



HVAC Specialty Products

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THE EXPERTS IN ROOM AIR CONDITIONING



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INCORPORATED

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Visit us at our website www.updinc.com

Kühl® Series



Control via FriedrichLink® with Smartphone, computer or tablet*

FriedrichLink

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

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



SIMPLE OPERATION

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

BUILT-IN 7 DAY SCHEDULES

Kühl units include two 7-day energy management schedules which can be accessed and selected from the unit's controls. The 'Residential' schedule causes Kühl to raise the room temperature temporarily during the hours when most people are away at work and lower them again prior to the time when most people will return home.

The 'Commercial' schedule tells the unit to raise temperatures after typical working hours and on weekends when commercial spaces are typically unoccupied.

CUSTOM 7-DAY SCHEDULE

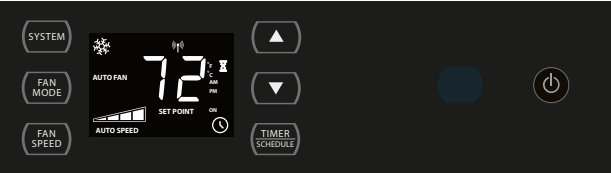
(requires optional accessory sold separately)

Create up to 5 custom programs that you can use to operate your Kühl air conditioner for maximum comfort and efficiency. Each 7-day program allows up to 4 setting changes per day.

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

*FriedrichLink accessory is sold separately

Intuitive controls.



LCD panel auto dims when not in use
Nightlight mode
Temperature and fan adjustment maintain your desired comfort level
Back up system saves settings if power is interrupted

Two built-in 7-day programs
24-hr. timer
Audio feedback option
Auto restart returns unit to previous settings if power is interrupted

Displays set temperature or room temperature
Check filter reminder
Keypad lockout option (ON/OFF) protects settings

* Feature not available on Kühl SQ and EQ models

Kühl® Series

Kühl has unparalleled durability, energy management and control features.

Compact chassis size is ideal for smaller windows and tight installations.

NEW smaller size

FITS WINDOWS FROM 22" TO 42" WIDE



SQ AND EQ MODELS



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



Model	★SQ05	★SQ06	★SQ08	SQ10	Model	KWIFI
Btu	5200	5700	7900	9600		
Voltage	115V	115V	115V	115V		
EER	11.2	11.2	11.2	9.8		

Model	★SS08	★SS10	★SS12	SS14	★SS12N-3	SS16-3	SM18	★SM21	SM24	★SL24	★SL28	SL36
Btu	8000	9700	12000	13500	12000	15500	17500	20500	23500	24000	28000	36000
Voltage	115V	115V	115V	115V	230/208V	230/208V	230/208V	230/208V	230/208V	230/208	230/208	230/208
EER	11.5	11.3	11.3	10.8	11.3	10.7	10.7	9.7	8.5	9.8	9.8	9.0

Model	★YS10**	★YS12	★YM18	★YL24
Btu COOL	9500	11500	17500	24000
Btu HEAT	8000	9400	15500	22000
Voltage	115V	230/208V	230/208V	230/208V
EER	10.4	10.4	10.4	9.8

Model	EQ08	ES12	ES16	EM18	EM24	EL36
Btu COOL	7900	12000	15500	17500	23500	36000
Btu HEAT	4000	10700	10700	13000	13000	17300
Voltage	115V	230/208V	230/208V	230/208V	230/208V	230/208
EER	11.2	11.3	10.7	10.7	8.5	9.0

**YS10 is not equipped with electric heat. Will not operate below 40° F.

Kühl® Series

Comfort

- Convenient control from your smartphone or computer via FriedrichLink™ (required accessory sold separately)
- 24-hour timer
- Up to 4 cooling and 4 fan-only speeds on select models
- Automatic fan speed adjustment
- Auto-changeover from cool to heat; heat to cool to maintain set temperature (Kühl+ models except EQ08)
- 8-way air flow control
- Temperature readout can display set temperature and room temperature
- LCD panel auto dims if not in use
- LCD settings lockout option (ON/OFF)
- Premium remote control allows user to activate schedule, adjust temperature, adjust fan speed or select auto-fan; can also switch from cool to heat and heat to cool (Kühl + models)

Maintenance & Installation

- Check filter reminder and error code storage
- Same sleeve dimensions for 30+ years for easy replacement
- Slideout chassis for more permanent installation and easier access for maintenance
- Installs in a window or in-wall
- Heavy-duty installation hardware lasts longer and provides a superior barrier from the outside elements (optional accessory on Kühl+ models)
- Rugged hardboard side panels or (heavy duty side curtains on SQ and EQ models) for a more permanent installation
- Power cord can run either left or right
- Firm grip handles for easier chassis installation and removal
- Front cover attaches easily and securely. Nut driver included**

Durability

- Sealed control panel for protection from dust, moisture and contaminants
- Control module is separate from touch controls for better protection from the elements, abusive handling or accidental damage and to minimize repair costs
- Robust 20 gauge steel cabinet
- Solid-sleeve top keeps out falling debris*
- Solid-steel blower housing offers enhanced protection
- Totally enclosed commercial grade fan motor runs at a lower temperature to prevent overheating and is double-mounted for added stability and reduced wear
- Durable base pans and steel inner walls
- Unit's structural integrity allows it to be removed, cleaned and maintained outside of its sleeve
- Aluminum end plates will not contribute to rust-stained building exteriors
- Scratch-resistant cabinet
- High-tech aluminum fins with rifled copper tubing are more efficient and less prone to corrosion
- Defrost control protects coil against freeze up

Sound Reduction Technology

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



Energy Management & Compliance

- 2 ready-to-go 7-day energy management programs*
- Autofan mode saves money by conserving energy
- ENERGY STAR® qualified models, including heat pumps
- 24V low voltage interface
- Environmentally-friendly R-410A refrigerant used in all models
- Recyclable packaging
- RoHS compliant

Safety & Security

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

Health & IAQ

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

ROOM AIR LINE RETURNS FOR 2014

Chill® Series Our highly-rated, deluxe line of room air conditioners with programmable controls for convenient operation.

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



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

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



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



Model	CP05	★CP06	★CP08	★CP10	★CP12	★CP15	★CP18	★CP24
Btu	5450	6000	7800	10000	12000	15000	18000	23500
Voltage	115V	115V	115V	115V	115V	115V	230/208V	230/208V
EER	10.7	11.2	11.2	11.3	11.3	11.2	11.2	9.8

ELECTRIC HEAT	Model	EP08	EP12	EP18	EP24
	Btu COOL	8000	12000	18000	23500
	Btu HEAT	3850	11200	12000	12000
	Voltage	115V	230/208V	230/208V	230/208V
	EER	9.8	9.8	9.7	8.5

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



Chill® Series Side discharge models feature Auto Air-Sweep swing louvers.

Comfort & Productivity

- 24-hr. timer lets you program on/off times
- Auto Air Sweep swing louvers* provide more even air distribution
- Side air discharge
- 3 cooling speeds, plus 3 fan-only settings
- 2 cooling speeds, 2 heating speeds, plus fan-only setting on Chill+
- Ultraquiet operation
- 4-way air flow control
- Auto-restart saves settings if power is interrupted

Energy Management & Compliance

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

Health & IAQ

- Washable, antimicrobial air filter
- Stale air exhaust

Maintenance & Installation Features

- Slideout chassis*
- Install in a window or in a wall**
- Standard installation hardware
- Window installation kit included
- Expandable side curtains
- Power cord can run either left or right out of the side of the unit front*

Safety & Security Features

- EntryGard™ anti-intrusion protection
- Power cord current leakage protected

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

★ ENERGY STAR® models

											Estimated					
Model	Cooling Btu	Heating Btu	Volts Rated	Cooling Amps	Cooling Watts	Heating Amps	Heating Watts	Energy Efficiency Ratio EER	Yearly Energy Cost	COP	Moisture Removal-Pints/HR	CFM	Sleeve	Net Wt. lbs.	Ship Wt. lbs.	
Kühl®																
SQ05N10B	5200	-	115	4.7	464	-	-	11.2	\$42	-	0.5	190	Q	72	85	
SQ06N10B	5700	-	115	4.7	509	-	-	11.2	\$46	-	0.5	190	Q	72	85	
SQ08N10B	7900	-	115	6.4	705	-	-	11.2	\$63	-	1.2	200	Q	71	84	
SQ10N10	9600	-	115	9.2	980	-	-	9.8	\$88	-	2.1	240	Q	71	84	
SS08N10B	8000	-	115	6.1	696	-	-	11.5	\$63	-	1.9	255	S	99	121	
SS10N10B	9700	-	115	7.8	858	-	-	11.3	\$77	-	2.5	300	S	106	128	
SS12N10B	12000	-	115	9.7	1062	-	-	11.3	\$96	-	3.0	300	S	112	134	
SS14N10A	13500	-	115	12.0	1250	-	-	10.8	\$113	-	4.0	275	S	116	133	
SS12N30B	12000/12000	-	230/208	4.9/5.2	1062/1062	-	-	11.3/11.3	\$96	-	3.4	325	S	112	134	
SS16N30	15500/15200	-	230/208	6.5/7.1	1449/1421	-	-	10.7/10.7	\$130	-	4.8	350	S	116	136	
SM18N30	17500/17200	-	230/208	7.4/8.0	1635/1607	-	-	10.7/10.7	\$147	-	4.6	350	M	140	161	
SM21N30B	20500/20000	-	230/208	9.3/10.2	2092/2062	-	-	9.8/9.7	\$188	-	6.0	425	M	132	153	
SM24N30A	23500/23200	-	230/208	12.7/13.6	2765/2730	-	-	8.5/8.5	\$249	-	7.1	430	M	152	173	
SL24N30B	24000/23800	-	230/208	10.8/11.4	2449/2429	-	-	9.8/9.8	\$220	-	7.0	640	L	191	212	
SL28N30B	28000/27600	-	230/208	13.0/14.0	2857/2875	-	-	9.8/9.6	\$257	-	8.5	640	L	193	214	
SL36N30B	36000/35500	-	230/208	17.5/19.2	4000/3944	-	-	9.0/9.0	\$360	-	12.0	725	L	212	248	
Kühl+® (Heat Pump)																
YS10N10B*	9500	8000	115	8.2	913	7.3	870	10.4	\$82	2.7	2.0	300	S	109	131	
YS12N33B	11500/11300	9400/9000	230/208	5.0/5.4	1106/1087	4.6/5.0	1132/1139	10.4/10.4	\$100	2.4/2.3	3.0	375	S	115	136	
YM18N34B	17500/17200	15500/15000	230/208	7.5/8.1	1683/1654	7.8/8.4	1824/1765	10.4/10.4	\$151	2.5/2.5	5.4	370	M	141	154	
YL24N35B	24000/24000	22000/22000	230/208	10.8/11.6	2449/2449	10.7/11.4	2391/2391	9.8/9.8	\$220	2.6/2.6	7.0	600	L	197	211	
Kühl+® (Electric Heat)																
EQ08N11B	7900	4000	115	6.4	705	11.2	1290	11.2	\$61	-	1.2	200	Q	72	84	
ES12N33B	12000/12000	10700/8900	230/208	4.9/5.2	1062/1062	16.0/14.7	3500/2900	11.3/11.3	\$96	-	3.4	325	S	113	128	
ES16N33	15500/15200	10700/8900	230/208	6.5/7.1	1449/1421	16.0/14.7	3500/2900	10.7/10.7	\$130	-	4.8	350	S	117	133	
EM18N34	17500/17200	13000/10600	230/208	7.4/8.0	1635/1607	19.5/17.0	4200/3500	10.7/10.7	\$147	-	4.6	350	M	141	154	
EM24N34A	23500/23200	13000/10600	230/208	12.7/13.6	2765/2730	19.5/17.0	4200/3500	8.5/8.5	\$249	-	7.1	430	M	153	166	
EL36N35B	36000/35500	17300/14300	230/208	17.5/19.2	4000/3944	24.0/22.4	5500/4650	9.0/9.0	\$360	-	12.0	725	L	213	246	
Chill® (Cool Only)																
CP05G10A	5450	-	115	4.8	500	-	-	10.7	\$46	-	1.5	140	P1	46	50	
CP06G10A	6000	-	115	4.9	530	-	-	11.2	\$48	-	1.8	200	P6	60	66	
CP08G10A	7800	-	115	6.3	690	-	-	11.2	\$63	-	2.2	250	P6	64	70	
CP10G10A	10000	-	115	8.5	880	-	-	11.3	\$80	-	3.0	300	P7	81	87	
CP12G10A	12000	-	115	9.7	1060	-	-	11.3	\$96	-	3.3	330	P7	87	93	
CP15G10A	15000	-	115	12.0	1330	-	-	11.2	\$121	-	4.0	400	P8	120	134	
CP18G30A	18000/17500	-	230/208	7.3/7.8	1600/1560	-	-	11.2/11.2	\$145	-	4.5	520	P9	136	150	
CP24G30A	23500/23000	-	230/208	10.9/11.8	2390/2340	-	-	9.8/9.8	\$216	-	6.8	590	P9	146	160	
Chill+® (Electric Heat)																
EP08G11A	8000	3850	115	7.5	820	11.0	1260	9.8	\$73	-	2.6	265	P7	79	85	
EP12G33A	12000/11500	11200/9200	230/208	5.5/5.8	1220/1170	15.3/14.0	3500/2900	9.8/9.8	\$110	-	3.3	265	P7	87	93	
EP18G33A	18000/17500	12000/9800	230/208	8.3/9.0	1850/1800	16.0/15.0	3670/3100	9.7/9.7	\$167	-	5.5	430	P9	136	150	
EP24G33A	23500/23000	12000/9800	230/208	12.2/13.2	2760/2700	16.0/15.0	3670/3100	8.5/8.5	\$249	-	6.5	560	P9	146	160	

