



Specialty HVAC Products

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A SMARTER & MORE SUSTAINABLE COMFORT SOLUTION



KÜHL®

BUILT FOR DURABILITY.
MADE FOR COMFORT.

UNMATCHED WHEN IT COMES TO QUALITY, EASE, AND CONTROL,
EVERYTHING ABOUT KÜHL® SETS THE STANDARD FOR HOME COMFORT.

As part of our commitment to offering sustainable products, the KÜHL room air conditioner line now utilizes A2L-compliant R-32 refrigerant and features inverter compressors, helping you contribute to decarbonization goals while enjoying more energy cost savings.



FRIEDRICH

DELIVERING BOLDLY CRAFTED COMFORT

KÜHL®

Setting the Standard for Home Comfort

Home comfort should be simple—and Friedrich® Kühl® Room Air Conditioners have industry-leading technology and features to deliver just that. Designed to meet your unique temperature requirements while delivering significant energy cost savings, Kühl sets the standard for comfort.



Precise Comfort

The Friedrich-exclusive Precision Inverter® compressor ramps up to quickly reach your desired temperature then adjusts to stay there.



Built to Last

Enjoy peace of mind with a durable, commercial-grade design built to perform in the extreme conditions of industrial and commercial applications.



Quiet Operation

Relax completely thanks to QuietMaster® technology's unique airflow design that delivers powerful air dispersion at low sound levels.



Smart Control

Adjust set point, schedule, control multiple units, and more—at home or remotely via the FriedrichLink® app.

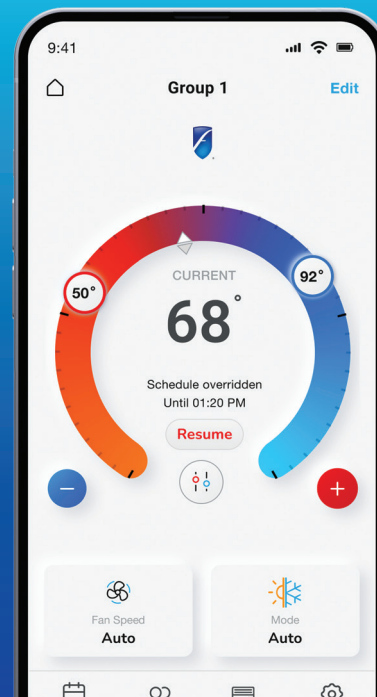
Access the FriedrichLink App With Built-in Wi-Fi Connectivity

- Voice Command with Amazon Alexa and Google Home
- Seven-day programmable schedule with FriedrichLink app
- Keypad lockout prevents unwanted changes

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FriedrichLink®



Precise, Energy-saving Performance

Kühl® Room Air Conditioners are built to reduce your environmental footprint—and energy bills—while providing precise and customizable comfort.

Saving Energy While Maximizing Comfort

Traditional room air conditioners have on/off compressors that result in wild temperature swings, inefficient energy use, and hard stops/starts that may shorten the life of the unit.

Friedrich's **Precision Inverter®** variable speed compressor adjusts up or down based on need, providing the user precise temperature control, exceptional energy efficiencies, and dependably quiet operation.

Additionally, the frequent on/off operation of traditional units puts strain on both the unit and the power grid during hot summers. Friedrich **Soft-Start™ technology** starts the compressor with significantly less strain at start up, saving energy.



**PRECISION
INVERTER®**

**Automatically adjusts
its performance based
on the room's need.**



KÜHL®+

Increased Efficiency

Heat pumps move heat instead of generating it, making them up to 3X more efficient than space heaters and electric furnaces for reduced carbon emissions

Decreased Cost

Window heat pumps are more affordable than traditional HVAC systems and offer greater cost efficiency

All the Benefits of a Heat Pump—From Your AC

Friedrich Kühl was the first to introduce energy-efficient heat pump technology to room air conditioners in 1992 and remains an industry leader today.

Kühl+ Room Air Conditioners heat effectively down to 45 degrees—eliminating the need for a second unit to provide warmth. In addition to all the great features you can expect from Kühl ACs, heat pump-enabled Kühl+ units offer:

Year-round Comfort

With a simple window or through-the-wall installation, Kühl+ units provide precise heating and cooling, season after season

ENERGY STAR® Certified

Most models have earned ENERGY STAR certification, ensuring additional efficiency and savings



Crafted With Bold Features for Quiet, Lasting Comfort

Come home to unmatched comfort day after day with Kühl's dependably quiet operation and lasting, commercial-grade design.



QuietMaster® Technology

Building the quietest air conditioners begins with the design process and continues with selecting superior components and materials.

Innovations like a vibration-isolating design and copper loops designed for better harmonics result in a noticeably quieter cooling and heating experience.



Scan to Watch Video:
**QUIETMASTER®
TECHNOLOGY**

Commercial-grade Components

- 1** Dense, sound-blocking insulation and 20-gauge steel inner walls
- 2** Inverter compressor mounted on large rubber grommets
- 3** Enclosed commercial-grade fan motor
- 4** Insulated air plenum prevents outside air and noise intrusion
- 5** Resilient rings on motor mount prevent metal-to-metal contact, eliminating extra vibration and noise
- 6** Rifled copper tubing with greater surface area for heat exchange increases coil efficiency and improves overall energy efficiency



NOTE: Prototype shown. Production model may vary.



Scan to Watch Video:
**KÜHL®
DURABILITY**

Model Numbers & Details



Inverter Models

			Cooling Btu (Nominal)	Low Cooling Btu	HP Heating Btu	Electric Heating Btu (Back-up)	Volts	Cooling Amps	Cooling Watts	Heating Amps	Heating Watts	Electric Heating kW	EER	CEER	ENERGY STAR®	Estimated Yearly Energy Cost	COP	Moisture Removal Pints/HR	CFM	Net/ship Wt. lbs.	Sleeve
Model	SKU																				
KÜHL® SLIDE-OUT CHASSIS - COOL ONLY																					
	KCVQ08B10A	B50-624	9,700	4,000	–	–	115V	9.9	502	–	–	–	10.8	13.9	N	\$51	–	2.9	200	70/77	Q
★	KCVS08B10A	B50-625	8,700	4,000	–	–	115V	8.4	370	–	–	–	12.3	16	Y	\$50	–	3	255	100/110	S
★	KCVS12B10A	B50-626	12,500	6,000	–	–	115V	11.8	624	–	–	–	11.1	15	Y	\$62	–	4.2	300	110/120	S
★	KCVS12B30A	B50-627	12,700	6,000	–	–	230V	6.3	624	–	–	–	11.9	15	Y	\$62	–	4.5	300	110/120	S
★	KCVS16B30A	B50-628	16,200	7,750	–	–	230V	8.6	833	–	–	–	10	14.4	Y	\$83	–	6	350	110/120	S
★	KCVM14B10A	B50-621	13,900	6,750	–	–	115V	11.6	680	–	–	–	10.9	14.7	Y	\$89	–	5.6	360	120/135	M
★	KCVM18B30A	B50-622	19,100	9,000	–	–	230V	10	990	–	–	–	11	14.4	Y	\$98	–	7.2	425	130/145	M
★	KCVM24B30A	B50-623	23,200	11,500	–	–	230V	12	1,349	–	–	–	9.5	13	Y	\$133	–	8.9	450	130/145	M
★	KCVL28B30A	B50-619	28,900	14,000	–	–	230V	14.3	1,577	–	–	–	10.3	13.2	Y	\$155	–	11.1	600	155/185	L
★	KCVL36B30A	B50-620	34,100	17,000	–	–	230V	16	2,153	–	–	–	8.6	12.2	Y	\$281	–	12.5	700	155/185	L
KÜHL®+ SLIDE-OUT CHASSIS - HEAT PUMP																					
	KHVQ10B11A	B50-633	9,400	6,600	6,000	4,000	115V	9.5	580	9.9	682	1.1	8.9	12.2	N	\$58	2.6	3.2	255	73/80	Q
★	KHVS10B11A	B50-634	10,200	8,700	8,700	4,000	115V	10.2	501	11.2	895	1.1	11.2	14	Y	\$50	3	3.3	300	105/115	S
★	KHVS12B33A	B50-635	12,600	11,400	11,000	10,700	230V	6.2	612	4.3	1,139	3.2	11.4	14.4	Y	\$61	2.9	4.2	375	115/125	S
★	KHVM24B34A	B50-632	22,900	18,000	17,500	13,000	230V	12.6	1,358	10.9	2,000	4.0	9	12.6	Y	\$134	2.6	9	450	135/150	M
★	KHVL28B35A	B50-631	28,200	21,700	21,000	17,300	230V	15.5	1,566	11.5	2,137	5.0	10.1	12.6	Y	\$156	3	11.2	600	160/190	L
KÜHL®+ SLIDE-OUT CHASSIS - ELECTRIC HEAT																					
	KEVS16B33A	B50-630	16,200	7,750	–	10,700	230V	8.6	833	16.0	3,500	3.2kW	10.6	14.4	N	\$83	–	6	350	110/120	S
	KEVL36B35A	B50-629	34,100	1,700	–	17,300	230V	16	2,015	24.0	5,500	5.0kW	9.6	12.2	N	\$281	–	12.5	700	155/185	L

NOTE: Kühl®+ Heat Pump heating information indicates heat pump performance. Kühl®+ Electric Heat heating information indicates electric heat strip performance. For Kühl®+ Heat Pump electric heating performance refer to corresponding Kühl®+ Electric Heat model.

★ ENERGY STAR® models

Single-speed Models

		Cooling Btu (Nominal)	HP Heating Btu	Electric Heating Btu (Back-up)	Volts	Cooling Amps	Cooling Watts	Heating Amps	Heating Watts	EER	CEER	ENERGY STAR®	Estimated Yearly Energy Cost	COP	Moisture Removal Pints/HR	CFM	Net/ship Wt. lbs.	Sleeve
KÜHL® SLIDE-OUT CHASSIS - COOL ONLY																		
KCQ08B10A	B67-673	8,000	–	–	115	7.2	661	–	–	12.1	12	N	\$65	–	2.1	200	72/85	Q
KCS12B10A	B61-519	12,000	–	–	115	11.1	992	–	–	12.1	12	N	\$97	–	3.5	300	112/134	S
KCM24B30A	B67-672	23,800	–	–	230	13.8	2,308	–	–	10.4	10.3	N	\$224	–	7.5	640	191/212	M
KCL28B30A	B67-670	27,100	–	–	230	16	2,606	–	–	10.7	10.7	N	\$255	–	9.3	640	193/214	L
KCL36B30A	B61-528	36,200	–	–	230	23.7	3,987	–	–	9.3	9.3	N	\$386	–	11	725	212/248	L
KÜHL®+ SLIDE-OUT CHASSIS - HEAT PUMP																		
KHS10B10A¹	B67-675	10,000	8,500	–	115	9.3	826	9.8	804	12.1	12	N	\$81	2.6	2	300	109/131	S

¹KHS10B10A heat pumps operate on 115 volts and are not equipped with supplemental heat; They 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.

NOTE: Kühl®+ Heat Pump heating information indicates heat pump performance. Kühl®+ Electric Heat heating information indicates electric heat strip performance. For Kühl®+ Heat Pump electric heating performance refer to corresponding Kühl®+ Electric Heat model.



All models use R-32 refrigerant with low Global Warming Potential

Kühl® Installation Information

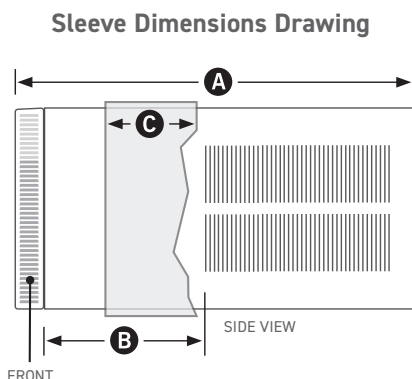
Window or Through-the-wall Installation



							WINDOW INSTALLATION		THROUGH-THE-WALL INSTALLATION					
Sleeve	Height	Width	A	B	Minimum Extension Into Room¹	Minimum Extension Outside¹	Window Width		Through-the-wall Installation Finished Hole			Carton Dimensions		
			Depth With Front	Shell Depth to Louvers			Minimum²	Maximum	Height	Width	Max. Depth	Height	Width	Depth
Q	14 1/4"	19 3/4"	21 3/8"	8 1/2"	5 1/2"	10 3/4"	22"	42"	14 1/4"	22"	8 1/2"	18 3/4"	22"	25 1/2"
S	15 15/16"	25 15/16"	29"	8 3/4"	5 3/4"	16 15/16"	27 3/8"	42"	15 15/16"	26 3/16"	7 3/8"	19"	29"	34 1/2"
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"	29"	34 1/2"
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"	31 5/8"	38 7/8"

¹Minimum extensions when mounted in a window. ²Minimum widths achieved using one side curtain assembly as opposed to both in a standard installation.

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



Electrical Requirements

Model	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA#)	Power Cord Length (ft.)	Wall Outlet Appearance
KCVQ08B10A, KCVS08B10A, KCVS12B10A, KCVM14B10A, KHVS10B11A and KHVQ10B11A	125V-15A	5-15P	6'	
KCVS12B30A, KCVS16B30A and KCVM18B30A	250V-15A	6-15P	6'	
KCVM24B30A, KCVL28B30A, KHVS12B33A, KEVS16B33A	250V-20A	6-20P	6'	
KHVM24B34A, KHVL28B35A, KEVL36B35A, KCVL36B30A	250V-30A	6-30P	6'	

NOTE: Power cords can be routed to the front left or right side of Kühl® units.

Cooling Sizing Guide

AREA TO BE CONDITIONED IN SQ. FT.	APPROXIMATE COOLING BTU REQUIRED
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 - 1,500	24,000
1,500 - 2,000	30,000
2,000 - 2,500	34,000

Guide based on normal room insulation, average number of sun exposed windows and two person occupancy.

1. If heavily shaded, reduce cooling Btus required by 10%
2. If very sunny, increase cooling Btus required by 10%
3. Add 500 Btus per person over 2 people
4. Add 4,000 Btus if the area is a kitchen

Kühl® Accessories

FreshAir® IAQ

MERV 13 Filters/Filter Brackets

Kühl® air conditioners can utilize an optional FreshAir® MERV 13 air filter that's effective at capturing and removing microorganisms from the air, which according to ASHRAE¹, the leading authority on the science behind advanced indoor air quality, include harmful airborne viruses.

¹Based on ASHRAE Guidance for Building Operations during the COVID-19 Pandemic.

Model No.	SKU	UPC	Description
KMFB1PK	L52-105	724587440553	Kühl MERV filter bracket 1 pack
KMFBQ1PK	L52-106	724587440546	Kühl Q MERV filter bracket 1 pack
KMFQ3PK	L52-109	724587440560	Kühl MERV filter – Q chassis 3 pack
KMFS3PK	L52-110	724587440577	Kühl MERV filter – S chassis 3 pack
KMFM3PK	L52-108	724587440584	Kühl MERV filter – M chassis 3 pack
KMFL3PK	L52-107	724587440591	Kühl MERV filter – L chassis 3 pack



NOTE: Filter bracket required for MERV 13 filter installation; Minimum bracket order of 24; Minimum filter order quantity of eight.

Window Mounting Kits²: Kühl®+

Window kits are included with cooling only models, but are an accessory item for Kühl®+ heat/cool models.

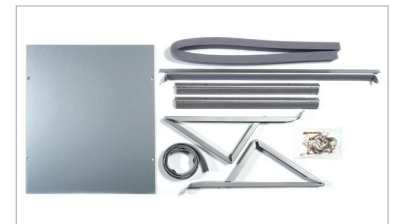
Heat / Cool Models	Kit No.	SKU
KHVQ10B11A ³	KWIKQA	B88-262
KHS10B10A, KHVS10B11A, KHVS12B33A, KEVS16B33A	KWIKSB	B85-674
KHVM24B34A	KWIKMB	B85-675
KHVL28B35A, KEVL36B35A	KWIKLB	B85-676

²Window kits are required for installation of Kühl®+ models in a window.

³Does not include window brackets.



KWIKQA



KWIKSB, KWIKMB, KWIKLB

Drain Kit

Drain kits allow the field-installed drain tube to be installed to the bottom of the sleeve to route the condensate from the unit.

Model	Kit No.	SKU
All Kühl® Series Models	DC2	—



Premium Carbon Filters

Premium carbon filters remove odors and volatile organic compounds (VOC) and can achieve up to a MERV 6 rating when used with a standard filter.

NOTE: Sold as a 3 pack.

Model	Kit No.	SKU
KCVQ and KHVQ	KWCFQ	L52-113
KCVS, KHVS, and KEVS	KWCFS	L52-114
KCVM and KHVM	KWCFM	L52-112
KCVL, KHVL, and KEL	KWCFL	L52-111



Friedrich® Kühl®

Fast Features

Cooling & Heating Efficiencies:

COOLING: 8,000–36,200 Btu

HEATING: 6,000–21,000 Btu

Compressor Type: Inverter-driven, variable speed

ENERGY STAR® Certified: Yes

Refrigerant Type: R-32

Key Features

- Precision Inverter®
- QuietMaster® technology
- Built-in Wi-Fi
- Control with FriedrichLink® app or by voice command
- Available FreshAire® MERV 13 filters

Additional Standard Features:

- **Earth-friendly design** with R-32 refrigerant that meets the EPA's 2025 global warming potential limit, the ability to set high and low temperature limits, and recyclable packaging
- Flexible Installation with a slide-out chassis and the ability to install in a window or through-the-wall with no drilling required
- **Superior air filtration** with unique fresh air intake and stale-air exhaust for improved air quality and circulation
- **Comfort and convenience** with 24-hour timer, three fan speeds, automatic fan, auto changeover between cooling and heating on Kühl+ models, auto restart, and eight-way airflow control

Limited Warranty:

- 2-year parts & labor



KÜHL®
BUILT FOR DURABILITY.
MADE FOR COMFORT.



