

Friedrich

ROOM AIR CONDITIONERS



www.friedrich.com



QUALITY

**COOLING ONLY
HEAT PUMP
ELECTRIC HEAT**

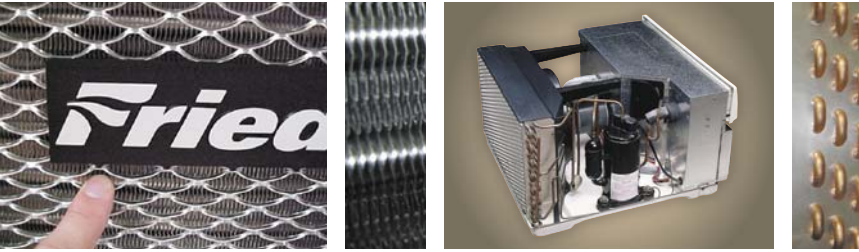


Rugged, commercial-grade components.

Heavy gauge steel cabinets.

State-of-the-art manufacturing.

Engineered to perform better and last longer.



built tough

DURABLE, COMMERCIAL GRADE PRODUCTS THAT LAST LONGER... A BETTER INVESTMENT

Friedrich air conditioners are a SUPERIOR PRODUCT built from high grade materials and components that deliver DEPENDABLE OPERATION for years after the sale.

OUR SOUND LAB TESTING CONFIRMS THIS IS THE QUIETEST FRIEDRICH EVER

We isolated key components in critical areas and made ADVANCEMENTS that not only REDUCE SOUND LEVELS, but also IMPROVE THE QUALITY of the SOUND. We ENHANCED the QUALITY and GRADE of COMPONENTS.

INDUSTRY LEADING ENERGY EFFICIENCY

As an INDUSTRY LEADING pioneer in energy efficiency, our partnership with the U.S. Department of Energy's Energy Star program was a natural continuation of our devotion to the development of products that CONSERVE ENERGY and help protect our environment. And, by designing energy efficient products, we help save money on your electric bill.

TRUSTED PERFORMANCE

Friedrich air conditioners can be found in some of the world's toughest locations. Oil companies rely on us to cool offshore oil rigs in the most extreme conditions, and military bases and government offices all over the world choose Friedrich. Even industrial and high tech leaders like NORTHROP GRUMMAN, EASTMAN CHEMICAL and the KENNEDY SPACE CENTER trust Friedrich commercial grade products for their applications. If we can handle all of these jobs, just think how we'll perform for yours.

HEAVY GAUGE STEEL

20 gauge steel is used in order to create a more robust air conditioner cabinet that will withstand years of hard use.

ALUMINUM REAR GRILLE

Protects unit from damage and vandalism. Virtually no one else offers this feature.



SOLID SLEEVE TOP

Keeps out falling debris, which can obstruct the fan and prevent it from turning, thus damaging the unit.

FAN MOTOR

Larger, commercial grade fan motor runs at lower temperature than smaller fan motors, which:

- prevents unit from overheating
- contributes to longer life

Totally enclosed for maximum protection and longer life.



ALUMINUM ENDPLATES

Won't rust like leading competitors' steel, which rust when exposed to condensate that can collect in drain pan. Rust can run down the sides of buildings creating an unsightly exterior that is expensive to repair. Significantly extends life of unit.



A 124 YEAR HISTORY *of* BUILDING QUALITY PRODUCTS



the *quietest* Friedrich ever

QUIET AS A GENTLE RAIN

QuietMaster model has a Decibel rating of 48*, which is less than the sound of rainfall (50 db).

*On low fan speed.



EXTRA THICK RUBBER GROMMETS

Absorbs motion and sound to reduce unwanted noise.



VIBRATION ISOLATOR

Vibration and noise isolating technology.



PROTECTIVE MOTOR MOUNT

Two resilient rings on motor mount prevent metal-to-metal contact, which eliminates extra vibration and noise.



ADVANCED AIRFLOW TECHNOLOGY

Cutting edge engineering is behind this unique design which lets more air through as space increases.