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

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

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

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

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

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

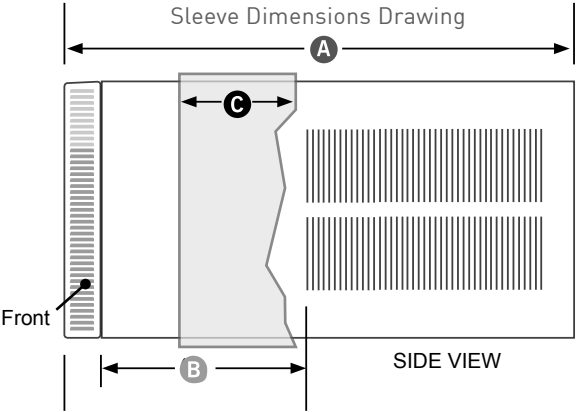


Sleeve	Height		Width		Depth with Front INCHES	Shell Depth to Louvers INCHES	Minimum Extension Into Room* INCHES	Minimum Extension Outside * INCHES	Window Width INCHES		In-wall Installation Finished Hole INCHES			Carton Dimensions INCHES		
	INCHES		INCHES		A	B			Minimum**	Maximum	Height	Width	Max. Depth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

* Minimum extensions when mounted in a window.
** Minimum widths achieved using one side curtain assembly as opposed to both in a standard installation.
† Sleeve P1 does not have 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
CP05G10A	125V-15A	5 -15P	6 1/2	
CP06G10A, CP08G10A, CP10G10A, CP12G10A and CP15G10A. EP08G11A. All SQ MODELS. EQ08N11B. SS08N10B, SS10N10B, SS12N10B and SS14N10A. YS10N10B. SM15N10B.	125V - 15A	5- 5P	6	
CP18G30A	250V - 15A	6 - 15P	4 1/2	
SS12N30B and SS16N30, SM18N30 and SM21N30B. SL24N30B.			6	
CP24G30A. EP12G33A, EP18G33A and EP24G33A.	250V - 20A	6 - 20P	4	
SM24N30A. SL28N30B. ES12N33B and ES16N33. YS12N33B.	250V - 20A	6 - 20P	6	
SL36N30B. EM18N34, EM24N34A and EL36N35B. YM18N34B and YL24N35B.	250V - 30A	6 - 30P	6	



WINDOW MOUNTING KITS: KÜHL+

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

Heat/Cool Models	Kit No.
EQ08N11*	WIKQ
ES12N33, ES16N33, YS10N10A and YS12N33.	KWIKS
EM18N34, EM24N34A and YM18N34.	KWIKM
EL36N35 and YL24N35.	KWIKL
All Kühl except SQ & EQ models	KWW
All Kühl except SQ & EQ models	KCM



WIKQ



KWIKS, KWIKM, KWIKL

*EQ08N11 window kit WIKQ does not include window brackets.

AIR CONDITIONERS

Hazardgard® is specifically designed to cool living quarters, storage areas and other enclosures situated in hazardous locations, where specific volatile flammable liquids or gases are handled or used within enclosed containers or systems.



UL LISTED FOR CLASS 1, DIV 2, GROUPS A, B, C AND D. T4 RATED

Operates in low ambient conditions without freezing at outdoor ambient temperatures as low as 45° F/7° C. Tolerates higher outdoor temperatures up to 130° F/55° C.

COILS COATED FOR CORROSION RESISTANCE

MODEL SH24M20

- ElectroFin® 5-stage, immersion ecoat process on 100% of metallic surfaces on the outdoor coil provides outstanding corrosion resistance protection in coastal or corrosive environments

ELECTROFIN BENEFITS:

- Excellent adhesion characteristics
- Less than 1% thermal degradation
- Outstanding chemical resistance
- Passed 6048 hrs.ASTM B-117 Salt Spray

ELECTROFIN MEETS THE FOLLOWING:

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

MODELS SH15M30A, SH20M30A,

- Diamonblue Advanced Corrosion Protection® on the outdoor coil protects the coil against deterioration and extends the life of the unit especially in coastal or corrosive environments

Durability

- Sealed reciprocating compressor is cooled during the refrigeration cycle which allows the unit to tolerate higher outdoor temperatures up to 130° F
- Run capacitor withstands voltage overloads up to 440 volts
- Solid-state control relays for compressor and fan operation
- Hermetically sealed refrigeration system
- Hot gas bypass allows the air conditioner to operate in low ambient conditions without freezing at outdoor ambient temperatures as low as 45° F
- Environmentally sealed on/off switch and gold plated contacts in thermostat for corrosion resistance
- Utilizes direct-wired, 15-amp circuit with time-delay fuse that will tolerate surge current without tripping the breaker
- 20 gauge steel is used in order to create a more robust air conditioner cabinet that will withstand years of hard use
- Diamonblue™ advanced corrosion protection treatment provides added endurance and protection in coastal or corrosive environments

Safety & Security

- Permanent split capacitor, totally-enclosed commercial grade fan motor has sealed overload for arc-free operation. Efficient operation under adverse electrical conditions.
- Direct connect/hardware installation prevents broken connections

Ideal Applications

- Offshore oil rigs and on-shore oil company offices
- Refineries
- Petrochemical sites
- Propane fill-up stations
- Paint and varnish storage or processing plants
- Grain alcohol processors or storage sites
- Plant areas using strong solvents or chemicals
- Munitions plants or armories
- PVC or plastics plants and processing points
- Furniture refinishing/stripping workshops
- Fertilizer plants and office complexes where methane is a by-product



Specifications

Model	Electrical Characteristics				Energy Efficiency Ratio EER	Moisture Removal Pints/ HR	Air Direction Controls	Air Circulation CFM	Refrigerant
	Cooling Capacity	Volts Rated	Cooling Amps	Cooling Watts					
	Btu								
60 HERTZ - NORTH AMERICA									
SH15M30A	14500/14000	230/208	6.9/7.5	1495/1443	9.7/9.7	6.0	8-way	375	R-410A
SH20M30A	20000/19000	230/208	8.7/9.6	2128/2021	9.4/9.4	4.0	8-way	375	R-410A
SH24M20	24000/23700	230/208	12.6/13.5	2727/2788	8.8/8.5	8.0/7.5	8-way	385	R-410A
SH20M50A	19500/19100	240/220	9.8/10.3	2167/2156	9.0/9.0	5.6/5.5	8-way	425	R-410A

Installation Information

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

Due to continuing engineering research and technology, specifications are subject to change without notice. Manufactured under U.S. Design Patent DES 368, 306 decorative front; Utility Patent 5, 622, 058. MAXIMUM outdoor ambient operating temperature is 130°F. MAXIMUM TEMPERATURE RATING FOR CLASS I, DIVISION 2, GROUPS A,B,C,D.

T4 temperature classification means unit surface temperatures will not rise above 135° C/275° F. Operates at low ambient conditions without freezing at outdoor ambient temperatures as low as 7° C/45° F. Tolerates higher outdoor temperatures up to 55° C /130° F. Equipment is certified in accordance with ISA 12.12.01 and NFPA 70-10 (National Electric Code)

ARTICLE 501

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

Class I, Div. 2, Group B

Class I, Div. 2, Group C

Class I, Div. 2, Group D

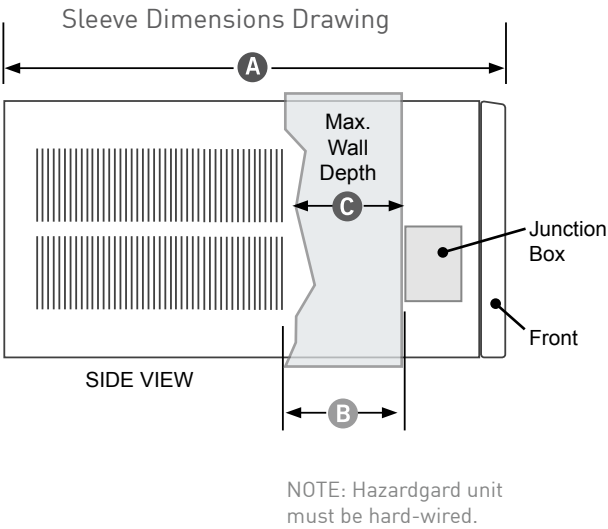
ARTICLE 505

Class I, Zone 2, Group IIC

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

Class I, Zone 2, Group IIB

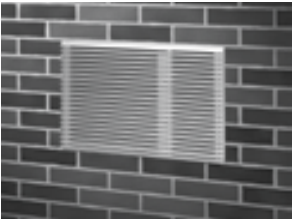
Class I, Zone 2, Group IIA



WallMaster® A perfect fit in Friedrich and existing 27” sleeves. Commercial grade quality unit is ideal for installation in new construction, retrofits and remodels.

Uni-Fit® Universal fit for easy replacement in existing 24 ½", 26" and 27" sleeves.

High efficiency thru-the-wall air conditioners for commercial and residential installations



WallMaster® WSD Sleeve mounts flush with exterior wall.



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 IN THICKER WALLS AND CAN BE POSITIONED FLUSH WITH EXTERIOR WALL.

OR MINIMIZE EXTENSION INTO THE ROOM

THRU-THE-WALL AIR CONDITIONERS | 27" PERFECT FIT

AIR CONDITIONERS | HEAT PUMPS | AIR CONDITIONERS with ELECTRIC HEAT

WallMaster®

Commercial grade durability

Comfort & Productivity

- 24-hr. programmable timer
- Smart Fan auto-adjusts fan speed
- 3 speed fan
- Auto-restart

Durability

- Electronic defrost control
- Rotary compressors provide quiet, dependable performance
- Premium stamped galvanized steel exterior grille
- Rifled copper tubing
- Impact resistant front cover

Sound Reduction Technology

- Dense blower insulation

Maintenance & Installation

- Mounts flush with the exterior wall for a neat appearance
- Ideal for thicker wall installations, where side fins don't fit
- High efficiency replacement for 27" sleeves including Fedders A and B*. Sleeve measures 27" W x 16 3/4" H
- Reversible louver allows a second airflow option

Energy Usage & Compliance

- ENERGY STAR® models
- Money Saver® setting saves money by operating the fan only when needed
- High tech fins with sine wave lanced louvers increase energy efficiency by increasing surface area for heat exchange

Safety & Security

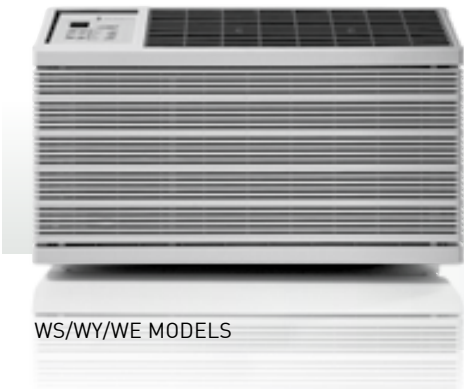
- Insect barrier
- Powercord leakage current protected

Health & IAQ

- Washable, antimicrobial air filter

Accessories

- WSD sleeve (sleeve is required for new installation and is sold and shipped separately)
- Architectural grille
- Drain kit
- Interior drain kit
- Subbase
- Baffle adapter kit



WS/WY/WE MODELS



Remote included

*Installation in Fedders B sleeve requires use of Friedrich baffle kit-BAK.

Sleeve/Chassis Dimensions

Model				Depth with Front	Minimum Extension Into Room	Minimum Extension Outside	Thru-the-wall Finished Hole		
	Height	Width	Depth				Height	Width	Max. Depth
WALLMASTER									
WSE Sleeve	16 3/4"	27"	16 3/4"	23"	7 1/2"	9/16"	17 1/4"	27 1/4"	15 5/16"
Chassis	15 3/4"	26 1/2"	21"	22"	-	-	-	-	-

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

COOL ONLY	Model	★WS08	★WS10	★WS12	★WS10-3	★WS12-3	WS16
	Btu COOL	8000	9700	11500	10000	11500	15600
	Voltage	115V	115V	115V	230/208V	230/208V	230/208V
	EER	10.4	9.8	9.8	9.8	9.8	8.5

ELECTRIC HEAT	Model	WE10	WE12	WE16
	Btu COOL	10000	11500	15600
	Btu HEAT	11000	11000	11000
	Voltage	230/208V	230/208V	230/208V
	EER	9.8	9.8	8.5

HEAT PUMPS	Model	★WY09	WY12
	Btu COOL	9300	12000
	Btu HEAT	7500	9350
	Voltage	230/208V	230/208V
	EER	9.8	8.6



THRU-THE-WALL AIR CONDITIONERS | 26" UNIVERSAL FIT

AIR CONDITIONERS | AIR CONDITIONERS with ELECTRIC HEAT

THRU-THE-WALL LINE RETURNS FOR 2014

Uni-Fit®

Universal fit for easy replacement



US/UE MODELS



Remote included

Comfort & Productivity

- Six-way air flow control
- Remote control
- 24-hr. programmable timer
- 3 speed fan
- Auto-restart
- Defrost control

Durability

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

Maintenance & Installation

- Universal fit trim ring
- Sleeve designed to fit a standard 26" opening and chassis will fit sleeves as small as 24.5"

Energy Usage & Compliance

- Five ENERGY STAR® models
- Money Saver® setting saves money by conserving energy

Health & IAQ

- Washable, antimicrobial air filter
- Stale air exhaust

Accessories

- USC sleeve ships with aluminum grille (sleeve is required for new installation and is sold and shipped separately)
- Replacement exterior grille for use with existing sleeve



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

Sleeve/Chassis Dimensions

Model				Depth with Front	Minimum Extension Into Room	Minimum Extension Outside	Thru-the-wall Finished Hole		
	Height	Width	Depth				Height	Width	Max. Depth
UNI-FIT									
USC Sleeve	15 1/2"	25 7/8"	16 3/4"	20 1/2"	-	1/2"	15 3/4"	26 1/8"	16 1/4"
US Chassis	14 3/8"	24"	18 1/2"	20 1/8"	3 3/4"	-	-	-	-
UE Chassis	14 3/8"	24 5/8"	18"	19 5/8"	3 1/2"	-	-	-	-

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

COOL ONLY	Model	US08	★US10	★US10-3	★US12	★US12-3	US14
	Btu COOL	8000	9800	10000	11500	11500	13000
	Voltage	115V	115V	230/208V	115V	230/208V	230/208V
	EER	9.8	9.8	9.8	9.8	9.8	8.5

ELECTRIC HEAT	Model	UE08	UE10	UE12
	Btu COOL	8000	10000	11500
	Btu HEAT	3850	11200	11200
	Voltage	115V	230/208V	230/208V
	EER	9.4	9.4	9.4

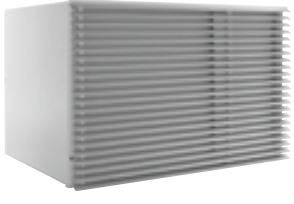


WallMaster® Optional Installation Accessories



WALL SLEEVE

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



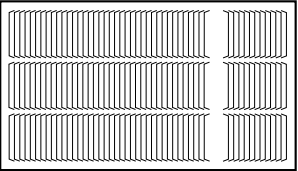
AG ARCHITECTURAL GRILLE
AG88, optional architectural grille
Premium brushed aluminum grille

IMPORTANT:

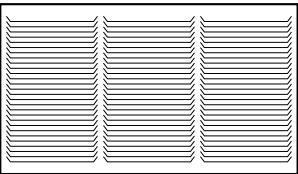
Operating the air conditioner with incorrect rear grille or without Baffle Adapter Kit (on 19 3/4" deep sleeve) will recirculate discharge air and cause compressor overload to trip.