Standing Out as a Cut Above

Many Friedrich products have sustainability features, but the KCVQ08B10A, KCVS08B10A, KCBS12B10A, KHVS10B11A, KHVS12B33A, KCVM14B10A, KHVM24B34A and KHVL28B35A models have earned our Sustainability Standout® seal, indicating that they are among the best of the best. We created the seal to help you more easily find the products that save energy, save money, and save the planet.

Due to continuing research in new energy-saving technology, specifications are subject to change without notice. EER is the unit's Energy Efficiency Ratio; CEER is the unit's Combined Energy Efficiency Ratio. Your energy costs will depend on your utility rates and use. The estimated energy cost is based on a electricity cost of \$.13 per kWh.

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PRECISE PERFORMANCE MEETS QUIET COMFORT



**CHILL® PREMIER
INVERTER SERIES**

Window and Through-the-Wall
Room Air Conditioners



FRIEDRICH

DELIVERING BOLDLY CRAFTED COMFORT



Comfort without compromise



Why Precision Inverter® Technology matters

Every Chill® Premier Inverter Room Air Conditioner is equipped with a Precision Inverter® compressor, which provides:



Variable Comfort Technology

- Precision Inverter® compressor operates at the precise capacity needed
- Turbo Cool boosts cooling operation by up to 41%²



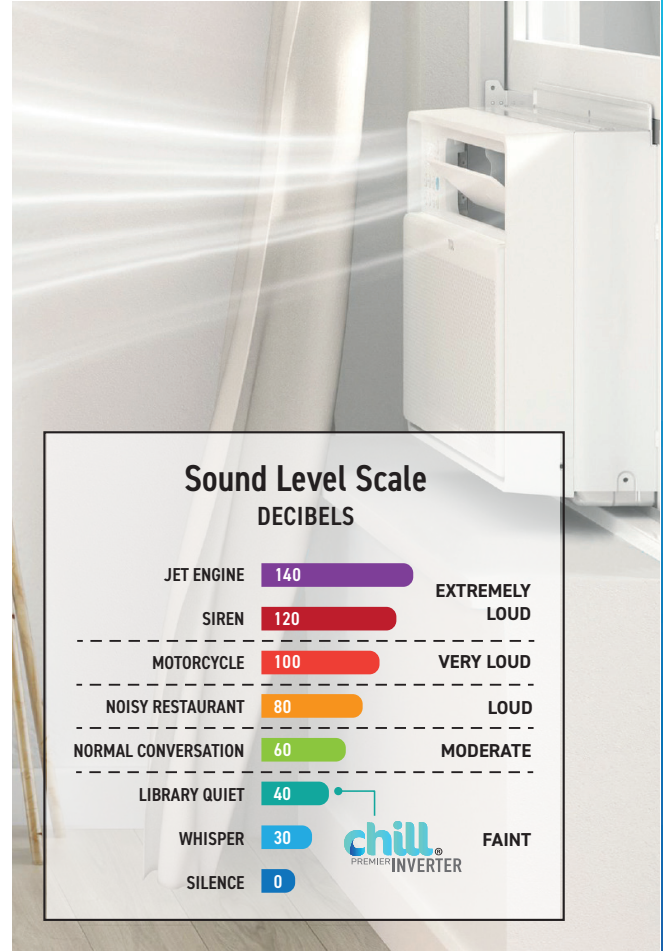
Library Quiet™ Operation

- As low as 42dB in cooling mode / 32dB in fan-only
- Soft-Start™ technology eliminates hard stop-and-starts and runs at lower sound levels than other compressor types
- QuietMaster® technology combines heavy duty insulation, stiffened sheet metal, optimized air flow and counterweights to dampen vibration
- Quiet mode operates at ultra-low fan speed for the quietest cooling available³



Ultimate Efficiency

- Operates up to 35% more efficiently¹ than traditional window air conditioners
- ENERGY STAR® certified
- Uses sustainable R-32 refrigerant to help protect our planet



FRIEDRICH® VS. THE COMPETITION

Traditional room air conditioners have on/off compressors that result in wild temperature swings, inefficient energy use and hard stops/starts that may shorten the life of the unit.

Friedrich's **Precision Inverter®** variable speed compressor adjusts up or down based on need, providing the user precise temperature control, exceptional energy efficiencies and **Library Quiet™** operation.



Automatically adjusts its performance based on the room's need.



Ultimate flexibility & unmatched intelligence

Going beyond efficiency and comfort, the Friedrich® Chill® Premier Inverter Room Air Conditioner features a flexible design and simple installation while delivering peace-of-mind with smart features and durable quality.



Smart Design

Traditional window units don't allow the homeowner to open the windows once installed, limiting the amount of fresh air, but the Friedrich Chill® Premier Inverter features a flexible design that includes:

- SimpleSill™ Design – Allows the window to be opened and closed after installation
- Three-step Installation – Simplifies the process with a one-piece frame, included hardware and expandable side panels that lock the unit in place



Smart Features

Designed with intelligent features that put the homeowner in control, the Chill® Premier Inverter includes industry-leading advantages like:

- Built-in Wi-Fi Control – Manage comfort from anywhere with the FriedrichGo™ App⁴
- Auto Air Sweep – Moves louvers up and down, extending the air flow for maximum circulation and cooling
- Intelligent Sleep Mode – Smart temperature auto adjustment



Rigid, Expandable Side Panels.



Smart Investment

Every unit maintains precise temperature control while providing homeowners peace of mind through:

- Money Saver® Mode – Runs fan only when cooling to save on bills
- Clean Filter Reminder – Allows homeowners to breathe easy with washable design and automatic reminder when it's time to clean the filter
- Corrosion Resistant Coils – Extend the life of the unit, especially in coastal and harsh environments

Models CCV15, CCV18, CCV24 can be installed in a wall or window.



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Model Information



WINDOW INSTALLATION ONLY
CCV08, CCV10, CCV12



WINDOW OR THROUGH-THE-WALL
INSTALLATION
CCV15, CCV18, CCV24

SPECIFICATIONS

Model	SKU	UPC	Cooling Btu	Volts Rated	Cooling Amps	Cooling Watts	CEER	Estimated Yearly Energy Cost	Moisture Removal-Pints/HR	Refrigerant	CFM	Wt. Net/Ship Lbs.
FIXED CHASSIS, COOL ONLY, WINDOW INSTALLATION ONLY												
★ CCV08A10A	B67-180	724587442316	8,000	115	8.3	740	15.0	\$60	2.1	R-32	194	56/60
★ CCV10A10A	B67-181	724587442328	10,000	115	8.3	950	15.0	\$75	3.2	R-32	253	58/61
★ CCV12A10A	B67-182	724587442335	12,000	115	10.5	1,180	15.0	\$90	3.7	R-32	265	58/62
SLIDEOUT CHASSIS, COOL ONLY, WINDOW OR THRU-WALL INSTALLATION												
★ CCV15A10A	B68-024	724587445749	15,000	115	13	1,600	14.4	\$110	3.8	R-32	447	85/99
★ CCV18A30A	B68-025	724587445756	18,000	208/230	8.9	2,000	14.4	\$160	5.5	R-32	447	88/103
★ CCV24A30A	B68-026	724587445763	24,000	208/230	14.0	2,990	12.7	\$200	6.97	R-32	458	93/107

★ ENERGY STAR® models

WINDOW OR THROUGH-THE-WALL

Model	Height Inches	Width Inches	Depth Inches	Depth From Front to Louvers	WINDOW INSTALLATION		THROUGH-THE-WALL INSTALLATION		Carton Dimensions Inches		
					Window Width Inches		Through-the-wall Finished Hole Inches		Height	Width	Depth
					Minimum	Maximum	Height	Width			
CCV08A10A, CCV10A10A, CCV12A10A	13 ³ / ₈	20 ⁵ / ₈	19 ¹ / ₄	—	21 ¹ / ₂	36	WINDOW INSTALLATION ONLY		14 ³ / ₄	24 ¹ / ₄	20 ¹ / ₂
CCV15A10A, CCV18A30A, CCV24A30A	17	25 ¹ / ₂	26 ³ / ₈	—	26 ¹ / ₄	41	18 ¹ / ₂	26	20	30	28 ³ / ₄

Minimum width achieved with both side panels in place and the side curtains removed.

CIRCUIT RATING/PLUG FACE/POWER CORD

Model	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA#)	Power Cord Length (ft.)	Wall Outlet Appearance
CCV08A10A, CCV10A10A, CCV12A10A, CCV15A10A	125V-15A	5-15P	5	
CCV18A30A	250V-15A	6-15P		
CCV24A30A	250V-20A	6-20P		

Power cord is located on front left side of Chill® Premier Inverter units.



These products meet a stringent set of our company's internally defined sustainability standards

¹Up to 35% energy savings based on variable-speed inverter compressor operation at 12 Hz extra-low frequency to maintain set point versus non-inverter fixed-speed.
²Dual DC fan motor reaches set point an average of 41% faster than a standard ac fan motor operating at the same speed. ³Sound levels are also dependent on proper installation of product. "WiFi broadband internet connection required; Download the FriedrichGo™ App from the App Store® or Google Play®; Receipt of notifications depend on home Wi-Fi set up; Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates. ⁵For complete details of the limited warranties, including applicable terms and conditions, contact your local dealer or go to Friedrich.com for a copy of the product warranty certificate.



Friedrich Air Conditioning Co. | Friedrich.com



SMART.
QUIET.
COOL.



CHILL® PREMIER
SERIES

Window and Through-the-Wall
Room Air Conditioners



Stay cool and connected with quiet comfort anytime, anywhere

HOME OR AWAY, YOU'RE IN CONTROL WITH
THE FRIEDRICHGO™ APP

Connect in minutes

It's easy with our simplified set up process

Easily set your home, away and night time preferences

Create a custom cooling and heating schedule that fits your lifestyle

You're in control anytime, anywhere

Power your unit on and off, change temperature, system mode, and adjust fan speeds no matter where you are

Why FriedrichGo™?

By maintaining even temperatures with centralized controls, you reduce wasted energy and lower utility and maintenance costs while extending the life of your equipment



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Google is a registered trademark of Google LLC.



QuietMaster® Technology

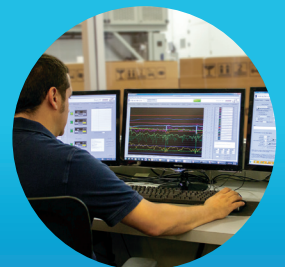
UP TO 25% QUIETER¹ THAN OTHER ROOM AIR CONDITIONERS

Building the quietest air conditioners begins with the design process and continues through the selection of superior components and materials.

It is shaped by skilled manufacturing and refined through on-going products testing in our engineering lab.

The result is a noticeably quieter cooling and heating experience, as much as 25% quieter than competitor's products.

¹Based on testing conducted at Friedrich's Design and Development Center in comparison to leading rotary compressor models.



Chill® Premier

Boldly crafted with the following outstanding features

Available in fixed/window only models (CCF - Cool only) and slide-out/window & through-the-wall models (CCW – Cool only, CEW – Cool & Electric heat)

Smart Control Features

- Built-in Wi-Fi control on the go with the FriedrichGo™ App
- Smart home / voice command device compatability (Amazon Alexa or Google Home)
- 24-hour timer
- Remote Control

QuietMaster® Technology



- Heavy duty insulation on inner wall for sound absorption
- Stiffened sheet metal casing to block external noise
- Wide air discharge vents optimize airflow and minimize front panel noise
- Counterweights dampen vibration and decrease sound

Reliable Construction

- Both the indoor and outdoor coils are corrosion protected for a longer life cycle

Comfort & Convenience

- 3 cooling and fan-only speeds, plus auto fan (CCF & CCW models)
- 3 cooling, heating, and fan-only speeds, plus auto fan (CEW models)
- Sleep setting
- Auto restart saves settings if power is interrupted
- 8-way air flow control
- Washable air filter

Earth Friendly

- Money Saver® saves money by mimizing system operation time
- R-32 refrigerant with low Global Warming Potential



Installation Features

- One-piece frame (fixed chassis) for simplified and fast installation in windows only (CCF models)
- Slide-out chassis for installation in window or through-the-wall (CCW & CEW models)
- Standard installation hardware included
- Expandable side curtains



**Need a Friedrich model that heats and cools?
Here are some things to consider.**

*Chill® Premier Cool with Electric Heat models utilize an electric heat strip that provides warm air quickly. They can be used for **primary heating in moderate climates** and as **supplemental heating in colder climates**. They are ideal for rooms that are always 'too cold in winter'.*

- This is a bullet for a sustainability feature.
- This is a bullet for a standard feature

Chill® Premier

Model Information

SPECIFICATIONS

Fixed Chassis (Window Installation)

Model	SKU	Cooling Btu	Volts Rated	Cooling Amps	Cooling Watts	EER	CEER	Estimated Yearly Energy Cost	Moisture Removal-Pints/HR	Refrigerant	CFM	Wt. Net/Ship Lbs.
FIXED CHASSIS, COOL ONLY (WINDOW INSTALLATION ONLY)												
CCF05B10C	B50-572	5,000	115	4.5	460	11.0	11.0	\$44	0.6	R-32	165	45/50
CCF06B10C	B50-573	6,000	115	6.0	550	11.0	11.0	\$54	0.9	R-32	135	46/51
CCF08B10C	B50-574	8,000	115	6.7	690	11.5	11.4	\$68	1.0	R-32	188	46/51
CCF10B10C	B50-575	10,000	115	9.5	870	11.5	11.4	\$85	1.2	R-32	218	50/55
CCF12B10C	B50-576	12,000	115	11.0	1,040	11.5	11.4	\$102	1.5	R-32	270	65/71
CCF14B10B	B50-761	14,000	115	12.0	1,230	11.4	11.3	\$105	TBD	R-32	306	72/78

Uses R-32 refrigerant with low Global Warming Potential.

Your energy costs will depend on your utility rates and use. The estimated energy cost is based on an electricity cost of \$.13 per kWh.

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

EER is the unit's Energy Efficiency Ratio; CEER is the unit's Combined Energy Efficiency Ratio.

Slide-out Chassis (Window & Through-the-Wall Installation)

Model	SKU	Cooling Btu	Heating Btu	Volts Rated	Cooling Amps	Cooling Watts	Heating Amps	Heating Watts	EER	CEER	Estimated Yearly Energy Cost	Moisture Removal-Pints/HR	Refrigerant	CFM	Wt. Net/Ship Lbs.
COOL ONLY															
CCW06B10C	B50-577	6,000	—	115	6.0	550	-	-	11.0	11.0	\$54	0.9	R-32	194	54/61
CCW08B10C	B50-577	8,000	—	115	8.0	730	-	-	10.9	10.9	\$72	1.0	R-32	194	55/62
CCW10B10B	B67-176	10,000	—	115	10	890	-	-	11.5	11.4	\$95	2.7	R-32	270	70/77
CCW12B10B	B67-177	12,000	—	115	12	1,065	-	-	11.5	11.4	\$107	3.6	R-32	259	77/85
CCW15B10B	B67-178	15,000	—	115	12.0	1,270	-	-	11.9	11.8	\$125	4.22	R-32	370	96/110
CCW18B30B	B67-179	18,000	—	230	8.8	1,580	-	-	11.4	11.3	\$149	5.7	R-32	382	105/119
CCW24B30B	B87-892	24,000	—	230	13.6	2,420	-	-	9.9	9.8	\$227	7.8	R-32	480	122/134
COOL WITH ELECTRIC HEAT															
CEW08B11B	B67-884	8,000	4,000	115	7.2	730	12.0	1,320	12.0	10.9	\$61	2.1	R-32	211	55/61
CEW12B33B	B68-027	12,000	11,000	230	6.0	1,090	16.0	3,500	16.0	10.9	\$96	3.6	R-32	270	78/86
CEW18B33B	B67-885	18,000	10,600	230	7.1	1,680	16.0	3,500	16.0	10.7	\$159	5.3	R-32	411	109/123
CEW24B33B	B68-028	24,000	10,600	230	12.5	2,445	16.0	3,500	16.0	9.4	\$222	7.8	R-32	480	125/137

Uses R-32 refrigerant with low Global Warming Potential.

Your energy costs will depend on your utility rates and use. The estimated energy cost is based on an electricity cost of \$.13 per kWh.

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

EER is the unit's Energy Efficiency Ratio; CEER is the unit's Combined Energy Efficiency Ratio.



WINDOW INSTALLATION ONLY

Model	Height Inches	Width Inches	Depth Inches	Depth From Front to Louvers	Window Width Inches		Carton Dimensions Inches		
					Minimum*	Maximum	Height	Width	Depth
CCF05B10C, CCF06B10C, CCF08B10C	13 3/8	18 5/8	15 5/8	—	23	36	14 1/2	21 1/2	17 3/4
CCF10B10C	13 3/8	18 5/8	17 3/8	—	23	36	14 1/2	21 1/2	18 1/2
CCF12B10C, CCF14B10B	15 1/8	19 3/4	21 1/2	—	26	36	17 1/2	21 7/8	23 3/4

All Chill® Premier CCF models are designed for window installation only.