BLOWER WHEEL HOUSING

Made of solid steel for maximum sound reduction.

SCIENTIFIC REFRIGERATION DESIGN

Better design for quieter performance.



HEAVY DUTY SIDE CURTAINS

Or solid masonite side wings block outside noise and light.

INSULATED PLENUM

Insulated plenum helps keep sounds from passing through the unit and into the home.



leading *energy efficiency*

SAVE UP TO \$747

You can save hundreds of dollars in operating costs compared to less efficient units. The ten year savings of model EM24L35, 9.5 EER is \$747 (compared to a model with 8.5 EER, operated 2200 hours per year for ten years at 10.8 ¢/kw hour).



HIGH EFFICIENCY COMPRESSORS

Quiet, smooth power and energy efficient compressors are at the heart of every Friedrich unit.



MONEYSAVER MODE

Turns off the fan when the compressor stops, saving money by operating only when required.

HIGH-TECH FINS

Sine wave, lanced louvers increase energy efficiency by increasing surface area for heat exchange.



RIFLED COPPER TUBING

Greater surface area for heat exchange, increasing the efficiency of the coils, which improves overall efficiency of the unit.



UNIQUE COMFORTWATCH TECHNOLOGY

Friedrich models maintain an even room temperature through advanced technology that more accurately anticipates room temperature fluctuations. Other brands may be fooled into shutting off prematurely when the unit's internal temperature sensor is cold, even if the room has not reached the desired temperature.



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.





QUALITY

rugged durability precise temperature control



“There are several hundred (Friedrich air conditioners) in the industrial plants we service like Exxon, Dow and Dupont. Friedrich has better components, workmanship and heavier gauge metals.”

T. Wolfe
Accounts Manager
Star Service



Don't try this with a bargain air conditioner!

COMFORT TIPS

Want to reduce your energy costs and stay cool? Select the 'MONEY SAVER' setting to run the fan only when the compressor is running.

Select the 'SMART FAN' setting and your Friedrich will automatically adjust the fan speed to deliver a constant, comfortable temperature in any environment.

remote control convenience



COMMERCIAL GRADE Programmable models



DIGITAL CONTROL FEATURES

- 24-hour timer lets you program on/off times
- 3 cooling speeds, plus fan-only setting
- MoneySaver® setting saves energy by cycling the fan with the compressor
- Smart Fan adjusts fan speed to maintain desired temperature
- Heat anticipating thermostat
- Memory backup saves settings if power is interrupted

DELUXE FEATURES

- Ultraquiet operation
- 8-way air flow control
- Slide-out chassis for easy window or wall installation
- Washable, antimicrobial filter for protection against fungal and bacterial growth
- Heavy duty side curtains reduce exterior noise/ light
- Rust proof base pan



Three ENERGYSTAR® models

ONE TOUCH OPERATION	REMOTE CONTROL	24 HR. TIMER	MONEY SAVER FEATURE	SMART FAN	ANTIMICROBIAL FILTER	SLIDE-OUT CHASSIS
✓	✓	✓	✓	✓	✓	✓

FITS WINDOWS– MINIMUM: 26" WIDE. MAXIMUM: 42" WIDE



5,500 to 11,700 BTU/h EERs up to 11.5



SMART CENTER CONTROLS

- 24-hour timer lets you program on/off times
- 4-speed fan with ultraquiet "Sleep Setting"
- Smart Fan adjusts fan speed to maintain desired temperature
- Heat anticipating thermostat
- MoneySaver® setting saves energy by cycling the fan with the compressor
- Memory backup saves settings if power is interrupted
- Check filter reminder light

DELUXE FEATURES

- Ultraquiet operation
- 8-way air flow control
- Fresh air intake/ stale air exhaust vents
- Washable, antimicrobial filter for protection against fungal and bacterial growth
- Slide-out chassis for easy window or wall installation



