

FRIEDRICH AIR CONDITIONING

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This section contains product and technical information only.

For additional information and product pricing please contact your local ECCO Supply Sales Branch.

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ASHRAE
American Society of
Heating, Refrigerating, and
Air-Conditioning Engineers, Inc.
www.ashrae.org



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Air Conditioning
Institute of Canada
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Sheet Metal and Air
Conditioning Contractors'
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Spiral Duct
Manufacturers
Association
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CIPH
Canadian Institute
of Plumbing &
Heating
www.ciph.com

FRIEDRICH AIR CONDITIONING

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A FULL LINE OF AIR CONDITIONING SOLUTIONS

Portable Air Conditioners

Great for fast back-up or supplemental cooling. Plug into a standard 115 volt outlet. They can be quickly vented through a window or wall opening. Full display electric controls and remote control.

Ideal for: Temporary or permanent cooling in workshops, garages, home offices, dorm rooms, sunrooms, bedrooms, attics and basements.



Thru-the-Wall Air Conditioners

Residential and commercial applications. 26" and 27" wall sleeve models. A high efficiency replacement for older units.

Ideal for: Deep exterior walls; can be installed flush with exterior wall and floor level.



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.

Ideal for: Lodging, healthcare, dormitories and any application where a thru-the-wall installation is desired.



Ductless Split Systems

Sleek, absolutely quiet and incredibly energy efficient, with SEERs up to 20.0! Over 20 total system configurations, including nine dual, tri-zone and quad-zone mounted configurations. Floor and ceiling models also available.

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



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.

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

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DUCTLESS SPLIT SYSTEMS

The ultimate room air conditioner. Easy to install. Exceptionally quiet. Totally flexible.

Ductless splits are an innovative and efficient alternative to window and thru-the-wall units. They have the benefits of a central system, without the difficulty and expense of installing ductwork.

Easy to Install

Friedrich ductless split systems have the advantages of a ducted installation without the high material and labour costs. Absolutely no ductwork is required, so most systems can be installed and running in a few hours.

SEER Ratings up to 20.0

All Friedrich ductless models exceed the federal 13.0 SEER requirements. And, a full one-third of our models have super high ratings ranging from 16.5 to 20.0 SEER.

Extremely Quiet

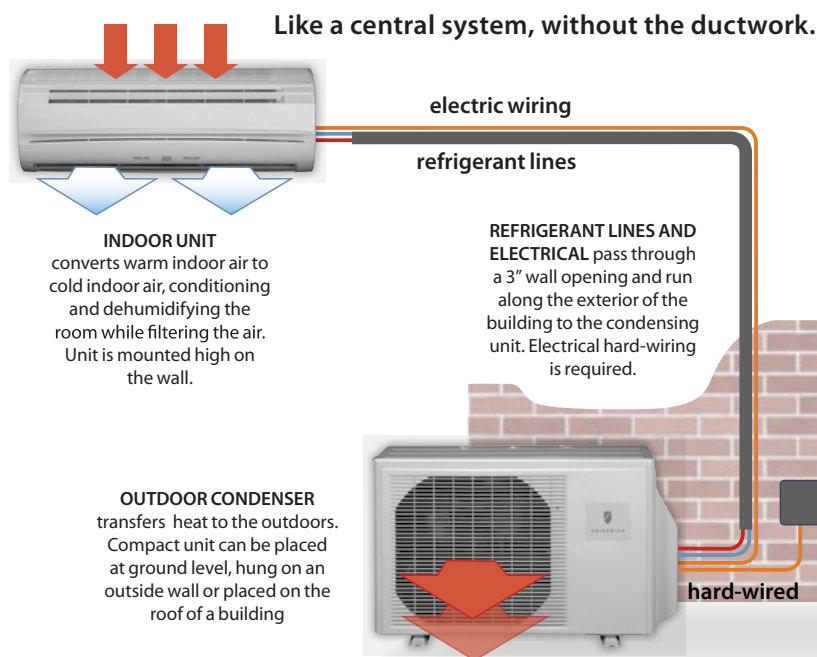
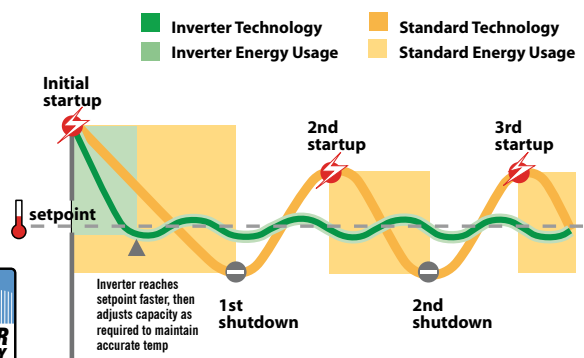
Ductless systems keep the operating noise of the condensing unit outdoors, while the blower fan of the indoor unit remains whisper quiet.

Zone Cooling Flexibility

Independently condition up to four separate rooms using only a single outdoor unit. Achieve the ultimate in comfort and energy control by cooling and heating only the rooms that are in use.

All Friedrich Units Feature Advanced Inverter Technology

Inverter technology lets you reach the desired temperature faster, maintain it more accurately, and reduce energy costs. Inverter technology varies the compressor and condenser and indoor fan speeds, eliminating constant compressor startups/shut-downs that traditional technology requires to maintain the set temperature.



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DUCTLESS SPLIT SYSTEMS (cont'd)

Variable Capacity Advantages

Inverter technology allows each system to adjust capacity and cooling output to provide only the amount of cooling needed at a given time. For example, an 18,000 BTU/h system will operate even more efficiently as a 15,500 if that is all that's needed.

Zero Duct Loss

The DOE reports that ducted systems lose an average of 25-40% in performance due to leaks, cracks or disconnections in ductwork. No ductwork means zero duct loss – ultra high efficiency delivers directly to the room.

No Dirty Air Ducts

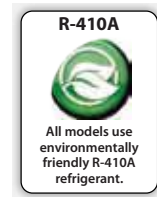
Now there's no need to clean dirty air ducts that can harbour dust, germs and allergens that are eventually blown into your home or office.

Residential Applications

- Room additions/renovations
- Homes without ductwork
- Bedrooms and family rooms
- Garage workshops
- Sunrooms
- Guest quarters
- Wine cellars

Commercial Applications

- Computer rooms/server rooms
- Restaurant kitchen and prep areas
- Offices in warehouse spaces
- Storage facilities
- Buildings where security concerns prevent the use of window units
- Internal areas without exterior wall access



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DUCTLESS SPLIT SYSTEMS (cont'd)

WALL MOUNTED SINGLE ZONE

One wall-mounted indoor unit connected to one outdoor unit.

Features

- Auto swing louvers (up/down)
- Continuous "Air Sweep"
- Auto-restart after power interruptions
- Auto-shut flaps close when unit is off for a sleeker appearance
- Washable, reusable air filters
- Removable front grille
- Auto-changover (heat pump models)



LCD Wireless Remote

- LCD remote for each indoor unit
- 24-hour timer and sleep timer
- Auto/cool/dry/fan/heat* modes
- Four fan speeds heating* or cooling: high/medium/low/quiet, plus auto-fan
- Secured remote control holder
- Four different transmitter codes to prevent unintentional interference with nearby units

**Heat pump models only.*

1) Depicts Zone# in chart on next page.



Pictured: Single zone model MW09Y3G indoor unit. Appearance varies by model.

WALL MOUNTED MULTI ZONE HEAT PUMPS

Two, three or four wall-mounted indoor units connected to one outdoor unit.

Features

- Auto swing louvers (up/down)
- Continuous "Air Sweep"
- Auto-restart after power interruptions
- Auto-shut flaps close when unit is off
- Washable, reusable air filters
- Removable front grille
- Auto-changeover
- Low-ambient operation

LCD Wireless Remote

- LCD remote for each indoor unit
- 24-hour timer and sleep timer
- Auto/cool/dry/fan/heat* modes
- Four fan speeds heating* or cooling: high/medium/low/quiet, plus auto-fan
- Secured remote control holder
- Four different transmitter codes to prevent unintentional interference with nearby units

**Heat pump models only.*

NOTE: For Technical Data see end of section.



Pictured: Multi-zone system M36QYF. Appearance varies by model.

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DUCTLESS SPLIT SYSTEMS (cont'd)

Heat Pumps

MODEL	COOLING CAPACITY (BTU/H)	HEATING CAPACITY (BTU/H)	SEER
M09YG	8500	10000	20.0
M12YG	11500	14000	20.0
M18YF	18000	21600	19.0
M24YF	24200	27600	18.0

Cool Only

MODEL	COOLING CAPACITY (BTU/H)	SEER
M18CF	18000	19.0
M24CF	24200	18.0
M30CF	30700	15.0
M36CF	33100	15.0

Multi-Zone Heat Pumps

MODEL	ZONE 1 CAPACITY (BTU/H)		ZONE 2 CAPACITY (BTU/H)		ZONE 3 CAPACITY (BTU/H)		ZONE 4 CAPACITY (BTU/H)		TOTAL BTU/H		SEER
	COOLING	HEATING	COOLING	HEATING	COOLING	HEATING	COOLING	HEATING	COOLING	HEATING	
M18DYF	9500	11000	9500	11000	–	–	–	–	19000	22000	16.5
M21DYF	9500	11000	12000	14000	–	–	–	–	21500	25000	16.5
M24DYF	12000	14000	12000	14000	–	–	–	–	24000	28000	16.5
M27TYF	9200	11200	9200	11200	9200	11200	–	–	27600	33600	15.0
M30TYF	9300	11000	9300	11000	11800	14000	–	–	30400	36000	15.0
M33TYF	9400	10700	11800	13600	11800	13600	–	–	33000	37900	15.0
M36TYF1	9100	9800	9100	9800	17000	18400	–	–	35200	38000	15.0
M36TYF2	11700	12700	11700	12700	11700	12700	–	–	35100	38100	15.0
M36QYF	8800	9500	8800	9500	8800	9500	8800	9500	35200	38000	15.0

Precise comfort from one system in up to four different rooms.



NOTE: For Technical Data see end of section.

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DUCTLESS SPLIT SYSTEMS (cont'd)

FLOOR/CEILING UNIVERSAL HEAT PUMP

Universal system may be located low against the wall or on the ceiling.

Features

- Auto swing louvers (up/down, left/right)
- Continuous "Air Sweep"
- Auto-restart after power interruptions
- Auto-shut flaps close when unit is off for a sleeker appearance
- Auto-changeover
- Washable, reusable air filters
- Fresh air capability

LCD Wireless Remote

- 24-hour timer and sleep timer
- Auto/cool/dry/fan/heat modes
- Three fan speeds heating or cooling: high/medium/low, plus auto-fan
- Four different transmitter codes
- Secured remote control holder
- Self-diagnostics

Heat Pump — S24YF

Cooling: 22,200 BTU/h 15.0 SEER

Heating: 24,200 BTU/h



CEILING CASSETTE HEAT PUMP

Features

- Auto-swing louvers (up/down)
- Continuous "Air Sweep"
- Auto-restart after power interruptions
- Auto-changeover
- Washable, reusable air filters
- Low-ambient operation
- Fresh air intake
- Two branch ducts for adjoining rooms (requires additional fan)
- Condensate pump: 31" lift
- Auto-shut flaps close when unit is off

LCD wired remote

- Seven-day programmable on/off timer controls up to 16 units – individually or by zones
- Auto/cool/dry/fan/heat modes
- Self-diagnostics
- Three fan speeds heating or cooling: high/medium/low, plus auto-fan



Low Profile
9-1/4" Above Ceiling

Heat Pump — C24YF

Cooling: 22,000 BTU/h 15.0 Seer

Heating: 24,200 BTU/h

NOTE: For Technical Data see end of section.

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DUCTLESS SPLIT SYSTEMS (cont'd)**CEILING SUSPENDED HEAT PUMP****Features**

- Auto swing louvers (up/down, left/right)
- Continuous "Air Sweep"
- Auto-restart after power interruptions
- Auto-shut flaps
- Washable, reusable air filters
- Fresh air capability
- Auto-changeover
- Low-ambient operation
- Optional DP-36 condensate pump

LCD Wireless Remote

- 24-hour timer and sleep timer
- Auto/cool/dry/fan/heat modes
- Three fan speeds heating or cooling: high/medium/low, plus auto-fan
- Four different transmitter codes
- Secured remote control holder
- Self-diagnostics

Heat Pump — S36YF

Cooling: 34,100 BTU/h 14.0 SEER

Heating: 38,200 BTU/h










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ROOM AIR CONDITIONERS

Which Friedrich is right for you?