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

WINDOW OR THROUGH-THE-WALL INSTALLATION

Model	Height Inches	Width Inches	Depth Inches	Depth From Front to Louvers	WINDOW INSTALLATION		THROUGH-THE-WALL INSTALLATION		Carton Dimensions Inches		
					Window Width Inches		Through-the-wall Finished Hole Inches		Height	Width	Depth
					Minimum*	Maximum	Height	Width			
CCW06B10C, CCW08B10C	13 1/2	18 1/2	19 3/4	6	23	36	14	19 1/4	15	21 1/2	22
CEW08B11B, CCW10B10B, CCW12B10B, CEW12B33B	15 1/8	19 3/4	24	9 1/2	26	36	16	20 1/4	17	22	26
CCW15B10B, CCW18B30B, CEW18B33B	17 7/8	23 5/8	25 3/8	8 1/5	28	41	19	24	19 3/8	25 5/8	29 5/8
CCW24B30B, CEW24B33B	18 3/4	26 3/8	26 7/8	10 3/5	30	41	20	27 1/4	19 1/2	29 1/4	31

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

CIRCUIT RATING/BREAKER/POWER CORD

Model	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA#)	Power Cord Length (ft.)	Wall Outlet Appearance
CCF05B10C, CCF06B10C	125V - 15A	5 - 15P	6.5	
CCF08B10C, CCF10B10C, CCF12B10C, CCF14B10B, CCW06B10C, CCW08B10C, CCW10B10B, CCW12B10B, CEW08B11B			6	
CCW15B10B	125V - 15A	5-15P	5.5	
CCW18B30B, CCW24B30B	250V - 20A	6-20P	5	
CEW12B33B, CEW18B33B, CEW24B33B			5	

Power cord is located on front left side of Chill® Premier units.

WiFi broadband internet connection required; Download the FriedrichGo™ App from the App Store® or Google Play®; Receipt of notifications depend on home Wi-Fi set up; Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

For complete details of the limited warranties, including applicable terms and conditions, contact your local dealer or go to Friedrich.com for a copy of the product warranty certificate.

COOLING SIZING GUIDE

Area to be conditioned in sq. ft.	Approximate Cooling Btu Required
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 - 1,500	24,000
1,500 - 2,000	30,000
2,000 - 2,500	34,000

Guide based on normal room insulation, average number of sun exposed windows and two person occupancy.

1. If heavily shaded, reduce cooling Btus required by 10%.
2. If very sunny, increase cooling Btus required by 10%
3. Add 500 Btus per person over 2 people
4. Add 4,000 Btus if the area is a kitchen



Friedrich Air Conditioning Co. | Friedrich.com



COMFORT

THAT FEELS **CUSTOM-MADE**



WallMaster®
THE PERFECT FIT™

COME HOME TO COMFORT THAT FEELS CUSTOM-MADE WITH FRIEDRICH®
WALLMASTER® THROUGH-THE-WALL AIR CONDITIONERS.

Not only does the WallMaster offer the only perfect fit for existing 27" sleeves, but it also has advanced and sustainability features—providing you precise comfort and significant energy cost savings.



FRIEDRICH
DELIVERING BOLDLY CRAFTED COMFORT

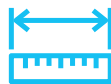
Advanced Features Work Harder So You Can Rest Easier

Enjoy the peace of mind of a perfectly comfortable home with the industry-leading technology and features of Friedrich® WallMaster® Through-the-wall Air Conditioners. Each AC unit is boldly crafted to meet your unique comfort needs while delivering energy cost savings.



Precise Comfort

The Friedrich-exclusive Precision Inverter® compressor ramps up to quickly reach your desired temperature then adjusts to stay there.



Perfect Fit

Replace old, inefficient 27" sleeve units with WallMaster—a perfect fit in Fedders A and B (requires a baffle kit). Plus, the unit mounts flush with the exterior wall for a seamless installation.



Built to Last

Enjoy peace of mind with a durable, commercial-grade design built to perform in the extreme conditions of industrial and commercial applications.



Smart Control

Adjust set point, schedule, control multiple units, and more—at home or remotely via the FriedrichLink® app.

Built-in Wi-Fi Connectivity

- Voice Command with Amazon Alexa and Google Home
- Seven-day programmable schedule with FriedrichLink app
- Keypad lockout prevents unwanted changes

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Google is a registered trademark of Google LLC.



FriedrichLink®



Precise, Energy-saving Performance

WallMaster® Through-the-wall Air Conditioners are built to reduce your environmental footprint—and energy bills—while providing precise and customizable comfort.

Saving Energy While Maximizing Comfort

Traditional room air conditioners have on/off compressors that result in wild temperature swings, inefficient energy use, and hard stops/starts that may shorten the life of the unit.

Friedrich's Precision Inverter® variable speed compressor adjusts up or down based on need, providing the user precise temperature control, exceptional energy efficiencies, and dependably quiet operation.

Additionally, the frequent on/off operation of traditional units puts strain on both the unit and the power grid during hot summers. Friedrich Soft-Start™ technology starts the compressor with significantly less strain at start up, saving energy.

All the Benefits of a Heat Pump—From Your AC

The WallMaster® WHV14B33A Air Conditioner also functions as a heat pump, heating effectively down to 45 degrees—eliminating the need for a second unit to provide warmth. In addition to all the great features you can expect from WallMaster ACs, heat pump-enabled units offer:

Increased Efficiency – Heat pumps move heat instead of generating it, making them up to 3X more efficient than space heaters and electric furnaces for reduced carbon emissions

Year-round Comfort – With through-the-wall installation, heat pump-enabled WallMaster units provide precise heating and cooling, season after season



**PRECISION
INVERTER®**

**Automatically adjusts
its performance based
on the room's need.**



Decreased Cost – Through-the-wall heat pumps cost less than traditional HVAC systems and are more cost-effective

ENERGY STAR® Certified – Most models have earned ENERGY STAR® certification, ensuring additional efficiency and savings



Crafted with Bold Features for Quiet, Lasting Comfort

Come home to unmatched comfort day after day with WallMaster's dependably quiet operation and lasting, commercial-grade design.



QuietMaster® Technology

Building the quietest air conditioners begins with the design process and continues with selecting superior components and materials.

Innovations like a vibration-isolating design and copper loops for better harmonics result in a noticeably quieter cooling and heating experience.



Scan to Watch Video:
**QUIETMASTER®
TECHNOLOGY**

Commercial-grade Components

- 1** Dense, sound-blocking insulation and 20-gauge steel inner walls
- 2** Inverter compressor mounted on large rubber grommets
- 3** Enclosed commercial-grade fan motor
- 4** Insulated air plenum prevents outside air and noise intrusion
- 5** Resilient rings on motor mount prevent metal-to-metal contact, eliminating extra vibration and noise
- 6** Rifled copper tubing with greater surface area for heat exchange increases coil efficiency and improves overall energy efficiency



NOTE: Prototype shown. Production model may vary.



Scan to Watch Video:
**WALLMASTER®
DURABILITY**

Unit Dimensions & General Data



Inverter Models

Model	SKU	Cooling Btu (Nominal)	Low Cooling Btu	HP Heating Btu	Electric Heating Btu (Backup)	Volts	Cooling Amps	Cooling Watts	Heating Amps	Heating Watts	Electric Heating kW	EER	CEER	ENERGY STAR®	Estimated Yearly Energy Cost	COP	Moisture Removal Pints/Hr	CFM	Net/Ship Wt. Lbs.
WALLMASTER® THROUGH-THE-WALL - COOL ONLY																			
★ WCVT10B10A	B50-670	11,000	5,000	—	—	115V	11.6	585	—	—	—	9.8	13	Y	\$59	—	3.4	275	90/95
★ WCVT10B30A	B50-671	11,100	5,000	—	—	230V	5.4	585	—	—	—	10.4	13	Y	\$59	—	3.4	275	90/95
★ WCVT12B10A	B50-672	13,500	6,000	—	—	115V	11.6	621	—	—	—	11.1	13.2	Y	\$68	—	4.6	300	110/115
★ WCVT12B30A	B50-673	13,600	6,000	—	—	230V	6.5	621	—	—	—	11.7	13.2	Y	\$68	—	4.6	300	110/115
★ WCVT16B30A	B50-674	16,800	8,000	—	—	230V	10.4	964	—	—	—	9.4	12.6	Y	\$96	—	6.2	350	110/115
WALLMASTER® THROUGH-THE-WALL - HEAT PUMP																			
WHVT14B33A	B50-683	15,200	7,000	10,900	10,700	230V	8.7	906	5	1,207	3.2	9	12	Y	\$90	2.4	5	350	115/120

★ ENERGY STAR® models

NOTE: WallMaster Heat Pump heating information indicates heat pump 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; Your energy costs will depend on your utility rates and use.

Cooling Sizing Guide

Area To Be Conditioned in Sq. Ft.	Recommended Friedrich Model	Volts
100-350	WCVT10B10A	115
	WCVT10B30A	230
300-550	WCVT12B10A	115
	WCVT12B30A	230
500-600	WHVT14B33A	230
550-700	WCVT16B30A	230

Guide based on normal room insulation, average number of sun exposed windows and two person occupancy.

1. If heavily shaded, reduce cooling Btus required by 10%
2. If very sunny, increase cooling Btus required by 10%
3. Add 500 Btus per person over 2 people
4. Add 4,000 Btus if the area is a kitchen



All units use R-32 refrigerant with low Global Warming Potential.




WallMaster® Installation Information

Through-the-wall Installation

									THROUGH-THE-WALL INSTALLATION					
								Minimum Extension Outside (Inches)	Finished Hole (Inches)			Carton Dimensions (Inches)		
	Height (Inches)	Width (Inches)	Depth (Inches)	Height of Front (Inches)	Width of Front (Inches)	Depth with Front (Inches)	Minimum Extension Into Room with Front (Inches)		Height	Width	Max. Depth	Height	Width	Depth
Chassis Dimensions	15 3/4"	26 1/2"	21"	17 1/4"	27 1/2"	23 1/4"	7 1/2"	—	—	—	—	19 3/8"	30 5/8"	27 1/2"
WSE Sleeve Dimensions	16 3/4"	25 15/16"	29"	—	—	24 1/4"	—	9/16"	17 1/4"	27 1/4"	15 5/16"	18"	27 1/4"	18"

NOTE: Chassis requires WSE sleeve (sold and shipped separately)

Electrical Requirements

Model	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA#)	Power Cord Length (ft.)	Wall Outlet Appearance
WCVT10B10A, WCVT12B10A	125V-15A	5-15P	6'	
WCVT10B30A, WCVT12B30A, WCVT16B30A	250V-15A	6-15P	6'	
WHVT14B33A	250V-20A	6-20P	6'	

NOTE: Power cords are located on the front left side of WallMaster units.



Remote control included

A perfect fit in Fedders A & B¹ 27" sleeves

Replace old, inefficient 27" sleeve units with WallMaster



Dimensions	Friedrich WSE Sleeve	Fedders A Sleeve	Fedders B Sleeve ¹
Height (inches)	16 3/4"	16 3/4"	16 3/4"
Width (inches)	27"	27"	27"
Depth (inches)	16 3/4"	16 3/4"	19 3/4"

¹Installation in Fedders B sleeve requires a baffle adapter Kit—BAK.

WallMaster® Optional Accessories

WSE Sleeve/Exterior Grilles



Standard Grille

Premium, expanded metal grille with powder coat paint. Ships with WSE sleeve.



Optional Architectural Grille - AG

Premium extruded aluminum grille.

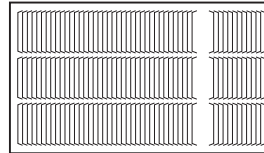
SKU: B98-803

IMPORTANT:

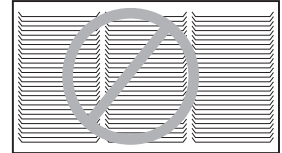
Operating the air conditioner with incorrect rear grille or without Baffle Adapter Kit (on 19 $\frac{3}{4}$ " deep sleeve) will recirculate discharge air and cause compressor overload to trip.

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

CORRECT: Vertical Louvers



INCORRECT: Horizontal Louvers



WSE Wall Sleeve

Ships with standard grille (shown above) and standard galvanized steel inner panel and painted steel outer panel.

SKU: B81-663



WSE & WSEZ sleeve



Steel inner panel



Outer weather panel

WSEZ Wall Sleeve

The WSEZ sleeve comes in 4 knock down side panels, that are easy to snap in place - no additional hardware required. Grille screws into place on sleeve (screws included). Sleeves ship collapsed with grille, weather barrier, and required screws.

Installation Accessories

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 $\frac{3}{4}$ " deep, such as Fedders B sleeve (19 $\frac{3}{4}$ " deep).



Friedrich® WallMaster®

Fast Features

Cooling & Heating Efficiencies:

COOLING: 10,000–16,000 Btu

HEATING: 10,000 Btu

Compressor Type: Inverter-driven, variable speed

ENERGY STAR® Certified: All inverter models

Refrigerant Type: R-32

Key Features

- Precision Inverter®
- QuietMaster® technology
- Built-in Wi-Fi
- Control with FriedrichLink® app or by voice command



Additional Standard Features:

- **Earth-friendly design** with R-32 refrigerant that meets the EPA's 2025 global warming potential limit, the ability to set high and low temperature limits, and recyclable packaging
- **Perfect fit in** Fedders A and B (requires a baffle kit), making it easy to replace old, inefficient 27" sleeves
- **Comfort and convenience** with three fan speeds, automatic fan, auto changeover between cooling and heating on heat pump models and auto restart

Limited Warranty:

- 2-year parts

WallMaster®

THE PERFECT FIT™



Standing Out as a Cut Above

Many Friedrich products have sustainability features, but the WCVT10B10A, WCVT10B30A, WCVT12B10A, WCVT12B30A, WCVT16B30A models have earned our Sustainability Standout® seal, indicating that they are among the best of the best. We created the seal to help you more easily find the products that save energy, save money, and save the planet.

Due to continuing research in new energy-saving technology, specifications are subject to change without notice. EER is the unit's Energy Efficiency Ratio; CEER is the unit's Combined Energy Efficiency Ratio. Your energy costs will depend on your utility rates and use. The estimated energy cost is based on a electricity cost of \$.13 per kWh.

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SMART.
QUIET.
COOL.



UNI-FIT® | Through-the-Wall
SERIES Room Air Conditioners



Stay cool and connected with quiet comfort anytime, anywhere

HOME OR AWAY, YOU'RE IN CONTROL WITH THE FRIEDRICHGO™ APP



Connect in minutes

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Create a custom cooling and heating schedule that fits your lifestyle

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Google is a registered trademark of Google LLC.



QuietMaster® Technology

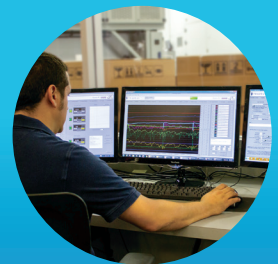
UP TO 25% QUIETER¹ THAN OTHER ROOM AIR CONDITIONERS

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It is shaped by skilled manufacturing and refined through on-going products testing in our engineering lab.

The result is a noticeably quieter cooling and heating experience, as much as 25% quieter than competitor's products.

¹Based on testing conducted at Friedrich's Design and Development Center in comparison to leading rotary compressor models.



Uni-Fit® Boldly crafted with the following outstanding features

Through-the-Wall models available in Cooling only (UCT) and Cooling with Electric Heat (UET)

Smart Control Features

- Built-in Wi-Fi control on the go with the FriedrichGo™ App
- Smart home / voice command device compatibility (Amazon Alexa or Google Home)
- 24-hour timer
- Remote Control



QuietMaster® Technology

- Heavy duty insulation on inner wall for sound absorption
- Stiffened sheet metal casing to block external noise
- Wide air discharge vents optimize airflow and minimize front panel noise
- Counterweights dampen vibration and decrease sound

Reliable Construction

- Both the indoor and outdoor coils are corrosion protected for a longer life cycle

Comfort & Convenience

- 3 cooling and fan-only speeds, plus auto fan (UCT models)
- 3 cooling/ 3 heating speeds, plus auto fan (UET models)
- Sleep setting
- Auto restart saves settings if power is interrupted
- 8-way air flow control
- Washable air filter

Earth Friendly

- Money Saver® mode saves energy by operating the fan only with the compressor to briefly circulate air
- R-32 refrigerant with low Global Warming Potential



Installation Features

- Chassis designed to fit multiple existing sleeves from 24 1/2" to 27"
- Universal fit decorative trim ring included



**Need a Friedrich model that heats and cools?
Here are some things to consider.**

*Uni-Fit® Electric Heat models utilize an electric heat strip that provides warm air quickly. They can be used for **primary heating in moderate climates** and as **supplemental heating in colder climates**. They are ideal for rooms that are always 'too cold in winter'.*

- This is a bullet for a sustainability feature
- This is a bullet for a standard feature





Uni-Fit® Through-The-Wall

Model Information

SPECIFICATIONS

Model	SKU	Cooling Btu	Heating Btu	Volts Rated	Cooling Amps	Cooling Watts	Heating Amps	Heating Watts	EER	CEER	Estimated Yearly Energy Cost	Moisture Removal Pints/Hr	Refrigerant	CFM	Wt Lbs Net/Ship
COOLING ONLY															
UCT08B10A	B67-183	8,000	—	115	8.5	780	—	—	10.2	10.1	\$69	1.69	R-32	252	60/72
UCT10B10A	B67-200	10,000	—	115	11.0	980	—	—	10.2	10.1	\$85	2.54	R-32	265	64/76
UCT10B30A	B67-210	10,000	—	230	5.5	980	—	—	10.2	10.1	\$85	2.54	R-32	282	63/ 76
UCT12B10A	B67-201	12,000	—	115	11.5	1,160	—	—	10.1	10.0	\$102	3.38	R-32	282	70/ 81
UCT12B30A	B67-202	12,000	—	230	6.5	1,160	—	—	10.1	10.0	\$102	3.38	R-32	276	72/ 84
UCT14B30A	B67-211	14,000	—	230	7.5	1,460	—	—	9.4	9.3	\$135	4.44	R-32	265	72/ 84
COOLING WITH ELECTRIC HEAT															
UET08B11A	B68-809	8,000	4,200	115	8.5	820	13	1,470	9.7	9.6	\$74	0.8	R-32	294	63/ 74
UET10B33A	B68-036	10,000	10,600	230	5.5	1,030	15	3,650	9.7	9.6	\$93	1.2	R-32	282	66/ 78
UET12B33A	B68-037	12,000	10,600	230	6.5	1,175	15	3,650	9.7	9.6	\$111	1.6	R-32	276	72/ 84
UET14B33A	B68-038	14,000	10,600	230	7.5	1,510	15	3,650	9.4	9.3	\$135	2.1	R-32	265	75/ 86

PLUG FACE / CIRCUIT RATING / POWER CORD

Model	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA#)	Power Cord Length (ft.)	Wall Outlet Appearance
UCT08B10A, UCT10B10A, UCT12B10A	125V - 15A	5 - 15P	6	
UCT10B30A, UCT12B30A, UCT14B30A	250V - 15A	6 - 15P	6	
UET08B11A	125V - 15A	5 - 15P	4.75	
UET10B33A, UET12B33A, UET14B33A	250V - 20A	6 - 20P	4.75	

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

Uses R-32 refrigerant with low Global Warming Potential

Your energy costs will depend on your utility rates and use. The estimated energy cost is based on an electricity cost of \$.13 per kWh.