Eight ENERGYSTAR® models

ONE TOUCH OPERATION	REMOTE CONTROL	24 HR. TIMER	MONEY SAVER FEATURE	SMART FAN	ANTIMICROBIAL FILTER	SLIDE-OUT CHASSIS
✓	✓	✓	✓	✓	✓	✓

FITS WINDOWS– MINIMUM: 27 7/8"* WIDE. MAXIMUM: 42" WIDE
**SL models fit windows a minimum of 29 7/8" wide.*



8,400 to 23,500 BTU/h EERs up to 12.0



QUALITY

reliable energy smart



"I was reluctant to pay top dollar, but I am so glad I did. My original Friedrich is the most reliable air conditioner made..."

S. Gwertzman
website comment
March 2006



COMFORT TIPS

Want to clear the room of stale air or cooking smoke? Slide the vent lever to 'EXHAUST' and set the fan to 'FAN ONLY'—out goes the bad air.

Sometimes the air outside is cooler than the air inside. If you don't want to open a window, slide the vent lever to 'FRESH AIR' and set the fan to 'FAN ONLY' to bring cool outdoor air in.

enjoy year'round comfort

If you have a room that always seems to be too cold or too warm, installing a TwinTemp heat pump or electric heat model is a perfect, low-cost solution.



COMMERCIAL GRADE Mechanical control models

QuietMaster®

DELUXE FEATURES

- Ultraquiet operation
- MoneySaver® setting saves energy by cycling the fan with the compressor
- 4 cooling speeds, plus fan-only setting
- Heat anticipating thermostat
- 8-way air flow control
- Fresh air intake and stale air exhaust
- Rotary controls
- Slide-out chassis for easy window or wall installation
- Washable, antimicrobial filter for protection against fungal and bacterial growth
- Largest capacity AHAM certified unit available

MONEY SAVER FEATURE	ANTIMICROBIAL FILTER	SLIDE-OUT CHASSIS
✓	✓	✓

FITS WINDOWS— MINIMUM: 27 7/8"* WIDE. MAXIMUM: 42" WIDE
*SL models fit windows a minimum of 29 7/8" wide.



Four ENERGYSTAR® models

11,600 to 36,000 BTU/h EERs up to 11.0

Twintemp®

DELUXE FEATURES

- Ultraquiet operation
- MoneySaver® setting* saves energy by cycling the fan with the compressor
- 3 cooling and 3 heating speeds**, plus fan-only setting
- Heat anticipating thermostat
- 8-way air flow control
- Defrost control (heat pumps)
- Fresh air intake and stale air exhaust vents*
- Rotary controls
- Washable, antimicrobial filter for protection against fungal and bacterial growth
- Slide-out chassis for easy window or wall installation
- Heat pumps are ideal for southern climates, electric heat pumps provide supplemental heating in colder climates

MONEY SAVER FEATURE	ANTIMICROBIAL FILTER	SLIDE-OUT CHASSIS
✓	✓	✓

TWINTEMP UNITS INSTALL THRU-WALL OR IN A WINDOW WITH OPTIONAL WINDOW KIT. SEE SPECIFICATIONS.

MODEL EQ08L10



HEAT/COOL



Three ENERGYSTAR® models

C COOLING 7,700 to 36,000 BTU/h **H** HEATING 4,000 to 22,000 BTU/h EERs up to 12.0

*Feature not available on model EQ08L10. **EQ08L10 has 2 cooling and 2 heating speeds, plus fan-only.