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

CORRECT Vertical Louvers



INCORRECT Horizontal Louvers



Installation Accessories (27" sleeve models only)

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



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

BAK / Baffle Adapter Kit



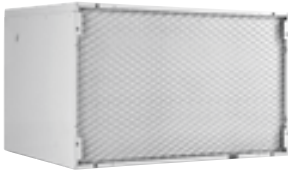
Necessary when installing in a sleeve deeper than 16 3/4" deep, such as Fedders B sleeve (19 3/4" deep).



Uni-Fit® Optional Installation Accessories

WALL SLEEVE

USC wall sleeve ships with standard grille.



Optional UXAA Architectural Grille

Brushed aluminum grille.



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

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

IMPORTANT:

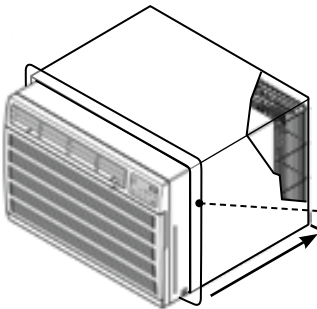
When installing into an existing sleeve, consult Installation Section of your Installation/Operation Manual to determine whether or not the grille needs to be replaced and/or a baffle adapter should be used.

IMPORTANT:

- Sleeves are sold and shipped separately to accommodate new construction and replacement requirements
- UE models do not fit Westinghouse/Frigidaire sleeves.
- US models do fit Westinghouse/Frigidaire sleeves.

IMPORTANT NOTE:

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.



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".

Install two-piece trim ring for neater installation. Trim ring comes standard with USC sleeve.

★ ENERGY STAR® models

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

WallMaster® Heat Pump heating information indicates heat pump heating performance. WallMaster Electric Heat heating information 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 20°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. During electric heat mode, the unit will achieve the following ratings: 11000/9100 Btu, 16.0/14.7 amps, and 3550/2950 watts.

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
WS08C10D, WS10C10D, WS12C10D	US08D10B, UE08D11B US10D10B, US12D10B	125V - 15A	5 - 15P	6	
WS10C30D, WS12C30D, WS16C30	US10D30B, US12D30B, US14D30B	250V - 15A	6 - 15P	6	
WE10C33D, WE12C33D, WE16C33, WY09C33D, WY12C33	UE10D33B, UE12D33B	250V - 20A	6 - 20P	6	

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

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.

Due to continuing research in new energy-saving technology, specifications are subject to change without notice. Five-year sealed refrigeration system warranty, and one-year parts warranty. Limitations apply. See warranty documentation for details.



PACKAGED TERMINAL AIR CONDITIONERS

AIR CONDITIONERS | HEAT PUMPS | AIR CONDITIONERS with ELECTRIC HEAT

Friedrich PTAC Quieter performance, improved airflow and higher efficiencies

TWO MOTOR DESIGN

With separate indoor and outdoor motors, the indoor motor can run at slower speeds which reduces sound levels indoors.

TANGENTIAL BLOWER WHEEL

Tangential blower wheel has nearly 5x the surface area of a typical fan used on other PTACS. The result is more uniform airflow over a wider path for faster, more even air distribution throughout the room and improved sound levels.

Air is blown over the entire length of the tangential wheel into the room in a uniform laminar airflow.



3 SPEED FAN

Friedrich is the only major PTAC brand with 3 fan speeds in cooling and heating mode.

Soft start/stop fan delay feature reduces transitional noise that is usually associated with compressor start-up.



Easy-to-use digital controls with precise temperature readout and 3 fan speeds



See warranty documentation for full details.

Remote thermostat quick-connect wiring module

Pulls out and plugs in for easier wiring during initial installation. Easier unit change-out; no need to reconnect and tighten down thermostat wires.

Universal Heater / Power cord

All PTAC units ship complete with the standard power cord for that model (7K, 9K and 12K = 3.0 kW and 15K = 5.0 kW). If you want to adjust the heater size on any PTAC unit simply unplug the attached power cord and connect the desired size. It is important to ensure that all wiring and building connections are sized properly for the power cord as well.

Universal heater allows installers to change the heat output of the PTAC by changing the power cord, simplifying ordering and installation.

For distributors, this means stocking one PTAC model and the 2 optional cords in place of 3 separate PTACs.

POWER CORD IS AS EASY TO CONNECT AS A PHONE JACK

PACKAGED TERMINAL AIR CONDITIONERS

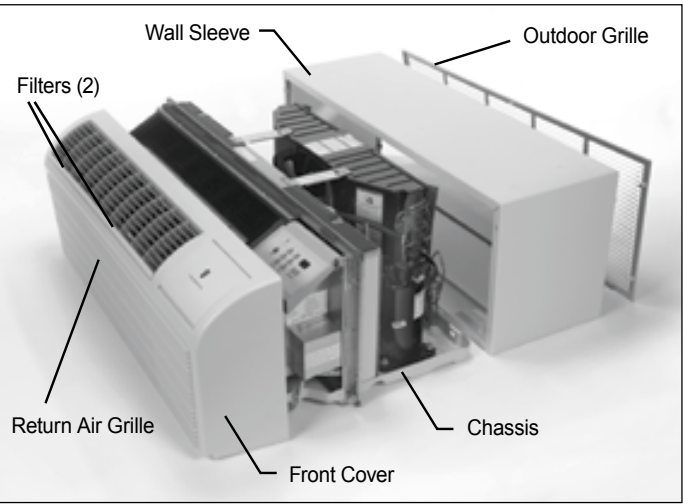
AIR CONDITIONERS | HEAT PUMPS | AIR CONDITIONERS with ELECTRIC HEAT

Comfort & Productivity

- Removes up to 3.2 pts./hr. of moisture in cool mode to improve comfort and reduce the chance of mold and mildew growth
- Intuitive unit controls are easy to operate
- Constant room comfort monitoring
- 'Instant Heat' heat pump mode quickly heats a room to the desired temperature for increased comfort
- 'Even Heat Monitoring' checks room temperature and automatically adds heat boost if necessary
- The digital control panel will automatically run the fan to briefly sample the room temperature every nine minutes to ensure desired conditions are maintained

Durability

- Durable front panel with break proof control door and design
- Random compressor restart protects electrical systems from overload when power is restored
- Tamper-resistant grille
- Durable, powder coat paint finish
- Indoor coil frost sensor protects the compressor to lengthen the life of the unit
- Diamonblue™ advanced corrosion protection protects the outdoor coil and extends the life of the unit especially in harsh coastal environments



ELECTRIC HEAT	Model	PDE07K	PDE07R	PDE09K	PDE09R	PDE12K	PDE12R	PDE15K
	Btu COOL	7700	7700	9000	9000	12000	12000	15000
	Btu HEAT	10240	10240	10240	10240	10240	10240	17060
	Voltage	230/208V	265V	230/208V	265V	230/208V	265V	230/208V
	EER	12.2	12.0	11.4	11.3	10.7	10.7	9.8

HEAT PUMP	Model	PDH07K	PDH07R	PDH09K	PDH09R	PDH12K	PDH12R	PDH15K
	Btu COOL	7700	7700	9000	9000	12000	12000	14500
	Btu HEAT PUMP	6300	6300	8100	8100	10700	10700	13300
	Voltage	230/208V	265V	230/208V	265V	230/208V	265V	230/208V
	EER	12.2	12.0	11.4	11.3	10.7	10.7	9.8

NOTE: All heat pumps have back up strip heat. PTAC chassis and sleeve are sold and shipped separately.
* Energy management capability requires purchase of additional hardware and service fee

Maintenance & Installation Features

- Universal heaters with heat capacities determined by the power cord used with the unit; achieve up to 48 PTAC SKUs with 16 units by changing the power cord size
- Service error code memory storage facilitates improved unit diagnostics.
- Emergency heat override ensures heat mode operation even in the unlikely event of compressor failure
- Maintenance friendly design with easy access to components for cleaning and repairs including lift-out air filters
- Operating range 0°-115° F. (Field-supplied modifications to extend operating range. Contact FAC customer service)

Energy Usage & Management

- EERs up to 12.0; COPs up to 3.4 for increased energy savings
- Owners and operators have the flexibility to set separate heat and cool range limits
- Desk control ready allowing hotel owners to control units from a central location
- Electronic defrost control ensures more run time in the efficient heat pump mode

FriedrichLink® Energy Management Thermostats

- Integrated occupancy sensor
- Auto changeover
- 5 distinct energy presets
- Comprehensive remote management capability*

WALL SLEEVE

Friedrich PDXWSA

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 and noise reduction.
16" H x 42" W x 13 3/4" D



SLEEVE EXTENSION RETROFIT KIT

Friedrich 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



DIGITAL REMOTE THERMOSTAT

Friedrich Model RT6

Single stage cool, single stage heat for PDE models or single stage cool, dual stage heat for PDH model 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.



Friedrich Model WRT1

Wireless, single stage, wall-mounted digital thermostat with two fan speeds. Features backlit display and multiple configuration modes.



ENERGY MANAGEMENT THERMOSTAT

EMRT1

Wired thermostat with occupancy sensor.



EMWRT1

Wireless version of EMRT1.

CONDUIT KIT /JUNCTION BOX

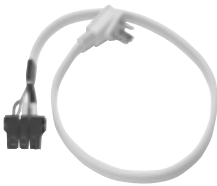
PXCJA

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.



POWER CORDS

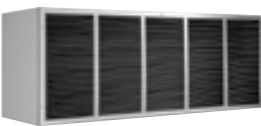
Friedrich Part	
PXPC23015	LCDI 230V 15A Cord - 2.0 kW
PXPC23020	LCDI 230V 20A Cord - 3.0 kW
PXPC23030	LCDI 230V 30A Cord - 5.0 kW
PXPC26515	Non-LCDI 265V 15A Cord - 2.0 kW
PXPC26520	Non-LCDI 265V 20A Cord - 3.0 kW
PXPC26530	Non-LCDI 265V 30A Cord - 5.0 kW



STANDARD GRILLE

PXGA

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



ARCHITECTURAL GRILLES

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

Friedrich PXAA

Clear extruded aluminum.



Friedrich PXBG

Beige acrylic enamel.

PXAA

DECORATIVE SUBBASE (black)

Friedrich PXSBA

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.



ELECTRICAL SUBBASE

Provides unit support for walls less than six inches thick. Includes leveling legs, side filler panels, mounting brackets, a plug-in receptacle and field-wiring access. The subbase also includes electrical knockouts for a power disconnect switch or circuit breaker.



Friedrich Part	
PXSB23020	Electrical Subbase - 230V 15 & 20A
PXSB23030	Electrical Subbase - 230V 30A
PXSB26515	Electrical Subbase - 265V 20A
PXSB26530	Electrical Subbase - 265V 30A

CONDENSATE DRAIN KIT

Friedrich 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.



PDE Series

Friedrich Model		PDE07K	PDE07R	PDE09K	PDE09R	PDE12K	PDE12R	PDE15K
PERFORMANCE DATA:								
Cooling Btu		7700/7600	7700	9000/8800	9000	12000/11800	12000	15000/14600
Cooling Watts		640/620	640	800/770	800	1120/1120	1120	1530/1510
Energy Efficiency Ratio	EER	12.0/12.2	12.0	11.3/11.4	11.3	10.7/10.5	10.7	9.8/9.7
Moisture Removal	Pts./Hr.	1.7	1.7	2.2	2.2	2.7	2.7	3.2
Sensible Heat Ratio		0.84	0.84	0.81	0.81	0.67	0.67	0.65
ELECTRICAL DATA:								
Voltage (1 PHASE, 60 Hz)		230/208	265	230/208	265	230/208	265	230/208
Current	Amps	2.8/3.0	2.4	3.7/3.9	3.7	5.1/5.3	4.8	6.7/7.5
Power Factor		0.97	0.99	0.99	0.99	0.99	0.99	0.99
Compressor LRA		19.0	12.0	17.0	18.0	27.0	23.0	32.6
Compressor RLA		2.8	2.4	3.7	2.9	5.0	4.3	6.6
Outdoor Fan Motor	HP	0.024	0.024	0.029	0.029	0.031	0.031	0.031
AIRFLOW DATA:								
Indoor CFM, HIGH		345/315	345	360/345	360	360/350	360	385/375
Indoor CFM, MED		320/290	320	330/305	330	330/310	330	360/330
Indoor CFM, LOW		295/265	295	300/270	300	310/280	310	320/290
Vent CFM		75	75	75	75	75	75	75
PHYSICAL DATA:								
Sleeve Dimensions H x W x D	In.	16"x42"x13 3/4"	16"x42"x13 3/4"	16"x42"x13 3/4"	16"x42"x13 3/4"	16"x42"x13 3/4"	16"x42"x13 3/4"	16"x42"x13 3/4"
Dimensions with front H x W x D	In.	16"x42"x21 1/2"	16"x42"x21 1/2"	16"x42"x21 1/2"	16"x42"x21 1/2"	16"x42"x21 1/2"	16"x42"x21 1/2"	16"x42"x21 1/2"
Cut Out Dimensions H x W	In.	16 1/4"x42 1/4"	16 1/4"x42 1/4"	16 1/4"x42 1/4"	16 1/4"x42 1/4"	16 1/4"x42 1/4"	16 1/4"x42 1/4"	16 1/4"x42 1/4"
Net Weight	Lbs.	106	106	111	111	116	116	119
Shipping Weight	Lbs.	126	126	131	131	136	136	139
R-410A Charge	Oz.	23.63	24.69	33.51	33.51	35.27	35.98	38.10
Dimensions with Packaging	In.	19.75"x23"x43.5" (all models)						