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

EER is the unit's Energy Efficiency Ratio; CEER is the unit's Combined Energy Efficiency Ratio

COOLING SIZING GUIDE

AREA TO BE CONDITIONED IN SQ. FT.	APPROXIMATE COOLING BTU REQUIRED
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 - 1,500	24,000
1,500 - 2,000	30,000
2,000 - 2,500	34,000

Guide based on normal room insulation, average number of sun exposed windows and two person occupancy.

1. If heavily shaded, reduce cooling Btus required by 10%
2. If very sunny, increase cooling Btus required by 10%
3. Add 500 Btus per person over 2 people
4. Add 4,000 Btus if the area is a kitchen



Universal fit for easy replacement in existing 24 1/2", 26" or 27" sleeves

If your current wall sleeve is in good condition you may be able to keep it. Uni-Fit® can be installed directly into many competitor's existing wall sleeves. The included decorative trim ring (shown in the photo below) will cover any gap between the chassis and wall sleeve.

Sleeve Dimensions	USC/USCEZ	Amana	Carrier [51S Series]	Fedders/ Emerson/ Friedrich WSE	Emerson/ Fedders	GE/ Hotpoint	Whirlpool	White-Westinghouse/ 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"

NOTE: Chassis requires USC/USCEZ sleeve for new installations (sold and shipped separately).

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 should be used.



IMPORTANT

1" gap on sides and 1/2" gap at top allows installation into varying sleeve sizes.

The gap can be covered by the **decorative trim ring** that fits over the chassis front. Trim ring comes standard with chassis.



IMPORTANT

CHASSIS EXTENSION INTO THE ROOM

A

UCT and UET chassis with front fully installed into USC/USCEZ sleeve extends into the room as shown at right



CHASSIS & SLEEVE DIMENSIONS

Model	Height	Width	Depth	Depth with Front	Minimum Extension Into Room	Minimum Extension Outside	Through-the-Wall Finished Hole		
							Height	Width	Max. Depth
Uni-Fit® Chassis	14 1/2"	24 1/4"	-	20 5/16"	3 3/4"	-	-	-	-
USC/USCEZ Sleeve	15 1/2"	25 7/8"	16 3/4"	20 1/2"	-	1/2"	15 3/4"	26 1/8"	16 1/4"

CARTON DIMENSIONS

Model	Carton Dimensions Inches		
	Height	Width	Depth
Uni-Fit® Chassis	16 3/8"	27 3/4"	26 5/8"
USC/USCEZ Sleeve	17 7/8"	28"	19 1/4"

Uni-Fit® Accessories

USC & USCEZ SLEEVE (SOLD SEPARATELY)

SKU: B82-541 (USC)

An existing or new sleeve is required for installation. The Friedrich USC and USCEZ sleeves ship with the accessories needed for installation in new construction, or installation into an existing hole in the wall.

The USCEZ sleeve comes in 4 knock down side panels, that are easy to snap in place - no additional hardware required. Grille screws into place on sleeve (screws included). Sleeves ship collapsed with grille, weather barrier, and required screws.

USC & USCEZ wall sleeve ships with weather panels (2) and grille. Sleeve is shown at right with:

1. Painted steel inner weather panel
2. Painted steel outer weather panel



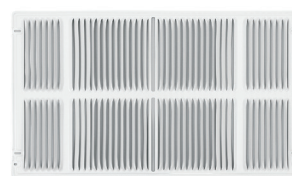
USC & USCEZ sleeve



Inner weather panel



Outer weather panel



Standard grille
(come standard with Uni-Fit®)

OPTIONAL GRILLE (SOLD SEPARATELY)

ARCHITECTURAL GRILLE-UXAA/UXSC

Optional extruded brushed aluminum grille.



UXAA, optional architectural grille

IMPORTANT

When installing into 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.

Wi-Fi broadband internet connection required; Download the FriedrichGo™ App from the App Store® or Google Play®; Receipt of notifications depend on home Wi-Fi set up; Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

For complete details of the limited warranties, including applicable terms and conditions, contact your local dealer or go to Friedrich.com for a copy of the product warranty certificate.



Friedrich Air Conditioning Co. | Friedrich.com



CONVENIENT COMFORT

SMART COOLING ON THE GO



ZONEAIRE® | Dual- and Single-Hose
SERIES | Portable Air Conditioners



ZoneAire® Single-Hose & Dual-Hose

Compact & convenient cooling that goes where you go

Comfort & Convenience

- 3-in-1 System: Air conditioner, dehumidifier and fan
- Auto-swing louvers for even air distribution
- Easy-access, washable filters
- 3-speed fan with auto setting
- Auto restarts after power outage
- LCD remote control
- Energy-saving sleep setting
- R-32 refrigerant with low Global Warming Potential

Smart Control Features

- Control on the go with the FriedrichGo™ app
- Smart home ready (Amazon Alexa and Google Home)

Installation features

- Snap-in hoses for quick set up
- Easy-roll casters
- Window kit fits vertical and horizontal standard windows up to 50 inches
- Window kit extension to allow installation in sliding patio doors up to 50 inches
- Includes gravity drain hose for continuous drainage option during dehumidification mode
- Small footprint - only 16 ½" wide
- 5 ft. long power cord



ZCP08SA, ZCP10SA, ZCP12SA

Comfort & Convenience

- 3-in-1 System: Air conditioner, dehumidifier and fan
- 4-in-1 System: Air conditioner, heater (heat pump), dehumidifier and fan (ZHP14DB)
- Auto swing air louvers for even air distribution
- Self-evaporative condensate system - no bucket to empty
- Auto shutoff if tank becomes full
- LCD remote control
- 3-speed fan
- Easy-access, washable filters
- Auto restart after power outage
- Built-in drain pump to remove condensate in heat pump mode (ZHP14DB)
- Removes up to 72 pts./day when used as a dehumidifier
- R-32 refrigerant with low Global Warming Potential

Smart Control Features

- Control on the go with the FriedrichGo™ app
- Smart home ready (Amazon Alexa and Google Home)

Installation features

- Snap-in hoses for quick set up
- Easy-roll casters
- Small footprint - only 17" wide
- 6 ft. long power cord



ZCP12DB, ZHP14DB

- This is a bullet for a sustainability feature
- This is a bullet for a standard feature


ZoneAire® Portables

Model Information

SPECIFICATIONS

Model		SINGLE HOSE						DUAL HOSE			
		ZCP08SA		ZCP10SA		ZCP12SA		ZCP12DB		ZHP14DB	
SKU		B64-291		B64-292		B64-293		B64-294		B64-295	
		SACC	ASHRAE 128	SACC	ASHRAE 128	SACC	ASHRAE 128	SACC	ASHRAE 128	SACC	ASHRAE 128
Cooling	BTUh	5350	8500	6250	10000	8000	12000	7500	11000	8300	12000
Heating	BTUh	—		—		—		—		9500	9500
Volts Rated		115v		115v		115v		115v		115v	
Cooling	Amps	6.6		7.9		9.2		10.5		10.5	
Cooling	Watts	760		890		1060		1160		1160	
Cooling	EER	2.8		2.99		2.8		9.6		10.6	
Cooling	CEER	6.3		6.6		7.2		7.1		7.4	
Heating	COP	—		—		—		—		9.3	
Refrigerant		R-32		R-32		R-32		R-32		R-32	
Moisture Removal	Pts./Hr.	1		1.25		1.6		3.5		3.8	
Air Circulation	CFM	188/171/153		188/171/153		206/195/165		244/175/113		223/188/155	
Model Dim W x H x D		16 1/2 x 27 5/8 x 12 5/8				17 1/8 x 28 1/3 x 14 1/4		17 1/8 x 28 3/8 x 14 1/4			
Net Wt	Lbs.	52.9		53.9		61.2		72		88	
Ship Wt	Lbs.	60.4		61.5		70.1		78		89	
Coverage	Sq. Ft.	Up to 150		Up to 250		Up to 350		Up to 270		Up to 320	
Carton W x H x D		19 x 35 x 14 1/8				19 x 35 x 14 1/8		19 x 35 x 17			
Hose Length		5 ft.		5 ft.		5 ft.		5 ft.		5 ft.	
Hose Diameter		6 in.		6 in.		6 in.		6 in.		6 in.	
Cord Length		5 ft.		5 ft.		5 ft.		6 ft.		6 ft.	

CIRCUIT RATING / BREAKER / PLUG FACE

Model	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA#)	Wall Outlet Appearance
ZCP08SA, ZCP10SA, ZCP12SA	125V - 15A	5 - 15P	
ZCP12DB, ZHP14DB			

BTU calculations for ASHRAE 128 and SACC capacities are based on different test procedures where the BTU ratings are calculated differently. While the BTU's may be lower on the SACC rating, the actual cooling capacity of the air conditioners are the same.

NOTE: Air conditioners will provide cooling at outdoor temperatures down to 41 F and ZHP14DB heat pump will provide heating at outdoor temperatures down to 14 F with single hose installation. *SACC is the Seasonally Adjusted Cooling Capacity measured in BTU/Hr. The Department of Energy requires portable air conditioners to be tested in accordance with title 10 Code of Federal Regulations (CFR) 430, subpart B, appendix CC and applicable sampling plans. *ASHRAE 128 was the federal testing requirement for manufactures prior to 2017. Due to continuing research in new energy-saving technology, specifications are subject to change without notice.

Uses R-32 refrigerant with low Global Warming Potential
Your energy costs will depend on your utility rates and use.
For more information, visit www.ftc.gov/energy.

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



ZoneAire® Premier Inverter Dual-Hose

Smart, fast, efficient cooling and heating for larger spaces

Comfort & Convenience

- DUAL-HOSE DESIGN: Up to 40% faster cooling
- 4-IN-1 SYSTEM: Air conditioner, heater (heat pump), dehumidifier and fan
- Precision Inverter (ZHV16DA) for precise, efficient comfort control
- 3-speed fan (High-Med-Low) with auto setting
- Auto restart after power outage
- Powerful Dehumidification - removes up to 91 pts./day in dehumidifier mode
 - Includes gravity drain hose for continuous drainage option during dehumidification mode
 - Condensate overflow protection- the unit will automatically shut off if tank should become full

DUAL-HOSE DESIGN:
Dedicated intake & exhaust hoses balance air circulation, expelling hot air outdoors, and keeping cooled, conditioned air inside resulting in up to 40% faster cooling.



Friedrich's Precision Inverter® variable speed technology delivers precise temperature control with up to 40% higher efficiencies than standard single speed**

Smart Control Features

- Built-in Wi-Fi control on the go with the ComfortPro App
- Smart home /voice command device compatibility (Amazon Alexa or Google Home)
- 24-hour timer
- LCD remote control
- Smart touch display



Earth Friendly

- EcoMode® setting saves money by operating the fan when the temperature is automatically set to 78°
- Temperature auto adjusts with intelligent Sleep Mode
- R-32 refrigerant with low Global Warming Potential



Installation Features

- Quick installation - Snap-in hoses and 115v operation mean quick start-up and cooling
- Easy-roll casters for portability
- All installation accessories included
- Window kit fits vertical and horizontal standard windows and some casement windows
- 5.9 ft. long power cord



Control panel



LCD Remote control



Window kit

ZONEAIRE® PREMIER & ZONEAIRE® PREMIER INVERTER

AVAILABLE FOR SPACES UP TO 800 SQ. FT.*



ZHP14DC, ZHV16DA

** Dual hose with inverter reaches up to 40% higher efficiencies based on variable-speed inverter compressor operation to maintain set point versus non-inverter fixed-speed operating at the same speed.

*Coverage Sq. Ft. is based on ASHRAE 128 BTU/h ratings.

- This is a bullet for a sustainability feature
- This is a bullet for a standard feature

ZoneAire® Single-Hose Portables

Compact & convenient cooling that goes where you go

Comfort & Convenience

- SINGLE-HOSE DESIGN: Fast setup and easy storage
- 3-IN-1 SYSTEM: Air conditioner, dehumidifier and fan
- 2-speed fan (High-Low) or 3-speed fan (High-Med-Low) with auto setting (ZCP12SB only)
- Auto swing air louvers for even air distribution (ZCP12SB only)
- Auto restart after power outage
- Powerful Dehumidification - removes up to 65 pts./day in dehumidifier mode
 - Includes gravity drain hose for continuous drainage option during dehumidification mode
 - Condensate overflow protection- the unit will automatically shut off if tank should become full
- Limited Warranty - 1 year



ZCP12SB

ZONEAIRE® SELECT

AVAILABLE FOR SPACES
550 SQ. FT.*

Smart Control Features

- Built-in Wi-Fi control on the go with the ComfortPro App
- Smart home/voice command device compatibility (Amazon Alexa or Google Home)
- 24-hour timer
- LCD remote control
- Smart touch display



ZCP08SB, ZCP10SB

ZONEAIRE® COMPACT

AVAILABLE FOR SPACES
UP TO 450 SQ. FT.*

Earth Friendly

- EcoMode® setting saves money by operating the fan when the temperature is automatically set to 78° (ZCP12SB only)
- Temperature auto adjusts with intelligent Sleep Mode
- R-32 refrigerant with low Global Warming Potential



Installation Features

- Quick installation - Slide-in hoses and 115v operation mean quick start-up and cooling
- Easy-roll casters for portability
- All installation accessories included
- Window kit fits vertical and horizontal standard windows and some casement windows
- 5.9 ft. long power cord



Control panel



LCD Remote control



Window kit

*Coverage Sq. Ft. is based on ASHRAE 128 BTU/h ratings.

- This is a bullet for a sustainability feature
- This is a bullet for a standard feature


ZoneAire® Portables

Model Information

SPECIFICATIONS

Model		SINGLE HOSE						DUAL HOSE			
		ZoneAire® Compact				ZoneAire® Select		ZoneAire® Premier		ZoneAire® Premier Inverter	
		ZCP08SB		ZCP10SB		ZCP12SB		ZHP14DC		ZHV16DA	
SKU		B50-684		B50-685		B50-686		B50-687		B50-762	
		SACC	ASHRAE 128	SACC	ASHRAE 128	SACC	ASHRAE 128	SACC	ASHRAE 128	SACC	ASHRAE 128
Cooling	BTUh	5,000	8,000	6,000	9,500	8,000	12,000	10,000	14,000	12,000	14,800
Heating	BTUh	—		—		—		9,000	9,000	9,000	9,000
Volts Rated		115V		115V		115V		115V		115V	
Cooling	Amps	7.0		7.8		9.4		12.0		13	
Cooling	Watts	780		870		1,030		1,360		1,500	
Cooling	CEER	6.10		6.50		7.20		7.80		8.40	
Heating	COP	—		—		—		TBD		TBD	
Refrigerant		R-32		R-32		R-32		R-32		R-32	
Moisture Removal	Pts./Day	40		60		65		81		91	
Air Circulation	H/M/L	206/176		194/165		210/188/165		235/210/188		264/247/217	
Model Dim W x H x D		11.22" X 13.19" X 27.48"				33.3" X 15.00" X 18.23"					
Net/Ship Weight	Lbs.	40.7/49.28		41.8/50.6		58.86/80.68		69/84.87		60/75.8	
Coverage	Sq. Ft.	Up to 350		Up to 450		Up to 550		Up to 700		Up to 800	
Carton W x H x D		34.96" X 14.49" X 16.53				35.12 X 20.28 X 17					
Hose/Cord Length		6/5.9		6/5.9		6/5.9		6/5.9		6/5.9	
Hose Diameter		6		6		6		6		6	
Noise Level	dB	53		53		53		53		53	
Window Kit Length	in.	47.24		47.24		47.24		47.24		47.24	
Limited Warranty		1 year						1 year			

CIRCUIT RATING / BREAKER / PLUG FACE

Model	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA#)	Wall Outlet Appearance
ZCP08SB, ZCP10SB, ZCP12SB ZHP14DC, ZHV16DA	125V - 15A	5 - 15P	

NOTE: *SACC is the Seasonally Adjusted Cooling Capacity measured in BTU/Hr. The Department of Energy requires portable air conditioners to be tested in accordance with title 10 Code of Federal Regulations (CFR) 430, subpart B, appendix CC and applicable sampling plans. *ASHRAE 128 was the federal testing requirement for manufactures prior to 2017.