		ULTRA PREMIUM LINE		PREMIUM LINE		DELUXE LINE
		Kühl	Kühl+	XStar	XStar + heat	CP
OVERVIEW	Description	Top shelf design and features. Programmability to rival central systems. Trusted Friedrich durability. Designer colors.	All the elegance, performance and durability of Kühl, plus heating. Choose efficient heat pump or toasty electric heat.	Small and powerful. Programmable controls. Easier to self-install and store.	Year 'round use. Heavy duty construction for serious durability. Simple knob controls.	Good value. Available in a large range of cooling capacities. Programmable timer.
	Room size (sq. ft.)	300-2700	350-2700	100-450	300-350	100-1500
	Functions	COOL 	HEAT/COOL  	COOL 	HEAT/COOL  	COOL 
	Applications	AT HOME OR COMMERCIAL USE	AT HOME OR COMMERCIAL USE	AT HOME OR COMMERCIAL USE	AT HOME OR COMMERCIAL USE	AT HOME OR LIGHT COMMERCIAL USE
COMFORT & CONVENIENCE	Electronic controls	Y	Y	Y	N	Y
	Programmable timer	7-day with up to 4 settings per day	7-day with up to 4 settings per day	24 hr	N	CP05, CP06, CP08, CP10 and CP12 have 12 hr. CP15, CP18, and CP24 have 24 hr.
	Remote control	LCD	LCD	Y	N	LCD except CP15, CP18, CP24
	Wall thermostat capability	Y	Y	N	N	N
	Auto restart w/setting retention	Y	Y	Y	NA	Y
	Auto temp/ fan speed adjustment	Y	Y	Y	N	N
	Comfortwatch technology	Y	Y	Y	N	N
	Air flow directions	8	8	8	8	4
	Auto swing louvers	N	N	N	N	All except CP05
	Optional color fronts	Y	Y	N	N	N
SOUND REDUCTION TECHNOLOGY	Steel inner wall and extra dense insulation	Y	Y	Y	Y	N
	Vibration isolating design and components	Y	Y	Y	Y	N
	Superior airflow design	Y	Y	N	N	N
EARTH FRIENDLY	Energy Star models	Y	Y	Y	N	Y
	Environmentally friendly R-410A	Y	Y	Y	Y	Y
	Energy saver switch	Y	Y	Y	N	Y
	RoHS compliant	Y	Y	N	N	N
HEALTH	Washable, antimicrobial air filter	Y	Y	Y	Y	Y
	Optional carbon filter	Y	Y	N	N	N
	Electronic maintenance indicator including check filter reminder	Y	Y	N	N	N
	Superior fresh air intake/stale air exhaust	Y	Y	N	N	Stale air exhaust only, all except CP05
SAFETY	EntryGard anti-intrusion protection	Y	Y	Y	Y	Y
	Insect barrier	Y	Y	Y	Y	N
INSTALLATION	Slide-out chassis	Y	Y	Y	Y	All except CP05
	Power cord direction	Left or right	Left or right	Left or right	Left or right	Left or right
	Thru-the-wall installation option	Y	Y	Y	Y	All except CP05
	Window installation hardware	Heavy duty	Heavy duty, available as accessory	Heavy duty	Heavy duty, available as accessory	Standard

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ROOM AIR CONDITIONERS (cont'd)

ULTIMATE PREMIUM LINE — KÜHL SERIES

Kühl's continuous testing ensures your Friedrich air conditioner will perform up to their expectations — and beyond yours.

At the heart of each Kühl unit, you'll find the durable components and heavy duty construction that define the Friedrich brand: Heavy gauge steel, rifled copper tubing, high tech aluminum fins with sine wave technology, aluminum end plates that reduce corrosion, totally enclosed commercial grade motors, high efficiency compressors, vibration absorbing technology, and insulated air plenums.

Friedrich conducts rigorous performance tests to ensure customer satisfaction and safety. Run tests are performed – for up to 120 continuous days – under typical, and extreme, temperature and humidity conditions. Air flow systems are tested for powerful and precise air distribution, while sound levels are measured 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. Quality components. Advanced design technology. Extensive product testing. It's what you can expect from Friedrich. Friedrich conducts rigorous performance tests and incorporates advanced design techniques to build the very best air conditioners.

PERFORMANCE TESTING

Unit Performance Product tested for capacity and energy efficiency (EER) pursuant to AHAM RAC-1 test standard and DOE requirements.

Air Handling System Airflow systems designed utilizing state-of-the-art Computational Fluid Dynamics (CFD) and validated with empirical testing, infrared thermography, and smoke trace analysis.

Air Discharge System Air discharge louver and directional system aerodynamic design maximizes airflow throw distance and directivity, improving room air distribution effectiveness.

Premium Air Filter Filter capture efficiency (MERV 6 rating) as per ASHRAE Standard 52.2

Premium Carbon Air Filter VOC removal from air using premium carbon filter tested per IBRTM P300 Gas Phase Capacity Test

Acoustics Tested in accordance with ARI 350 – Sound Performance Rating of Non-Ducted Indoor Air Conditioning Equipment to ensure quiet operation

Electronic Controls Software Electronic Control software rigorously tested using regression testing methodology to assure logic and control states are achieved as designed.

Electronic Controls Hardware Electronic control hardware systems receive extreme short circuit, over / under voltage, high temp, radiated emissions, electromagnetic pulse / spike susceptibility and other tests to assure durability.

RELIABILITY

Refrigeration and Mechanical Systems Accelerated life tests at extreme environmental conditions and at abnormal cycle rates to ensure product reliability.

Compressor Stress tested to ensure compressor reliability throughout product's life cycle

Air Discharge Louvers Louvers cycle tested robotically to ensure product life cycle durability

Packaging Shake, Drop, Crush and transit testing to ensure the packaging design is durable and robust enough to prevent damage to the unit

Field Testing Consumer feedback from actual installations

User Interface Handle Finite Element Analysis (FEA) and load testing to ensure the handle design is capable of withstanding high stress.

SAFETY

Unit Units are tested to the requirements of UL 485 -Standard for Safety of Room Air Conditioners to ensure safe operation. Tests include electric heater overload, rain penetration, high pressure and numerous other tests to assure a safe and reliable product.

NOTE: For Technical Data see end of section.

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ROOM AIR CONDITIONERS (cont'd)

ULTIMATE PREMIUM LINE — KÜHL SERIES (cont'd)

Innovative technology. Intuitive controls.

LCD Panel auto-dims when not in use

Nightlight Mode

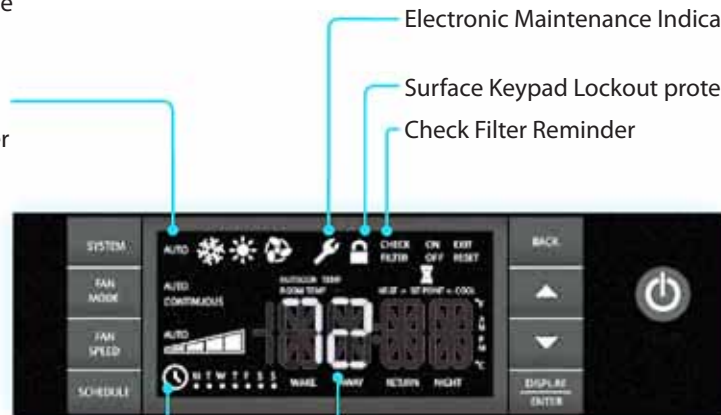
Temperature and Fan Adjustment maintains your chosen comfort level

Backup system saves setting if power is interrupted

Built-in, 7-day Programmable Thermostat

24-Hour Timer

Audio Feedback option



Electronic Maintenance Indicator

Surface Keypad Lockout protects settings

Check Filter Reminder

Alternately displays at the touch of a button:

- Set Temperature • Room Temperature
- Outdoor Temperature • Digital Clock

Choose From Four Operating Options:

- 1) 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.
- 2) 7-Day Default Program** – Turn the unit on and press "SCHEDULE" to utilize default settings. (ENERGY STAR® recommended settings for optimum energy efficiency for a typical work week where the home is unoccupied during the day Monday through Friday).
- 3) 7-Day Custom Program** – Turn the unit on and program for your preferred comfort levels and to maximize energy savings according to your schedule. Up to 4 settings per day, 7 days a week.
- 4) Remote Thermostat Operation** – Wire the unit to a wall thermostat to operate the unit remotely and override the control panel. Wall thermostats are available from Friedrich and are sold separately.

Rugged LCD Remote Control



- Full LCD Display shows mode, fan speed, set temperature, and schedule
- Adjust Temperature and Fan Speeds
- Set Auto Mode
- Turn the Schedule On or Off



Satin Silver (Standard)

Comfort has a bold new look.

A bold, satin silver front with black accenting and illuminated soft-touch controls places Friedrich Kühl Series at the forefront of room air design. Advanced digital controls intuitively provide comfort, convenience and ease of use, and allow for a range of programmability previously only associated with high-end central air systems.

And an exciting palette of colours that complement your home and the way you live.

Technology this advanced couldn't be limited to a single colour. Kühl and Kühl + room air conditioners are available in optional designer colours that boldly stand out or blend in.

- Deep Red • Cobalt Blue • Pink Diamond • Designer White • Classic Beige • Black Onyx

NOTE: For Technical Data see end of section.

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ROOM AIR CONDITIONERS (cont'd)**ULTIMATE PREMIUM LINE — KÜHL SERIES** (cont'd)**Choose the perfect colour, the right cooling capacity and simply relax.**

Distinctive LCD remote with mountable holster.

Comfort and Convenience

- Commercial grade durability
- Optional wired wall thermostat
- Built-in programmable 7 day thermostat
- 24 hour timer
- 4 cooling and 4 fan-only speeds on select models*
- Automatic fan speed adjustment
- Comfortwatch technology samples the air to more accurately maintain the set temperature
- 8-way air flow control
- Auto-changeover from cool to heat, or heat to cool, to maintain desired temperature (Kühl + models)
- Temperature readout can alternately display set temperature, room temperature and outdoor temperature, or digital clock as selected
- Control panel lockout (ON/OFF)
- Scratch resistant cabinet
- LCD panel auto dims if not in use
- Nightlight mode
- 7 yr. battery provides back up system that saves settings if power is interrupted

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

**Kühl 8,000 BTU/h-23,500 BTU/h models only. All SL models have 3 cooling and 3 fan-only speeds. Kühl + models have 3 cooling, heating and fan-only speeds*

NOTE: For Technical Data see end of section.



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ROOM AIR CONDITIONERS (cont'd)

ULTIMATE PREMIUM LINE — KÜHL SERIES (cont'd)

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
- Electronic maintenance indicators with error code storage

Installation Features

- Install in a window or thru-the- wall
- Slide-out chassis for more permanent installation and easier access for maintenance
- Includes heavy duty window installation hardware (optional accessory on Kühl+ models)
- Rugged hardboard side panels 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

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

Safety and 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

Accessories (sold separately)

- Optional designer coloured front covers
- 3 pack of premium carbon filters
- (Kühl +) window installation kits
- Wall thermostat

NOTE: For Technical Data see end of section.



Kühl

7900 – 36000 BTU/h, Up to 11.7 EER

Kühl + Electric Heat

Cooling: 11700 – 36000 BTU/h, Up to 11.4 EER

Electric Heat: 10700 – 17300 BTU/h

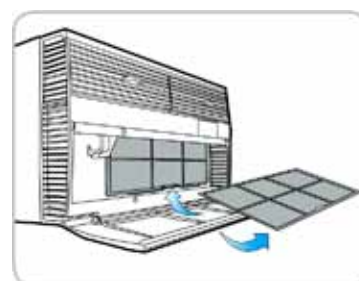
Kühl + Heat Pump

Cooling: 9500 – 24000 BTU/h, Up to 11.7 EER

Heating: 7500 – 25300 BTU/h

Heat Pumps reverse the air conditioning cycle to provide heated air in winter.

In temperatures above 39° F, heat pumps are approximately 33% more energy efficient than electric heat.



Hinged Filter Access Door flips open and filter slides out.

Optional Carbon Filter removes odors and VOCs.

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ROOM AIR CONDITIONERS (cont'd)

PREMIUM LINE — XSTAR® MODELS

XQ. Programmable, commercial grade quality models with exceptional energy efficiency.

EQ. A compact heat/cool model with mechanical controls.

The XStar® line is Friedrich's compact, premium line of commercial grade room air conditioners.

XQ is programmable and includes a remote. Features include a 24 hour timer, auto-adjusting Smart Fan and a Money Saver® setting that reduces energy usage and saves money.