PDH Series

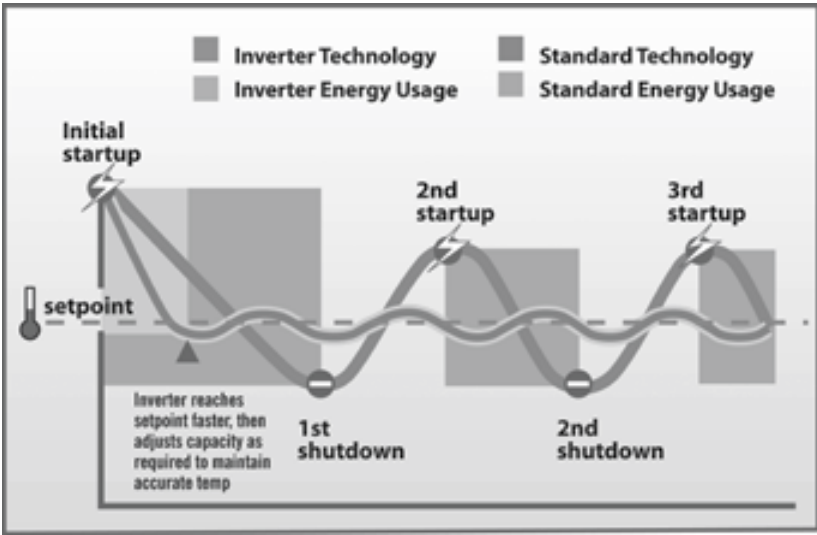
Model		PDH07K	PDH07R	PDH09K	PDH09R	PDH12K	PDH12R	PDH15K
PERFORMANCE DATA:								
Cooling	Btu	7700/7600	7700	9000/8800	9000	12000/11800	12000	14500/14200
Cooling Watts		640/620	640	800/770	800	1120/1120	1120	1480/1460
Energy Efficiency Ratio	EER	12.0/12.2	12	11.3/11.4	11.3	10.7/10.5	10.7	9.8/9.7
Reverse Heating	Btu	6300/6100	6300	8100/7900	8100	10700/10500	10700	13300/13000
Heating Watts		540/530	540	720/770	720	1010/990	1010	1300/1270
COP		3.4/3.4	3.4	3.3/3.3	3.3	3.1/3.1	3.1	3.0/3.0
Moisture Removal	Pts./Hr.	1.7	1.7	2.2	2.2	2.7	2.7	3.2
Sensible Heat Ratio		0.84	0.84	0.81	0.81	0.67	0.67	0.65
ELECTRICAL DATA:								
Voltage (1 PHASE, 60 Hz)		230/208	265	230/208	265	230/208	265	230/208
Current	Amps	2.8/3.0	2.4	3.7/3.9	3.7	5.1/5.3	4.8	6.7/7.5
Reverse Heat	Amps	2.4/2.5	2.1	3.4/3.8	3.4	4.5/4.7	4.5	5.8/6.2
Power Factor		0.97	0.99	0.99	0.99	0.99	0.99	0.98
Compressor LRA		19.0	12.0	18.5	19.0	27.0	23.0	36.0
Compressor RLA		2.8	2.4	3.6	3.2	5.0	4.3	6.5
Outdoor Fan Motor	HP.	0.024	0.024	0.029	0.029	0.031	0.031	0.031
AIRFLOW DATA:								
Indoor CFM, HIGH		345/315	345	360/345	360	360/350	360	420/390
Indoor CFM, MED		320/290	320	330/305	330	330/310	330	410/380
Indoor CFM, LOW		295/265	295	300/270	300	310/280	310	380/350
Vent CFM		75	75	75	75	75	75	75
PHYSICAL DATA:								
Sleeve Dimensions H x W x D	In.	16"x 42"x13 3/4"	16"x 42"x13 3/4"	16"x 42"x 13 3/4"	16"x 42"x 13 3/4"	16"x 42"x13 3/4"	16"x 42"x13 3/4"	16"x 42"x13 3/4"
Dimensions with front H x W x D	In.	16"x 42"x 21 1/2"	16"x 42"x 21 1/2"	16"x 42"x 21 1/2"	16"x 42"x 21 1/2"	16"x 42"x 21 1/2"	16"x 42"x 21 1/2"	16"x 42"x 21 1/2"
Cut Out Dimensions H x W	In.	16 1/4"x 42 1/4"	16 1/4"x 42 1/4"	16 1/4"x 42 1/4"	16 1/4"x 42 1/4"	16 1/4"x 42 1/4"	16 1/4"x 42 1/4"	16 1/4"x 42 1/4"
Net Weight	Lbs.	108	108	113	113	118	118	121
Shipping Weight	Lbs.	128	128	133	133	138	138	141
R-410A Charge	Oz.	23.63	24.69	33.51	35.27	35.27	35.98	39.86
Dimensions with Packaging	In.	19.75"x23"x43.5" (all models)						



Operating range 0°-115°F.
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.

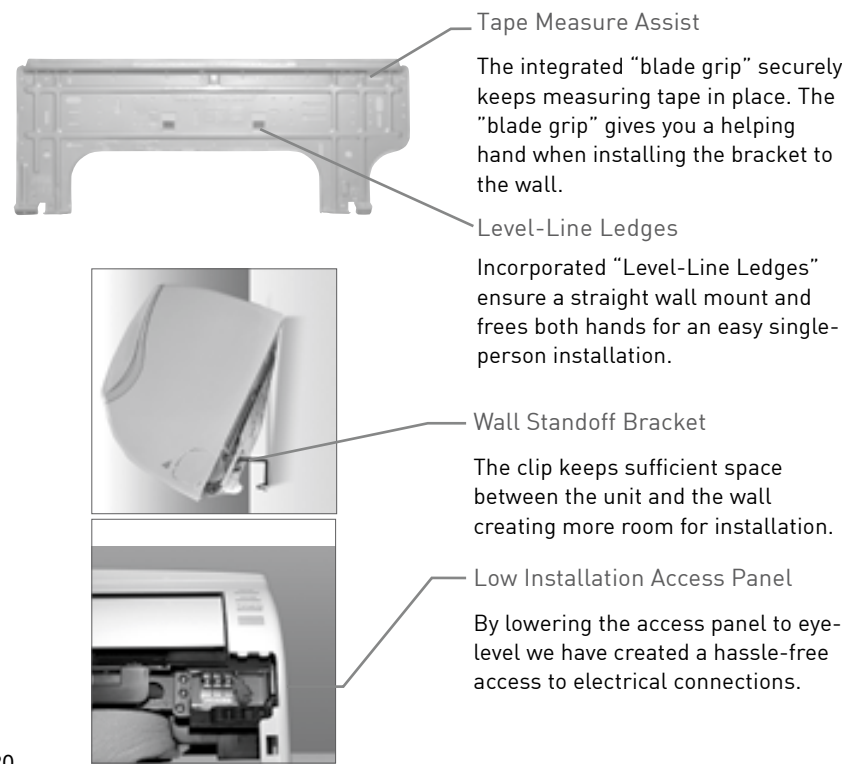
Advanced Inverter Technology

As illustrated in the chart below, Inverter Technology lets you reach the desired temperature faster, maintain it more accurately, and reduce energy costs. It eliminates constant compressor start-ups/shut-downs that traditional technology requires to maintain the set temperature.



Easy to Install

New ductless line with convenient installation features that will get your ductless running in no time.



High efficiency with SEER ratings up to 25.0; EERs up to 14.0

All Friedrich ductless models exceed the federal 13.0 SEER requirements and of the 146 possible configurations, 85 systems are ENERGY STAR®.

Ultra quiet cross-flow fan

The cross-flow design of the indoor fan creates an ultra quiet, yet powerful air flow into the room.

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.

No dirty air ducts

Ever wonder how much dirt and mold is in your ductwork? Now there's no need to clean dirty air ducts that can harbor dust, germs and allergens that are eventually blown into your home or office.

Zone cooling flexibility

Independently condition up to (4) separate zones using only a single outdoor unit. Achieve the ultimate in comfort and energy control by cooling or heating only the zones that are in use. And, because each zone is independent of the others, comfort settings can vary.

Inverter 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 18000 Btu system will operate even more efficiently at 15500 Btu or less if that's all that's needed, reducing energy consumption and improving comfort.

Ductless Advantages

- Unobstructed window views
- No need to uninstall and store unit during the winter
- Independently-controlled zone cooling means up to four separate indoor units working from a single outdoor unit
- Save money by turning off units in unoccupied rooms
- Set room temperatures based on individual preferences
- Zero duct loss; no loss of performance from leaky ducts
- No dust, germs and allergens spread via ductwork

12000 Btu. Our most efficient unit ever! Features for comfort and convenience year 'round. In heating mode, unit efficiently heats by using approximately 1/4 of the energy required by electric heat.

Features

- Inverter technology (variable speed compressor)
- High efficiency for low operating cost
- DiamonGold Advanced Corrosion Protection™
- Auto dry indoor coil
- Surge Cool/Heat
- Natural air flow
- Ultra quiet operation
- Sleep mode
- Auto restart
- Auto changeover
- BLDC Motor
- Low ambient operation down to 14°F (Cooling Mode)
- 24-hour on-off timer
- ENERGY STAR® qualified model
- Hidden display (only visible during operation)
- Multiple ease of installation features (see p.10)



MWH12Y3J



MRH12Y3J

AIR CONDITIONERS | COOL ONLY

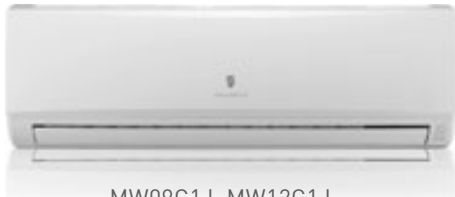
Multiple configuration choices and a wide range of heating and cooling options for commercial and residential applications.

Cool Only Features

- Advanced Inverter Technology
- 4-Way auto swing
- DiamonGold Advanced Corrosion Protection™
- Built-in low ambient standard, down to 14°F (Cooling Mode)
- Dehumidifying mode
- Auto restart
- Condensate sensor connection

LCD WIRELESS REMOTE (Included)

- 24-hr. timer and sleep timer
- Auto/cool/dry/fan modes
- 6 Louver Positions (Fan/Cool/ Heat)
- Auto dry indoor coil



MW09C1J, MW12C1J



MW18C3J, MW24C3J



MR09C1J, MR12C1J



MR18C3J



MR24C3J



AIR CONDITIONERS | HEAT PUMPS

Heat Pump Features

- Inverter technology (variable speed compressor)
- High efficiency for low operating cost
- DiamonGold Advanced Corrosion Protection™
- Self-cleaning indoor coil
- Cooling/Heating/Fan mode
- Air burst for fast cooling
- Natural air flow
- 4-Way auto swing
- Ultra quiet operation
- Sleep mode
- Dehumidifying mode
- Auto restart
- Auto changeover
- Built-in low ambient standard, down to 14°F (Cooling Mode)
- 24-hour on-off timer
- Condensate sensor connection



MW09Y3J, MW12Y3J



MR09Y3J, MR12Y3J



MW18Y3J



MR18Y3J



MW24Y3J, JMW30Y3J, MW36Y3J



MR24Y3J, MR30Y3J, MR36Y3J



HEAT PUMPS | SINGLE ZONE

Features

- Inverter technology (variable speed compressor)
- Internal condensate pump included with up to 18-1/2" lift
- Natural air flow
- 4-Way cooling
- Surge cool/heat
- Cooling mode
- Dehumidifying mode
- Night Quiet Operation
- Built-in low ambient standard, down to 14°F (Cooling mode)
- Fan mode
- Independent vane control
- 5 Fan speeds
- Evaporator frost control
- 24-hour on-off timer
- Auto restart
- Auto changeover
- Temperature display on remote
- Ultra-quiet turbo fan
- DiamonGold Advanced Corrosion Protection™
- Clean, modern look
- Flexible installation
- ENERGY STAR® qualified models
- Precise air distribution



MC36Y3J



MC24Y3J



MRC36Y3J



MRC24DY3J



AIR CONDITIONERS | HEAT PUMPS

Mix and match wall-mounted, concealed duct, and ceiling cassette models.



MW09Y3J, MW12Y3J



MW18Y3J



MC24Y3J, MC36Y3J



MD12Y3JM, MD18Y3JM



AIR CONDITIONERS | HEAT PUMPS

INDOOR SYSTEM COMPONENTS										
Btu COOLING	REVERSE CYCLE HEAT Btu	SEER	VOLTAGE	MIN CIRCUIT AMPS	LINE SIZE DISCHARGE O.D. (IN.)	LINE SIZE SUCTION O.D. (IN.)	HEIGHT	WIDTH	DEPTH	MFR MODEL NUMBER
Indoor Wall Mount Units										
9000	10800	21.5	230	10	1/4	3/8	11 1/5	30 2/7	11 2/7	MW09Y3J
11200	13300	21.5	230	10	1/4	3/8	11 1/5	30 2/7	11 2/7	MW12Y3J
17000	20200	18	230	19	3/8	5/8	12 4/5	30 2/7	12 3/5	MW18Y3J
Indoor Ceiling Cassettes										
12,000	13,300	21	230	10	1/4"	3/8"	8-7/16"	22-7/16"	11 2/7	MC12Y3JM
18,000	20,200	21	230	19	1/4"	1/2"	10-3/32"	22-7/16"	12 3/5	MC18Y3JM
Indoor Concealed Ducted Components										
12,000	13,300	21	230	10	1/4"	3/8"	7-15/32"	32-9/32"	11 2/7	MD12Y3JM
18,000	20,200	21	230	19	1/4"	1/2"	7-15/32"	43-5/16"	12 3/5	MD18Y3JM

OUTDOOR SYSTEM COMPONENTS									
Btu COOLING Min. / Nom / Max.	REVERSE CYCLE HEAT Btu Min. / Nom / Max.	VOLTAGE	LINE SIZE DISCHARGE O.D. (IN.)	LINE SIZE SUCTION O.D. (IN.)	HEIGHT	WIDTH	DEPTH	MFR MODEL NUMBER	
Outdoor Condensing Units									
10,978 / 24,000 / 28,800	12,418 / 24,000 / 32,000	230	1/4	3/8	31 4/5	34 1/4	12 3/5	MR24DY3JM	
10,978 / 36,000 / 37,400	12,418 / 36,000 / 45,100	230	1/4	3/8	45 7/8	35 4/9	14 5/9	MR36TQY3JM	

Guidelines for Choosing Multizone Systems

MR24DY3JM/ 22XR56:

For (2) Zones:
Select any combination of (2) indoor units with a maximum 18,000 BTU indoor units plus (1) other indoor unit.