Due to continuing research in new energy-saving technology, specifications are subject to change without notice. EER is the unit's Energy Efficiency Ratio; CEER is the unit's Combined Energy Efficiency Ratio. Your energy costs will depend on your utility rates and use. The estimated energy cost is based on a electricity cost of \$.13 per kWh. For more information, visit [FTC.Gov/Energy](https://www.ftc.gov/energy). Coverage Sq. Ft. is based on ASHRAE 128 BTUh ratings.

BTU calculations for ASHRAE 128 and SACC capacities are based on different test procedures where the BTU ratings are calculated differently. While the BTU's may be lower on the SACC rating, the actual cooling capacity of the air conditioners are the same.

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FRIEDRICH

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YEAR-ROUND COMFORT



DEHUMIDIFIERS

**35 and 50 Pint Capacities with
Built-in Drain Pump**



FRIEDRICH
DELIVERING BOLDLY CRAFTED COMFORT



Dehumidifiers

Eliminate excess humidity and moisture that can damage furnishings, and can even affect your health

Comfort & Convenience

- Built-in Drain Pump actively pumps the collected water to a designated drainage point
- Top-mount digital touch controls display room temperature and relative humidity level
- Set humidity level from 30% to 90% RH
- Low temperature operation to 41°F
- Removable condensate bucket with handle
- Washable, slide-out filter
- 24 hr. ON/OFF timer (timer must be set for each use-no memory)
- 2-speed fan
- Automatic defrost cycle
- Auto-restart
- Built-in casters for easy mobility
- 6 ft. power cord

Energy Efficiency

- R-32 refrigerant with low Global Warming Potential
- Fan cycles off with the compressor
- ENERGY STAR® certified and uses sustainable R-32 refrigerant to help protect our planet



Sleek, Clean Modern Design

- Non-louvered front panel has a clean, stylish appearance that doesn't accumulate unsightly dust, pet hair and other household debris.



CONVENIENCE FEATURES FOR CAREFREE OPERATION

THREE WAYS TO DRAIN CONDENSATE:



Built-in drain pump



Slide out condensate bucket
*16.2 Pints Capacity



Continuous drain option
*Hose not included

Dehumidifiers

Model Information

SPECIFICATIONS

Model Number	D35B1B	D50B1B
SKU	B67-212	B67-213
Dehumidification Capacity ¹ (Pints/24 hrs)	35	50
ENERGY STAR®	YES	YES
Easy Roll Casters	Yes-built in	Yes-built in
Built-in Drain Pump	Yes	Yes
Drain Pump Hose (Length ft)	16' 9"	16' 9"
Control	Digital	Digital
Power	115V/60HZ	115V/60HZ
Current (Amps)	5.3	7.6
Watts	370	540
Energy Factor (EF), L/kWh ²	2.0	2.0
Indoor Sound Power (dB)	48	54
Compressor Type	Rotary	Rotary
Refrigerant Type / Charge Amount (Oz)	R-32 / 8.8 Oz	R-32 / 10.9 Oz
Operating Temperature Range	41°F– 90°F	41°F– 90°F
Bucket Capacity (Pints)	16.25 approximate	16.25 approximate
Dimensions (WxHxD)	15" x 23 1/4" x 12"	
Net/Shipping Weight	40.78/44.75	43.65/47.62
Carton Dimensions (WxHxD)	16 1/2" x 25" x 14"	
Limited Warranty	1 year	1 year

DEHUMIDIFIER SIZING GUIDE

Dehumidifier capacity is usually measured in pints per 24 hours and is determined by two factors:


1. The size of the space that needs to be dehumidified.
2. The conditions that exist in the space before dehumidification. Use the chart to estimate the capacity you need.

Room Conditions	SMALL TO MID-SIZE SPACE 100 - 1,000 sq. ft.	MID-SIZE TO LARGE SPACE 1,000 - 2,000 sq. ft.
DAMP Area feels damp and has a musty odor only in humid weather	D35 (35 pint)	
VERY DAMP Area always feels damp & has a musty odor & may exhibit damp spots on walls & floors	D35 (35 pint)	
WET Area always feels and smells wet and the walls & floors sweat or seepage is present	D35 (35 pint)	D50 (50 pint)
EXTREMELY WET Area has wet floors or exhibits standing water	D35 (35 pint)	D50 (50 pint)

Uses R-32 refrigerant with low Global Warming Potential. Your energy costs will depend on your utility rates and use. For more information, visit www.ftc.gov/energy.

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

POWER CORD/PLUG TYPE

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.

¹The rating is expressed in pints per 24 hour period.

²Energy 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.

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 labor.

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



Friedrich Air Conditioning Co. | Friedrich.com

EFFICIENT & FLEXIBLE **COMFORT** FOR EVERY ROOM



Floating Air

VERSATILE, SUPER-EFFICIENT
& ULTRA-QUIET

FRIEDRICH® FLOATING AIR™ DUCTLESS MINI-SPLIT SYSTEMS

Customized comfort has never been more convenient. Designed to match your unique heating and cooling needs, Friedrich Floating Air Ductless Mini-split Systems are available in single- and multi-zone options. Plus, every unit offers high energy efficiencies and quiet operation, delivering peace of mind season after season.



FRIEDRICH

DELIVERING BOLDLY CRAFTED COMFORT

Why Choose Friedrich® Floating Air™ Ductless Mini-split Systems

Designed to excel in both residential applications and light commercial applications, Friedrich Floating Air mini-split systems can efficiently heat one room, multiple rooms or whole homes. With ductless systems you experience:



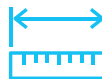
Zero Duct Loss

According to the DOE, ducted systems lose an average of 25–40% in performance due to leaks, cracks, or disconnections in ductwork. No ductwork means that ductless systems do not experience duct loss, saving energy and money.



No Dirty Ducts

With a ductless system, there's no need to clean dirty air ducts that can harbor dust, germs, and allergens.



Total Installation Flexibility

With Friedrich Floating Air systems, you can mix and match your outdoor unit with various indoor unit types: wall-mounted, ceiling cassettes, Insider® concealed ducted models and even a ducted air handler.



Heating & Cooling Flexibility

Friedrich Floating Air units are available in single-zone or multi-zone systems, making it easy to find the heating and cooling solution to best fit your needs.



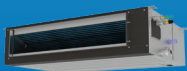
Wall-mounted Units

Mount to the wall and include time-saving features to make installation and service faster and easier, ultimately saving you money.



Ceiling Cassette Units

Install in a drop-ceiling and mount flush to the ceiling for a clean look and efficient installation.



The Insider® Concealed Ducted Units

Install in the ceiling or furr down, providing hidden-from-sight comfort. In multi-zone systems, conditioned or non-conditioned air can be added to the ducting to allow fresh air into the conditioned space as desired.

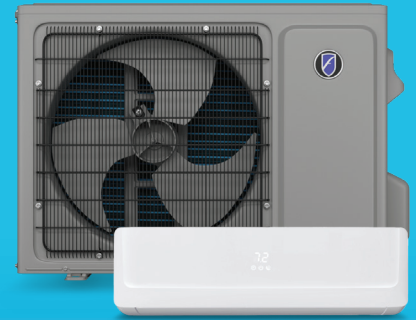


Air Handler

In applications where ductwork makes the most sense, such as replacing an existing system, the **air handler option delivers the best of both worlds**—the convenience of whole-home comfort with the small space and low sound of a side-discharge outdoor unit. In multi-zone configurations, air handlers can be combined with other indoor unit type(s) for additional flexibility.

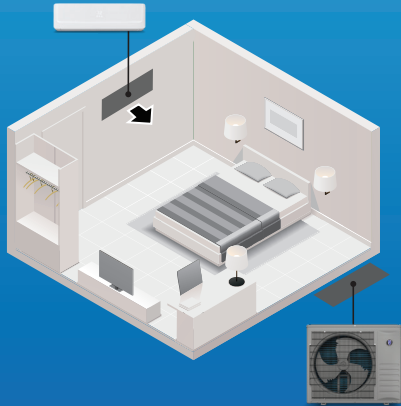
Comfort Customized to Your Needs

Comfort shouldn't be complicated. No matter what you're looking for, Friedrich® Floating Air™ systems—both single-zone and multi-zone—are packed with industry-leading advancements to meet your unique temperature needs while delivering high efficiencies and energy cost savings.



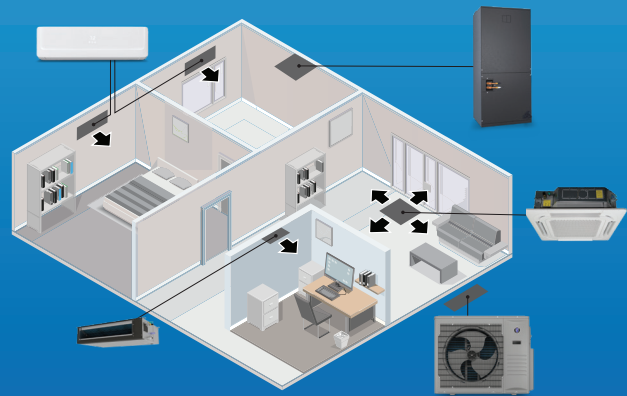
Single-zone Systems

A single-zone system is best if you are looking to efficiently cool and heat a single room or space. Single-zone systems are a great alternative to traditional central HVAC systems.



Multi-zone Systems

A multi-zone system is best if you're looking for customized and efficient comfort for multiple rooms. Multi-zone systems allow you to set room-by-room temperature preferences for up to five rooms. Plus, occupants can set the temperature of each zone to their preferred comfort level¹ or turn off units in unoccupied rooms without impacting other zones.



¹Multi-zone units cannot heat and cool simultaneously.



Easy Service & Maintenance

Designed with HVAC technicians in mind, wall-mounted units feature FastPro®—which allows quick removal of the blower wheel assembly for easy maintenance, saving significant time on the job.



Scan to Watch Video:
FASTPRO®



Precision Comfort

Floating Air units feature a Precision Inverter® compressor that ramps up quickly with Soft-Start™ technology to reach the indoor set temperature, then maintains precise temperature control for perfect comfort—and ongoing savings.



Built to Perform & Built to Last

All systems are designed to heat and cool efficiently—and certain systems can operate efficiently in extreme temperatures, with cooling in ambient temperatures as low as 5°F and heating down to -22°F. Plus, many models feature Diamonblue™ Advanced Corrosion Protection, extending the unit's life.



Smart Control

Adjust the set point, schedule, control multiple units in unison, and more, at home with the included wireless remote or on the go with the convenience of the ComfortPro mobile app.

Precise Performance & Bold Features

Floating Air™ mini-split systems are engineered to deliver precise comfort and are packed with advanced features to help keep your environmental footprint and energy bills low.

Saving Energy While Maximizing Comfort

Traditional air conditioners have on/off compressors that result in wild temperature swings, inefficient energy use, and hard stops/starts that may shorten the life of the unit.

Friedrich's **Precision Inverter**® variable speed compressor adjusts up or down based on need, providing the user precise temperature control, exceptional energy efficiencies, and dependably quiet operation.



**PRECISION
INVERTER**®

**Automatically adjusts
its performance based
on the room's need.**

At Home in the Extreme Cold

We designed Floating Air Pro X models to work all the way down to -22°F. So they're ready for whatever winter can dish out nearly everywhere. In fact, all Pro X models are ENERGY STAR® Cold Climate Heat Pump certified.



Sustainable Operation

All Floating Air models utilize low-GWP refrigerant, with Select utilizing R-32 with a GWP of 675 and Pro and Pro X utilizing R-454B with a GWP of 466. Plus, many models are ENERGY STAR® certified, providing even greater energy savings.

Built-in Wi-Fi Connectivity

- Available on all wall-mounted and ceiling cassette models
- Easy-to-use ComfortPro mobile app
- Create customizable, seven-day schedule
- Control with smartphone or wireless remote
- Voice Command with Amazon Alexa and Google Home

ComfortPRO
MOBILE APP



Easy-to-clean Design for Fast Servicing & More Savings

Save Time With **FastPro**[®] Easy-service Design

All wall-mounted units¹ feature alignment arrows to help contractors mark and drill holes with total confidence while kickstands tilt the unit away from the wall, providing ample workspace. Floating Air units also feature:

Modular Drain Pan Assembly

Easy to remove for cleaning

Quick Access

Tangential blower and motor for easier repairs

Clear Piping Access

Simplifies maintenance tasks

Wire Terminal Blocks

Easy to access for servicing

Onboard Error Codes

Ensure trouble-free operation

Complete Coil Access

For easy cleaning



40% FASTER¹
TO INSTALL



50% FASTER¹
TO SERVICE



45% FASTER¹
TO CLEAN

¹ Excludes FAHSW36A3D. ² Faster than similar installation, cleaning, and service performed on standard ductless wall-mounted units.

Simplified Troubleshooting

Diagnostics are faster, easier, and more accurate with the built-in troubleshooting tool on Friedrich multi-zone outdoor units, helping the contractor to save even more time.



Scan to Watch Video:
**BUILT-IN
TROUBLESHOOTING**



We Thought of Everything... & Then Some

We evaluate every detail of a product from top to bottom, inside and out and every angle in between. That's 360°+1. And that's why you can count on these ductless mini-split systems to bring you and your family years of efficient and dependable comfort.

FIND THE LINE THAT BEST SUITS YOUR NEEDS

Friedrich offers three exceptional lines of ductless mini-splits, each with unique features for simple installation, resulting in savings and easier maintenance visits. All models feature built-in Wi-Fi, auto restart, surge cool/heat, dry mode, auto clean, and advanced corrosion protection.

GOOD | BETTER | BEST

Floating Air™ Pro X Series (Single- and Multi-zone)

The ultimate series with extreme operating ranges, extreme heat pump performance, high efficiencies, and available with three indoor installation options for both single- and multi-zone.

- Available in Wall-Mounted, Ceiling Cassette, The Insider® Concealed Ducted, and as an Air Handler; Single-zone 9K–24K BTU, Multi-zone Outdoor Unit Capacities 18K–42K BTU
- Extreme cold climate heat pump performance: 100% of rated capacity at 5°F¹
- Extreme low ambient heat pump operation down to -22°F in Single-zone, and -13°F in Multi-zone
- All models ENERGY STAR® and ENERGY STAR® Cold Climate Heat Pump certified



GOOD | BETTER | BEST

Floating Air™ Pro Series

This line delivers all the features of Floating Air Select Series models plus higher efficiencies and extended operating capacities.

- Available in Single-zone, Wall-Mounted only, 9K–24K BTU
- Efficiencies up to 25 SEER2
- All models ENERGY STAR® and ENERGY STAR® Cold Climate Heat Pump certified



GOOD | BETTER | BEST

Floating Air™ Select Series

This line is ideal if you're looking to heat and cool a single room and in the market for an affordable and efficient comfort solution.


- Available in Single-zone, Wall-Mounted only, 9K–36K BTU
- ENERGY STAR® certified models available²



¹Pro X Series Multi-zone 42K BTU models operate at 86% capacity at 5°F.

²Applies to FSHW091C and FSHW183D model sets.

See the below comparison chart to help you choose among Floating Air Pro X, Pro and Select systems:



ZONES	SYSTEM TYPE								
	WALL-MOUNTED				CEILING CASSETTE		CONCEALED DUCTED		AIR HANDLER
	SINGLE-ZONE			MULTI-ZONE	SINGLE-ZONE	MULTI-ZONE	SINGLE-ZONE	MULTI-ZONE	MULTI-ZONE
Floating Air™ Series	Select	Pro	Pro X	Pro X	Pro X	Pro X	Pro X The Insider®	Pro X The Insider®	Pro X
FastPro® Design	✓*	✓	✓	✓	—	—	—	—	—
Built-in Wi-Fi Models, ComfortPro Mobile App	✓	✓	✓	✓	✓	✓	—	—	—
Available Voltage	115V, 230/208V	115V, 230/208V	230/208V	230/208V	230/208V	230/208V	230/208V	230/208V	230/208V
SEER2 (Up To)	21.0	25.0	22.0	23.0	20.0	23.0	19.5	19.0	19.0
HSPF2 (Up To)	9.8	11.0	10.5	10.0	10.5	10.0	9.5	9.4	9.4
Low Ambient Cooling Operation	5°F	5°F	5°F	5°F	5°F	5°F	5°F	5°F	5°F
Low Ambient Heating Operation	-5°F	-13°F	-22°F	-13°F	-22°F	-13°F	-22°F	-13°F	-13°F
Diamonblue™ Advanced Corrosion Protection	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wall Controller Option with 7-day programmability	✓	✓	✓	✓	✓	✓	Included	Included	Compatible with most 24V thermostats
Wireless Remote Control	Included	Included	Included	Included	Included	Included	—	—	—
Auto Changeover	✓	✓	✓	—	✓	—	✓	—	—
4-Way Auto Swing	2-way	✓	✓	✓	✓	✓	—	—	—
Washable Air Filter	✓	✓	✓	✓	✓	✓	✓	✓	—

*FastPro® not available on FAHSW36A3D.