EQ is ideal for supplemental heating and cooling.

Comfort and Convenience

- 24 hour timer lets you program on/off times*
- 3 cooling speeds, plus fan-only setting**
- Smart Fan adjusts fan speed to maintain desired temperature*
- Comfortwatch technology samples the air to more accurately maintain the set temperature*
- Money Saver® setting saves money by conserving energy*
- Ultraquiet operation
- 8-way air flow control
- Auto restart saves settings if power is interrupted*

Health

- Washable antimicrobial filter for protection against fungal and bacterial growth

Installation

- Slide-out chassis
- Install in window or thru-the-wall
- Heavy duty installation hardware
- Heavy duty side curtains reduce exterior noise/light
- Power cord can run either left or right out of the side of the unit front
- The industry's smallest BTU/h slide-out chassis (model XQ05)

Safety Features

- EntryGard anti-intrusion protection
- Insect barrier

* Feature not available on EQ.

**EQ has 2 cooling speeds, 2 heating speeds and fan-only setting

DELUXE LINE — CP

Programmable models with high efficiency and outstanding value.

The CP line is our highly-rated, deluxe line of room air conditioners with programmable controls for convenient operation. Sizes from a compact 5500 BTU bedroom air conditioner to a 2-ton model powerful enough to cool a large living area or multiple adjoining rooms.

Programmable features including 12 or 24 hour timers, auto air sweep*, and a Money Saver® setting that reduces energy usage and saves money.

*Excludes CP05



XQ

Cooling: 5500 – 9500 BTU/h
Up to 12.0 EER

EQ

Cooling: 7500 BTU/h, 10.7 EER
Electric Heat: 4000 BTU/h



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ROOM AIR CONDITIONERS (cont'd)

DELUXE LINE — CP05

Programmable models with high efficiency and outstanding value.

The CP line is our highly-rated, deluxe line of room air conditioners with programmable controls for convenient operation. Sizes from a compact 5,500 btu bedroom air conditioner to a 2-ton model powerful enough to cool a large living area or multiple adjoining rooms.

Programmable features including 12 or 24 hour timers, auto air sweep*, and a Money Saver® setting that reduces energy usage and saves money.

Comfort and Convenience

- 12 hour timer lets you program on/off times
- 3 cooling speeds, plus 3 fan-only settings
- Money Saver® setting saves money by conserving energy
- Ultraquiet operation
- 4-way air flow control
- Auto restart saves settings if power is interrupted

Health

- One-touch, lift-out, washable antimicrobial filter for protection against fungal and bacterial growth

Installation

- Fixed chassis
- Standard installation hardware
- Expandable side curtains
- Power cord can run either left or right out of the side of the unit front

Safety Features

- EntryGard anti-intrusion protection

DELUXE LINE — CP06 / CP08

Comfort and Convenience

- 12 hour timer lets you program on/off times
- Auto Air Sweep swing louvers provide more even air distribution
- 3 cooling speeds, plus 3 fan-only settings
- Money Saver® setting saves money by conserving energy
- Ultraquiet operation
- 4-way air flow control
- Auto restart saves settings if power is interrupted

Health

- One-touch, lift-out, washable antimicrobial filter for protection against fungal and bacterial growth
- Stale air exhaust

Installation

- Slide-out chassis
- Standard installation hardware
- Expandable side curtains
- Power cord can run either left or right out of the side of the unit front

Safety Features

- EntryGard anti-intrusion protection

*Excludes CP 05



CP05

Cooling: 5500 BTU/h
10.7 EER



CP06

Cooling: 6000 BTU/h
10.7 EER

CP08

Cooling: 7800 BTU/h
10.8 EER

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ROOM AIR CONDITIONERS (cont'd)**DELUXE LINE — CP10 / CP12****Comfort and Convenience**

- 12 hour timer lets you program on/off times
- Auto Air Sweep swing louvers provide even air distribution
- 3 cooling speeds, plus 3 fan-only settings
- Money Saver® setting saves money by conserving energy
- Ultraquiet operation
- 4-way air flow control
- Auto restart saves settings if power is interrupted

Health

- One-touch, lift-out, washable antimicrobial filter for protection against fungal and bacterial growth
- Stale air exhaust

Installation

- Slide-out chassis
- Standard installation hardware
- Expandable side curtains
- Power cord can run either left or right out of the side of the unit front

Safety Features

- EntryGard anti-intrusion protection

**CP10**

Cooling: 10000 BTU/h
10.8 EER

CP12

Cooling: 12000 BTU/h
10.8 EER

DELUXE LINE — CP15 / CP18 / CP24**Comfort and Convenience**

- 24 hour timer lets you program on/off times
- Auto Air Sweep swing louvers provide even air distribution
- 3 cooling speeds, plus 3 fan-only settings
- Money Saver® setting saves money by conserving energy
- Ultraquiet operation
- 4-way air flow control
- Auto restart saves settings if power is interrupted

Health

- One-touch, lift-out, washable antimicrobial filter for protection against fungal and bacterial growth
- Stale air exhaust

Installation

- Slide-out chassis
- Standard installation hardware
- Expandable side curtains
- Power cord can run either left or right out of the side of the unit front

Safety Features

- EntryGard anti-intrusion protection

**CP15**

Cooling: 14700 BTU/h
10.7 EER

CP18

Cooling: 18000 BTU/h
10.7 EER

CP24

Cooling: 24000 BTU/h
9.4 EER

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ROOM AIR CONDITIONERS (cont'd)

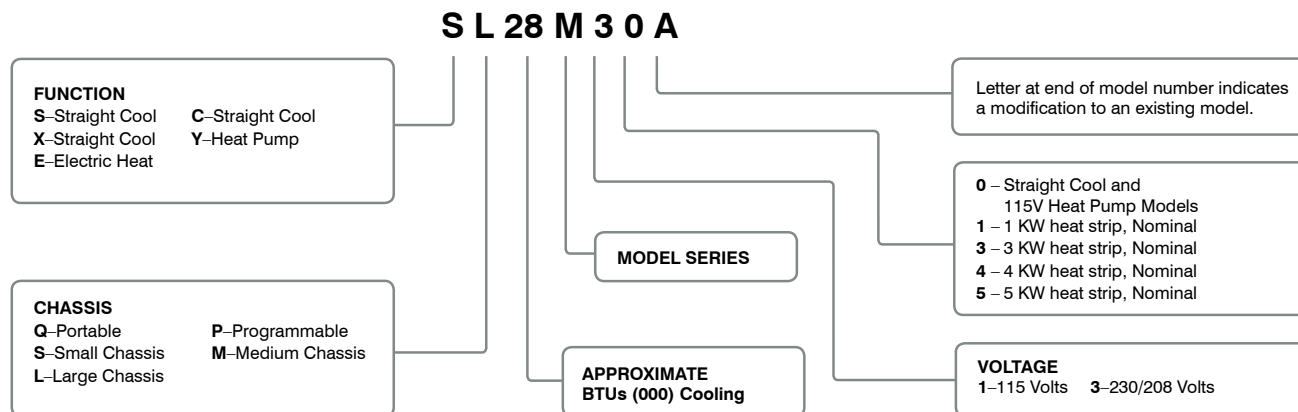
Sizing Guide

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

FT ²	BTU/H
100-150	5,000
150-250	6,000
250-300	7,000
300-350	8,000
350-400	9,000
400-450	10,000
450-550	12,000
550-700	14,000
700-1,000	18,000
1,000-1,200	21,000
1,200-1,400	23,000
1,400-1,600	25,000
1,600-1,900	28,000
1,900-2,700	36,000

Due to variations in room design, climate zone and occupancy, larger areas may require the use of multiple units to provide the optimal cooling solution. Please consult your ECCO Supply sales representative.

Model Identification Guide



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THRU-THE-WALL AIR CONDITIONERS

WALLMASTER®

27" SLEEVE – Ideal for new construction, and as a high efficiency replacement in retrofits and remodels

Features

- High efficiency operation saves on energy costs
- Residential/commercial applications
- Heat pumps and electric heat models
- Mounts flush with the exterior wall for a neat appearance
- Ideal for thicker wall installations, where side fins don't fit
- A high efficiency replacement for 27" sleeves including Fedders A and B*. Sleeve measures 27" W x 16-3/4" H
- Easy-to-reach, top mount controls
- Three-speed fan
- Efficient rotary compressor
- Easy-to-clean filter
- Auto restart



WallMaster®

Cooling: 7800 – 14500 BTU/h

Up to 9.9 EER

Heating: 7300 – 11000 BTU/h

Digital Control Features

- Remote control
- 24 hour programmable timer
- Money Saver® setting saves money by conserving energy
- Smart Fan auto-adjusts fan speed to maintain desired temperature
- Auto-memory backup saves settings should power be interrupted

SLEEVE DIMENSIONS	FRIEDRICH WSD SLEEVE	FEDDERS A SLEEVE	FEDDERS B SLEEVE
Height (")	16-3/4	16-3/4	16-3/4
Width (")	27	27	27
Depth (")	16-3/4	16-3/4	19-3/4

Unit is shown installed in WSD sleeve (sold and shipped separately)

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

NOTE: For Technical Data see end of section.

FRIEDRICH AIR CONDITIONING

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THRU-THE-WALL AIR CONDITIONERS (cont'd)

UNI-FIT®

26" SLEEVE – Universal fit for easy replacement in existing 26" sleeves

Features

- Rotary compressors provide quiet, dependable performance
- Six-way air flow control
- Stale air exhaust
- Auto restart
- Washable/reusable filter
- Seacoast protection



Digital Control Features

- 12 hour programmable timer
- Money Saver® setting saves money by conserving energy



Uni-Fit®

Cooling: 8000-13000 BTU/h

Up to 9.6 EER

Heating: 3850-11200 BTU/h

SLEEVE DIMENSIONS	FRIEDRICH USC SLEEVE	AMANA	CARRIER (51S SERIES)	FEDDERS/ EMERSON/ FRIEDRICH WSD	EMERSON/ FEDDERS	GE/ HOTPOINT	WHIRLPOOL	WHITE- WESTING- HOUSE/ FRIGIDAIRE/ CARRIER (52F SERIES)
Height ("")	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 ("")	25-7/8	26	25-3/4	27	26-3/4	26	25-7/8	25-1/2
Depth ("")	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

Units are shown without USC sleeve (USC sleeves sold and shipped separately)

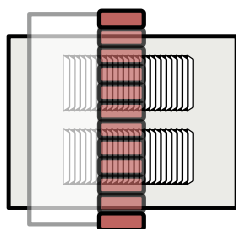
Commercial and Residential Applications

THRU-THE-WALL units mount flush with exterior walls for a sleek appearance, as well as unobstructed window views. (Wallmaster WSD sleeve shown with architectural grille. Uni-fit grille has different appearance.)

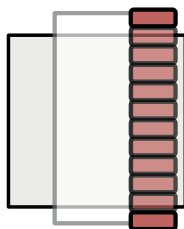


When should you install a solid side sleeve?

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
flush with exterior wall.

NOTE: For Technical Data see end of section.

FRIEDRICH AIR CONDITIONING

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THRU-THE-WALL AIR CONDITIONERS (cont'd)

WallMaster ® 27" Sleeve Exterior Grilles



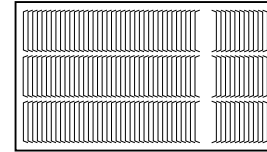
WSD Sleeve
Standard Grille - Ships
with sleeve. Galvanized
steel weather panel also
ships with sleeve.



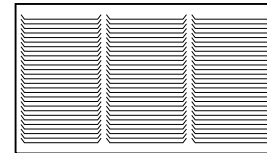
WSD Sleeve
Optional Architectural Grille- AG

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.

CORRECT Vertical Louvers



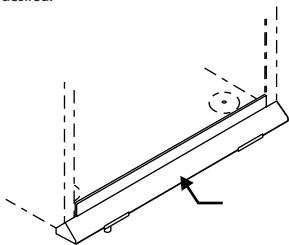
INCORRECT Horizontal Louvers



Installation Accessories (27" sleeve models only)

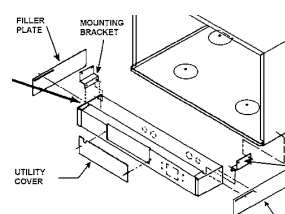
DK / Drain Kit

Installed at the back of the unit and allows
for attachment to permanent condensate
disposal system, if disposal is necessary
or desired.