For (3) Zones:
Select any combination of (3) indoor units with a maximum of (2) 12,000 Btu indoor units per system.18,000 BTU indoor units cannot be used when configuring a (3) zone system using the 22XR56 outdoor unit. Max cooling capacity of this outdoor unit in a (3) zone configuration is 28,800 Btu.

Within the above parameters, some approved combinations of indoor units will exceed the outdoor unit capacity in total, but the maximum will still be 28,800 Btu

MR36TQY3JM/22XR57:

For (2) Zones:
Select any combination of (2) indoor units per system.

For (3) Zones:
Select any combination of (3) indoor units with no more than (2) 18,000 Btu indoor units plus (1) other indoor unit.

For (4) Zones:
Select any combination of (4) indoor units. When using an 18,000 Btu indoor unit the reamiaing (3) must be 9,000 Btu indoor units. Use up to (4) 12,000 Btu or less indoor units in this configuration. Max cooling capacity of this outdoor unit in a 4 zone configuration is 37,400 Btu.

Within the above parameters, some approved combinations of indoor units will exceed the outdoor unit capacity in total, but will still be 37,400 Btu.

WALL-MOUNTED COOLING

PERFORMANCE RATINGS		Single Wall Mounted - Cool Inv			
		9k	12k	18k	24k
SYSTEM MODEL NO.		M09CJ	M12CJ	M18CJ	M24CJ
INDOOR MODEL		MW09C1J	MW12C1J	MW18C3J	MW24C3J
OUTDOOR MODEL		MR09C1J	MR12C1J	MR18C3J	MR24C3J
SPECIFICATIONS					
CAPACITY COOLING (RATED)	Btu	9,000	11,200	17,000	22,000
CAPACITY COOLING (MIN-MAX)	Btu	3,070~12,120	3,070~13,660	3,070~20,470	3,070~26,270
CAPACITY HEATING (RATED)	Btu	N/A	N/A	N/A	N/A
CAPACITY HEATING (MIN-MAX)	Btu	N/A	N/A	N/A	N/A
COOLING AMPS		6	8.4	7	8.7
HEATING AMPS		N/A	N/A	N/A	N/A
SENSIBLE HEAT RATIO		.89	.83	.79	.81
SEER		21.5	21.5	18.0	20.0
EER		13.3	12.5	12.0	10.8
HSPF		N/A	N/A	N/A	N/A
ENERGY STAR		YES(Most Efficient)	YES(Most Efficient)	YES	No
MOISTURE REMOVAL	Pts/h	2.6	3.0	5.3	6.0
AIRFLOW (QUIET, LOW, MED, HIGH)	CFM	124/212/272/335	124/212/272/335	300/399/509/622	300/424/629/742
SOUND RATING - INDOOR	dB-A	19 / 24 / 33 / 38	19 / 24 / 33 / 39	29 / 35 / 40 / 45	29 / 35 / 40 / 46
SOUND RATING - OUTDOOR	dB-A	45	45	53	54
OPERATING RANGE (COOLING)(WIND BAFFLE)	°F	14.0[0]~118.4	14.0[0]~118.4	14.0[0]~118.4	14.0[0]~118.4
OPERATING RANGE (HEATING)	°F	N/A	N/A	N/A	N/A
EST. YEARLY OPERATING COST	\$	61	81	127	183
ELECTRICAL DATA					
POWER SOURCE		115-60-1	115-60-1	230/208-60-1	230/208-60-1
MINIMUM AMPACITY	A	10	10	19	19
COOLING WATTS	W	677	896	1416	2037
MAX. TD FUSE/BREAKER	A	15	15	25	25
POWER AND COMMUNICATION CABLE	No. x AWG	4 x 18	4 x 18	4 x 18	4 x 18
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	3/8
SUCTION LINE O.D.	in	3/8	3/8	1/2	5/8
FACTORY PRECHARGE	ft	35.5	35.3	47.6	63.5
MAX. LINE LENGTH	ft	66’	66’	66’	98’
MAX. HEIGHT DIFFERENCE	ft	33’	33’	33’	49’
DIMENSIONS & WEIGHT					
INDOOR UNIT					
W X H X D	in	35-1/4x 11-1/4x 8-5/16	35-1/4x 11-1/4x 8-5/16	40-5/8x 12-7/8x 9-5/8	40-5/8x 12-7/8x 9-5/8
NET WEIGHT	lbs	23	23	31	32
SHIPPING WEIGHT	lbs	27	27	35	37
OUTDOOR UNIT					
W X H X D	in	30-5/16x 21-5/16x 11-5/16	30-5/16x 21-5/16x 11-5/16	34-5/16x 25-7/8x 12-5/8	34-5/16 x 31-1/2 x 12-5/8
NET WEIGHT	lbs	75	75	108	122
SHIPPING WEIGHT	lbs	79	79	115	130
TOTAL NET WEIGHT	lbs	97	97	139	154
TOTAL SHIPPING WEIGHT	lbs	106	106	150	167

Your operating costs will depend on your utility rates and use. The estimated operating cost is based on a electricity cost of \$.115 per kWh. For more information, visit www.ftc.gov/energy.

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



WALL-MOUNTED HEAT PUMPS

PERFORMANCE RATINGS		Single Wall Mounted - H/P Inv		
		9k	12k	18k
SYSTEM MODEL NO.		M09YJ	M12YJ	M18YJ
INDOOR MODEL		MW09Y3J	MW12Y3J	MW18Y3J
OUTDOOR MODEL		MR09Y3J	MR12Y3J	MR18Y3J
SPECIFICATIONS				
CAPACITY COOLING (RATED)	Btu	9,000	11,200	17,000
CAPACITY COOLING (MIN-MAX)	Btu	3,070~12,620	3,070~14,660	3,070~20,470
CAPACITY HEATING (RATED)	Btu	10,800	13,300	20,200
CAPACITY HEATING (MIN-MAX)	Btu	3,070~17,060	3,070~20,470	3,070~30,700
COOLING AMPS		3	4.2	7
HEATING AMPS		3.7	4.9	7.8
SENSIBLE HEAT RATIO		.88	.81	.78
SEER		21.5	21.5	18.0
EER		13.3	12.5	12.0
HSPF		11.0	11.0	9.7
ENERGY STAR		YES(Most Efficient)	YES(Most Efficient)	YES
MOISTURE REMOVAL	Pts/h	2.6	3.0	5.3
AIRFLOW [QUIET, LOW, MED, HIGH]	CFM	124/212/272/335	124/212/272/335	300/399/509/622
SOUND RATING - INDOOR	dB-A	19 / 24 / 33 / 38	19 / 24 / 33 / 39	29 / 35 / 40 / 45
SOUND RATING - OUTDOOR	dB-A	45	45	53
OPERATING RANGE (COOLING)(WIND BAFFLE)	°F	14.0(0)~118.4	14.0(0)~118.4	14.0(0)~118.4
OPERATING RANGE (HEATING)	°F	-4.0~75.2	-4.0~75.2	-4.0~75.2
EST. YEARLY OPERATING COST	\$	61	81	127
ELECTRICAL DATA				
POWER SOURCE		230/208	230/208	230/208
MINIMUM AMPACITY	A	10	10	19
COOLING WATTS	W	677	896	1416
MAX. TD FUSE/BREAKER	A	15	15	20
POWER AND COMMUNICATION CABLE	No. x AWG	4 x 18	4 x 18	4 x 18
REFRIGERATION SYSTEM				
REFRIGERANT		R410A	R410A	R410A
COMPRESSOR TYPE		Inverter	Inverter	Inverter
CONNECTIONS		Flare	Flare	Flare
LIQUID LINE O.D.	in	1/4	1/4	1/4
SUCTION LINE O.D.	in	3/8	3/8	1/2
FACTORY PRECHARGE	ft	35.3	35.3	47.6
MAX. LINE LENGTH	ft	66'	66'	66'
MAX. HEIGHT DIFFERENCE	ft	33'	33'	33'
DIMENSIONS & WEIGHT				
INDOOR UNIT				
W X H X D	in	35-1/4 x11-1/4 x8-1/4	35-1/4 x11-1/4 x8-1/4	40-5/8 x 12-7/8 x 9-5/8
NET WEIGHT	lbs	23	23	31
SHIPPING WEIGHT	lbs	27	27	36
OUTDOOR UNIT				
W X H X D	in	30-5/16x21-5/16x11-5/16	30-5/16x21-5/16x11-5/16	34-5/16x25-7/8x12-5/8
NET WEIGHT	lbs	75	75	108
SHIPPING WEIGHT	lbs	79	79	115
TOTAL NET WEIGHT	lbs	98	98	139
TOTAL SHIPPING WEIGHT	lbs	107	107	150

Your operating costs will depend on your utility rates and use. The estimated operating cost is based on a electricity cost of \$.115 per kWh. For more information, visit www.ftc.gov/energy.

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



WALL-MOUNTED HEAT PUMPS

PERFORMANCE RATINGS		Single Wall Mounted - H/P Inv		
		24k	30k	36k
SYSTEM MODEL NO.		M24YJ	M30YJ	M36YJ
INDOOR MODEL		MW24Y3J	MW30Y3J	MW36Y3J
OUTDOOR MODEL		MR24Y3J	MR30Y3J	MR36Y3J
SPECIFICATIONS				
CAPACITY COOLING (RATED)	Btu	22,000	30,000	33,000
CAPACITY COOLING (MIN-MAX)	Btu	3,070~30,030	3,070~34,000	3,070~34,000
CAPACITY HEATING (RATED)	Btu	27,600	32,000	35,200
CAPACITY HEATING (MIN-MAX)	Btu	3,070~38,898	3,070~38,900	3,070~38,900
COOLING AMPS		7.9	13.4	17.0
HEATING AMPS		10.7	13.9	16.2
SENSIBLE HEAT RATIO		.66	.61	.67
SEER		21.0	18.5	16.5
EER		12.5	10.0	8.2
HSPF		11.0	10.0	10.0
ENERGY STAR		YES(Most Efficient)	No	No
MOISTURE REMOVAL	Pts/h	6.8	10.7	10.7
AIRFLOW (QUIET, LOW, MED, HIGH)	CFM	300/389/512/600	459/530/706/848	459/530/706/484
SOUND RATING - INDOOR	dB-A	33 / 39 / 43 / 46	33 / 39 / 44 / 49	37 / 40 / 44 / 49
SOUND RATING - OUTDOOR	dB-A	54	55	55
OPERATING RANGE (COOLING)(WIND BAFFLE)	°F	14.0(0)~118.4	14.0(0)~118.4	14.0(0)~118.4
OPERATING RANGE (HEATING)	°F	-4.0~75.2	-4.0~75.2	-4.0~75.2
EST. YEARLY OPERATING COST	\$	158	270	395
ELECTRICAL DATA				
POWER SOURCE		230/208	230/208	230/208
MINIMUM AMPACITY	A	19	19	19
COOLING WATTS	W	1760	3000	4024
MAX. TD FUSE/BREAKER	A	25	25	25
POWER AND COMMUNICATION CABLE	No. x AWG	4 x 18	4 x 18	4 x 18
REFRIGERATION SYSTEM				
REFRIGERANT		R410A	R410A	R410A
COMPRESSOR TYPE		Inverter	Inverter	Inverter
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	77.6	77.6	77.6
MAX. LINE LENGTH	ft	164'	164'	164'
MAX. HEIGHT DIFFERENCE	ft	98.4'	98.4'	98.4'
DIMENSIONS & WEIGHT				
INDOOR UNIT				
W X H X D	in	46-7/8 x 13-5/8 x10-7/16	46-7/8 x13-5/8 x 10-3/8	46-7/8 x 13-5/8 x 10-3/8
NET WEIGHT	lbs	40	40	40
SHIPPING WEIGHT	lbs	46	46	46
OUTDOOR UNIT				
W X H X D	in	34-5/16 x31-1/5 x12-5/8	345/16 x31-1/2 x12-5/8	345/16 x31-1/2 x12-5/8
NET WEIGHT	lbs	108	108	108
SHIPPING WEIGHT	lbs	115	115	115
TOTAL NET WEIGHT	lbs	148	148	148
TOTAL SHIPPING WEIGHT	lbs	160	160	160

Your operating costs will depend on your utility rates and use. The estimated operating cost is based on a electricity cost of \$.115 per kWh. For more information, visit www.ftc.gov/energy.