RESIDENTIAL GRADE programmable control models

COMPACT PROGRAMMABLE

REMOTE CONTROL	12 HR. TIMER	MONEY SAVER FEATURE	SLIDE-OUT CHASSIS
✓	✓	✓	✓

FEATURES

- 12-hour electronic timer lets you program on/off times
- MoneySaver® setting saves energy by cycling the fan with the compressor
- Three cooling speeds, plus three fan-only settings
- Super high energy efficiency for low operating cost
- Stale air exhaust vent
- Six-way air flow control
- Slide-out chassis for easy window or wall installation
- One-touch, lift out filter
- Auto-restart
- Dry Mode for greater dehumidification



LCD remote control

5,100 to 11,800 BTU/h EERs up to 9.8

COMPACT PROGRAMMABLE

REMOTE CONTROL	24 HR. TIMER	MONEY SAVER FEATURE	SLIDE-OUT CHASSIS
✓	✓	✓	✓

FEATURES

- 24-hour electronic timer lets you program on/off times
- MoneySaver® setting saves energy by cycling the fan with the compressor
- Three cooling speeds, plus three fan-only settings
- Auto Air Sweep swing louvers provide even air distribution
- Super high energy efficiency for low operating cost
- Stale air exhaust vent
- Slide-out chassis for easy window or wall installation
- Expandable side curtains included
- Easy access, lift out filter



auto air sweep remote control

14,000 to 24,000 BTU/h EERs up to 9.8

RESIDENTIAL GRADE mechanical control models



FEATURES

- Ultraquiet operation
- Three cooling speeds*, plus fan-only setting
- Eight-way air flow control
- Super high energy efficiency for low operating cost
- Slide-out chassis* for easy window or wall installation
- One-touch, lift out filter



*ZQ10C10 model only. Model ZQ05C10 has two cooling speeds, plus fan-only and a fixed chassis

5,100 and 9,800 BTU/h EERs up to 9.8



“Have a Friedrich Air Conditioner in my bedroom that is approximately 40 years old. It looks good and cools good and I use it daily”.

