style of window in the application, you may want to consider the cooling solutions in the adjacent chart. Professional installers may be able to make field adaptations, including removing all or part of a window to support alternative types of air conditioning units. Professional installers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

THRU-THE-WALL INSTALLATION

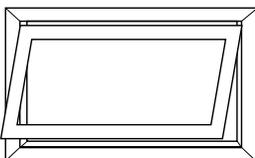
Many models may be installed through a wall so long as the unit's side vents are not blocked or covered in any way. See page 15, In-wall Installation max. depth.



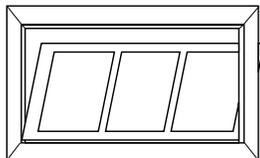
Single/double hung
(Opens up or down)



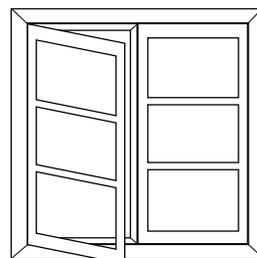
Slider
(Opens left to right, or right to left)



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

Cooling Solutions

WHICH AIR CONDITIONER
IS RIGHT FOR YOU?

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

COMMERCIAL GRADE ROOM CONDITIONERS



Kühl® Series



KÜHL
DURABILITY

KÜHL
TECHNOLOGY

KÜHL
CONTROL

QUALITY CONSTRUCTION

The **HIGHEST GRADE MATERIALS** are used to build a product that will perform reliably season after season.

20 GAUGE STEEL cabinet will withstand years of hard use.

SOLID SLEEVE TOP* keeps out falling debris, which can obstruct the fan and prevent it from turning, thus damaging the unit.

VIBRATION AND NOISE ISOLATING TECHNOLOGY

Like two resilient rings on motor mount, preventing metal-to-metal contact, that causes vibration and noise.

SOLID STEEL BLOWER WHEEL HOUSING

Constructed from solid steel for maximum sound reduction.

SCIENTIFIC REFRIGERATION DESIGN

For quieter performance.

* Feature not on Kühl SQ and EQ models

RIFLED COPPER TUBING with greater surface area for heat exchange, increases the efficiency of the coils, and improves the overall energy efficiency of the unit.

INSULATED PLENUM prevents outside air intrusion.

ENTRYGARD™ ANTI-INTRUSION PROTECTION

Steel retaining wire secures chassis to the sleeve to deter 'kick-in' intrusion.

FIRM GRIP HANDLES make grasping the chassis much easier during installation and removal.



ALUMINUM REAR GRILLE

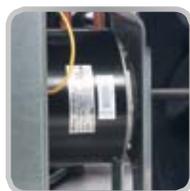
protects the unit from damage and vandalism. No one else offers this feature.

SUPERIOR COMPONENTS

What makes Friedrich Kühl ultra premium?

Superior components like **ROBUST, COMMERCIAL GRADE FAN MOTORS** that run at a lower temperature than smaller fan motors prevent the unit from overheating and contribute to a longer life. **FAN MOTORS ARE ALSO TOTALLY ENCLOSED** for maximum protection and longer life.

HIGH EFFICIENCY COMPRESSORS mounted on **LARGE, VIBRATION-ABSORBING GROMMETS** create smooth, quiet power.



Totally enclosed motor



Rifled copper tubing



Aluminum fins



Vibration-isolating grommets



High efficiency compressors

COMMERCIAL GRADE ROOM CONDITIONERS

KÜHL®. TOUGH ENOUGH FOR THE MOST DEMANDING APPLICATIONS

Kühl is used in industrial applications where only the most rugged air conditioners can survive.

Friedrich conducts rigorous performance tests to ensure customer satisfaction and safety in our own UL-certified lab. Run tests are performed for up to 120 continuous days under extreme temperature conditions.

Air flow systems are tested for powerful and precise air distribution using state-of-the-art Computational Fluid Dynamics (CFD). Sound levels are measured and optimized in our Friedrich sound lab to ensure ultraquiet performance. Premium air filters are tested for adsorption capacities and efficiencies.

The unit's control software is tested for constant and reliable operation. Packaging exceeds ISTA (International Safe Transit Association) standards in order to withstand transportation hazards.

Advanced design technology. Extensive product testing. It's what you can expect from Friedrich.



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THE NEXT BIG THING IN CONTROLLING ENERGY COSTS IS AVAILABLE RIGHT NOW.

Building energy management capabilities

New wireless capabilities open up a whole new dimension of building energy management. Kühl's new controls allow facilities management personnel to remotely control set points, schedules and modes of one unit or multiple units. Update settings building-wide to prevent unnecessary or excessive energy consumption.