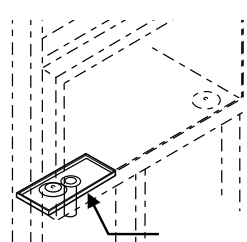
SB / Sub Base

Used as a base for the unit when
it is desired to place the cord and
receptacle within the installation, or
simply as a base for the unit when
mounted low in the wall.



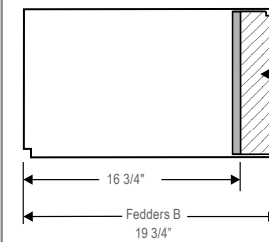
IDK / Internal Drain Kit

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

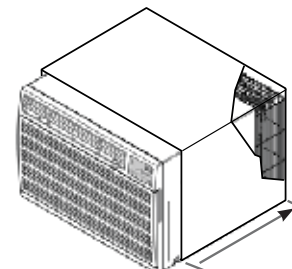
STANDARD GRILLE – Ships with USC sleeve
Expanded aluminum grille designed for use with USC
sleeve.

REPLACEMENT GRILLE – Ships with US/UE chassis
High-tech 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

							Thru-the-wall Finished Hole		
Model	Height	Width	Depth	Depth with Front	Minimum Extension Into Room	Minimum Extension Outside	Height	Width	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"		20 1/8"	3 3/4"	–	–	–	–
UE Chassis	14 3/8"	24 5/8"		19 5/8"	3 1/2"	–	–	–	–



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

IMPORTANT:
US chassis w/front fully installed into USC sleeve
extends into room 3-3/8". UE chassis w/front fully
installed into USC sleeve extends into room 2-7/8".

IMPORTANT: Sleeves are sold and shipped separately to accommodate new construction and replacement requirements

NOTE: For Technical Data see end of section.

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FRIEDRICH AIR CONDITIONING

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PACKAGED TERMINAL AIR CONDITIONERS (PTAC) – DIGITAL

Standard features often only found on the premium models of other brands

Electronic Temperature Limiting Owners and operators will appreciate the flexibility to set separate heat and cool range limits.

Constant Comfort Room Monitoring The digital control panel will automatically run the fan to briefly sample the room temperature every nine minutes to ensure desired conditions are maintained.

Desk Control Ready Allows hotel owners to control units from a central location.

Auxiliary Fan Ready Allows multiple rooms to share one unit.

Remote Thermostat Operation Control Friedrich units using either a wall-mounted thermostat, remote control or built-in controls.

“Instant Heat” Heat Pump Mode Instant heat quickly heats a room to the desired temperature for increased comfort.

Remote Control Operation New remote control lets user operate with more convenience (remote control is an optional accessory).

Even Heat Monitoring Checks room temperature and automatically adds heat boost if necessary.

Random Compressor Restart Protects electrical systems from overload when power is restored.

High efficiency Reduces your operating costs.

Room Freeze Protection Heat initiated if temperature falls to 40°F in an unoccupied room, raising temperature to 46°F.

Filtered Fresh Air Intake Ideal for applications where indoor air quality is important.

Fan Cycle Control Select fan cycling or continuous fan operation for more comfort options.

Electronic Defrost Control Ensures more run time in the efficient heat pump mode.

Individually Palletized Whether you order 1 or 100 units, each unit is individually palletized to reduce the risk of shipping damage.



DIGITAL CONTROLS

Large, easy-to-read LED display for precise temperature control and energy savings.



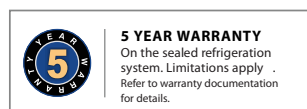
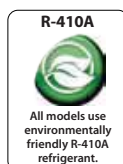
ANTIMICROBIAL AIR FILTERS

Top-mounted for quick access. Easy to clean. Antimicrobial protection against fungal and bacterial growth.



REMOTE CONTROL

Optional accessory for added guest comfort. Ideal for ADA compliant rooms and properties with guest satisfaction programs.



REMOTE THERMOSTAT READY
Operates with optional Friedrich digital remote thermostat for user convenience.



NOTE: For Technical Data see end of section.

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FRIEDRICH AIR CONDITIONING

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PACKAGED TERMINAL AIR CONDITIONERS (PTAC) –

DIGITAL (cont'd)

OPTIONAL ACCESSORIES

Wall Sleeve — PDXWS

Galvanized steel is prepared in a state-of-the-art, multistep process for stronger paint adhesion, then powder coated with a polyester finish and cured in an oven for exceptional durability. The wall sleeve is insulated for thermal efficiency. 16" x 42" x 13-3/4"

Standard Grille — PXGA

Standard, stamped, anodized aluminum to resist chalking and oxidation.

Deep Wall Sleeve Extension — PXWE

A 4" deep, anodized aluminum extension that attaches to the outside of the wall sleeve when the wall is greater than 13-1/4" thick (11-3/4" when a subbase is used, and 12-1/4" when a lateral duct is used).

Digital Remote Thermostats

RT4 Digital, single stage thermostat. Hard wired with single speed fan.

RT5 Digital, single stage thermostat features high/low fan speed switch. Thermostat is hard wired and can be battery powered or unit powered. Features backlit display and multiple configuration modes. Mounts to wall for control of unit.

Remote Thermostat Escutcheon Kit — PDXRT

Kit contains ten escutcheons that can be placed over the factory control buttons when a remote wall mounted thermostat is used. The escutcheon directs the guest to the wall thermostat for operation and retains the LED window to display error codes and diagnostic information.

Remote Control — PDXRC

One hand-held remote for control of PTAC unit. 2008 models and later only.

Sleeve Extension Retrofit Kit — PXSE

2-1/4" sleeve extension attached to the room side of the sleeve to allow for the installation of a PD-series Friedrich PTAC in a 11-1/2" deep T-series sleeve.

Architectural Grilles

Architectural grilles that consist of heavy gauge 6063-T5 aluminum alloy.

PXAA: Clear extruded aluminum. **PXBG:** Beige acrylic enamel. **PXSC:** Available in custom colours.

Decorative Subbase — PXSBB

Provides unit support for walls less than six inches thick. Includes leveling legs, side filler panels and mounting brackets for electrical accessories. Accepts circuit breaker, power disconnect switch and conduit kit.

Condensate Drain Kit — PXDR10

Attaches to the bottom of the wall sleeve for internal draining of condensate or to the rear wall sleeve flange for external draining. Recommended for all units to remove excess condensate. Packaged in quantities of ten.

Conduit Kit With Junction Box — PXCJ

Hard wire conduit kit with junction box for 208/230V and 265V units (subbase not required). Kit includes a means of quick disconnect for easy removal of the chassis.

**Required for 265V installations.*

Power Cord Retrofit — PXPC 15/20/30

Replaces LCDI power cord on 230V models when unit is used with a subbase. PXPC15 is used with 15 amp (0 kW and 2.5 kW) units. PXPC20 is used with 20 amp (3.4 kW) units. PXPC30 is used with 30 amp (5.0 kW) units.

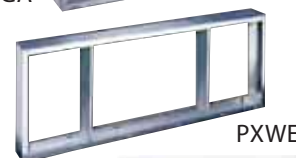
NOTE: For Technical Data see end of section.



PDXWS



PXGA



PXWE



RT4

RT5



PDXRT



PDXRC



PXSE



PXAA



PXSBB



PXDR10



PXCJ

PXPC15/20/30

FRIEDRICH AIR CONDITIONING

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PACKAGED TERMINAL AIR CONDITIONERS (PTAC) – DIGITAL (cont'd)

ULTRAQUIET DESIGN

Ultraquiet Air System Moves the air very quietly and efficiently. Low/sleep setting is noticeably quieter than other popular brands.

Quiet Start/Stop Fan Delay Soft start/stop feature that reduces transitional noise that is usually associated with compressor start-up.

Quiet, Efficient Rotary Compressor Mounted with vibration isolators to keep the compressor running smoothly and quietly.

DESIGNED FOR A LONGER PRODUCT LIFE

Durable Design Tamper-resistant grille, enclosed clamshell motor and dual thumbscrews are just some of the features that Friedrich engineers added for a longer product life.

Powder Coat Paint Process Durable, powder coat paint finish.

Aluminum Endplates Corrosion-resistant construction for longer life.

Indoor Coil Frost Sensor Protects the compressor to lengthen the life of the unit.

EASY SERVICEABILITY

Single Motor Design Fewer parts to maintain.




Service Error Code Storage Error code memory facilitates improved unit diagnostics.

Top-Mounted Antimicrobial Air Filters Quick and easy access. Easy to clean. Protection from fungal and bacterial growth.

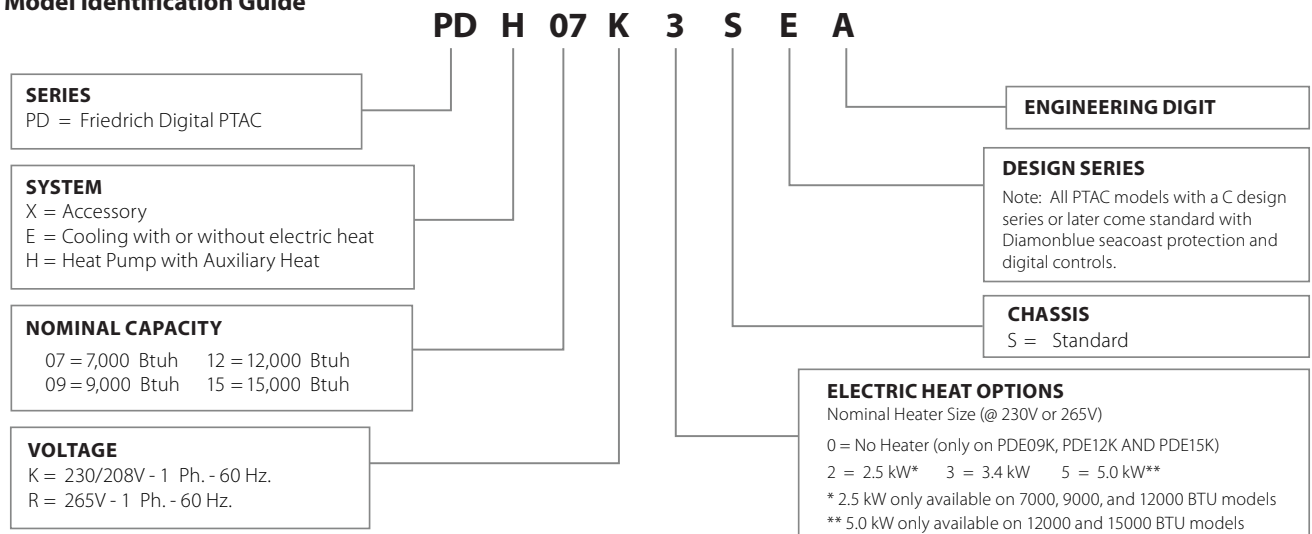
Emergency Heat Override Ensures heat mode operation even in the unlikely event of compressor failure.

NOTE: Sleeves are sold and shipped separately to accommodate new construction and replacement requirements.



250 V Receptacles and Fuse Types			
AMPS	15	20	30
HEATER SIZE	0, 2.5 kW	3.4 kW	5.0 kW
RECEPTACLE			

Model Identification Guide



NOTE: For Technical Data see end of section.

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FRIEDRICH AIR CONDITIONING

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VERTICAL SINGLE PACKAGE AIR CONDITIONERS (VERT-I-PAK)

IDEAL FOR EXTENDED STAY PROPERTIES, SUITES, ASSISTED LIVING FACILITIES, STUDENT HOUSING AND COMMERCIAL SPACES

Condition Multiple Rooms A single VERT-I-PAK unit may be ducted for flexible zone cooling in multiple rooms.

Concealed Installation Guests will appreciate the homelike feel of a guest room or suite with a hidden cooling system. Also, everyone enjoys the benefits and comfort of individual in-room temperature control.

Quieter than Exposed Cooling Options Because the VERT-I-PAK installs in a typical mechanical closet, units are quieter than other in-room air conditioning options. Even quieter operating sound levels may be achieved by insulating the closet.

Added Value VERT-I-PAK is less expensive to install and maintain than multiple units for multiple rooms. And energy efficient operation means lower operating costs.

Heat and Cool Larger Areas and Common Spaces Available in capacities from 9000 – 23000 BTU/h, VERT-I-PAK units can easily cool larger suites and common areas.