Floating Air® SELECT WALL-MOUNTED HEAT PUMPS

FEATURING OUR **FastPro®** EASY-SERVICE DESIGN

GOOD | BETTER | BEST

Key Features

- Precision Inverter® technology (variable speed compressor)
- Soft-Start™ compressor
- BLDC motor

- Built-in Wi-Fi
- Ultra quiet operation
- Sleep mode
- ENERGY STAR® certified models available*

- Easy-to-read temperature display
- Wireless remote control included
- Efficiencies of up to 21.0 SEER2

SMART HOME
READY

 Indicates sustainability feature



Single-zone

115 VOLT MODELS:



FAHSW09A1C, FAHSW12A1C

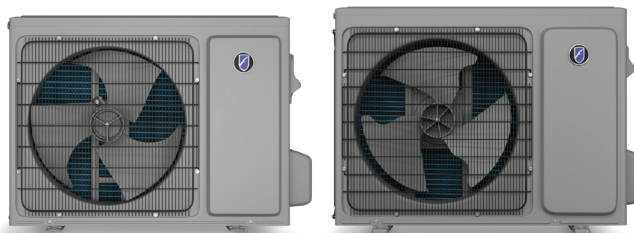


FHSR09B1C, FHSR12B1C

230/208 VOLT MODELS:



FAHFW18A3D, FAHFW24A3D



FHSR18B3D, FHSR24B3D



FAHSW36A3D
(FastPro® not available on this model)



FHSR36B3D



*Applies to FSHW091C and FSHW183D model sets.

FLOATING AIR™ SELECT | SINGLE-ZONE | WALL-MOUNTED HEAT PUMPS

MODEL	Model Set	Unit	FSHW091C	FSHW121C	FSHW183D	FSHW243D	FSHW363D
	Indoor Model		FAHSW09A1C	FAHSW12A1C	FAHSW18A3D	FAHSW24A3D	FAHSW36A3D
	SKU		B50-584	B50-585	B50-581	B50-582	B50-586
	Outdoor Model		FSHSR09B1C	FSHSR12B1C	FSHSR18B3D	FSHSR24B3D	FSHSR36B3D
	SKU		B50-614	B50-614	B50-616	B50-616	B50-618
Power Supply		V/Hz/ph	115V~, 60Hz, 1P		208V/230V~, 60Hz, 1P		
ENERGY STAR® Standard		Y/N	Y	N	Y	N	N
ENERGY STAR – Cold Climate		Y/N	N	N	N	N	N
COOLING	Rated Capacity @ 95°F	Btu/h	9,000	12,000	18,000	24,000	34,600
	Cooling Capacity Range (Min.–Max.)	Btu/h	3,600–10,000	4,000–13,000	6,500–19,000	8,000–25,000	9,300–36,000
	EER2 @ 95°F	Btu/h/W	12.50	10.20	12.00	10.60	9.50
	SEER2	Btu/h/W	20.00	18.00	21.00	19.50	20.00
	Cooling Operating Range	°F	5–118	5–118	5–118	5–118	5–118
HEATING	Rated Capacity @ 47°F	Btu/h	9,500	12,000	18,000	24,000	35,000
	Heating Capacity Range (Min.–Max.)	Btu/h	3,600–10,000	4,000–13,000	6,500–19,000	8,000–25,000	9,600–37,500
	COP @ 47°F	W/W	4.10	3.40	3.91	3.30	3.25
	COP @ 5°F	W/W	2.00	1.90	2.40	1.90	1.95
	HSPF2	Btu/h/W	9.00	8.50	9.80	8.50	8.40
	Rated Capacity Heating @ 17°F (-8.3°C)	Btu/h	6,800	8,800	14,800	21,000	19,200
	Maximum Heating Capacity @ 5°F (-15°C)	Btu/h	6,000	7,500	15,000	18,500	20,000
INDOOR AIRFLOW	Heating Operating Range	°F	-5–75	-5–75	-5–75	-5–75	-5–75
	Air Circulation (Max./H/M/L)	ft³ CFM	382/341/294/247	394/365/312/253	647/588/482/382	706/647/559/441	1,059/1,018/883/712
INDOOR FAN MOTOR	Sound Rating – Indoor (Max./H/M/L/Quiet)	dB(A)	42/39/37/35/32	42/39/37/35/32	48/45/41/39/36	50/48/43/41/39	52/48/43/39/38
	Output	W	46	46	35	35	70
OUTDOOR AIRFLOW	Speed (High/Med/Low)	r/min	1,100/940/800	1,154/992/800	1,100/960/800	1,200/1,040/880	1,060/930/810
	Air Circulation (High) for Outdoor	ft³ CFM	1,295	1,295	1,471	1,942	2,590
OUTDOOR FAN MOTOR	Sound Rating – Outdoor	dB(A)	53.0	53.0	56.0	60.0	60.0
	Output	W	36	36	60	102	102
ELECTRICAL	Speed (High)	r/min	850	880	840	880	900
	Rated Current						
REFRIGERATION (R-32)	Cooling (A)		6.7	10.7	6.4	10.0	16.0
	Cooling (W)		720	1,176	1,506	2,264	3,660
	Heating (A)		6.2	9.6	8.1	9.5	14.2
	Heating (W)		679	1,034	1,349	2,132	3,160
	MOP (Rating of Overcurrent Protective Device)	A	25	25	20	35	40
	MCA (Minimum Circuit Ampacity)	A	14.6	15.6	14.5	21.0	25.8
INDOOR UNIT DIMENSIONS & WEIGHTS	Communication Wire Size and Type		4 × 18AWG	4 × 18AWG	4 × 18AWG	4 × 18AWG	4 × 18AWG
	Moisture Removal	pints/hr	1.9	2.5	3.8	4.2	7.9
OUTDOOR UNIT DIMENSIONS & WEIGHTS	Refrigerant Charge Volume	oz.	21.2	21.9	45.9	47.7	72.4
	Liquid Pipe	in.	1/4	1/4	1/4	3/8	3/8
	Gas Pipe	in.	3/8	3/8	1/2	5/8	5/8
	Max. Pipe Length (Total)	ft.	65.6	65.6	98.4	98.4	98.4
	Max. Elevation (Indoor Units Higher Than Outdoor Unit)	ft.	49.2	49.2	49.2	49.2	49.2
	Pre-charge Pipe Length	ft.	24.6	24.6	24.6	24.6	24.6
	Additional Refrigerant Charge per Foot After 25 ft.	oz./ft.	0.22	0.22	0.22	0.32	0.43
	Dimension (W×H×D)	in.	33-7/8×11-2/8×8-4/8	33-7/8×11-2/8×8-4/8	45-2/8×13-2/8×10-1/8	45-2/8×13-2/8×10-1/8	52-3/8×14-2/8×10-6/8
INDOOR UNIT DIMENSIONS & WEIGHTS		mm	860×285×216	860×285×216	1,148×336×256	1,148×336×256	1,330×363×274
	Packing (L×H×W)	in.	36-5/8×15×11-2/8	36-5/8×15×11-2/8	47-7/8×16-1/8×13	47-7/8×16-1/8×13	56-1/8×15-4/8×18-1/8
		mm	930×285×380	930×285×380	1,215×330×410	1,215×330×410	1,425×395×460
	Net Weight	lbs.	22.1	22.05	32.0	34.2	40.8
		kg	10.0	10.0	15.0	16.0	19.0
	Shipping Weight	lbs.	26.5	26.5	37.5	39.7	50.3
		kg	12.0	12.0	17.0	18.0	23.0
	Dimension (W×H×D)	in.	28-1/8×21-2/8×9-4/8	28-1/8×21-2/8×9-4/8	31-7/8×23×11	33-7/8×25-5/8×12-2/8	35-3/8×29-4/8×13-3/8
OUTDOOR UNIT DIMENSIONS & WEIGHTS		mm	715×540×240	715×540×240	810×585×280	860×650×310	900×750×340
	Packing (L×H×W)	in.	32-5/8×23-1/8×13-3/8	32-5/8×23-1/8×13-3/8	37×25-2/8×15-1/8	39-1/8×28-3/8×16-4/8	41-6/8×32-2/8×17-6/8
		mm	830×588×340	830×588×340	940×640×385	995×720×420	1,060×820×450
	Net Weight	lbs.	52.9	57.3	86.0	101.4	121.3
		kg	24.0	26.0	39.0	46.0	55.0
	Shipping Weight	lbs.	57.3	61.7	92.6	110.3	132.3
		kg	26.0	28.0	42.0	50.0	60.0



Floating Air® PRO SERIES WALL-MOUNTED HEAT PUMPS

FEATURING OUR **FastPro®** EASY-SERVICE DESIGN

GOOD | **BETTER** | BEST

Key Features

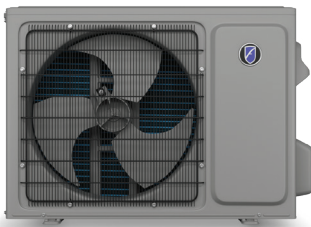
- Precision Inverter® technology (variable speed compressor)
- Soft-Start™ compressor
- BLDC motor
- Built-in Wi-Fi
- Ultra quiet operation
- Sleep mode
- All models ENERGY STAR® and ENERGY STAR® Cold Climate Heat Pump certified
- Easy-to-read temperature display
- Low ambient heat pump operation down to -13°F
- Wireless remote control included

SMART HOME
READY

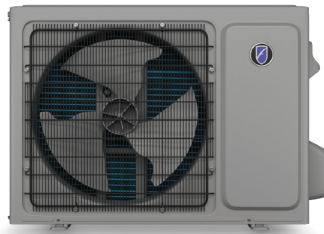
 Indicates sustainability feature



Single-zone



FPHSR09A1C, FPHSR12A1C,
FPHSR09A3D, FPHSR12A3D



FPHSR18A3D



FPHSR24A3D

Pro  **HIGH EFFICIENCY COOLING**

- Efficiencies of up to 25.0 SEER2
- Efficiencies of up to 11.0 HSPF2

115 VOLT MODELS:



FAHSW09A1C and FAHSW12A1C

230/208 VOLT MODELS:



FAHFW09A3D, FAHFW12A3D, FAHFW18A3D,
FAHFW24A3D



FLOATING AIR™ PRO | SINGLE-ZONE | WALL-MOUNTED HEAT PUMPS

MODEL	Model Set	Unit	FPHW091C	FPHW121C	FPHW093D	FPHW123D	FPHW183D	FPHW243D
	Indoor Model		FAHSW09A1C	FAHSW12A1C	FAHFW09A3D	FAHFW12A3D	FAHFW18A3D	FAHFW24A3D
	SKU		B50-584	B50-585	B50-579	B50-580	B50-581	B50-582
	Outdoor Model		FPHSR09A1C	FPHSR12A1C	FPHSR09A3D	FPHSR12A3D	FPHSR18A3D	FPHSR24A3D
	SKU		B50-608	B50-610	B50-609	B50-611	B50-611	B50-613
COOLING	Power Supply	V/Hz/ph	115V~, 60Hz, 1P			208V/230V~, 60Hz, 1P		
	ENERGY STAR® Standard	Y/N	Y	Y	Y	Y	Y	Y
	ENERGY STAR – Cold Climate	Y/N	Y	Y	Y	Y	Y	Y
	Rated Capacity @ 95°F	Btu/h	9,000	12,000	9,000	12,000	18,000	24,000
HEATING	Cooling Capacity Range (Min.–Max.)	Btu/h	3,600–10,000	4,000–13,000	3,600–10,000	4,000–13,000	6,500–19,000	8,000–25,000
	EER2 @ 95°F	Btu/h/W	12.25	12.25	13.65	12.25	12.95	12.25
	SEER2	Btu/h/W	23.00	22.00	25.00	23.00	21.00	22.50
	Cooling Operating Range (Min.–Max.)	°F	5–118	5–118	5–118	5–118	5–118	5–118
INDOOR AIRFLOW	Rated Capacity @ 47°F	Btu/h	9,500	12,000	9,000	12,000	18,000	24,000
	Heating Capacity Range (Min.–Max.)	Btu/h	3,600–10,000	4,000–13,000	3,600–10,000	4,000–13,000	6,500–19,000	8,000–25,000
	COP @ 47°F	W/W	3.98	3.98	4.00	3.80	3.70	3.60
	COP @ 5°F	W/W	1.90	1.90	2.10	2.00	1.90	1.80
INDOOR FAN MOTOR	HSPF2	Btu/h/W	10.00	9.50	11.00	10.00	10.00	9.50
	Rated Capacity Heating @ 17°F (-8.3°C)	Btu/h	9,500	9,300	9,000	10,800	18,000	22,000
	Maximum Heating Capacity @ 5°F (-15°C)	Btu/h	8,700	9,200	9,000	11,000	18,000	19,800
	Maximum Heating Capacity @ -13°F (-25°C)	Btu/h	4,600	5,900	5,400	6,100	11,500	12,100
OUTDOOR AIRFLOW	Heating Operating Range (Min.–Max.)	°F	-13–75	-13–75	-13–75	-13–75	-13–75	-13–75
	Air Circulation (Max./H/M/L)	ft³ CFM	382/341/294/247	394/365/312/253	382/341/294/247	394/365/312/253	647/588/482/382	706/647/559/441
	Sound Rating – Indoor (Max./H/M/L/Quiet)	dB(A)	42/39/37/35/32	42/39/37/35/32	42/39/37/35/32	42/39/37/35/32	48/45/41/39/36	50/48/43/41/39
	Output	W	46	46	25	25	35	35
OUTDOOR FAN MOTOR	Speed (High/Med/Low)	r/min	1,100/940/800	1,154/992/800	1,101/938/800	1,154/992/800	1,100/960/800	1,200/1,040/880
	Air Circulation (High) for Outdoor	ft³ CFM	1,471	1,471	1,471	1,471	1,942	2,531
	Sound Rating – Outdoor	dB(A)	53.0	53.0	53.0	53.0	58.0	61.0
	Output	W	36	36	36	36	60	102
ELECTRICAL	Speed (High)	r/min	850	880	880	880	840	880
	Rated Current	Cooling (A)	6.0	6.0	2.5	4.3	6.1	8.7
		Cooling (W)	641	980	659	980	1,390	1,959
		Heating (A)	6.4	6.4	3.1	4.1	6.5	9.3
		Heating (W)	696	960	659	926	1,426	1,954
REFRIGERATION (R-454B)	MOP (Rating of Overcurrent Protective Device)	A	25	25	15	15	30	35
	MCA (Minimum Circuit Ampacity)	A	16.0	16.0	9.5	10.5	20.0	22.0
	Communication Wire Size and Type		4 × 18AWG	4 × 18AWG	4 × 18AWG	4 × 18AWG	4 × 18AWG	4 × 18AWG
	Moisture Removal	pints/hr	1.9	2.5	1.9	2.5	3.2	4.7
INDOOR UNIT DIMENSIONS & WEIGHTS	Refrigerant Charge Volume	oz.	33.5	35.3	35.3	38.1	53.0	70.6
	Liquid Pipe	in.	1/4	1/4	1/4	1/4	1/4	3/8
	Gas Pipe	in.	3/8	3/8	3/8	3/8	1/2	5/8
	Max. Pipe Length (Total)	ft.	65.6	65.6	65.6	65.6	98.4	98.4
OUTDOOR UNIT DIMENSIONS & WEIGHTS	Max. Elevation (Indoor Units Higher Than Outdoor Unit)	ft.	49.2	49.2	49.2	49.2	49.2	49.2
	Pre-charge Pipe Length	ft.	24.6	24.6	24.6	24.6	24.6	24.6
	Additional Refrigerant Charge per Foot After 25 ft.	oz./ft.	0.22	0.22	0.22	0.22	0.22	0.32
	Dimension (W×H×D)	in.	33-7/8×11-2/8×8-4/8	33-7/8×11-2/8×8-4/8	33-7/8×11-2/8×8-4/8	33-7/8×11-2/8×8-4/8	45-2/8×13-2/8×10-1/8	45-2/8×13-2/8×10-1/8
INDOOR UNIT DIMENSIONS & WEIGHTS		mm	860×285×216	860×285×216	860×285×216	860×285×216	1,148×336×256	1,148×336×256
	Packing (L×H×W)	in.	36-5/8×15×11-2/8	36-5/8×15×11-2/8	36-5/8×15×11-2/8	36-5/8×15×11-2/8	47-7/8×16-1/8×13	47-7/8×16-1/8×13
		mm	930×380×285	930×380×285	930×380×285	930×380×285	1,215×410×330	1,425×460×395
	Net Weight	lbs.	22.1	22.05	22.1	22.05	34.2	34.2
OUTDOOR UNIT DIMENSIONS & WEIGHTS		kg	10.0	10.0	10.0	10.0	16.0	16.0
	Shipping Weight	lbs.	26.5	26.5	26.5	26.5	39.7	39.7
		kg	12.0	12.0	12.0	12.0	18.0	18.0
	Dimension (W×H×D)	in.	31-7/8×23×11	31-7/8×23×11	31-7/8×23×11	31-7/8×23×11	33-7/8×25-5/8×12-2/8	35-3/8×29-4/8×13-3/8
OUTDOOR UNIT DIMENSIONS & WEIGHTS		mm	810×585×280	810×585×280	810×585×280	810×585×280	860×650×310	900×750×340
	Packing (L×H×W)	in.	37×24-6/8×15-1/8	37×24-6/8×15-1/8	37×24-6/8×15-1/8	37×24-6/8×15-1/8	39-1/8×28-3/8×16-4/8	41-6/8×32-2/8×17-6/8
		mm	940×630×385	940×630×385	940×630×385	940×630×385	995×720×420	1,060×820×450
	Net Weight	lbs.	75.0	77.2	70.6	70.6	97.0	112.5
OUTDOOR UNIT DIMENSIONS & WEIGHTS		kg	34.0	35.0	32.0	32.0	44.0	51.0
	Shipping Weight	lbs.	86.0	86.0	81.6	81.6	105.8	121.3
		kg	39.0	39.0	37.0	37.0	48.0	55.0

Standard With Registration









Floating Air® PRO X WALL-MOUNTED HEAT PUMPS

FEATURING OUR **FastPro®** EASY-SERVICE design

GOOD | BETTER | **BEST**

Key Features

-  **Precision Inverter®** technology (variable speed compressor)
-  **Soft-Start™** compressor
-  BLDC motor
-  Built-in Wi-Fi
- Ultra quiet operation
-  Sleep mode
-  All models ENERGY STAR® and ENERGY STAR® Cold Climate Heat Pump certified
- Easy-to-read temperature display
- Extreme cold climate heat pump performance: 100% of rated capacity at 5°F*
- Extreme low ambient heat pump operation
- Wireless remote control included

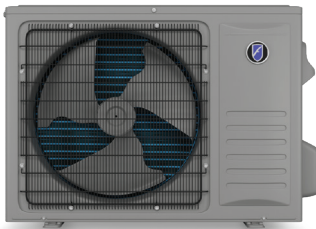
 Indicates sustainability feature

SMART HOME
READY



*Pro X Multi-zone 42K BTU models operate at 86% capacity at 5°F.