E. Williams
website comment
March 2006



*quality that lasts
—that’s Friedrich*

Specifications



Model	Cooling Capacity BTU/h	Heating Capacity Rated	Electrical Characteristics (60 Hertz)				Energy Efficiency Ratio EER	Moisture Removal Pints/Hr.	Room Side Air Circulation CFM	Sleeve*	Net Weight Lbs.	
			Volts Rated	Cooling Amps	Cooling Watts	Heating Amps						Heating Watts
COMMERCIAL GRADE												
XSTAR												
★ XQ05L10A	5500	—	115	5.0	500	—	—	11.0	1.2	200	Q	70
★ XQ06L10A	6300	—	115	4.9	548	—	—	11.5	1.4	175	Q	70
★ XQ08L10A	8000	—	115	6.8	741	—	—	10.8	1.9	175	Q	77
XQ10L10A	10000	—	115	9.0	1000	—	—	10.0	3.2	180	Q	83
XQ12L10A	11700	—	115	11.0	1198	—	—	9.8	3.2	200	Q	83
QUIETMASTER Programmable												
★ SS08L10	8400	—	115	6.6	737	—	—	11.4	1.6	265	S	108
★ SS10L10	10400	—	115	7.5	867	—	—	12.0	2.5	260	S	115
★ SS12L10	11800	—	115	9.0	1000	—	—	11.8	2.5	350	S	114
★ SS14L10	14000	—	115	12.0	1305	—	—	10.7	3.5	377	S	128
★ SS12L30	12100/11900	—	230/208	4.8/5.0	1052/1017	—	—	11.5/11.7	2.9	320	S	114
SS16L30	16200/15900	—	230/208	7.4/8.0	1653/1656	—	—	9.8/9.6	4.7	360	S	119
★ SM18L30A	17500/17300	—	230/208	7.2/7.7	1620/1570	—	—	10.8/10.8	4.5	375	M	163
★ SM21L30	20600/20200	—	230/208	9.4/10.1	2081/2020	—	—	9.9/10.0	6.0	425	M	154
★ SM24L30	23500/23000	—	230/208	11.2/12.1	2479/2421	—	—	9.5/9.5	7.0	400	M	154
QUIETMASTER												
★ KS12L10	11600	—	115	9.0	1055	—	—	11.0	2.5	356	S	114
★ KS15L10	14500	—	115	12.0	1343	—	—	10.8	3.5	377	S	128
KM18L30	17800/17600	—	230/208	8.1/8.8	1780/1760	—	—	10.0/10.0	4.4	400	M	161
★ KM24L30	23500/23000	—	230/208	11.2/12.1	2479/2421	—	—	9.5/9.5	7.0	490	M	154
★ SL28L30	28000/27700	—	230/208	13.0/14.2	2947/2916	—	—	9.5/9.5	8.8	600	L	201
SL36L30A	36000/35700	—	230/208	18.0/19.6	4235/4200	—	—	8.5/8.5	11.0	725	L	220
TWITEMP Heat Pump												
★ YS09L10**	9200	7400	115	7.4	767	6.9	733	12.0	1.7	300	S	113
★ YS13L33	12700/12500	11000/10500	230/208	5.1/5.6	1149/1131	5.3/5.8	1185/1167	11.0/11.0	3.5	325	S	117
YM18L34	18000/18000	16800/16400	230/208	8.5/9.5	1895/1895	8.5/9.0	1867/1822	9.5/9.5	4.7	400	M	166
★ YL24L35	24000/24000	22000/21600	230/208	10.9/12.0	2400/2400	11.0/12.0	2444/2400	10.0/10.0	7.0	600	L	198
TWITEMP Electric Heat												
EQ08L11	7700	4000	115	6.5	733	11.2	1290	10.5	1.9	175	Q	76
ES12L33	12100/11900	10700/8900	230/208	4.8/5.0	1052/1017	16.0/14.7	3500/2900	11.5/11.7	2.9	320	S	111
ES16L33	16200/15900	10700/8900	230/208	7.4/8.0	1653/1656	16.0/14.7	3500/2900	9.8/9.6	4.7	360	S	116
EM18L34	17800/17600	13000/10600	230/208	8.1/8.8	1780/1760	19.5/17.0	4200/3500	10.0/10.0	4.4	400	M	160
EM24L35	23500/23000	17300/14300	230/208	11.2/12.1	2479/2421	24.0/22.4	5500/4650	9.5/9.5	7.0	400	M	154
EL36L35A	36000/35700	17300/14300	230/208	18.0/19.6	4235/4200	24.0/22.4	5500/4650	8.5/8.5	11.0	725	L	220
RESIDENTIAL GRADE												
COMPACT PROGRAMMABLE (preliminary)												
CP05N10	5100	—	115	4.4	526	—	—	9.7	1.3	135	P1	49
CP06N10	5400	—	115	4.8	557	—	—	9.7	1.5	160	P1	49
CP08N10	7800	—	115	6.6	796	—	—	9.8	2.2	210	P2	62
CP10N10	10000	—	115	8.5	1020	—	—	9.8	2.7	250	P3	79
CP12N10	11800	—	115	10.1	1204	—	—	9.8	3.2	310	P3	79
CP14N10	14000	—	115	12.1	1429	—	—	9.8	4.3	370	P4	119
CP18N30	18000	—	230/208	8.1/8.8	1840	—	—	9.8	5.0	375	P4	150
CP24N30	24000	—	230/208	12.1/13.1	2791	—	—	8.6	6.3	400	P5	163
ZSTAR (preliminary)												
ZQ05C10	5100	—	115	4.8	520	—	—	9.7	1.3	135	P1	44
ZQ10C10	9800	—	115	9.4	1000	—	—	9.8	3.0	240	P2	70

* Sleeve dimensions listed on opposite page. ** Operate on 115 volt and are not equipped with supplemental heat. Will not provide heat temperatures below 40°F. Friedrich room air conditioners are designed to operate in outdoor temperatures from 50°F to 115°F.

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.







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.