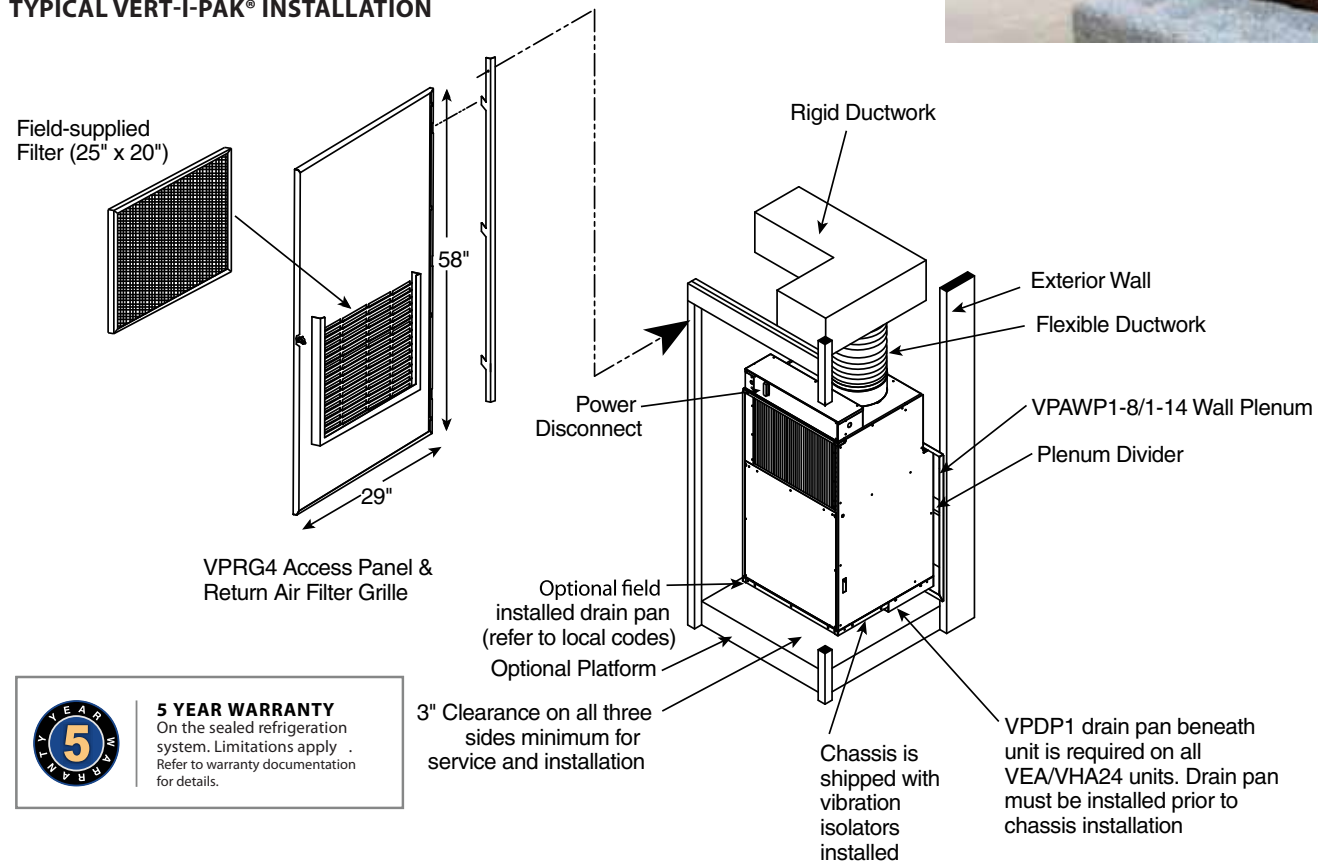
Installs as Easily as a PTAC All units are pre-wired, charged and piped, so only electrical hook up is needed to be up and running.

100% Run Tested Prior to Shipment Every unit is tested in every operating mode before it ships for optimal performance and reliability.

Give Your Property a Homelike Appearance VERT-I-PAK fits neatly into a typical mechanical closet, so you can create indoor living spaces that are more versatile. Guests and tenants will enjoy a quieter and more visually dynamic living environment.



TYPICAL VERT-I-PAK® INSTALLATION



NOTE: For Technical Data see end of section.

FRIEDRICH AIR CONDITIONING

www.friedrich.com

VERTICAL SINGLE PACKAGE AIR CONDITIONERS —

VERT-I-PAK (cont'd)

PREMIUM FEATURES AND ADVANTAGES

- Completely self-contained
- Ultraquiet operation
- Unique free-floating chassis
- Eliminates the clutter of split systems and the need for multiple PTACs
- No refrigerant lines running from floor to floor
- Easy installation; does not require an HVAC technician
- Standard safety power disconnect
- Electronic control panel on unit for easy diagnostics and servicing
- All units are shipped (on pallet) with return air filter
- 24-volt remote thermostat ready
- High/low fan speed can be selected at thermostat for improved comfort and sound (RT5 thermostat only)
- 10" crimped and beaded duct collar ready to attach flex duct
- Easy-to-connect, right or left drain connection
- Installs easily on an outside wall
- Corrosion resistant interior
- Easy-to-install front, left, or right hand into closet
- Compact and lightweight, weighs as little as 125 lbs.

Finished units are unpainted galvanized metal.



OPTIONAL ACCESSORIES

Architectural Louver — VPAL2 and VPSC2

Extruded aluminum grille that attaches to the outdoor section of the wall plenum. Takes in fresh air and returns condensed air. VPSC2 can be ordered in custom colours. Dimensions: 25-9/16" W x 31-1/16" H

Return Air Grille / Access Panel — VPRG4

Hinged panel allows access to unit and return air filter. A field-supplied filter (25" x 20") is mounted inside the grille. Panel can be mounted with return air openings high or low on the door for optimum sound attenuation. Dimensions: 29" W x 58" H.

Cutout dimensions: 27" W x 55-3/4" H

Wall Plenum — VPAWP1-8, VPAWP1-14

Two-part sleeve that telescopes in and out. Sits inside the exterior wall penetration. VPAWP1-8 telescopes from 5-1/2" – 8". VPAWP1-14 telescopes from 8" – 14". Dimensions: 24-1/8" W x 30-3/8" H Cutout dimensions: 24-5/8" W x 30-7/8" H

Single Stage Thermostat — RT4

Single stage, wall-mounted digital thermostat for control of Friedrich VERT-I-PAK.

Single Stage Thermostat — RT5

Single stage, wall-mounted digital thermostat with two fan speeds and backlight for control of Friedrich VERT-I-PAK.

NOTE: For Technical Data see end of section.



VPAL2 and VPSC2



VPRG4

VPAWP1-8
VPAWP1-14


RT4

RT5

FRIEDRICH AIR CONDITIONING

www.friedrich.com

PORTABLE AIR CONDITIONERS

Bucketless Design

Self evaporative condensate system means no bucket to empty. If tank should become full, the unit will automatically shut off and unit can be drained through the water outlet drain.

Features

- 3-IN-1 SYSTEM: Air conditioner, dehumidifier and fan
- LCD remote control
- Self evaporative condensate system
- 24 hour timer
- 3 fan speeds
- Plugs into standard 115 volt outlet
- Exhaust hoses and window kit included


Ideal for these applications

- Workshops and garages
- Home offices
- Dorm rooms
- Bedrooms, attics and basements
- Sunrooms/ enclosed patios
- Supplemental or emergency cooling anywhere

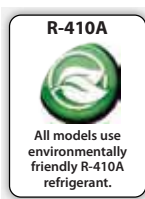
NOTE: Venting of the unit to the outside is required for operating efficiency.

Specifications

Model		P09B	P12B
PERFORMANCE			
Cooling Capacity	BTU/h	9300	11600
Energy Efficiency Rating	EER	9.4	8.8
Air Movement	CFM	212	235
Moisture Removal	Pts/hr.	5.0	6.0
SPECIFICATIONS			
Rated Current	Amps	10.8	11.5
Refrigerant Type		R410A	
Power Supply	Volts	115	
Dimensions- Inches	W	19 1/4	
	H	33 1/2	
	D	15 1/2	
Net Weight	Lbs.	89	90

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

Specifications subject to change without notice



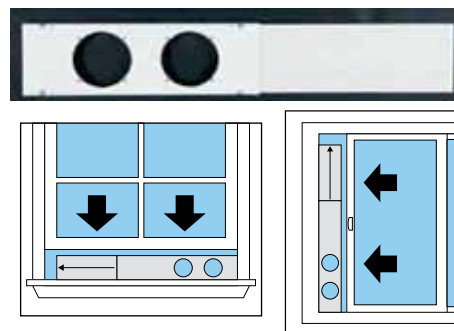
Hoses Extend
from 24" to 60"



PORTABLE ACCESSORIES

DUAL INTAKE/EXHAUST HOSES (Included)
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"*
Window Opening Maximum: 46"

*Window slider kit can be trimmed to fit a smaller opening.

FRIEDRICH AIR CONDITIONING

www.friedrich.com

DEHUMIDIFIERS

25 | 50 | 70 Pint Capacity

Digital humidity controls with auto drain for worry-free operation.

Features

- Top mount, digital touch controls
- 24 hr. ON/OFF timer
- 2 speed fan
- Displays room temp and humidity %
- Displays °F/°C
- Set humidity level from 30% to 90% RH
- Automatic defrost cycle
- Low ambient operation down to 41°F
- High efficiency ENERGY STAR® models
- Removable condensate bucket with carry handle
- Continuous drainage operation
- Built-in drain pump (models D50D and D70D)
- Washable, slide-out filter
- Built-in casters for easy mobility (models D50D and D70D); casters included with model D25D



25 Pint Capacity

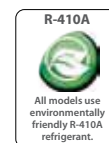
50 and 75 Pint Capacity

Installation Features

- 6' power cord
- Plugs into standard 115 volt outlet


Applications

- Basements
- Bedrooms
- Any area requiring humidity control



Specifications

Model	D25D	D50D	D70D
Capacity- Pints/day	25	50	70
Energy Star	YES	YES	YES
Controls	DIGITAL	DIGITAL	DIGITAL
Dimensions (inches)	21 1/4" H x 13 15/16" W x 9 5/8" D	23 1/4" H x 15" W x 11 1/2" D	
Net Weight lbs.	32	44	44
Refrigerant	R-410A	R-410A	R-410A

Model	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA)	Wall Outlet Appearance	Power Cord Length
All models	125V-15A	5-15P		6 FT.

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.

One year limited warranty on parts and labour; five years on the sealed refrigeration system.

TECHNICAL DATA

DUCTLESS SPLIT SYSTEMS

Wall Mounted Cooling

PERFORMANCE RATINGS					
SYSTEM MODEL NO.		M18CF	M24CF	M30CF	M36CF
INDOOR MODEL		MW18C3F	MW24C3F	MW30C3F	MW36C3F
OUTDOOR MODEL		MR18C3F	MR24C3F	MR30C3F	MR36C3F
Capacity Cooling	BTU/h	18000	24200	30700	33100
Capacity Cooling Min - Max	BTU/h	5500-19000	5200-26000	9900-34200	9900-34100
Sensible Heat Ratio		0.63	0.76	0.67	0.67
SEER		19.0	18.0	15.0	15.0
EER		10.4	10.5	8.9	8.2
Moisture Removal	Pts/h	5.9	5.3	9.7	10.1
Airflow (Quiet, Low, Med, High)	CFM	240/290/355/415	380/450/560/650	380/450/560/650	365/440/530/700
Sound Rating - Indoor	dB-A	25/32/38/44	32/36/41/47	32/36/41/47	32/36/41/49
Sound Rating - Outdoor	dB-A	50	52	53	54
Operating Range	°F	0 - 115	0 - 115	0 - 115	0 - 115
ELECTRICAL DATA					
Power Source		230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1
Min. Ampacity	A	16	21	22	22
Cooling Watts	W	1730	2310	3460	4040
Max. TD Fuse/Breaker	A	20	25	30	30
REFRIGERATION SYSTEM					
Refrigerant		R410A	R410A	R410A	R410A
Compressor Type		INVERTER	INVERTER	INVERTER	INVERTER
Connections		Flare	Flare	Flare	Flare
Liquid Line O.D.	in	1/4	1/4	3/8	3/8
Suction Line O.D.	in	1/2	5/8	5/8	5/8
Factory Precharge	ft	49	49	66	66
Max. Line Length	ft	66	98	164	164
Max. Height Difference	ft	49	66	98	98
DIMENSIONS & WEIGHT					
INDOOR UNIT	W x H x D	in 31 1/8 x 10 7/8 x 8 1/2	39 1/4 x 12 5/8 x 9	39 1/4 x 12 5/8 x 9	39 1/4 x 12 5/8 x 9
	Net Weight	lbs 21	31	31	31
	Shipping Weight	lbs 26	40	40	40
OUTDOOR UNIT	W x H x D	in 31 1/8 x 22 3/4 x 12 3/8	31 1/8 x 22 3/4 x 12 3/8	35 3/8 x 32 5/8 x 13	35 3/8 x 32 5/8 x 13
	Net Weight	lbs 88	97	137	137
	Shipping Weight	lbs 98	106	155	155