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CEILING CASSETTE HEAT PUMPS

PERFORMANCE RATINGS		Single Zone Cassette H/P	
		24k	36k
SYSTEM MODEL NO.		C24YJ	C36YJ
INDOOR MODEL		MC24Y3J	MC36Y3J
OUTDOOR MODEL		MR24UY3J	MR36UY3J
SPECIFICATIONS			
CAPACITY COOLING (RATED)	Btu	24,000	36,000
CAPACITY COOLING (MIN~MAX)	Btu	9,700~26,700	14,000~42,000
CAPACITY HEATING (RATED)	Btu	27,000	40,000
CAPACITY HEATING (MIN~MAX)	Btu	10,900~30,000	14,500~45,000
COOLING AMPS		Pending	Pending
HEATING AMPS		Pending	Pending
SENSIBLE HEAT RATIO		.77	.76
SEER		17.0	19.0
EER		12.5	13.5
HSPF		9.7	9.5
ENERGY STAR		No	No
MOISTURE REMOVAL	Pts/h	5.1	7.7
AIRFLOW (HIGH, MED, LOW)	CFM	600 / 530 / 459	1,060 / 989 / 918
SOUND RATING - INDOOR	dB(A)	57	65
SOUND RATING - OUTDOOR	dB(A)	62	67
OPERATING RANGE (COOLING)	°F	5.0(0)~118.4	5.0(0)~118.4
OPERATING RANGE (HEATING)	°F	-4.0~64.4	-4.0~64.4
EST. YEARLY OPERATING COST	\$	172	240
ELECTRICAL DATA			
POWER SOURCE	V	230/208	230/208
MINIMUM AMPACITY	A	18.1	24.5
COOLING WATTS	W	Pending	Pending
MAX. TD FUSE/BREAKER	A	30	40
REFRIGERATION SYSTEM			
REFRIGERANT		R410A	R410A
COMPRESSOR TYPE		Twin Rotary	Twin Rotary
CONNECTIONS		Flare	Flare
LIQUID LINE O.D.	in	3/8	3/8
SUCTION LINE O.D.	in	5/8	5/8
FACTORY PRECHARGE	ft	70.5	119.9
MAX. LINE LENGTH	ft	164'	164'
MAX. HEIGHT DIFFERENCE	ft	98.4	98.4
POWER AND COMMUNICATION CABLE	No. x AWG	4 x 18	4 x 18
DIMENSIONS & WEIGHT			
INDOOR UNIT			
W X H X D	in	33-1/16 x 8-1/16 x 33-1/16	33-1/16 x 11-3/8 x 33-1/16
NET WEIGHT	lbs	45	54
INDOOR UNIT GRILLE* NET WEIGHT	lbs	11	20
SHIPPING WEIGHT	lbs	58	65
OUTDOOR UNIT			
W X H X D	in	37-7/16 x 32-7/8 x 13	37-13/32 x 54-3/8 x 13
NET WEIGHT	lbs	132	203
SHIPPING WEIGHT	lbs	146	227
TOTAL NET WEIGHT	lbs	178	257
TOTAL SHIPPING WEIGHT	lbs	203	293

Your operating costs will depend on your utility rates and use. The estimated operating cost is based on a electricity cost of \$.115 per kWh. For more information, visit www.ftc.gov/energy.

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



MULTI ZONE WALL-MOUNTED I HEAT PUMPS

PERFORMANCE RATINGS		Multi Zone Wall Mounted		
		9k	12k	18k
INDOOR MODEL		MW09Y3J	MW12Y3J	MW18Y3J
SPECIFICATIONS				
CAPACITY COOLING (RATED)	Btu	9,000	11,200	17,000
MOISTURE REMOVAL	Pts/h	2.6	3.0	5.3
AIRFLOW (QUIET, LOW, MED, HIGH)	CFM	124/212/272/335	124/212/272/335	300/399/509/622
SOUND RATING - INDOOR	dB-A	19 / 24 / 33 / 38	19 / 24 / 33 / 39	29 / 35 / 40 / 45
ELECTRICAL DATA				
POWER SOURCE	V, Ø, Hz	230/208-60-1	230/208-60-1	230/208-60-1
REFRIGERATION SYSTEM				
CONNECTIONS		Flare	Flare	Flare
LIQUID LINE O.D.	in	1/4	1/4	1/4
SUCTION LINE O.D.	in	3/8	3/8	1/2
DIMENSIONS & WEIGHT				
W X H X D	in	35-1/4 x11-1/4 x 8-1/4	35-1/4 x 11-1/4 x 8-1/4	40-5/8 x 12-7/8 x 9-5/8
NET WEIGHT	lbs	23	23	31
SHIPPING WEIGHT	lbs	27	27	35

PERFORMANCE RATINGS		Multi Outdoor	
		24k	36k
OUTDOOR MODEL		MR24DY3JM	MR36TQY3JM
SPECIFICATIONS			
POWER INPUT COOLING MIN.~RATED~MAX.	Btu	1,330~4,879~10,543	2,627~9,281~13,375
POWER INPUT HEATING MIN.~RATED~MAX.	Btu	1,433~7,540~10,577	3,821~12,215~13,989
POWER SUPPLY	V , Ø , Hz	208/230, 1, 60	208/230, 1, 60
EST. YEARLY OPERATING COST	\$	122-125	170-245
RUNNING CURRENT COOLING MIN.~RATED~MAX.	A	2.8~6.6~14.0	3.3~11.8~17.0
RUNNING CURRENT HEATING MIN.~RATED~MAX.	A	3.0~10.2~14.1	4.9~15.5~17.8
RUNNING CURRENT COOLING MIN.~RATED~MAX.	W	390~1430~3090	770~2720~3920
RUNNING CURRENT HEATING MIN.~RATED~MAX.	W	420~2210~3100	1120~3580~4100
POWER AND COMMUNICATION CABLE	No. x AWG	4 X 18	4 X 18
DIMENSIONS W X H X D	inch	34-1/4 x 31-7/8 x 12-5/8	35-7/16 x 45-7/8 x 14-5/8
NET WEIGHT	lbs	130	209
REFRIGERATION SYSTEM			
REFRIGERANT		R410A	R410A
FACTORY PRECHARGE	ft	74.1	123.5
LIQUID LINE O.D.	in	1/4	1/4
SUCTION LINE O.D.	in	3/8	3/8
MAX. LINE LENGTH	ft	246.1	246.1
MAX. HEIGHT DIFFERENCE	ft	49.2	49.2
SOUND PRESSURE LEVEL COOLING	A	51	57
SOUND PRESSURE LEVEL HEATING	A	51	57
OPERATING RANGE COOLING MIN. ~ MAX.	°F DB	14.0 ~ 114.8	14.0 ~ 114.8
OPERATINGRANGE HEATING MIN. ~ MAX.	°F WB	5.0 ~ 64.4	5.0 ~ 64.4
MINIMUM AMPACITY	A	15.4	16.8
MAX. TD FUSE/BREAKER	A	25	25

Your operating costs will depend on your utility rates and use. The estimated operating cost is based on a electricity cost of \$.115 per kWh. For more information, visit www.ftc.gov/energy.

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MULTI ZONE CASSETTE I HEAT PUMPS

PERFORMANCE RATINGS		Multi Zone Cassette	
INDOOR MODEL		MC12Y3JM	MC18Y3JM
SPECIFICATIONS			
CAPACITY COOLING (RATED)	Btu	12,000	18,000
MOISTURE REMOVAL	Pts/h	4.2	4.2
AIRFLOW (LOW, MED, HIGH)	CFM	335 / 283 / 247	459 / 424 / 388
SOUND RATING - INDOOR	dB-A	32/35/38	34/37/38
ELECTRICAL DATA			
POWER SOURCE	V, Ø, Hz	208/230, 1, 60	208/230, 1, 60
REFRIGERATION SYSTEM			
CONNECTIONS		Flare	Flare
LIQUID LINE O.D.	in	1/4	1/4
SUCTION LINE O.D.	in	3/8	1/2
POWER AND COMMUNICATION CABLE	No. x AWG	4C x 18	4C x 18
DIMENSIONS & WEIGHT			
W X H X D	in	22-7/16 x 8-7/16 x 22-7/16	22-7/16 x 10-3/32 x 22-7/16
NET WEIGHT	lbs	31	33
SHIPPING WEIGHT	lbs	36	42

PERFORMANCE RATINGS		Multi Outdoor	
		24k	36k
OUTDOOR MODEL		MR24DY3JM	MR36TQY3JM
SPECIFICATIONS			
POWER INPUT COOLING MIN.~RATED~MAX.	Btu	1,330~4,879~10,543	2,627~9,281~13,375
POWER INPUT HEATING MIN.~RATED~MAX.	Btu	1,433~7,540~10,577	3,821~12,215~13,989
POWER SUPPLY	V , Ø , Hz	208/230, 1, 60	208/230, 1, 60
EST. YEARLY OPERATING COST	\$	122-125	170-245
RUNNING CURRENT COOLING MIN.~RATED~MAX.	A	2.8~6.6~14.0	3.3~11.8~17.0
RUNNING CURRENT HEATING MIN.~RATED~MAX.	A	3.0~10.2~14.1	4.9~15.5~17.8
RUNNING CURRENT COOLING MIN.~RATED~MAX.	W	390~1430~3090	770~2720~3920
RUNNING CURRENT HEATING MIN.~RATED~MAX.	W	420~2210~3100	1120~3580~4100
POWER AND COMMUNICATION CABLE	No. x AWG	4 X 18	4 X 18
DIMENSIONS W X H X D	inch	34-1/4 x 31-7/8 x 12-5/8	35-7/16 x 45-7/8 x 14-5/8
NET WEIGHT	lbs	130	209
REFRIGERATION SYSTEM			
REFRIGERANT		R410A	R410A
FACTORY PRECHARGE	ft	74.1	123.5
LIQUID LINE O.D.	in	1/4	1/4
SUCTION LINE O.D.	in	3/8	3/8
MAX. LINE LENGTH	ft	246.1	246.1
MAX. HEIGHT DIFFERENCE	ft	49.2	49.2
SOUND PRESSURE LEVEL COOLING	A	51	57
SOUND PRESSURE LEVEL HEATING	A	51	57
OPERATING RANGE COOLING MIN. ~ MAX.	°F DB	14.0 ~ 114.8	14.0 ~ 114.8
OPERATINGRANGE HEATING MIN. ~ MAX.	°F WB	5.0 ~ 64.4	5.0 ~ 64.4
MINIMUM AMPACITY	A	15.4	16.8
MAX. TD FUSE/BREAKER	A	25	25

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MULTI ZONE CONCEALED DUCTED I HEAT PUMPS

PERFORMANCE RATINGS		Multi Zone Concealed Ducted	
INDOOR MODEL		MD12Y3JM	MD18Y3JM
SPECIFICATIONS			
CAPACITY COOLING (RATED)	Btu	12,000	18,000
MOISTURE REMOVAL	Pts/h	2.5	4.2
AIRFLOW (LOW, MED, HIGH)	CFM	335 / 300 / 265	530 / 477 / 406
SOUND RATING - INDOOR	dB-A	26/31/33	29/31/34
ELECTRICAL DATA			
POWER SOURCE		208/230, 1, 60	208/230, 1, 60
REFRIGERATION SYSTEM			
CONNECTIONS		Flare	Flare
LIQUID LINE O.D.	in	1/4	1/4
SUCTION LINE O.D.	in	3/8	1/2
POWER AND COMMUNICATION CABLE	No. x AWG	4C x 18	4C x 18
DIMENSIONS & WEIGHT			
W X H X D	in	32-9/32 x 7-15/32 x 22-5/8	43-5/16 x 7-15/32 x 22-5/8
NET WEIGHT	lbs	45	58
SHIPPING WEIGHT	lbs	51	65

PERFORMANCE RATINGS		Multi Outdoor	
		24k	36k
OUTDOOR MODEL		MR24DY3JM	MR36TQY3JM
SPECIFICATIONS			
POWER INPUT COOLING MIN.~RATED~MAX.	Btu	1,330~4,879~10,543	2,627~9,281~13,375
POWER INPUT HEATING MIN.~RATED~MAX.	Btu	1,433~7,540~10,577	3,821~12,215~13,989
POWER SUPPLY	V , Ø , Hz	208/230, 1, 60	208/230, 1, 60
EST. YEARLY OPERATING COST	\$	122-125	170-245
RUNNING CURRENT COOLING MIN.~RATED~MAX.	A	2.8~6.6~14.0	3.3~11.8~17.0
RUNNING CURRENT HEATING MIN.~RATED~MAX.	A	3.0~10.2~14.1	4.9~15.5~17.8
RUNNING CURRENT COOLING MIN.~RATED~MAX.	W	390~1430~3090	770~2720~3920
RUNNING CURRENT HEATING MIN.~RATED~MAX.	W	420~2210~3100	1120~3580~4100
POWER AND COMMUNICATION CABLE	No. x AWG	4 X 18	4 X 18
DIMENSIONS W X H X D	inch	34-1/4 x 31-7/8 x 12-5/8	35-7/16 x 45-7/8 x 14-5/8
NET WEIGHT	lbs	130	209
REFRIGERATION SYSTEM			
REFRIGERANT		R410A	R410A
FACTORY PRECHARGE	ft	74.1	123.5
LIQUID LINE O.D.	in	1/4	1/4
SUCTION LINE O.D.	in	3/8	3/8
MAX. LINE LENGTH	ft	246.1	246.1
MAX. HEIGHT DIFFERENCE	ft	49.2	49.2
SOUND PRESSURE LEVEL COOLING	A	51	57
SOUND PRESSURE LEVEL HEATING	A	51	57
OPERATING RANGE COOLING MIN. ~ MAX.	°F DB	14.0 ~ 114.8	14.0 ~ 114.8
OPERATINGRANGE HEATING MIN. ~ MAX.	°F WB	5.0 ~ 64.4	5.0 ~ 64.4
MINIMUM AMPACITY	A	15.4	16.8
MAX. TD FUSE/BREAKER	A	25	25

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DUCTLESS SPLIT SYSTEMS

ACCESSORIES

Refrigeration Line Sets

USED WITH	Length Ft.	Liquid	Suction	Kit#
9000 and 12000 BTU indoor units	15'	1/4"	3/8"	T32150
	35'	1/4"	3/8"	T32350
18000 BTU indoor units	15'	1/4"	1/2"	T42150
	35'	1/4"	1/2"	T42350
24000, 30000 and 36000 BTU indoor units	15'	3/8"	5/8"	T53150
	35'	3/8"	5/8"	T53350

Low Ambient Wind Baffle Kit

Wind baffle allows operation down to zero
[Available for Wall-Mounted Single Zone]

WIND BAFFLE	USED WITH
DLAWB1	9000 - 12000 Btu wall-mounted single zone models
DLAWB2	18000 - 36000 Btu wall-mounted single zone models

Thermostat

Wired Wall Thermostat

WIND BAFFLE	USED WITH
DWCI	Available for all models

Friedrich's DSS are compatible with aftermarket drain pumps and condensate sensors.

For more information visit the following sites:

Condensate Pumps

Rectorseal/Aspen Pumps: <http://airtec.rectorseal.com/pumpselector>.

Condensate Sensors

Rectorseal, Safe-T-Switch® SS610E: www.rectorseal.com

Aqua guard, AG-9300-U: www.rctus.com/product

Adapter

Adapter part number 67270018 is available through Friedrich parts distributors.