Installation Information / Sleeve Dimensions

Sleeve	Height	Width	Depth with Front	Depth Hood to Louvers	Minimum Extension Into Room	Minimum Extension Outside	Window Width		Thru-the-wall Finished Hole	
							Minimum	Maximum	Height	Width
Q	14"	19 3/4"	21 3/8"	8 1/2"	5 1/2"	10 3/4"	26"	42"	14 1/4"	20"
P1†	12 1/4"	18 1/2"	15"	5"	3 1/2"	10 3/4"	22"	36"	NOT FOR THRU-WALL	
P2	13 7/8"	20 1/8"	19 3/8"	8"	4 1/2"	14 7/16"	25"	36"	14 1/8"	20 3/8"
P3	15"	23 5/8"	22"	8 1/2"	4 1/2"	16 3/8"	27"	39"	15 1/4"	23 7/8"
P4	17"	26"	27 5/8"	8 7/8"	5 1/2"	16 5/8"	27"	42"	17 1/4"	26 1/4"
P5	17"	26"	29 3/4"	8 7/8"	5 1/2"	19 1/2"	27"	42"	17 1/4"	26 1/4"
S	15 15/16"	25 15/16"	27 3/8"	8 3/4"	3 1/16"	16 15/16"	27 7/8"	42"	16 3/16"	26 3/16"
M	17 15/16"	25 15/16"	27 3/8"	8 3/4"	3 1/16"	16 15/16"	27 7/8"	42"	18 3/16"	26 3/16"
L	20 3/16"	28"	33 5/8"	16 1/2"	3 3/16"	18 15/16"	29 7/8"	42"	20 3/8"	28 1/4"

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

Circuit Rating/ Breaker

Model	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA#)	Wall Outlet Appearance
CP05, CP06, CP08, CP10, CP14, All ZQ MODELS. All XQ MODELS. KS10L10, KS12L10 and KS15L10. RS10L10, RS12L10 and RS15L10. SS08L10, SS10L10, SS12L10 and SS14L10. EQ08L11. YS09L10.	125V - 15A	5 - 15P	
CP18, CP24, KS12L30, KM18L30 and KM21L30. RS16L30 and RM18L30. SS12L30, SS16L30, SM18L30 and SM21L30.	250V - 15A	6 - 15P	
KM24L30. RM24L30. SM24L30 and SL28L30. ES12L33 and ES16L33. YS13L33.	250V - 20A	6 - 20P	
SL36L30A. EM18L34, EM24L35 and EL36L35. YM18L34 and YL24L35.	250V - 30A	6 - 30P	

Supply Cord Lengths

Model	Cord Length
All 115V models	6 ft.
All 230V models	4 ft.

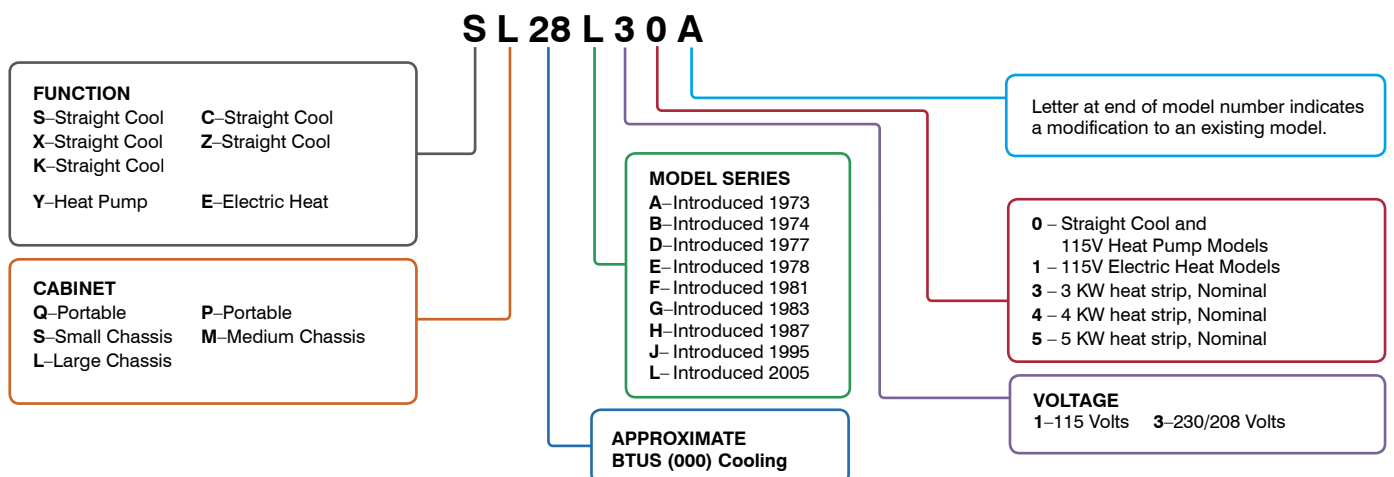
All wiring including installation of receptacle must be made in accordance with local electrical codes and regulations. Do not use extension cords.