Wall Mounted Heat Pumps

PERFORMANCE RATINGS					
SYSTEM MODEL NO.		M09YG	M12YG	M18YF	M24YF
INDOOR MODEL		MW09Y3G	MW12Y3G	MW18Y3F	MW24Y3F
OUTDOOR MODEL		MR09Y3G	MR12Y3G	MR18Y3F	MR24Y3F
Capacity Cooling	BTU/h	8500	11500	18000	24200
Cooling Capacity Min - Max	BTU/h	1700-10900	3100-13300	5500-19000	5200-26000
Sensible Heat Ratio		0.71	0.71	0.63	0.76
Capacity Heating@ 47°F	BTU/h	10000	14000	21600	27600
Capacity Heating Min - Max	BTU/h	1700-15000	3100-19100	4600-29000	4100-36200
Capacity Heating@ 17°F	BTU/h	8500	11000	13700	17800
HSPF		10.0	10.0	10.0	10.0
SEER		20.0	20.0	19.0	18.0
EER		12.3	12.1	10.4	10.5
Moisture Removal	Pts/h	2.8	3.8	5.9	5.3
Airflow (Quiet, Low, Med, High)	CFM	178/260/361/444	178/260/361/444	240/290/355/415	380/450/560/650
Sound Rating - Indoor	dB-A	22/33/38/43	22/33/38/43	25/32/38/44	32/36/41/47
Sound Rating - Outdoor	dB-A	46	49	50	52
Operating Range COOL (HEAT)	°F	0 - 115 (17-75)	0 - 115 (17-75)	0 - 115 (5-75)	0 - 115 (5-75)
ELECTRICAL DATA					
Power Source		230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1
Min. Ampacity	A	15	15	16	21
Cooling Watts	W	690	930	1730	2310
Max. TD Fuse/Breaker	A	15	15	20	30
REFRIGERATION SYSTEM					
Refrigerant		R410A	R410A	R410A	R410A
Compressor Type		INVERTER	INVERTER	INVERTER	INVERTER
Connections		Flare	Flare	Flare	Flare
Liquid Line O.D.	in	1/4	1/4	1/4	1/4
Suction Line O.D.	in	3/8	3/8	1/2	5/8
Factory Precharge	ft	25	25	49	49
Max. Line Length	ft	66	66	66	98
Max. Height Difference	ft	49	49	49	66
DIMENSIONS & WEIGHT					
INDOOR UNIT	W x H x D	in 31 1/8 x 10 1/4 x 7 5/8	31 1/8 x 10 1/4 x 7 5/8	31 1/8 x 10 7/8 x 8 1/2	39 1/4 x 12 5/8 x 9
	Net Weight	lbs 16.5	16.5	21	31
	Shipping Weight	lbs 21	21	26	40
OUTDOOR UNIT	W x H x D	in 26 x 21 1/4 x 11 3/8	26 x 21 1/4 x 11 3/8	31 1/8 x 22 3/4 x 12 3/8	31 1/8 x 22 3/4 x 12 3/8
	Net Weight	lbs 55	71	88	97
	Shipping Weight	lbs 63	78	98	106

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TECHNICAL DATA (cont'd)

DUCTLESS SPLIT SYSTEMS (cont'd)

Dual-Zone Heat Pumps

Quad-Zone Heat Pumps

PERFORMANCE RATINGS					
SYSTEM MODEL NO.	M18DYF	M21DYF	M24DYF	M36QYF	
INDOOR MODEL	2 x MW09Y3FM	MW09Y3FM	MW12Y3FM	2 x MW12Y3FM	4 x MW09Y3FM
OUTDOOR MODEL	MR24DY3F	MR24DY3F	MR24DY3F	MR24DY3F	MR36TQY3F
Capacity Cooling BTU/h	9500 ea.	9500 ea.	12000	12000 ea.	8800 ea.
Capacity Cooling Min - Max BTU/h	5100-11300	5100-11300	5100-13600	5100-13600	5100-11300
Sensible Heat Ratio	0.77	0.77	0.77	0.77	0.71
Capacity Heating @ 47°F BTU/h	11000 ea.	11000 ea.	14000	14000 ea.	9500 ea.
Capacity Heating Min - Max BTU/h	5100-13000 ea.	5100-13000 ea.	5100-15400 ea.	5100-15400 ea.	5100-13000 ea.
Capacity Heating @ 17°F BTU/h	9500 ea.	9500 ea.	11000	10500 ea.	6600 ea.
HSPF	9.0	9.0	9.0	9.0	9.0
SEER	16.5	16.5	16.5	16.5	15.0
EER	12.2	11.2	10.4	10.4	8.8
Moisture Removal Pts/h	2.9 ea.	2.9 ea.	3.7 ea.	3.7 ea.	2.9 ea.
Airflow (Quiet, Low, Med, High) CFM	185/220/260/295	185/220/260/295	215/250/305/355	215/250/305/355	185/220/260/295
Sound Rating - Indoor dB-A	27/29/33/37	27/29/33/37	30/34/39/42	30/34/39/42	27/29/33/37
Sound Rating - Outdoor dB-A	52	52	52	52	52
Operating Range COOL (HEAT) °F	0 - 115 (14-75)	0 - 115 (14-75)	0 - 115 (14-75)	0 - 115 (14-75)	0 - 115 (14-75)
ELECTRICAL DATA (all indoor units receive power from outdoor unit; values listed are total)					
Power Source	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1
Min. Ampacity A	15	15	15	15	22.5
Cooling Watts W	1600	1900	2300	2300	3900
Max. TD Fuse/Breaker A	20	20	20	20	30
REFRIGERATION SYSTEM					
Refrigerant	R410A	R410A	R410A	R410A	R410A
Compressor Type	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER
Connections	Flare	Flare	Flare	Flare	Flare
Liquid Line O.D. in	1/4	1/4	1/4	1/4	1/4
Suction Line O.D. in	3/8	3/8	3/8	3/8	3/8
Factory Precharge ft	98	98	98	98	165
Max. Line Length ft	Each unit:82 Total:98	Each unit:82 Total:98	Each unit:82 Total:98	Each unit:82 Total:98	Each unit:82 Total:230
Max. Height Difference ft	33	33	33	33	49
DIMENSIONS & WEIGHT					
INDOOR UNIT	W x H x D in	31 1/8 x 10 7/8 x 8 1/2 ea.	31 1/8 x 10 7/8 x 8 1/2 ea.	31 1/8 x 10 7/8 x 8 1/2 ea.	31 1/8 x 10 7/8 x 8 1/2 ea.
	Net Weight lbs	21 ea.	21	21 ea.	21 ea.
	Shipping Weight lbs	26 ea.	26	26 ea.	26 ea.
OUTDOOR UNIT	W x H x D in	35 3/8 x 32 5/8 x 13	35 3/8 x 32 5/8 x 13	35 3/8 x 32 5/8 x 13	35 3/8 x 32 5/8 x 13
	Net Weight lbs	151	151	151	159
	Shipping Weight lbs	164	164	164	172

Tri-Zone Heat Pumps

PERFORMANCE RATINGS									
SYSTEM MODEL NO.	M27TYF	M30TYF	M33TYF	M36TYF1	M36TYF2				
INDOOR MODEL	3 x MW09Y3FM	2 x MW09Y3FM	MW12Y3FM	MW09Y3FM	2 x MW12Y3FM	2 x MW09Y3FM	MW18Y3FM	3 x MW12Y3FM	
OUTDOOR MODEL	MR36TQY3F	MR36TQY3F	MR36TQY3F	MR36TQY3F	MR36TQY3F	MR36TQY3F	MR36TQY3F	MR36TQY3F	
Capacity Cooling BTU/h	9200 ea.	9300 ea.	11800	9400	11800 ea.	9100 ea.	17000	11700 ea.	
Capacity Cooling Min - Max BTU/h	5100-11300	5100-11300	5100-13600	5100-11300	5100-13600	5100-11300	5100-19000	5100-15400	
Sensible Heat Ratio	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	
Capacity Heating @ 47°F BTU/h	11200 ea.	11000 ea.	14000	10700	13600 ea.	9800 ea.	18400	12700 ea.	
Capacity Heating Min - Max BTU/h	5100-13000	5100-13000	5100-15400	5100-13000	5100-15400	5100-13000	5500-23000	5100-15400	
Capacity Heating @ 17°F BTU/h	8300 ea.	7700 ea.	9800	7200	9200 ea.	6700 ea.	12500	8600 ea.	
HSPF	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
SEER	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	
EER	10.0	9.2	8.8	8.8	8.8	8.8	8.8	8.8	
Moisture Removal Pts/h	2.9 ea.	2.9 ea.	3.7	2.9	3.7 ea.	2.9 ea.	5.7	3.7 ea.	
Airflow (Quiet, Low, Med, High) CFM	185/220/260/295	185/220/260/295	215/250/305/355	185/220/260/295	215/250/305/355	185/220/260/295	240/290/355/415	215/250/305/355	
Sound Rating - Indoor dB-A	27/29/33/37	27/29/33/37	30/34/39/42	27/29/33/37	30/34/39/42	27/29/33/37	33/39/42/46	30/34/39/42	
Sound Rating - Outdoor dB-A	52	52	52	52	52	52	52	52	
Operating Range COOL (HEAT) °F	0 - 115 (14-75)	0 - 115 (14-75)	0 - 115 (14-75)	0 - 115 (14-75)	0 - 115 (14-75)	0 - 115 (14-75)	0 - 115 (14-75)	0 - 115 (14-75)	
ELECTRICAL DATA (all indoor units receive power from outdoor unit; values listed are total)									
Power Source	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1	
Min. Ampacity A	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	
Cooling Watts W	2710	3180	3710	3710	4000	4000	3980	3980	
Max. TD Fuse/Breaker A	30	30	30	30	30	30	30	30	
REFRIGERATION SYSTEM									
Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	
Compressor Type	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	
Connections	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	
Liquid Line O.D. in	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
Suction Line O.D. in	3/8	3/8	3/8	3/8	3/8	3/8	1/2	3/8	
Factory Precharge ft	165	165	165	165	165	165	165	165	
Max. Line Length ft	Each unit:82 Total:230	Each unit:82 Total:230	Each unit:82 Total:230	Each unit:82 Total:230	Each unit:82 Total:230	Each unit:82 Total:230	Each unit:82 Total:230	Each unit:82 Total:230	
Max. Height Difference ft	49	49	49	49	49	49	49	49	
DIMENSIONS & WEIGHT									
INDOOR UNIT	W x H x D in	31 1/8 x 10 7/8 x 8 1/2 ea.	31 1/8 x 10 7/8 x 8 1/2 ea.	31 1/8 x 10 7/8 x 8 1/2	31 1/8 x 10 7/8 x 8 1/2	31 1/8 x 10 7/8 x 8 1/2	31 1/8 x 10 7/8 x 8 1/2	31 1/8 x 10 7/8 x 8 1/2	
	Net Weight lbs	21 ea.	21	21	21 ea.	21 ea.	21	21 ea.	
	Shipping Weight lbs	26 ea.	26 ea.	26	26 ea.	26 ea.	26	26 ea.	
OUTDOOR UNIT	W x H x D in	35 3/8 x 32 5/8 x 13	35 3/8 x 32 5/8 x 13	35 3/8 x 32 5/8 x 13	35 3/8 x 32 5/8 x 13	35 3/8 x 32 5/8 x 13	35 3/8 x 32 5/8 x 13	35 3/8 x 32 5/8 x 13	
	Net Weight lbs	159	159	159	159	159	159	159	
	Shipping Weight lbs	172	172	172	172	172	172	172	

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TECHNICAL DATA (cont'd)

DUCTLESS SPLIT SYSTEMS (cont'd)