Single-zone



FPHFR09A3D, FPHFR12A3D

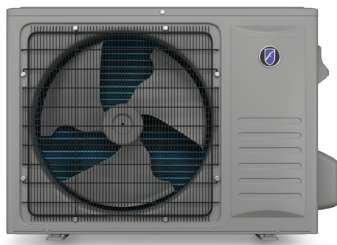


FPHFR18A3D, FPHFR24A3D

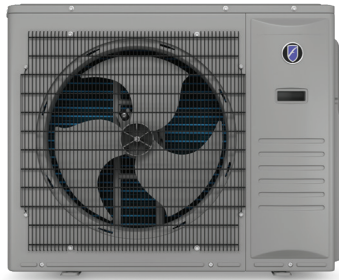


- Low ambient heat pump operation down to -22°F
- Low ambient cooling operation down to 5°F
- Low temperature compressor start-up protection

Multi-zone



FPHMR18A3D



FPHMR27A3D, FPHMR36A3D,
FPHMR42A3D



- Low ambient heat pump operation down to -13°F
- Low ambient cooling operation down to 5°F
- Low temperature compressor start-up protection

230/208 VOLT MODELS:



FAHWW07A3D, FAHFW09A3D, FAHFW12A3D,
FAHFW18A3D, FAHFW24A3D



FLOATING AIR™ PRO X | SINGLE-ZONE | WALL-MOUNTED HEAT PUMPS

MODEL	Model Set	Unit	FXHW093D	FXHW123D	FXHW183D	FXHW243D
	Indoor Model		FAHFW09A3D	FAHFW12A3D	FAHFW18A3D	FAHFW24A3D
	SKU		B50-579	B50-580	B50-581	B50-582
	Outdoor Model		FPHFR09A3D	FPHFR12A3D	FPHFR18A3D	FPHFR24A3D
	SKU		B50-597	B50-598	B50-599	B50-600
Power Supply		V/Hz/ph	208V/230V~, 60Hz, 1P			
ENERGY STAR® Standard		Y/N	Y	Y	Y	Y
ENERGY STAR – Cold Climate		Y/N	Y	Y	Y	Y
COOLING	Rated Capacity @ 95°F	Btu/h	9,000	12,000	18,000	24,000
	Cooling Capacity Range (Min.–Max.)	Btu/h	4,600–12,700	4,600–12,700	7,800–22,000	10,000–28,000
	EER2 @ 95°F	Btu/h/W	12.00	12.00	12.00	12.00
	SEER2	Btu/h/W	22.00	22.00	21.00	21.00
	Cooling Operating Range (Min.–Max.)	°F	5–125	5–125	5–125	5–125
HEATING	Rated Capacity @ 47°F	Btu/h	9,000	12,000	18,000	24,000
	Heating Capacity Range (Min.–Max.)	Btu/h	5,500–16,000	5,500–16,000	7,800–23,000	6,700–30,000
	COP @ 47°F	W/W	12.00	12.00	3.66	3.52
	COP @ 5°F	W/W	1.80	1.80	1.80	1.80
	HSPF2	Btu/h/W	10.50	10.50	10.00	10.00
	Rated Capacity Heating @ 17°F (-8.3°C)	Btu/h	6,500	8,700	14,100	19,100
	Maximum Heating Capacity @ 5°F (-15°C)	Btu/h	12,000	12,000	18,000	24,000
	Maximum Heating Capacity @ -13°F (-25°C)	Btu/h	8,400	8,400	12,600	16,200
	Heating Operating Range (Min.–Max.)	°F	-22–75	-22–75	-22–75	-22–75
INDOOR AIRFLOW	Air Circulation (Max./H/M/L)	ft³ CFM	382/341/294/247	394/365/312/253	647/588/482/382	706/647/559/441
	Sound Rating – Indoor (Max./H/M/L/Quiet)	dB(A)	42/39/37/35/32	42/39/37/35/32	48/45/41/39/36	50/48/43/41/39
INDOOR FAN MOTOR	Output	W	25	25	35	35
	Speed (High/Med/Low)	r/min	1,100/938/800	1,154/992/800	1,100/960/800	1,200/1,040/880
OUTDOOR AIRFLOW	Air Circulation (High) for Outdoor	ft³ CFM	1,354	1,354	1,853	2,235
	Sound Rating – Outdoor	dB(A)	64.0	64.0	68.0	71.0
OUTDOOR FAN MOTOR	Output	W	40	40	60	110
	Speed (High)	r/min	880	880	880	870
ELECTRICAL	Rated Current	Cooling (A)	3.9	4.5	6.7	8.9
		Cooling (W)	750	1,000	1,500	2,000
		Heating (A)	3.9	4.5	6.4	8.5
		Heating (W)	750	1,000	1,440	2,069
	MOP (Rating of Overcurrent Protective Device)	A	20	20	25	30
	MCA (Minimum Circuit Ampacity)	A	12.0	12.0	16.0	22.0
	Communication Wire Size and Type		4 × 18AWG	4 × 18AWG	4 × 18AWG	4 × 18AWG
REFRIGERATION (R-454B)	Moisture Removal	pints/hr	2.4	3.7	4.2	6.3
	Refrigerant Charge Volume	oz.	38.1	38.1	56.4	74.1
	Liquid Pipe	in.	0.25	0.25	0.25	0.375
	Gas Pipe	in.	0.375	0.375	0.5	0.625
	Max. Pipe Length (Total)	ft.	130.0	130.0	150.0	165.0
	Max. Elevation (Indoor Units Higher Than Outdoor Unit)	ft.	50.0	50.0	80.0	100.0
	Pre-charge Pipe Length	ft.	25.0	25.0	25.0	25.0
	Additional Refrigerant Charge per Foot After 25 ft.	oz./ft.	0.16	0.16	0.16	0.38
INDOOR UNIT DIMENSIONS & WEIGHTS	Dimension (W×H×D)	in.	33-7/8×11-2/8×8-4/8	33-7/8×11-2/8×8-4/8	45-2/8×13-2/8×10-1/8	45-2/8×13-2/8×10-1/8
		mm	860×285×216	860×285×216	1,148×336×256	1,148×336×256
	Packing (L×H×W)	in.	36-5/8×15×11-2/8	36-5/8×15×11-2/8	47-7/8×16-1/8×13	47-7/8×16-1/8×13
		mm	930×380×285	930×380×285	1,215×410×330	1,215×410×330
	Net Weight	lbs.	22.1	22.05	34.2	34.2
		kg	10.0	10.0	15.5	15.5
	Shipping Weight	lbs.	26.5	26.5	39.7	39.7
		kg	12.0	12.0	18.0	18.0
OUTDOOR UNIT DIMENSIONS & WEIGHTS	Dimension (W×H×D)	in.	31-7/8×22-7/8×11	31-7/8×22-7/8×11	33-7/8×26-3/8×12-1/4	35-3/8×29-1/2×13-3/8
		mm	810×580×280	810×580×280	860×670×310	900×750×340
	Packing (L×H×W)	in.	37×16-1/2×25-1/4	37×16-1/2×25-1/4	39×17-3/4×28-3/4	41×32-5/8×18-1/8
		mm	940×420×640	940×420×640	990×450×730	1,040×830×460
	Net Weight	lbs.	79.4	79.4	97.0	116.8
		kg	36.0	36.0	46.0	53.0
	Shipping Weight	lbs.	86.0	86.0	105.8	125.7
		kg	39.0	39.0	50.0	57.0



FLOATING AIR™ PRO X | MULTI-ZONE | WALL-MOUNTED HEAT PUMPS

MODEL	Indoor Model	Unit	FAHMMW07A3D	FAHFW09A3D	FAHFW12A3D	FAHFW18A3D	FAHFW24A3D
	SKU		B50-583	B50-579	B50-580	B50-581	B50-582
	Power Supply	V/ph/Hz	208V/230V~,60Hz,1P				
COOLING	Rated Capacity @ 95°F	Btu/h	7,000	9,000	12,000	18,000	24,000
	Cooling Capacity Range (Min.-Max.)	Btu/h	3,600-10,000	4,600-12,700	4,600-12,700	7,800-22,000	10,000-28,000
HEATING	Rated Capacity @ 47°F	Btu/h	8,500	9,000	12,000	18,000	24,000
	Heating Capacity Range (Min.-Max.)	Btu/h	3,600-10,000	5,500-16,000	5,500-16,000	7,800-23,000	6,700-30,000
AIRFLOW	Air Circulation (Max./H/M/L)	ft³ CFM	382/341/294/247	382/341/294/247	394/365/312/253	647/588/482/382	706/647/559/441
	Sound Rating - Indoor (Max./H/M/L/Quiet)	dB(A)	42/39/37/35/32	42/39/37/35/32	42/39/37/35/32	48/45/41/39/36	50/48/43/41/39
FAN MOTOR	Output	W	25	25	25	35	35
	Speed (High/Med/Low)	r/min	1,101/938/800	1,100/938/800	1,154/992/800	1,100/960/800	1,200/1,040/880
DIMENSIONS & WEIGHTS	Dimension (W×H×D)	in.	33-7/8×11-2/8×8-4/8	33-7/8×11-2/8×8-4/8	33-7/8×11-2/8×8-4/8	45-2/8×13-2/8×10-1/8	45-2/8×13-2/8×10-1/8
		mm	860×285×216	860×285×216	860×285×216	1,148×336×256	1,148×336×256
	Packing (L×H×W)	in.	36-5/8×15×11-2/8	36-5/8×15×11-2/8	36-5/8×15×11-2/8	47-7/8×16-1/8×13	47-7/8×16-1/8×13
		mm	930×380×285	930×380×285	930×380×285	1,215×410×330	1,215×410×330
	Net Weight	lbs.	22.1	22.1	22.1	34.2	34.2
		kg	10.0	10.0	10.0	15.5	15.5
	Shipping Weight	lbs.	26.5	26.5	26.5	39.7	39.7
		kg	12.0	12.0	12.0	18.0	18.0









FLOATING AIR™ PRO X | MULTI-ZONE | OUTDOOR UNITS

For Outdoor Model Specs, see page 63.

Floating Air® PRO X CEILING CASSETTE HEAT PUMPS

GOOD | BETTER | **BEST**

Key Features

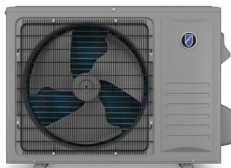
-  Precision Inverter® technology (variable speed compressor)
-  BLDC motor
-  Soft-Start™ compressor
 - 360/8-way airflow
-  Built-in Wi-Fi
- 4-way cooling
-  Sleep mode
- Independent vane control
- 3 fan speeds
- Ultra-quiet turbo fan
- Evaporator frost control
- Clean, modern look
- Flexible installation
-  All models ENERGY STAR® and ENERGY STAR® Cold Climate Heat Pump certified
- Precise air distribution
- Wireless remote control included

 Indicates sustainability feature

SMART HOME
READY



Single-zone



FPHFR09A3D, FPHFR12A3D

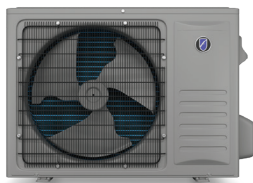


FPHFR18A3D, FPHFR24A3D,
FPHFR36A3D

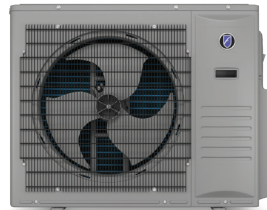


- Low ambient heat pump operation down to -22°F
- Low ambient cooling operation down to 5°F
- Low temperature compressor start-up protection

Multi-zone



FPHMR18A3D



FPHMR27A3D, FPHMR36A3D,
FPHMR42A3D



- Low ambient heat pump operation down to -22°F
- Low ambient cooling operation down to 5°F
- Low temperature compressor start-up protection

Cassettes



FPHFC09A3D, FPHFC12A3D



FPHFC18A3D, FPHFC24A3D,
FPHSC36A3D



NOTE: Images include cassette and grilles—sold separately. See next page.



FLOATING AIR™ PRO X | SINGLE-ZONE | CEILING CASSETTE HEAT PUMPS

MODEL	Model Set	Unit	FPHC093D	FPHC123D	FPHC183D	FPHC243D	FPHC363D
	Indoor Model		FPHFC09A3D	FPHFC12A3D	FPHFC18A3D	FPHFC24A3D	FPHSC36A3D
	SKU		B50-589	B50-590	B50-591	B50-592	B50-606
	Outdoor Model		FPHFR09A3D	FPHFR12A3D	FPHFR18A3D	FPHFR24A3D	FPHFR36A3D
	SKU		B50-597	B50-598	B50-599	B50-600	B50-601
COOLING	Power Supply	V/Hz/ph	208V/230V~, 60Hz, 1P				
	ENERGY STAR® Standard	Y/N	Y	Y	Y	Y	Y
	ENERGY STAR – Cold Climate	Y/N	Y	Y	Y	Y	Y
	Rated Capacity @ 95°F	Btu/h	9,000	12,000	18,000	24,000	36,000
	Cooling Capacity Range (Min.–Max.)	Btu/h	4,300–14,500	4,300–14,500	7,800–24,000	9,000–30,000	12,000–45,000
HEATING	EER2 @ 95°F	Btu/h/W	12.00	12.00	12.00	12.00	12.00
	SEER2	Btu/h/W	20.00	20.00	20.00	20.00	19.50
	Cooling Operating Range (Min.–Max.)	°F	5–125	5–125	5–125	5–125	5–125
	Rated Capacity @ 47°F	Btu/h	9,000	12,000	18,000	24,000	36,000
	Heating Capacity Range (Min.–Max.)	Btu/h	5,500–18,000	5,500–18,000	8,500–24,000	7,500–34,000	11,000–45,000
INDOOR AIRFLOW	COP @ 47°F	W/W	3.52	3.52	3.38	3.52	3.70
	COP @ 5°F	W/W	1.80	1.80	2.00	2.00	2.00
	HSPF2	Btu/h/W	9.50	9.50	10.00	10.50	9.50
	Rated Capacity Heating @ 17°F (-8.3°C)	Btu/h	8,900	8,900	14,100	19,100	25,500
	Maximum Heating Capacity @ 5°F (-15°C)	Btu/h	12,000	12,000	18,000	24,000	36,000
INDOOR FAN MOTOR	Maximum Heating Capacity @ -13°F (-25°C)	Btu/h	8,400	8,400	12,600	16,200	25,200
	Heating Operating Range (Min.–Max.)	°F	-22–75	-22–75	-22–75	-22–75	-22–75
	Air Circulation (Max./H/M/L)	ft³ CFM	341/341/294/235	341/341/294/235	643/643/554/465	706/706/588/494	1,030/1,030/883/736
	Sound Rating – Indoor (High)	dB(A)	52	52	50	53	60
	Output	W	57	57	75	75	106
OUTDOOR AIRFLOW	Speed (High/Medium/Low)	r/min	700/600/500	700/600/500	420/380/320	470/400/340	660/560/480
	Air Circulation (High) for Outdoor	ft³ CFM	1,354	1,354	1,853	2,235	3,350
	Sound Rating – Outdoor	dB(A)	64.0	64.0	68.0	71.0	74.0
	Output	W	40	40	60	110	250
	Speed (High)	r/min	880	880	880	870	850
ELECTRICAL	Rated Current	Cooling (A)	3.00	4.30	6.30	8.50	14.20
		Cooling (W)	750	1,000	1,500	2,000	3,000
		Heating (A)	3.00	4.25	6.78	8.50	13.50
		Heating (W)	750	1,000	1,560	2,000	2,850
	MOP (Rating of Overcurrent Protective Device)	A	20	20	25	30	50
REFRIGERATION (R-454B)	MCA (Minimum Circuit Ampacity)	A	12	12	16	22	30
	Communication Wire Size and Type		4 × 16AWG	4 × 16AWG	4 × 16AWG	4 × 16AWG	4 × 16AWG
	Moisture Removal	pints/hr	1.96	3.14	4.22	6.26	9.55
	Refrigerant Charge Volume	oz.	38.1	38.1	56.4	74.1	112.8
	Liquid Pipe	in.	1/4	1/4	1/4	3/8	3/8
INDOOR UNIT DIMENSIONS & WEIGHTS	Gas Pipe	in.	3/8	3/8	1/2	5/8	5/8
	Max. Pipe Length (Total)	ft.	130	130	150	165	164
	Max. Elevation (Indoor Units Higher Than Outdoor Unit)	ft.	50	50	80	100	98
	Pre-charge Pipe Length	ft.	25	25	25	25	25
	Additional Refrigerant Charge per Foot After 25 ft.	oz./ft.	0.16	0.16	0.16	0.38	0.38
OUTDOOR UNIT DIMENSIONS & WEIGHTS	Dimension (W×H×D)	in.	22-1/2×8-1/2×22-1/2	22-1/2×8-1/2×22-1/2	33-1/8×9-1/4×33-1/8	33-1/8×9-1/4×33-1/8	33-1/8×10-3/4×33-1/8
		mm	570×215×570	570×215×570	840×236×840	840×236×840	840×272×840
	Packing (L×W×H)	in.	28-3/4×26-1/4×11-1/2	28-3/4×26-1/4×11-1/2	37-3/8×12-5/8×37-3/8	37-3/8×12-5/8×37-3/8	37-3/8×14-1/8×37-3/8
		mm	730×668×292	730×668×292	950×320×950	950×320×950	950×360×950
	Net Weight	lbs.	34.2	34.2	52.9	52.9	57.3
GRILLE DIMENSIONS & WEIGHTS		kg	15.5	15.5	24.0	24.0	26.0
	Shipping Weight	lbs.	40.8	40.8	63.9	63.9	70.6
		kg	18.5	18.5	29.0	29.0	32.0
	Dimension (W×H×D)	in.	31-7/8×22-7/8×11	31-7/8×22-7/8×11	33-7/8×26-3/8×12-1/4	35-3/8×29-1/2×13-3/8	43-1/4×34-1/2×17-3/4
		mm	810×580×280	810×580×280	860×670×310	900×755×340	1,100×875×450
DECORATIVE GRILLE	Packing (L×W×H)	in.	37×16-1/2×25-1/4	37×16-1/2×25-1/4	39×17-3/4×28-3/4	41×32-5/8×18-1/8	45-7/8×39-1/2×21-1/4
		mm	940×420×640	940×420×640	990×730×450	1,040×830×460	1,165×1,005×540
	Net Weight	lbs.	79.4	79.4	103.6	123.4	185.2
		kg	36.0	36.0	47.0	56.0	84.0
	Shipping Weight	lbs.	86.0	86.0	111.3	132.3	209.4
FPCG0912A		kg	39.0	39.0	50.5	60.0	95.0
	Dimension (W×H×D)	in.	24-3/8×1-5/8×24-3/8	24-3/8×1-5/8×24-3/8	37-3/8×2×37-3/8	37-3/8×2×37-3/8	37-3/8×2×37-3/8
		mm	620×40×620	620×40×620	950×50×950	950×50×950	950×50×950
	Packing (L×W×H)	in.	27-1/8×26-3/4×4-1/2	27-1/8×26-3/4×4-1/2	40-1/8×39-3/8×4-1/8	40-1/8×39-3/8×4-1/8	40-1/8×39-3/8×4-1/8
		mm	690×680×115	690×680×115	1,020×1,000×105	1,020×1,000×105	1,020×1,000×105
FPCG182436A	Net Weight	lbs.	5.7	5.7	14.3	14.3	14.3
		kg	2.6	2.6	6.5	6.5	6.5
	Shipping Weight	lbs.	9.9	9.9	19.8	19.8	19.8
		kg	4.5	4.5	9.0	9.0	9.0