Window Mounting Kits

TwinTemp Model	Kit No.
EQ08L11	WIKQ
ES12L33, ES16L33, YS09L10 and YS13L33.	WIKS
EM18L34, YM18L34 and EM24L35.	WIKM
EL36L35A and YL24L35.	WIKL

TWINTEMP® models include accessories for thru-the-wall installation only. Window mounting requires use of optional accessory kit as listed above.

Room Air Conditioner Model Identification Guide



MULTIPLE SOLUTIONS. ONE TRUSTED NAME.

We have much more than room air conditioners—

Portable Air Conditioners

Easy cooling. Anytime. Any place. Great for fast back-up or supplemental cooling, these units roll on casters and plug into a standard 115 volt outlet. They can be quickly vented through a window or wall opening. Full display electronic controls and remote control.

IDEAL FOR: Temporary or permanent cooling in workshops, garages, home offices, uncooled dorm rooms, sunrooms, bedrooms, attics and basements.

Bucketless design.



Ductless Split Systems

Sleek, absolutely quiet and incredibly energy efficient, with SEERs up to 19.0! There's never been a better time to upgrade to ductless air conditioning. Over 20 total system configuration, including nine dual, tri-zone and quad-zone wall-mounted configurations. Floor and ceiling models also available.

IDEAL FOR: Zone cooling, locations where no ductwork exists, or is impossible or too costly to install. Any area where security is a concern.

Wallmounted Indoor Unit



Outdoor Unit

Thru-the-wall Air Conditioners

Residential and commercial applications. WallMaster is the most energy efficient solid-side air conditioner and is an exact fit for Fedders A and B sleeves. Uni-Fit is adaptable to fit a variety of sleeve sizes.

IDEAL FOR: Deep exterior walls, can be installed flush with exterior wall, floor level or overhead installation, unobstructed window views.

NOTE: Chassis and wall sleeve are sold and shipped separately.

Programmable models with remote available.



UNI-FIT

WALLMASTER

Electronic Air Cleaners

The C-90 air cleaner has been top-rated year-after-year. AHAM certified effective on dust, tobacco smoke and pollen. Powerful, yet quiet three speed fan. Effectively cleans areas as large as 506 sq. ft.

Lower cost of operation and maintenance over the life of the unit than typical hepa air cleaners.



C-90 B

Packaged Terminal Air Conditioners

Energy efficient and extremely quiet. Friedrich PTACs offer programmable electronics with a large LED display that provides precise temperature control and energy savings. Installs thru-the-wall.

NOTE: Chassis and wall sleeve are sold and shipped separately.



Digital controls

Vertical Single Package Units

Self contained unit installs in a small utility closet. A simpler way to condition multiple rooms. VERT-I-PAK installs as easily as a PTAC and the concealed installation creates a more homelike feel in a guest room or suite. Installation in a closet means lower sound levels than with other in-room air conditioning options.

IDEAL FOR: Suites, extended stay properties, apartments and dorms; or any application where lower sound levels are desired.



VERT-I-PAK

See the full line of Friedrich products @ www.friedrich.com

Friedrich

Friedrich Air Conditioning Co. | P.O. Box 1540 | San Antonio, TX 78295-1540 | (800) 541-6645 | fax (210) 357-4480 | www.friedrich.com

RAC-07

Printed in USA