Ceiling and Floor/Ceiling Universal Heat Pumps

	floor/ceiling universal	ceiling suspended	ceiling cassette
PERFORMANCE RATINGS			
SYSTEM MODEL NO.	S24YF	S36YF	C24YF
INDOOR MODEL	MS24Y3F	MS36Y3F	MC24Y3F
OUTDOOR MODEL	MR24UY3F	MR36Y3F	MR24UY3F
Capacity Cooling BTU/h	22200	34100	22200
Capacity Cooling Min - Max BTU/h	5000-27300	8500-36000	5000-27300
Sensible Heat Ratio	0.62	0.67	0.64
Capacity Heating @ 47°F BTU/h	24200	36400	24200
Capacity Heating Min - Max BTU/h	5000-29000	9200-42700	5000-29000
Capacity Heating @ 17°F BTU/h	15000	23400	14600
HSPF	8.5	8.5	8.5
SEER	15.0	14.0	15.0
EER	9.8	8.1	10.6
Moisture Removal Pts/h	7.4	7.4	6.4
Airflow (Low, Med, High) CFM	371/436/518	842/977/1089	436/536/618
Sound Rating - Indoor dB-A	38/43/47	41/45/48	38/43/45
Sound Rating - Outdoor dB-A	53	54	53
Operating Range COOL (HEAT) °F	0 to 115 (14-75)	0 to 115 (14-75)	0 to 115 (14-75)
ELECTRICAL DATA			
Power Source	230/208-60-1	230/208-60-1	230/208-60-1
Min. Ampacity A	15.5	23	15.5
Cooling Watts W	2250	4220	2100
Max. TD Fuse/Breaker A	20	30	20
REFRIGERATION SYSTEM			
Refrigerant	R410A	R410A	R410A
Compressor Type	INVERTER (Twin Rotary)	INVERTER (Twin Rotary)	INVERTER (Twin Rotary)
Connections	Flare	Flare	Flare
Liquid Line O.D. in	3/8	3/8	3/8
Suction Line O.D. in	5/8	5/8	5/8
Factory Precharge ft	50	50	50
Max. Line Length ft	165	165	165
Max. Height Difference ft	66	98	66
DIMENSIONS & WEIGHT			
INDOOR UNIT	W x H x D in	39 x 7 7/8 x 25 3/4	65 3/8 x 9 1/2 x 27 1/2
	Net Weight lbs	62	106
	Shipping Weight lbs	82	134
OUTDOOR UNIT	W x H x D in	35 3/8 x 32 5/8 x 13	35 3/8 x 32 5/8 x 13
	Net Weight lbs	141	141
	Shipping Weight lbs	154	154

Refrigeration Line Sets

USED WITH:	LENGTH-FT.	LIQUID	SUCTION	KIT#
All 9000 and 12000 BTU/h Indoor Units	15	1/4"	3/8"	T32150
	35	1/4"	3/8"	T32350
All 18000 BTU/h Indoor Units	15	1/4"	1/2"	T42150
	35	1/4"	1/2"	T42350
All MW24Y3F and MW24C3F Units	15	1/4"	5/8"	T52150
	35	1/4"	5/8"	T52350
All 30000 BTU/h Indoor Units and S24YF, S36YF and C24YF Units	15	3/8"	5/8"	T53150
	35	3/8"	5/8"	T53350

Insulated line sets are available for all Friedrich split systems in 15 ft. and 35 ft. lengths. Each line set is equipped with flare nuts on both ends. Both liquid and suction lines are insulated. Line sets can be joined together with field supplied double female connectors. Each system requires one line set for each indoor unit installed. On multi-zone systems, line sets should be ordered based on individual indoor unit capacities not total system capacity. For example, a M18DYF uses 2 line sets for 9,000 btu units, not 1 for the 18,000 btu product.

DRAIN PUMP	USED WITH
DP-36	S36YF

NOTE: All models have low ambient capabilities built-in. Capacity is reduced as 0 degrees Fahrenheit is approached.

NOTE: All R410A models have 1/2" UNF 20 thread per inch charging and vacuuming ports. An adapter must be used for 1/4" gauges. Adapter part number 67270018 is available P.O.A.

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TECHNICAL DATA (cont'd)

ROOM AIR CONDITIONERS

Specifications

★ ENERGY STAR® Qualified

Model	Cooling Capacity Btu	Heating Capacity Btu	Volts Rated	Cooling Amps	Cooling Watts	Heating Amps	Heating Watts	COP	Energy Efficiency Ratio EER	Estimated Yearly Operating Cost	Moisture Removal Pints/HR	Room Side Air Circulation CFM	Sleeve	Net Weight Lbs
Kühl														
★ SS08M10	7900	—	115	6.1	677	—	—	—	11.7	\$54	1.0	265	S	99
★ SS10M10	9500	—	115	7.7	848	—	—	—	11.2	\$68	2.0	260	S	106
★ SS12M10	12000	—	115	10.0	1071	—	—	—	11.2	\$86	3.0	300	S	112
★ SS14M10	14000	—	115	12.0	1444	—	—	—	9.7	\$115	3.5	325	S	116
★ SS12M30	11700/11200	—	230/208	4.8/4.9	1026/982	—	—	—	11.4/11.4	\$82	2.8	275	S	112
★ SS15M30	14500/14300	—	230/208	6.4/6.8	1405/1385	—	—	—	10.3/10.3	\$112	3.5	360	S	116
★ SM18M30	17500/17200	—	230/208	7.4/8.0	1635/1617	—	—	—	10.7/10.7	\$131	4.6	350	M	140
★ SM21M30	20800/20700	—	230/208	9.4/10.3	2080/2070	—	—	—	10.0/10.0	\$166	6.0	425	M	132
★ SM24M30	23500/23300	—	230/208	11.2/11.9	2500/2479	—	—	—	9.4/9.4	\$200	10.0	390	M	152
★ SL28M30	27800/27000	—	230/208	13.5/14.4	2865/2812	—	—	—	9.7/9.6	\$229	8.5	600	L	193
★ SL36M30	36000/35700	—	230/208	19.0/20.5	4235/4200	—	—	—	8.5/8.5	\$338	12.0	725	L	212
Kühl + Heat Pump														
★ YS10M10*	9500	7500	115	7.8	812	7.6	743	3.0	11.7	\$65	1.9	285	S	109
★ YS12M33	12100/12100	9400/9000	230/208	5.2/5.4	1120/1120	5.6/5.8	1132/1139	2.4	10.8/10.8	\$89	3.0	265	S	115
★ YM18M34	18200/17800	15500/15400	230/208	8.5/8.9	1838/1798	8.5/8.7	1833/1761	2.6	9.9/9.9	\$147	5.4	370	M	141
★ YL24M35	24000/23600	23500/23200	230/208	11.1/12.0	2474/2433	12.2/14.3	2610/2575	2.6	9.7/9.7	\$198	7.0	600	L	197
Kühl + Electric Heat														
ES12M33	11700/11200	10700/8900	230/208	4.8/4.9	1026/982	16.0/14.7	3500/2900	—	11.4/11.4	\$82	2.8	275	S	113
ES15M33	14500/14300	10700/8900	230/208	6.4/6.8	1405/1385	16.0/14.7	3500/2900	—	10.3/10.3	\$112	3.5	360	S	117
EM18M34	17500/17200	13000/10600	230/208	7.4/8.0	1635/1617	19.5/17.0	4200/3500	—	10.7/10.7	\$131	4.6	350	M	141
EM24M34	23500/23300	13000/10600	230/208	11.2/11.9	2500/2479	19.5/17.0	4200/3500	—	9.4/9.4	\$200	10.0	390	M	153
EL36M35	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
XStar -														
★ XQ05M10	5500	—	115	4.5	491	—	—	—	11.2	\$39	1.0	170	Q	72
★ XQ06M10	6000	—	115	4.9	500	—	—	—	12.0	\$40	1.0	175	Q	72
★ XQ08M10	7500	—	115	6.9	701	—	—	—	10.7	\$56	1.7	175	Q	71
★ XQ10M10	9500	—	115	9.0	970	—	—	—	9.8	\$77	2.5	180	Q	71
XStar - Electric Heat														
EQ08M11	7500	4000	115	6.9	701	11.2	1290	—	10.7	\$56	1.9	175	Q	72
CP														
★ CP05N10A	5500	—	115	4.8	510	—	—	—	10.7	\$41	1.3	135	P1	46
★ CP06F10	6000	—	115	5.1	560	—	—	—	10.7	\$45	1.8	210	P6	51
★ CP08F10	7800	—	115	6.8	720	—	—	—	10.8	\$58	2.3	250	P6	54
★ CP10F10	10000	—	115	8.5	920	—	—	—	10.8	\$74	3.0	270	P7	73
★ CP12F10	12000	—	115	10.2	1110	—	—	—	10.8	\$89	3.3	310	P7	73
★ CP15F10	14700	—	115	12.0	1370	—	—	—	10.7	\$110	3.5	470	P4	121
★ CP18F30	18000/17600	—	230/208	8.1/8.8	1680/1640	—	—	—	10.7	\$135	4.6	570	P5	141
★ CP24F30	24230/23540	—	230/208	10.9/11.8	2580/2500	—	—	—	9.4	\$206	7.0	590	P5	165

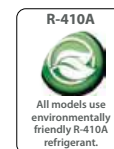
* Operates on 115 volt and is not equipped with supplemental heat. Will not provide heat at temperatures below 40°F. Friedrich room air conditioners are designed to operate in outdoor temperatures from 60° F to 115° F.

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.

Your operating costs will depend on your utility rates and use. The estimated operating cost is based on a 2007 national average electricity cost of 10.65¢ per kWh.



FRIEDRICH AIR CONDITIONING

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TECHNICAL DATA (cont'd)

ROOM AIR CONDITIONERS (cont'd)

Installation Information / Sleeve Dimensions

Sleeve	Height	Width	Depth with Front	Shell Depth to Louvers	Minimum Extension Into Room*	Minimum Extension Outside*	Window Width		Thru-the-wall Installation Finished Hole		
			A	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		
P4	17 1/2"	26"	27 5/8"	8 7/8"	5 1/2"	16 5/8"	26 1/2"	42"	17 3/4"	26 1/4"	8 3/8"
P5	17 1/2"	26"	29 3/4"	8 7/8"	5 1/2"	19 1/2"	26 1/2"	42"	17 3/4"	26 1/4"	8 3/8"
P6	14"	18 3/8"	20 7/8"	8 1/8"	4 1/2"	11"	20 1/8"	36"	14 1/4"	18 3/4"	7 1/2"
P7	15"	23 5/8"	22 1/4"	8 3/4"	4 1/2"	12"	25 1/4"	39"	15 1/4"	23 7/8"	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"
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.

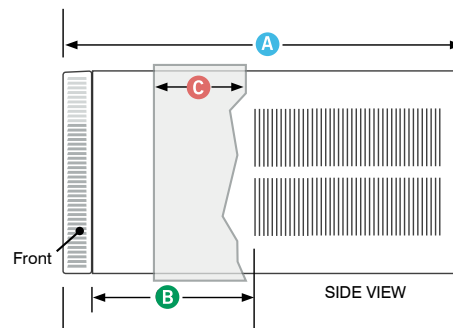
** Minimum widths achieved using one side curtain assembly as opposed to both in a standard installation.

† Sleeve P1 does not have thru-the-wall hole dimensions, as these units are fixed chassis and should not be installed thru-the-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	
CP06, CP08, CP10, CP12 and CP15. All XQ MODELS. SS08M10, SS10M10, SS12M10 and SS14M10. EQ08M11. YS10M10.	125V - 15A	5 - 15P	6	
CP18, SS12M30, SS15M30, SM18M30 and SM21M30.	250V - 15A	6 - 15P	4	
CP24, SM24M30 and SL28M30. ES12M33 and ES15M33. YS12M33.	250V - 20A	6 - 20P	4	
SL36M30. EM18M34, EM24M34 and EL36M35. YM18M34 and YL24M35.	250V - 30A	6 - 30P	4	



Window Mounting Kits

Heat/Cool Models	Kit No.
EQ08M11	WIKQ
ES12M33, ES15M33, YS10M10 and YS12M33.	KWIKS
EM18M34, EM24M34, YM18M34.	KWIKM
EL36M35 and YL24M35.	KWIKL

Friedrich heat/cool models include accessories for thru-the-wall installation only. Window mounting requires use of optional accessory kit as listed above.