And units can be controlled from remote computers and mobile devices using the only online interface ever developed for room air conditioners.



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CASE STUDY: THE PRATT INSTITUTE

“NYSERDA estimates that we can save 25% on our energy consumption which is tremendous... Friedrich really is the industry standard in room air conditioning”.

Pratt Institute is located on over 26 acres in Brooklyn and Manhattan and has almost 300 room air conditioners in operation across the campus. Until Friedrich introduced Kühl, facilities management had to depend on personnel to remember to turn units off and maintain appropriate operating conditions. However, Kühl's controls and scheduler now allow facilities operations to control all of their Friedrich units centrally using a hard card system and a daisy chain. NYSERDA estimates that Pratt can save 25% on energy consumption. And, Kühl comes in a variety of sizes which means Pratt has the flexibility to place a variety of units in different sized rooms.

Stephen Brennan
Director of Maintenance & Operations
Pratt Institute
Brooklyn, NY



SIMPLE UNIT LEVEL OPERATION OR WHOLE BUILDING CONTROL

Kühl units are Smart Grid compatible and can tie into a building management system.

SIMPLE OPERATION

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

BUILT-IN 7 DAY PROGRAMS

All Kühl units include two 7-day energy management programs which can be accessed and selected from the unit's controls. Selecting 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. Selecting 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 PROGRAM (requires optional accessory)

If you would like to create a custom schedule, you can do that too. 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. To create a custom schedule you'll need to download the FriedrichLink scheduler program to both your computer and your unit. The FriedrichLink scheduler is available for download on the Friedrich website www.friedrich.com.

FRIEDRICHLINK™ WI-FI OPERATION (requires optional accessory)

Kühl units can be controlled wirelessly over a Wi-Fi network. Adding a Friedrich KWIFI accessory (Wi-Fi adapter) to your Kühl unit will allow you to control it online using either a computer or a smartphone. A web-based control portal on Friedrich.com will allow you to access individual or multiple units for monitoring, control or even diagnostics.



BUILDING MANAGEMENT SYSTEM-BMS (requires optional accessory)

The optional FriedrichLink adapter also allows Kühl units to be controlled remotely via a BMS: manage one or groups of units, create custom schedules and even run unit diagnostics. The web-based control portal on Friedrich.com will allow you to access individual or multiple units for monitoring, control or even diagnostics.

Intuitive controls.

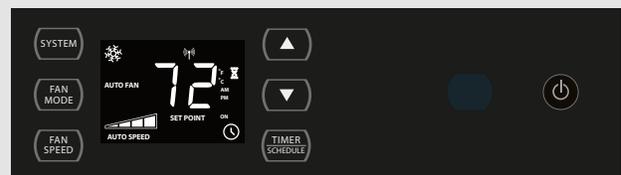
LCD panel auto dims when not in use

Nightlight mode

Temperature and fan adjustment maintain your desired comfort level

Back up system saves settings if power is interrupted

Two built-in 7-day programs*



24-hr. timer

Audio feedback option

Auto restart returns unit to previous settings if power is interrupted

Displays set temperature or room temperature

Check filter reminder

Keypad lockout option (ON/OFF) protects settings

* Feature not available on Kühl SQ and EQ models.

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COMMERCIAL GRADE ROOM AIR CONDITIONERS

Kühl® ULTRA PREMIUM LINE

New compact chassis size is ideal for smaller windows and tight installations.

The control and convenience of a central air conditioning system. Control multiple Kühl units simultaneously via FriedrichLink™.

NEW COMPACT CHASSIS SIZE



Kühl®
5400-9600 Btu
Up to 11.2 EER

**Kühl® + EQ08
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.



Kühl®
7900-36000 Btu
Up to 11.7 EER

**Kühl® +
Electric Heat**
COOLING
11500-36000 Btu
Up to 10.9 EER
ELECTRIC HEAT
10700-17300 Btu

**Kühl® +
Heat Pump**
COOLING
9400-23500 Btu
Up to 11.0 EER
HEATING
7500-23500 Btu



†S10 115v unit is not equipped with electric heat. Will not operate below 40° F.