All R410A models have 1/2"-20 UNF (5/16" SAE) X 1/4" SAE thread per inch charging and vacuuming ports.

An adapter must be used for 1/4" gauges.

PORTABLE AIR CONDITIONERS

AIR CONDITIONERS | HEAT PUMPS

ZoneAire® Dual hose design for up to 40% faster cooling.

Portable Air Conditioners

3-IN-1 system

- Air conditioner
- Dehumidifier
- Fan

Self-evaporative condensate system means no bucket to empty.

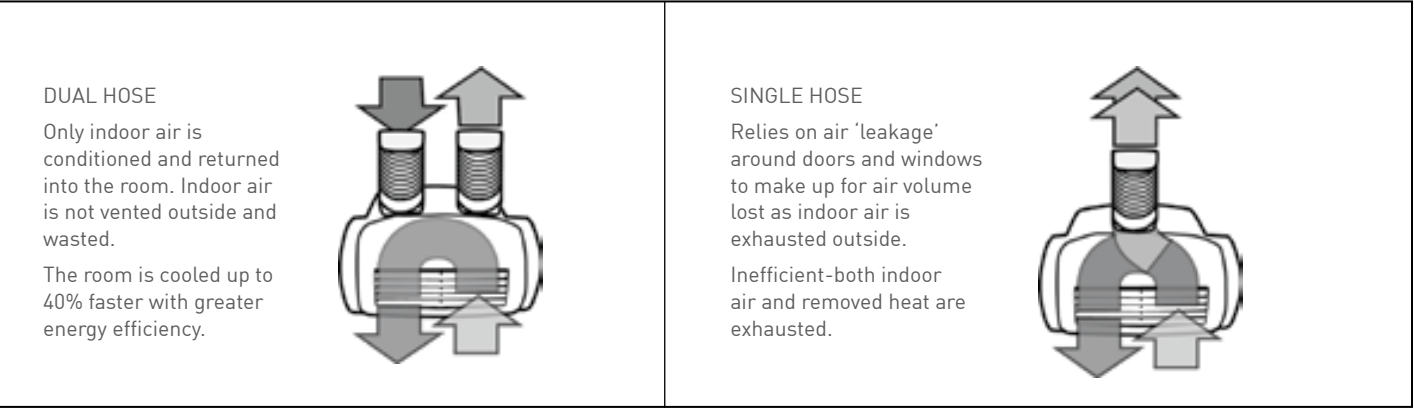
Removes up to 72 pts./day when used as a dehumidifier.

Portable Heat Pump

4-IN-1-system

- Air conditioner
- Heater
- Dehumidifier
- Fan

With a C.O.P. of 2.8, heat pump operation is almost 3x more efficient than other portable heaters.



PORTABLE AIR CONDITIONERS


AIR CONDITIONERS | HEAT PUMPS

Features

- Heat pump has built-in drain pump to remove condensate in heating mode
- Dual hoses for closed loop cooling and exhaust functions for up to 40% faster, more efficient cooling
- Condensate overflow protection- the unit will automatically shut off if tank should become full. The unit can be drained through the water outlet drain
- 24-hr. timer
- 3 fan speeds
- Washable, antimicrobial air filter
- Auto restart after power outage
- Stores easily in most closets

Specifications

Friedrich Model		P09B	P12B	PH14B
PERFORMANCE				
Cooling Capacity	Btu	9300	11600	13500
Heating Capacity	Btu	—	—	10700
Energy Efficiency Rating	EER	9.4	8.8	9.5
Coefficient of Performance	COP	—	—	2.8
Air Movement	CFM	212	235	250
Moisture Removal	Pts/hr.	5.0	6.0	6.0
SPECIFICATIONS				
Refrigerant Type		R410A		
Power Supply	Volts	115		
Rated Current	Amps	10.8	11.5	10.8
Dimensions (Inches)	W	19 1/2		
	H	33 1/2		
	D	15 1/2		
Weight (Net/Shipping)	Lbs.	71/89	72/90	78/95

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

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



DEHUMIDIFIERS

50 PINT | 70 PINT MODELS

Dehumidifiers Three drain options; including a built-in pump that pumps condensation, vertically or horizontally, up to a combined 15 ft.

Features

- Continuous drainage operation
- Removable condensate bucket with carry handle
- Set humidity level from 30% to 90% RH
- 24 hr. ON/OFF timer
- 2 speed fan
- Low temperature operation down to 41° F
- Washable, slide-out filter
- Displays room temp and humidity %
- Displays °F/°C
- Automatic defrost cycle
- High efficiency ENERGY STAR® models
- Built-in casters for easy mobility

Installation Features

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

Applications

Basements • Bathrooms • Any area requiring humidity control

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.

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

Five-year sealed refrigeration system warranty, and one-year parts warranty-carry in. Limitations apply. See warranty documentation for details. *The rating is expressed in pints per 24 hour period at 80° F and 60% relative humidity. Dehumidifiers are tested using the ANSI/AHAM DH-1 standard.

**Energy Factor: The energy efficiency of dehumidifiers is measured by its energy factor, in liters of water removed per kilowatt-hour (kWh) of energy consumed or L/kWh. In general, a higher energy factor means a more efficient dehumidifier.



D50DBP/D70BP




Top-mounted digital controls



SPECIFICATIONS

Friedrich Model	D25BNP ★	D50BP ★	D70AP ★
Dehumidification Capacity* (Pints/24 hrs)	25	50	70
Drain pump	No	Yes	Yes
Control	Digital	Digital	Digital
Power	115V/60HZ	115V/60HZ	115V/60HZ
Current (Amps)	4.5	4.7	7.5
Watts	240	645	840
Energy Factor (EF), L/kWh	1.85	1.85	1.85
Compressor Type	Rotary	Rotary	Rotary
Refrigerant Type/Charge amount (Oz)	R-410A / 9.20z	R-410A / 9.20z	R-410A / 12.20z
Operating Temperature Range	41°F- 95°F	41°F- 95°F	41°F- 95°F
Bucket Capacity (Pints)	11.5 approximate	16.2 approximate	16.2 approximate
Easy Roll Casters	Yes	Yes	Yes
Dimensions (WxHxD)	13 1/4"W x 21 1/2"H x 9 1/2"D	15"W x 23 1/4"H x 12"D	
Net Weight	32 lbs.	39 lbs.	47 lbs.
Shipping Weight	34 lbs.	44 lbs.	52 lbs.

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.

SINGLE PACKAGE VERTICAL AIR CONDITIONERS

HEAT PUMPS | AIR CONDITIONERS with ELECTRIC HEAT

Vert-I-Pak® The best choice to heat & cool extended stay properties, suites, assisted living, student housing and commercial spaces.



There’s no comparison

Friedrich Vert-I-Pak® is engineered to provide quieter performance for a better experience.

What you’ll find on Friedrich Vert-I-Pak®

- Chassis installs into a wall plenum and is held firmly in place by a sealing gasket, reducing noise from vibration transfer.
- ½ inch foil-backed insulation added on the inside of the chassis to reduce sound transmission into the guest room.
- Extra thick, vibration-absorbing rubber grommets mounted on durable base that is engineered for structural and acoustic integrity.
- Dynamically balanced blower with large, vibration-absorbing motor mounts for smooth and quiet operation.

What you'll find on competitor's products

- Chassis is screwed into the wall plenum. Metal-on-metal contact transfers vibration, increasing operating noise under typical conditions. Noise is transferred through the walls and into the room.
- No insulation on the unit to reduce noise transmission into the guest room.
- Hard plastic feet on the unit base which are less durable and transfer harsh vibration noise.



Friedrich’s unique ‘Free Floating’ chassis design

The chassis slides into the wall plenum and a gasket firmly seals the chassis to the plenum. This eliminates vibration noises that are transmitted into the room in competitor’s metal-on-metal fixed installations.



23000 Btu model

9200, 11500 and 17000 Btu models

SINGLE PACKAGE VERTICAL AIR CONDITIONERS

HEAT PUMPS | AIR CONDITIONERS with ELECTRIC HEAT

A better choice than whole building solutions

- Advantages Include:
- Lower installed cost
- Independent metering (no need to prorate for multitenant applications)
- Individual temperature set point (one unit can heat and others can cool)
- Less risk, with a whole building system spaces may become uninhabitable until the system is repaired or replaced
- Vert-I-Paks can be easily accessed for maintenance or replacement

Maintenance Features:

- Electrical disconnect switch
- Easy access front facing air filter
- Screwless 3-way slide out chassis for easier removal and accessibility
- Standard size air filter is readily available at retail

Energy Management Features:

- Front desk control compatible
- Occupancy sensor interface terminals
- Built-in fan delay for improved energy efficiency
- Full line of energy efficient heat pump models

Quiet Operation

- Rated to ARI standard 310/380.93

Indoor Air Quality:

- Fresh air damper
- Shipped with air filter installed

Reliability & Durability Features:

- Low ambient lockout (Locks out the compressor if the outdoor temperature is too low to operate without damage to the unit.)
- Random compressor restart after power interruption
- Room freeze protection
- Diamonblue™ advanced corrosion protection protects the outdoor coil and extends the life of the unit especially in harsh coastal environments



- PSC permanently lubricated motor for low maintenance and maximum efficiency
- Engineered drain pan won’t rust, eliminating the risk of unsightly rust stains from condensation on the building exterior
- Standard safety power disconnect
- Electronic control panel on unit for easy diagnostics and servicing
- 100% run tested prior to shipment- Every unit is tested in every operating mode for optimal performance and reliability
- Evaporative coil low temperature protection – control monitors the actual coil temperature and disengages the compressor if it senses the coil getting too cold (reduces potential damage to the unit in abnormal conditions or failure)
- Random compressor restart after power interruption

Flexible, more attractive installations:

- Can be installed from any interior side (front, right or left)
- Compact and lightweight, weighs as little as 125 lbs.
- All units are ready to install with only electrical hook up needed to be up and running.
- 24-volt remote thermostat ready
- 10" crimped and beaded duct-collar ready to attach flex duct
- Pre-wired, charged and piped
- Telescoping wall plenums adjust to fit varying exterior wall thicknesses
- All units are shipped (on pallet) with return air filter
- Ductable to multiple rooms
- Small footprint is only 23"W x 23"D x 32"H on most models
- Custom architectural louvers available to accent building exterior
- Unobtrusive 47" wall panel accessory is 40% smaller than some competitors’ panels
- Rear or side install wall sleeves
- Built-in low voltage thermostat strip/ remote thermostat ready



Only 23 1/8" wide x 23 1/8" deep, the compact chassis installs unobtrusively in a small mechanical closet

SINGLE PACKAGE VERTICAL AIR CONDITIONERS | SPECIFICATIONS

HEATER SIZE DATA

Friedrich Model	VEA09K25RTL	VEA09K34RTL	VEA09K50RTL	VEA12K25RTL	VEA12K34RTL	VEA12K50RTL	VEA18K25RTL	VEA18K34RTL	VEA18K50RTL
Heater Size	2.5	3.4	5.0	2.5	3.4	5.0	2.5	3.4	5.0

Friedrich Model	VEA24K25RTL	VEA24K34RTL	VEA24K50RTL	VEA24K75RTL	VEA24K10RTL
Heater Size	2.5	3.4	5.0	7.5	10

Friedrich Model	VHA09K25RTL	VHA09K34RTL	VHA09K50RTL	VHA12K25RTL	VHA12K34RTL	VHA12K50RTL	VHA18K25RTL	VHA18K34RTL	VHA18K50RTL
Heater Size	2.5	3.4	5.0	2.5	3.4	5.0	2.5	3.4	5.0

Friedrich Model	VHA24K25RTL	VHA24K34RTL	VHA24K50RTL	VHA24K75RTL	VHA24K10RTL
Heater Size	2.5	3.4	5.0	7.5	10

Friedrich Model	VHA09R25RTM	VHA09R34RTM	VHA09R50RTM	VHA12R25RTM	VHA12R34RTM	VHA12R50RTM
Heater Size	2.5	3.4	5.0	2.5	3.4	5.0

General Specifications

Friedrich Model		VEA09K	VEA12K	VEA18K	VEA24K50	VEA24K75	VHA09K	VHA09R	VHA12K	VHA12R	VHA18K	VHA24K50	VHA24K75
COOLING DATA													
Cooling	Btu	9000/8600	11500/11200	17000/16500	23000/22700	23000/22700	9000/8900	8900	11500/11200	12000	17000/16800	23000/22800	23000/22800
Power	W	959/918	1162/1140	1882/1860	2421/2389	2421/2389	939/908	908	1186/1155	1124	1882/1860	2527/2505	2527/2505
EER		10.5/10.5	9.8/9.8	9.0/9.0	9.5/9.5	9.5/9.5	10.5/10.5	9.8	9.7/9.7	9.8	9.1/9.1	9.1/9.1	9.1/9.1
Sensible Heat Ratio		0.74	0.74	0.70	0.70	0.70	0.74	0.74	0.74	0.72	0.70	0.70	0.70
HEAT PUMP DATA													
Heating	Btu			NA			8200/8000	10800/10600	10800/10600	11500	16000/15000	20000/20000	20000/20000
COP @ 47F				NA			3.0/3.0	3.0/3.0	3.0/3.0	3.0	3.0/3.0	3.0/3.0	3.0/3.0
Heating Power	W			NA			801/782	1055/1035	1055/1035	1123	1560/1540	1953/1953	1953/1953
Heating Current	A			NA			3.6/3.9	4.5/4.7	4.5/4.7	4.4	7.5/8.2	8.5/9.4	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	230/208	230/208	230/208	230/208
Volt Range		253-198	253-198	253-198	253-198	253-198	253-198	253-197	253-198	253-197	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	10.0/10.4	4.1/4.3	5.3/5.5	5.3/5.5	5.0	8.2/8.6	10.6/10.9	10.6/10.9
Amps L.R.		21.0	29.5	42	46	46	21.0	29.5	29.5	23.5	42	46	46
Amps F.L.		3.5	4.5	7.8	9.5	9.5	3.5	5.0	5	4.3	7.8	9.5	9.5
Indoor Motor	HP	1/4	1/4	1/4	1/4	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	1.94	1.2	1.2	1.2	1.08	1.2	1.94	1.94
Outdoor Motor	HP		NA		1/4	1/4			NA			1/4	1/4
Outdoor Motor	A		NA		0.85	0.85			NA			0.85	0.85
AIRFLOW DATA													
Indoor	CFM	300	350	450	610	610	300	325	420	390	450	610	610
Vent	CFM	60	60	60	60	60	60	60	60	60	60	60	60
Maximum ESP		.3"	.3"	.3"	.4"	.4"	.3"	.3	.3"	.3"	.3"	.4"	.4"
PHYSICAL													
Dimensions (W x D x H)		23x23x32	23x23x32	23x23x32	23x23x47	23x23x47	23x23x32	23x23x32	23x23x32	23x23x32	23x23x32	23x23x47	23x23x47
Net Weght	Lbs.	114	124	144	167	167	114	125	125	124	144	167	167
Shipping Weight	Lbs.	125	135	155	220	220	125	135	135	135	155	220	220
Test Setting		Low	Low	High	Low	Low	Low	Low	High	Low	High	Low	Low
R410A Charge	Oz.	33.5	32	48.1	65	65	38	39	39	37	48	65	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.
Five-year sealed refrigeration system warranty, and one-year parts warranty. Limitations apply. See warranty documentation for details.