Premium Carbon Filters

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

Each kit contains 3 replacement carbon filters

FRIEDRICH AIR CONDITIONING

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TECHNICAL DATA (cont'd)

THRU-THE-WALL AIR CONDITIONERS

Specifications

Model	Cooling Capacity Btu	Heating Capacity Btu	Volts Rated	Cooling Amps	Cooling Watts	Heating Amps	Heating Watts	Energy Efficiency Ratio EER	Estimated Yearly Operating Cost	Moisture Removal Pints/HR	Room Side Air Circulation CFM	Sleeve	Net Weight Lbs
WALLMASTER													
Cool only													
★ WS08C10	7800	NA	115	7.1	788	NA	NA	9.9	†	1.2	250	WSD	93
★ WS10C10	9700	NA	115	10.0	1032	NA	NA	9.4	\$82	2.4	257	WSD	103
★ WS12C10	11900	NA	115	11.8	1266	NA	NA	9.4	\$101	3.3	295	WSD	112
★ WS10C30	9500/9200	NA	230/208	4.5/4.7	989/958	NA	NA	9.6/9.6	\$79	1.5	300	WSD	101
★ WS13C30	12600/12300	NA	230/208	6.3/6.7	1340/1309	NA	NA	9.4/9.4	\$107	3.6	290	WSD	109
★ WS15C30	14500/14500	NA	230/208	8.3/8.2	1706/1706	NA	NA	8.5/8.5	\$136	4.2	290	WSD	119
Heat Pumps													
★ 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
★ 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
Cool with Electric Heat													
WE10C33	9500/9200	11000/9100	230/208	4.5/4.7	989/958	16.0/14.7	3550/2950	9.6/9.6	\$79	1.5	300	WSD	121
WE13C33	12600/12300	11000/9100	230/208	6.3/6.7	1340/1309	16.0/14.7	3550/2950	9.4/9.4	\$107	3.6	290	WSD	107
WE15C33	14500/14500	11000/9100	230/208	8.3/8.8	1706/1706	16.0/14.7	3550/2950	8.5/8.5	\$136	4.2	290	WSD	116
UNI-FIT													
Cool Only													
★ US08C10	8000	-	115	7.5	830	-	-	9.6	\$66	2.2	260	USC	73
★ US10C10	9800	-	115	9.6	1040	-	-	9.4	\$83	3.2	285	USC	78
★ US12C10	11500	-	115	11.2	1220	-	-	9.4	\$97	3.8	290	USC	80
★ US10C30	10000/9800	-	230/208	4.7/5.2	1060/1040	-	-	9.4/9.4	\$85	3.2	285	USC	78
★ US12C30	11500/11200	-	230/208	5.6/6.0	1220/1190	-	-	9.4/9.4	\$97	3.8	290	USC	80
★ US14C30	13000/12600	-	230/208	7.0/7.5	1530/1480	-	-	9.4/9.4	\$122	4.0	310	USC	87
Cool with Electric Heat													
UE08C13	8000	3850	115	7.5	830	10.7	1230	9.6	\$66	2.2	260	USC	73
UE10C33	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
UE12C33	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

WallMaster Heat Pump heating information (shown in bold) indicates heat pump heating performance. WallMaster Electric Heat heating information (shown in bold) 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, WS12C10	US08C10, UE08C13 US10C10, US12C10	125V - 15A	5 - 15P	6	
WS10C30, WS13C30, WS15C30	US10C30, US12C30, US14C30	250V - 15A	6 - 15P	4	
WE10C33, WE13C33, WE15C33, WY09C33, WY12C33	UE10C33, UE12C33	250V - 20A	6 - 20P	4	

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

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.

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

† The estimated yearly operating cost of this model was not available at the time the range was published.



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TECHNICAL DATA (cont'd)
PACKAGED TERMINAL AIR CONDITIONERS (PTAC) — DIGITAL
PDE Series Air Conditioner With Electric Heat — Cooling Performance

MODEL	PDE07K	PDE07R	PDE09K	PDE09R	PDE12K	PDE12R	PDE15K	PDE15R
PERFORMANCE DATA:								
Cooling BTU/h	7500/7300	7500	9000/8500	9000	11500/11300	11500	14500/14200	14000
EER	11.6/11.1	11.4	11.4/11.2	11.0	10.2/10.0	10.1	9.5/9.5	9.5
Dehumidification (pints/hr)	1.7	1.6	3.4	3.3	2.9	2.8	3.8	3.8
ELECTRICAL DATA:								
Voltage (1 PHASE, 60 Hz)	230/208	265	230/208	265	230/208	265	230/208	265
Current (AMPS)	3.3/3.4	2.9	3.6/3.9	3.3	5.5/5.8	4.6	7.0/7.4	6.4
Compressor LRA	18.0	15.0	15.7	13.5	27.0	23.0	32.0	27.0
Compressor RLA	3.2	2.7	3.7	3.1	5.0	4.3	6.3	5.6
AIRFLOW DATA:								
Indoor CFM, HIGH	220	245	220	210	325	315	310	340
Indoor CFM, LOW	200	200	200	200	260	260	280	280
Vent CFM	75	75	75	75	75	75	75	75
PHYSICAL DATA:								
Dimensions	16x42x13.5	16x42x13.5	16x42x13.5	16x42x13.5	16x42x13.5	16x42x13.5	16x42x13.5	16x42x13.5
Net weight (lbs.)	105	105	112	112	120	120	125	125
Shipping weight (lbs.)	125	125	132	132	140	140	145	145
R-410A charge (oz.)	42	33	34	35	33	36	48	42

PDE Series Heat Pump — Heating/Cooling Performance

MODEL	PDH07K	PDH07R	PDH09K	PDH09R	PDH12K	PDH12R	PDH15K	PDH15R
PERFORMANCE DATA:								
Cooling BTU/h	7300/7300	7200	8500/8500	8500	11500/11300	12000	14000/13700	14000
EER	11.1/11.1	11.1	10.8/10.8	10.5	9.9/9.9	9.8	9.4/9.4	9.3
Reverse Heating BTU/h	6400/6400	6300	7800/7800	7700	10000/10000	10500	12800/12800	12800
Power (WATTS) HEAT	625/625	615	762/762	752	1010/1010	1061	1293/1293	1293
COP	3.0/3.0	3.0	3.0/3.0	2.9	2.9/2.9	2.9	2.9/2.9	2.9
Dehumidification (pints/hr)	1.3	1.3	1.9	2.1	2.8	2.9	3.6	3.7
ELECTRICAL DATA:								
Voltage (1 PHASE, 60 Hz)	230/208	265	230/208	265	230/208	265	230/208	265
Current (AMPS)	3.2/3.3	2.8	3.6/3.9	3.3	5.4/5.7	5.2	6.7/7.3	6.3
Reverse heat. AMPS	2.7/2.8	2.6	4.3/4.5	3.0	4.4/4.7	4.4	6.2/6.5	5.6
Compressor LRA	18.0	15.0	15.7	13.5	27.00	23.0	32.0	27.0
Compressor RLA	3.2	2.7	3.7	3.1	5.0	4.5	6.3	5.6
AIRFLOW DATA:								
Indoor CFM, HIGH	210	240	220	210	320	310	315	330
Indoor CFM, LOW	200	200	200	200	260	260	280	280
Vent CFM	75	75	75	75	75	75	75	75
PHYSICAL DATA:								
Dimensions	16x42x13.5	16x42x13.5	16x42x13.5	16x42x13.5	16x42x13.5	16x42x13.5	16x42x13.5	16x42x13.5
Net weight (lbs.)	105	105	112	112	120	120	125	125
Shipping weight (lbs.)	125	125	132	132	140	140	145	145
R-410A charge (oz.)	37	38	35	33	42	42	41	42

PDE/PDH Series — Electric Heating Data

	PDE/PDH07K		PDE/PDH07R		PDE09K0	PDE/PDH09K		PDE/PDH09R	
Heater watts	2500/2050	3400/2780	2500	3400	0 Kw	2500/2050	3400/2780	2500	3400
Voltage	230/208		265			230/208		265	
Heating BTU/h	8500/7000	11600/9500	8500	11600	0	8500/7000	11600/9500	8500	11600
Heating current (AMPS)	11.4/10.4	15.3/13.9	9.8	13.2	0	11.4/10.4	15.3/13.9	9.8	13.2
Minimum circuit ampacity	14.1	19.0	12.2	16.4	5.2	14.1	19	12.2	16.4
Branch circuit fuse (AMPS)	15	20	15	20	15	15	20	15	20

	PDE12K0	PDE/PDH12K			PDE/PDH12R			PDE15K0	PDE/PDH15K			PDE/PDH15R		
Heater watts	0 Kw	2500/2050	3400/2780	5000/4090	2500	3400	5000	0 Kw	2500/2050	3400/2780	5000/4090	2500	3400	5000
Voltage		230/208			265				230/208			265		
Heating BTU/h	0	8500/7000	11600/9500	17000/13900	8500	11600	17000	0	8500/7000	11600/9500	17000/13900	8500	11600	17000
Heating current(AMPS)	0	11.4/10.4	15.3/13.9	22.3/20.3	9.8	13.2	19.5	0	11.4/10.4	15.3/13.9	22.3/20.3	9.8	13.2	19.5
Minimum circuit ampacity	7.9	14.1	19	27.8	12.2	16.4	24.2	8.5	14.1	19	27.8	12.2	16.4	24.2
Branch circuit fuse (AMPS)	15	15	20	30	15	20	30	15	15	20	30	15	20	30

Due to continuing research in new energy-saving technology, specifications are subject to change without notice.
Five-year warranty limited to installations in the United States, Puerto Rico, Mexico and Canada only.
See warranty documentation for full details.



FRIEDRICH AIR CONDITIONING

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TECHNICAL DATA (cont'd)

VERTICAL SINGLE PACKAGE AIR CONDITIONERS (VERTI-PAK)

Specifications

Model	VEA09K	VEA12K	VEA18K	VEA24K	VHA09K	VHA12K	VHA18K	VHA24K
COOLING DATA								
COOLING BTUh	9400/9000	11500/11200	17000/16500	23000/22700	9200/8900	11500/11200	17000/16800	23000/22800
POWER (W)	959/918	1162/1140	1882/1860	2421/2389	939/908	1186/1155	1882/1860	2527/2505
EER	9.8/9.8	9.8/9.8	9.0/9.0	9.5/9.5	9.8/9.8	9.7/9.7	9.1/9.1	9.1/9.1
SENSIBLE HEAT RATIO	0.74	0.72	0.70	0.70	0.74	0.72	0.70	0.70
HEATER SIZE	2.5/3.4/5.0	2.5/3.4/5.0	2.5/3.4/5.0	2.5/3.4/5.0/7.5/10.0	2.5/3.4/5.0	2.5/3.4/5.0	2.5/3.4/5.0	2.5/3.4/5.0/7.5/10.0
HEAT PU mP DATA								
HEATING BTUh	N/A				8500/8000	10800/10600	16000/15000	20000/20000
COP @ 47F	N/A				3.0/3.0	3.0/3.0	3.0/3.0	3.0/3.0
HEATING POWER (W)	N/A				830/811	1055/1035	1560/1540	1953/1953
HEATING CURRENT (A)	N/A				3.6/3.9	4.6/4.9	7.5/8.2	8.5/9.4
ELECTRICAL DATA								
VOLTAGE (1 PHASE, 60 Hz)	230/208	230/208	230/208	230/208	230/208	230/208	230/208	230/208
VOLT RANGE	253-198	253-198	253-198	253-198	253-198	253-198	253-198	253-198
COOLING CURRENT (A)	4.2/4.4	5.2/5.4	8.1/8.6	10.0/10.4	4.1/4.3	5.3/5.5	8.2/8.6	10.6/10.8
AMPS L.R.	22	30	42	34.8	18.5	26	42	34.8
AMPS F.L.	3.7	4.5	7.8	9.5	3.6	5	7.8	9.5
INDOOR MOTOR (HP)	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
INDOOR MOTOR (A)	1.2	1.2	1.2	1.94	1.2	1.2	1.2	1.94
OUTDOOR MOTOR (HP)	N/A			1/4	N/A			1/4
OUTDOOR MOTOR (A)	N/A			.85	N/A			.85
AIRFLOW DATA								
INDOOR CFM*	300	350	450	610	300	420	450	610
VENT CFM	60	60	60	60	60	60	60	60
MAX. ESP	.3"	.3"	.3"	.4"	.3"	.3"	.3"	.4"
PHYSICAL								
DIMENSIONS (W x D x H)	23x23x32	23x23x32	23x23x32	23x23x47	23x23x32	23x23x32	23x23x32	23x23x47
NET WEIGHT (LBS)	114	124	144	167	114	125	144	167
SHIPPING WEIGHT (LBS)	125	135	155	220	125	135	155	220
R410A CHARGE (oz)	33.5	32	48.1	65	38.9	44	48	65

NOTES:

Cooling Standards:

95°F DB/75°F WB outdoor, 80°F DB/67°F WB indoor

Heating Standards:

47°F DB/43°F WB outdoor, 70°F DB/60°F WB indoor

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

*Normal Value Wet Coil @ .1" ESP.