Comfort

- Convenient control from your smartphone or computer via FriedrichLink™ (required accessory sold separately)
- 24-hour timer
- Up to 4 cooling and 4 fan-only speeds on select models
- Automatic fan speed adjustment
- 8-way air flow control
- Temperature readout can display set temperature and room temperature
- LCD panel auto dims if not in use
- LCD settings lockout option (ON/OFF)
- Premium remote control allows user to activate schedule, adjust temperature, adjust fan speed or select auto-fan; can also switch from cool to heat and heat to cool (Kühl + models)

Maintenance & Installation

- Check filter reminder and error code storage
- Same sleeve dimensions for 30+ years for easy replacement
- Slideout chassis for more permanent installation and easier access for maintenance
- Installs in a window or in-wall
- Heavy-duty installation hardware lasts longer and provides a superior barrier from the outside elements (optional accessory on Kühl+ models)
- 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**

Durability

- Sealed control panel for protection from dust, moisture and contaminants
- Control module is separate from touch controls for better protection from the elements, abusive handling or accidental damage and to minimize repair costs
- 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
- Solid steel base pans and inner walls are durable
- Unit's structural integrity allows it to be removed, cleaned and maintained outside of its sleeve
- 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
- Defrost control protects coil against freeze up

Sound Reduction Technology

- Steel inner wall and extra dense insulation materials block outdoor noise
- Vibration isolating design and components diminish traditional operating sound levels
- Precision engineering maximizes air flow while delivering ultra quiet operation

Energy Management & Compliance

- Group two or more Kühl units and control them together for central air-like convenience
- 2 ready-to-go 7-day energy management programs*
- Autofan mode saves money by conserving energy
- ENERGY STAR® qualified models, including heat pumps
- 24V low voltage interface
- Environmentally-friendly R-410A refrigerant used in all models
- Recyclable packaging
- RoHS compliant

Safety & Security

- EntryGuard™ anti-intrusion protection - secures chassis to the sleeve with a steel retaining wire to deter 'kick-in' intrusion
- Power cord current leakage protected
- Aluminum rear grille protects the outdoor coil from damaging debris and vandalism
- Insect barrier*

Health & IAQ

- Superior fresh air intake and stale air exhaust vent
- Washable, antimicrobial air filter
- Optional premium carbon filter provides superior air filtration with ratings as high as MERV 6, while also adsorbing odors, and reducing ozone and VOCs when used in conjunction with standard filter
- Hinged door for easy filter access

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



RECYCLABLE
PACKAGING



R-410A
OZONE FRIENDLY
REFRIGERANT

KÜHL® ACCESSORIES

PREMIUM CARBON FILTERS

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



Model	Kit No.
All SQ and EQ Models	KWCFQ
All SS, ES and YS Models	KWCFS
All SM, EM and YM Models	KWCFM
All SL, EL and YL Models.	KWCFL

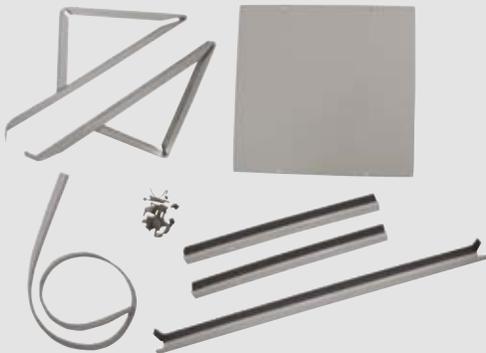
FriedrichLink™ Adapter

USB thumbdrive/Wi-Fi dongle connects to unit control to allow for remote access and programming. Then control unit from a computer, mobile device or building management interface.



WINDOW MOUNTING KIT FOR KÜHL+ MODELS.

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



Heat/Cool Models	Kit No.
EQ08N11*	KWIKQA
ES12N33, ES15N33, YS10N10 and YS12N33.	KWIKSA
EM18N34, EM24N34 and YM18N34.	KWIKMA
EL36N35 and YL24N35.	KWIKLA

*EQ08N11 window kit KWIKQA does not include window brackets.

DECORATIVE COLORED FRONT COVERS

Colored front cover kits available in six colors.



Cobalt Blue



Designer White



Deep Red



Black Onyx



Classic Beige

Model	Color Front	Deep Red	Cobalt Blue	Classic Beige	Designer White	Black Onyx
	Kit No.					
All SQ and EQ Models		KWREDQA	KWBQUQA	KWBEQA	KWWTQA	KWBLQA
All SS, ES and YS Models		KWREDA	KWBLUSA	KWBGESA	KWWTSA	KWBLKSA
All SM, EM and YM Models		KWREDA	KWBLUMA	KWBGEMA	KWWTMA	KWBLKMA
All SL, EL and YL Models		KWREDA	KWBLULA	KWBGELA	KWWTLA	KWBLKLA