SINGLE PACKAGE VERTICAL AIR CONDITIONERS | ACCESSORIES



ARCHITECTURAL LOUVER
Friedrich VPAL2

Extruded aluminum grille that attaches to the outdoor section of the wall plenum. Takes in fresh air and returns condenser air. Can be ordered in custom colors.

Dimensions: 25 9/16" W x 31 1/16" H



WALL PLENUM
Two-part sleeve that telescopes in and out. Sits inside the exterior wall penetration.

Friedrich VPAWP1-8
Telescopes from 5 1/2" –8"

Friedrich 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

FIRST COMPANY SLEEVE ADAPTER
Friedrich VPASA1

Single piece, welded adapter allow retrofit into existing First Company SPXR-series single package vertical unit wall sleeve and louver.

RETURN AIR GRILLE/ACCESS PANEL
Friedrich VPRG4

Hinged panel allows access to unit and return air filter. A field-supplied filter (25" x 20") is mounted inside the grille.

Dimensions: 29" W x 58" H
Cutout dimensions: 27" W x 55 3/4" H

REMOTE THERMOSTAT
Friedrich Model RT6

Digital, two 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.

DRAIN PAN
Friedrich VPDP1

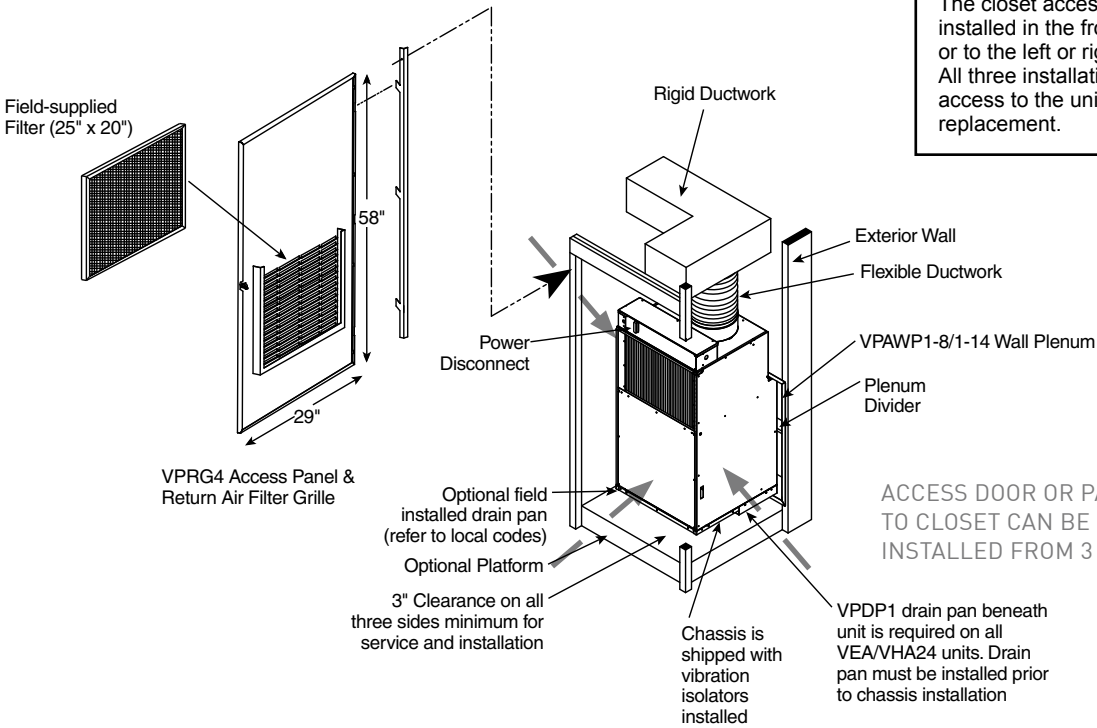
For 2-ton models. Can be installed prior to chassis for simplified installation and removal.



Application and Accessories (Two-ton models only)

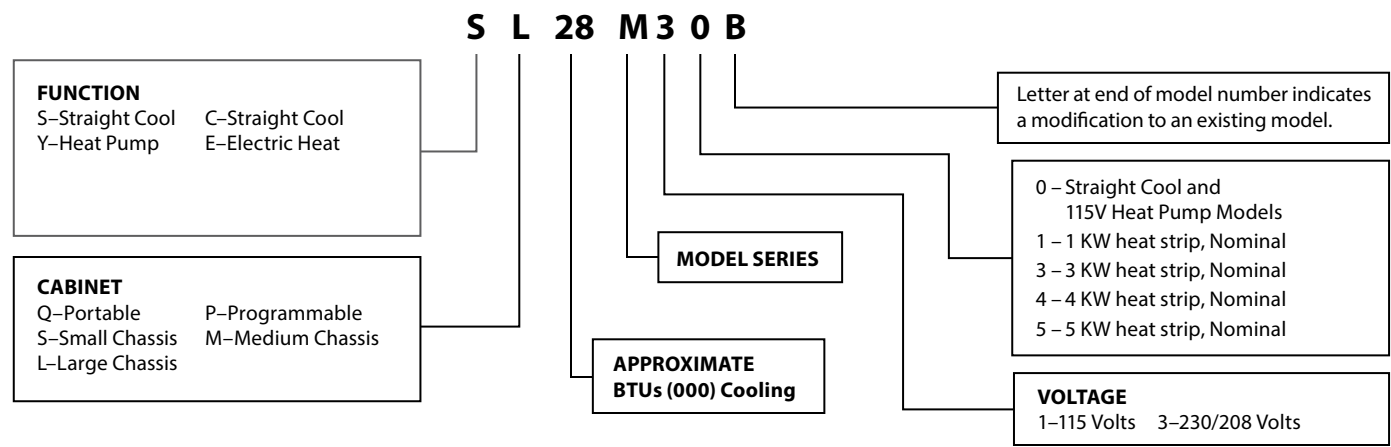
New design utilizes drain pan (VPDP1) that can be installed prior to chassis for simplified installation and removal. Utilizes same wall plenum as other units to give consistent exterior appearance. VEA/VHA24 plenum must be installed 1 1/2" off of chassis platform. Wired thermostat with occupancy sensor available (EMRT1).

Installation Drawing (23000 Btu shown)

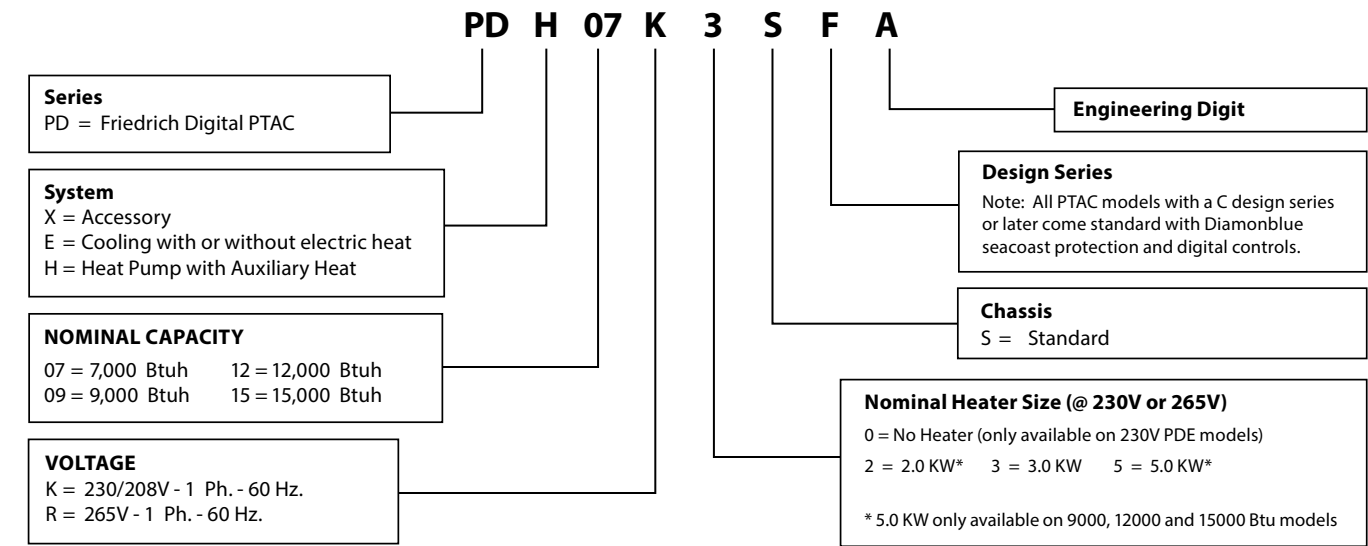


The closet access panel may be installed in the front (as shown below) or to the left or right side of the unit. All three installation options will allow access to the unit for removal and replacement.

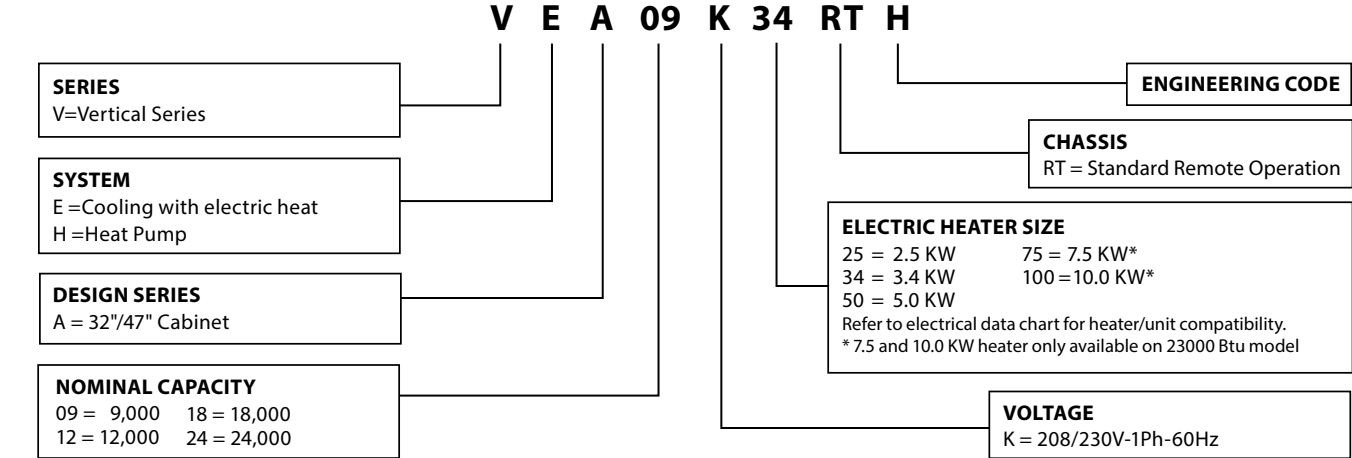
ACCESS DOOR OR PANEL TO CLOSET CAN BE INSTALLED FROM 3 SIDES



Packaged Terminal Air Conditioner | Model Identification Guide



Vertical Single Package Air Conditioner | Model Identification Guide



This guide is for general reference only.

Your Friedrich distributor can assist you in determining the proper Btu sizing for your specific needs.

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

AREA TO BE COOLED IN SQUARE FEET	APPROXIMATE COOLING Btu REQUIRED
100-150	5000
150-250	6000
250-300	7000
300-350	8000
350-400	9000
400-450	10000
450-550	12000
550-700	14000
700-1000	18000
1000-1200	21000
1200-1400	23000
1400-1500	24000
1500-2000	30000
2000-2500	34000

1. If heavily shaded, reduce capacity 10%.
2. If very sunny, add 10%.
3. Add 500 Btu per person over 2 people.
4. Add 4000 Btu if area is a kitchen.

We have the full line of Friedrich Air Conditioning products.

DUCTLESS SPLIT SYSTEMS

Sleek, absolutely quiet and incredibly energy efficient. Mix-and-match multizone system configurations including dual, tri-zone and quad-zone configurations. Wall-mounted, ceiling cassette and concealed ducted 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.

ROOM AIR CONDITIONERS

Kühl® Series offers advanced energy management capabilities with two 7-DAY programs and is Wi-Fi enabled.

IDEAL FOR: Commercial and residential installations where durability, energy management and ease of maintenance are key concerns.

DEHUMIDIFIERS

3 drain options: 50 & 70 pint capacity.

IDEAL FOR: Any area where excessive moisture is a problem. Permanent or temporary installation.

THRU-THE-WALL AIR CONDITIONERS

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

IDEAL FOR: Deep exterior walls and year 'round installations. 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.

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

SINGLE PACKAGE VERTICAL UNITS

Ductable, single package unit installs in a small utility closet. A better 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.

PORTABLE AIR CONDITIONERS

New Heat Pump is 4-IN-ONE SYSTEM: Air conditioner, heater, dehumidifier and fan. Can be quickly vented through a window or wall opening.

IDEAL FOR: Workshops, garages, home offices, dorm rooms, sunrooms, bedrooms, attics and basements. Permanent or temporary installation.



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