DRAIN KITS FOR USE WITH KÜHL SERIES

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

Model	Kit No.
All Kühl Series Models	DC2

RESIDENTIAL GRADE ROOM AIR CONDITIONERS

NEW CHILL™ SERIES

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

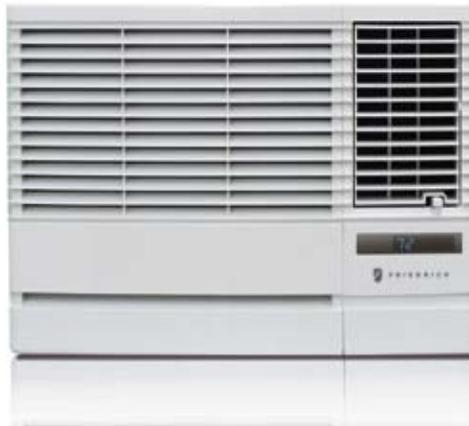


Select MODE, FAN SPEED, adjust TEMPERATURE and set the TIMER.



CP05

Chill™
5450 Btu
10.7 EER



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

New Chill™
6000-23500 Btu
Up to 10.8 EER

New 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

Energy Management & Compliance

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

Health & IAQ

- 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.

Auto air sweep swing louvers for even cooling throughout the room.



Not available on CP05.



RECYCLABLE
PACKAGING



R-410A
OZONE FRIENDLY
REFRIGERANT

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 Wt	Ship Wt.
Kühl®														
★ SQ05N10	5400	-	115	4.9	482	-	-	11.2	\$38	-	.5	190	Q	65 78
★ SQ06N10	5800	-	115	4.9	527	-	-	11.0	\$42	-	.5	190	Q	71 84
★ 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	75 88
★ SS08N10	7900	-	115	6.1	677	-	-	11.7	\$54	-	1.0	265	S	99 121
★ SS10N10	9500	-	115	7.7	848	-	-	11.2	\$67	-	2.0	260	S	106 136
★ SS12N10	12000	-	115	10.0	1111	-	-	10.8	\$88	-	3.0	300	S	112 136
★ SS14N10	14000	-	115	12.0	1444	-	-	9.7	\$115	-	3.5	325	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
★ SS15N30	14500/14300	-	230/208	6.4/6.8	1480/1459	-	-	9.8/9.8	\$112	-	3.5	360	S	116 136
★ SM15N10	14800	-	115	12.0	1358	-	-	10.9	\$109	-	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	140 158
★ SM21N30	20500/20000	-	230/208	9.4/10.3	2181/2128	-	-	9.4/9.4	\$173	-	6.0	425	M	132 153
★ SM24N30	22300/22000	-	230/208	11.2/11.9	2590/2550	-	-	8.6/8.6	\$206	-	10.0	390	M	152 167
★ SL22N30	21000/20500	-	230/208	9.6/10.2	2188/2092	-	-	9.6/9.8	\$174	-	6.0	625	L	191 212
★ SL24N30	24000/23800	-	230/208	11.2/12.0	2553/2532	-	-	9.4/9.4	\$207	-	7.0	640	L	192 213
★ SL28N30	27500/27000	-	230/208	13.5/14.4	2926/2872	-	-	9.4/9.4	\$229	-	8.5	600	L	193 214
★ SL36N30	36000/35700	-	230/208	19.0/20.5	4235/4200	-	-	8.5/8.5	\$338	-	12.0	725	L	212 227
Kühl® + Heat Pump														
★ YS10N10*	9400	7500	115	7.8	855	7.6	743	11.0	\$68	3.0	1.9	285	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	265	S	115 136
★ YM18N34	18200/17800	17900/17700	230/208	8.5/8.9	1808/1788	8.5/8.7	1833/1761	9.9/9.9	\$147	2.5/2.6	5.4	370	M	141 152
★ YL24N35	23500/23000	23500/23000	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	197 212
Kühl® + Electric Heat														
★ EQ08N11	7600	4000	115	6.7	855	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
★ ES15N33	14500/14300	10700/8900	230/208	6.4/6.8	1480/1459	16.0/14.7	3500/2900	9.8/9.8	\$112	-	3.5	360	S	117 133
★ EM18N34	17500/17200	13000/10600	230/208	7.4/8.0	2590/2550	19.5/17.0	4200/3500	8.6/8.6	\$131	-	4.6	350	M	141 158
★ EM24N34	22300/22000	13000/10600	230/208	11.2/11.9	2590/2550	19.5/17.0	4200/3500	8.6/8.6	\$207	-	10.0	390	M	153 166
★ EL36N35	36000/35700	17300/14300	230/208	19.0/20.5	4235/4200	24.0/22.4	5500/4650	8.5/8.5	\$338	-	12.0	725	L	213 225
Chill™														
★ CP05G10	5450	-	115	4.8	510	-	-	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	\$73	-	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	\$196	-	6.8	590	P9	146 160
Chill™+														
★ 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	\$97	-	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	\$220	-	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.

Estimated yearly operating cost based on a 2007 national average electricity cost of 10.65 cents per kWh.

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



INSTALLATION INFORMATION/SLEEVE DIMENSIONS

Sleeve	Height INCHES	Width INCHES	Depth with Front	Shell Depth to Louvers	Minimum Extension Into Room* INCHES	Minimum Extension Outside * INCHES	Window Width INCHES		In-wall Installation Finished Hole INCHES		
			INCHES A	INCHES B			Minimum**	Maximum	Height	Width	Max. Depth C
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"
P1†	12"	18 1/2"	15"	5"	3 1/2"	10 3/4"	20 1/8"	36"	NOT FOR THRU-WALL		
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"
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"
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"
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"
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"
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"
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"

* Minimum extensions when mounted in a window.

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

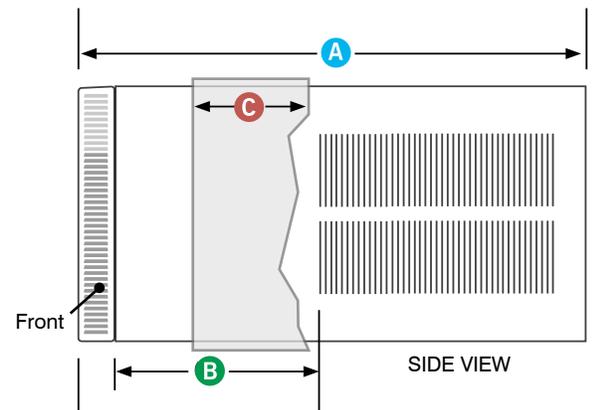
† Sleeve P1 does not have In-wall hole dimensions, as these units are fixed chassis and should not be installed In-wall.

NOTE: S, M and L sleeves may be installed in window with no side kits if properly installed.

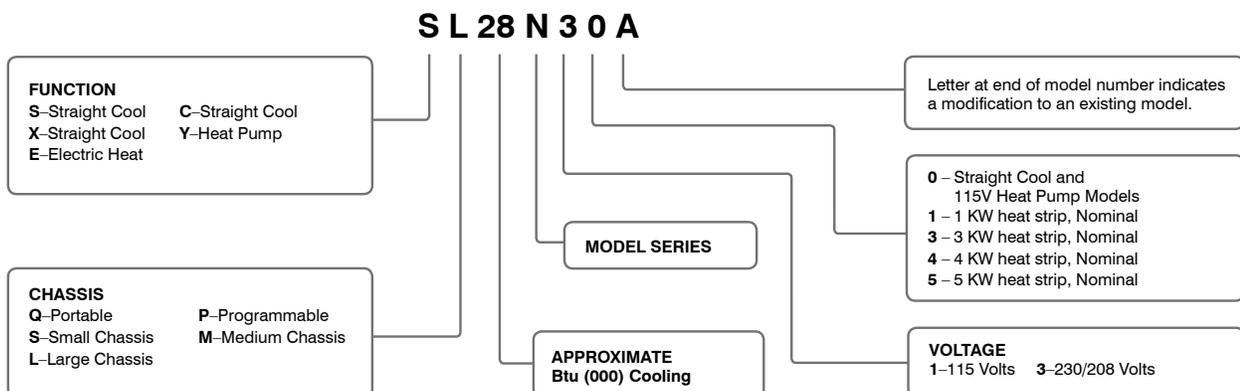
Circuit Rating/ Breaker

Model	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA#)	Power Cord Length (ft.)	Wall Outlet Appearance
CP05			7	
CP06G10, CP08G10, CP10G10, CP12G10 and CP15G10. EP08G11. All SQ MODELS. EQ08N11. SS08N10, SS10N10, SS12N10 and SS14N10. SM15N10. YS10N10.	125V - 15A	5 - 15P	6	
CP18G30			4	
SS12N30, SS15N30, SM18N30, SM21N30 and SL22N30.	250V - 15A	6 - 15P	6	
CP24G30. EP12G33, EP18G33 and EP24G33.			4	
SM24N30, SL24N30 and SL28N30. ES12N33 and ES15N33. YS12N33.	250V - 20A	6 - 20P	6	
SL36N30. EM18N34, EM24N34 and EL36N35. YM18N34 and YL24N35.	250V - 30A	6 - 30P	6	

Sleeve Dimensions Drawing



Room Air Conditioner Model Identification Guide





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.



F R I E D R I C H

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