Ceiling Cassette Grilles

(Required)



FPCG0912A -
(GRAINGER SKU -
B50-587)



FPCG182436A
(GRAINGER SKU -
B50-588)

DECORATIVE GRILLE

FPCG0912A

FITS
FPHFC09A3D,
FPHFC12A3D

FPCG182436A

FITS
FPHFC18A3D,
FPHFC24A3D,
FPHFC36A3D



FLOATING AIR™ PRO X | MULTI-ZONE | CEILING CASSETTE HEAT PUMPS

MODEL	Indoor Model	Unit	FPHFC09A3D	FPHFC12A3D	FPHFC18A3D	FPHFC24A3D
	SKU		B50-589	B50-590	B50-591	B50-592
	Power Supply	V/ph/Hz	208V/230V~, 60Hz, 1P			
COOLING	Rated Capacity @ 95°F	Btu/h	9,000	12,000	18,000	24,000
	Cooling Capacity Range (Min.–Max.)	Btu/h	4,300–14,500	4,300–14,500	7,800–24,000	9,000–30,000
HEATING	Rated Capacity @ 47°F	Btu/h	9,000	12,000	18,000	24,000
	Heating Capacity Range (Min.–Max.)	Btu/h	5,500–18,000	5,500–18,000	8,500–24,000	7,500–34,000
AIRFLOW	Air Circulation (H/M/L)	ft³ CFM	341/341/294/235	341/341/294/235	643/643/554/465	706/706/588/494
	Sound Rating – Indoor (H/M/L)	dB(A)	52	52	50	53
FAN MOTOR	Output	W	57	57	75	75
	Speed (High/Med/Low)	r/min	700/600/500	700/600/500	420/380/320	470/400/340
DIMENSIONS & WEIGHTS	Dimension (W×H×D)	in.	22-1/2×8-1/2×22-1/2	22-1/2×8-1/2×22-1/2	33-1/8×9-1/4×33-1/8	33-1/8×9-1/4×33-1/8
		mm	570×215×570	570×215×570	840×236×840	840×236×840
	Packing (L×W×H)	in.	28-3/4×26-1/4×11-1/2	28-3/4×26-1/4×11-1/2	37-3/8×12-5/8×37-3/8	37-3/8×12-5/8×37-3/8
		mm	730×668×292	730×668×292	950×950×320	950×950×320
	Net Weight	lbs.	34.2	34.2	52.9	52.9
		kg	15.5	15.5	24.0	24.0
	Shipping Weight	lbs.	40.8	40.8	63.9	63.9
		kg	18.5	18.5	29.0	29.0
INDOOR GRILLE	Dimension (W×H×D)	in.	24-3/8×1-5/8×24-3/8	24-3/8×1-5/8×24-3/8	37-3/8×2×37-3/8	37-3/8×2×37-3/8
		mm	620×40×620	620×40×620	950×50×950	950×50×950
	Packing (L×W×H)	in.	27-1/8×26-3/4×4-1/2	27-1/8×26-3/4×4-1/2	40-1/8×39-3/8×4-1/8	40-1/8×39-3/8×4-1/8
		mm	690×680×115	690×680×115	1,020×1,000×105	1,020×1,000×105
	Net Weight	lbs.	5.7	5.7	14.3	14.3
		kg	2.6	2.6	6.5	6.5
	Shipping Weight	lbs.	9.9	9.9	19.8	19.8
		kg	4.5	4.5	9.0	9.0



With Registration

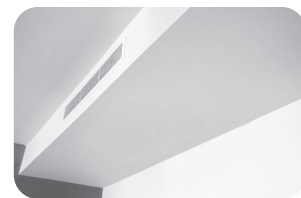


FLOATING AIR™ PRO X | MULTI-ZONE | OUTDOOR UNITS

For Outdoor Model Specs, see page 63.



PRO X THE INSIDER® CONCEALED DUCTED HEAT PUMPS



GOOD | BETTER | **BEST**

Key Features

- Precision Inverter® technology (variable speed compressor)
- Soft-Start™ compressor
- BLDC motor
- 3 fan speeds

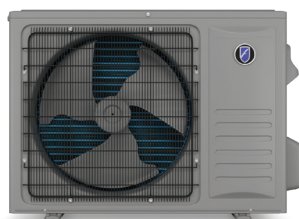
- Control lock function on controller
- External static pressure range 0-.40 (single-zone)
- External static pressure range 9K/12K/18K/24K 0-.40 WC (multi-zone)

indicates sustainability feature

- All models ENERGY STAR® and ENERGY STAR® Cold Climate Heat Pump certified
- Wall controller included (FPWC1)



Single-zone



FPHFR09A3D, FPHFR12A3D

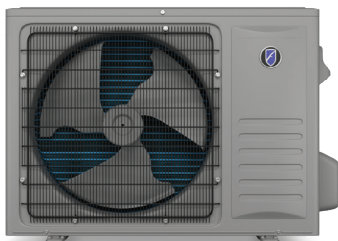


FPHFR18A3D, FPHFR24A3D, FPHFR36A3D

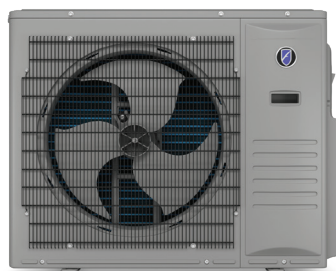


- Low ambient heat pump operation down to -22°F
- Low ambient cooling operation down to 5°F
- Low temperature compressor start-up protection

Multi-zone



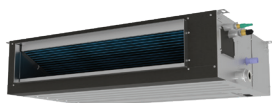
FPHMR18A3D



FPHMR27A3D, FPHMR36A3D, FPHMR42A3D



- Low ambient heat pump operation down to -13°F
- Low ambient cooling operation down to 5°F
- Low temperature compressor start-up protection



FPHFD09A3D, FPHFD12A3D, FPHFD18A3D, FPHFD24A3D, FPHSD36A3D



FLOATING AIR™ PRO X | SINGLE-ZONE | THE INSIDER® CONCEALED DUCTED HEAT PUMPS

MODEL	Model Set	Unit	FPHD093D	FPHD123D	FPHD183D	FPHC243D	FPHC363D
	Indoor Model		FPHFD09A3D	FPHFD12A3D	FPHFD18A3D	FPHFD24A3D	FPHSD36A3D
	SKU		B50-593	B50-594	B50-595	B50-595	B50-607
	Outdoor Model		FPHFR09A3D	FPHFR12A3D	FPHFR18A3D	FPHFR24A3D	FPHFR36A3D
	SKU		B50-597	B50-598	B50-599	B50-600	B50-601
COOLING	Power Supply	V/Hz/ph	208V/230V~, 60Hz, 1P				
	ENERGY STAR® Standard	Y/N	Y	Y	Y	Y	Y
	ENERGY STAR – Cold Climate	Y/N	Y	Y	Y	Y	Y
	Rated Capacity @ 95°F	Btu/h	9,000	12,000	18,000	24,000	33,000
	Cooling Capacity Range (Min.–Max.)	Btu/h	4,300–14,500	4,300–14,500	6,500–25,000	9,000–31,500	12,000–45,000
HEATING	EER2 @ 95°F	Btu/h/W	11.70	11.71	11.69	11.71	11.70
	SEER2	Btu/h/W	19.50	19.50	19.00	19.00	18.50
	Cooling Operating Range	°F	5–125	5–125	5–125	5–125	5–125
	Rated Capacity @ 47°F	Btu/h	9,000	12,000	18,000	24,000	36,000
	Heating Capacity Range (Min.–Max.)	Btu/h	5,300–18,000	5,300–18,000	5,700–30,000	7,600–37,500	11,000–45,000
INDOOR AIRFLOW	COP @ 47°F	W/W	3.52	3.52	3.43	3.52	3.64
	COP @ 5°F	W/W	1.80	1.80	2.00	2.00	2.00
	HSPF2	Btu/h/W	9.50	9.50	9.00	9.50	9.00
	Rated Capacity Heating @ 17°F (-8.3°C)	Btu/h	8,700	8,700	13,200	15,800	25,500
	Maximum Heating Capacity @ 5°F (-15°C)	Btu/h	12,000	12,000	18,000	24,000	36,000
INDOOR FAN MOTOR	Maximum Heating Capacity @ -13°F (-25°C)	Btu/h	8,400	8,400	12,600	16,000	25,200
	Heating Operating Range	°F	-22–75	-22–75	-22–75	-22–75	-22–75
	Air Circulation (Max./H/M/L)	ft³ CFM	324/324/294/235	324/324/294/235	530/530/471/412	735/735/647/559	1,118/1,118/1,000/883
	Sound Rating – Indoor (High)	dB(A)	52	52	50	53	60
	ESP (in H₂O)	Rated With Filter	0.18	0.18	0.18	0.58	0.58
OUTDOOR AIRFLOW		Range With Filter	0–0.12	0–0.12	0–0.56	0–0.66	0–0.71
	Output	W	57	57	75	75	106
	Speed (High/Med/Low)	r/min	1,110/1,000/800	1,110/1,000/800	920/820/720	1,400/1,250/1,100	1,260/1,150/1,020
	Air Circulation (High) for Outdoor	ft³ CFM	1,354	1,354	1,853	2,235	3,350
	Sound Rating – Outdoor	dB(A)	64.0	64.0	68.0	71.0	74.0
ELECTRICAL	Output	W	40	40	60	102	250
	Speed (High)	r/min	880	880	880	870	850
	Rated Current	Cooling (A)	3.10	4.50	6.70	9.40	13.40
		Cooling (W)	769	1,025	1,540	2,050	2,820
		Heating (A)	2.86	4.30	6.78	9.20	13.80
REFRIGERATION (R-454B)		Heating (W)	750	1,000	1,540	2,050	2,900
	MOP (Rating of Overcurrent Protective Device)	A	20	20	25	30	50
	MCA (Minimum Circuit Ampacity)	A	12	12	16	22	30
	Communication Wire Size and Type		4 × 16AWG	4 × 16AWG	4 × 16AWG	4 × 16AWG	4 × 16AWG
	Moisture Removal	pints/hr	2.35	3.66	4.26	4.31	9.55
INDOOR UNIT DIMENSIONS & WEIGHTS	Refrigerant Charge Volume	oz.	38.1	38.1	56.4	74.1	112.8
	Liquid Pipe	in.	1/4	1/4	1/4	3/8	3/8
	Gas Pipe	in.	3/8	3/8	1/2	5/8	5/8
	Max. Pipe Length (Total)	ft.	130	130	150	165	164
	Max. Elevation (Indoor Units Higher Than Outdoor Unit)	ft.	50	50	80	100	98
OUTDOOR UNIT DIMENSIONS & WEIGHTS	Pre-charge Pipe Length	ft.	25	25	25	25	25
	Additional Refrigerant Charge per Foot After 25 ft.	oz./ft.	0.16	0.16	0.16	0.38	0.38
	Dimension (W×H×D)	in.	35-7/8×7-1/2×17-5/8	35-7/8×7-1/2×17-5/8	31-1/2×9-5/8×27-1/2	43-1/4×9-5/8×27-1/2	55-1/8×11-3/4×31-1/2
		mm	910×190×447	910×190×447	800×245×700	1,100×245×700	1,400×300×800
	Packing (L×W×H)	in.	42-1/2×22-1/4×11-1/4	42-1/2×22-1/4×11-1/4	38-5/8×12-3/8×31-7/8	50-3/8×12-3/8×31-7/8	62-1/4×15×36-1/4
INDOOR UNIT DIMENSIONS & WEIGHTS		mm	1,080×565×285	1,080×565×285	980×315×810	1,280×315×810	1,580×380×920
	Net Weight	lbs.	44.1	44.1	58.4	73.9	112.4
		kg	20.0	20.0	26.5	33.5	51.0
	Shipping Weight	lbs.	51.8	51.8	58.4	73.9	125.7
		kg	23.5	23.5	31.0	38.5	57.0
OUTDOOR UNIT DIMENSIONS & WEIGHTS	Dimension (W×H×D)	in.	31-7/8×22-7/8×11	31-7/8×22-7/8×11	33-7/8×26-3/8×12-1/4	35-3/8×29-1/2×13-3/8	43-1/4×34-1/2×17-3/4
		mm	810×580×280	810×580×280	860×670×310	900×750×340	1,100×875×450
	Packing (L×W×H)	in.	37×16-1/2×25-1/4	37×16-1/2×25-1/4	39×17-3/4×28-3/4	41×32-5/8×18-1/8	45-7/8×39-1/2×21-1/4
		mm	940×420×640	940×420×640	990×450×730	1,040×830×460	1,165×1,005×540
	Net Weight	lbs.	79.4	79.4	103.6	123.4	185.2
INDOOR UNIT DIMENSIONS & WEIGHTS		kg	36.0	36.0	47.0	56.0	84.0
	Shipping Weight	lbs.	86.0	86.0	111.3	132.3	209.4
		kg	39.0	39.0	50.5	60.0	95.0



FLOATING AIR™ PRO X | MULTI-ZONE | THE INSIDER® CONCEALED DUCTED HEAT PUMPS

MODEL	Indoor Model	Unit	FPHFD09A3D	FPHFD12A3D	FPHFD18A3D	FPHFD24A3D
	SKU		B50-593	B50-594	B50-595	B50-596
	Power Supply	V/ph/Hz	208V/230V~, 60Hz, 1P			
COOLING	Rated Capacity @ 95°F	Btu/h	9,000	12,000	18,000	24,000
	Cooling Capacity Range (Min.-Max.)	Btu/h	4,300-14,500	4,300-14,500	6,500-25,000	9,000-31,500
HEATING	Rated Capacity @ 47°F	Btu/h	9,000	12,000	18,000	24,000
	Heating Capacity Range (Min.-Max.)	Btu/h	5,300-18,000	5,300-18,000	5,700-30,000	7,600-37,500
AIRFLOW	Air Circulation (H/M/L)	ft³ CFM	324/324/294/235	324/324/294/235	530/530/471/412	735/735/647/559
	Sound Rating - Indoor (H/M/L)	dB(A)	57	57	60	68
	ESP (in H₂O)	Rated with filter	0.18	0.18	0.18	0.58
		Rated with filter	0-0.12	0-0.12	0-0.56	0-0.66
FAN MOTOR	Output	W	57	57	75	75
	Speed (High/Med/Low)	r/min	1,110/1,000/800	1,110/1,000/800	920/820/720	1,400/1,250/1,100
DIMENSIONS & WEIGHTS	Dimension (W×H×D)	in.	35-7/8×7-1/2×17-5/8	35-7/8×7-1/2×17-5/8	31-1/2×9-5/8×27-1/2	43-1/4×9-5/8×27-1/2
		mm	910×190×447	910×190×447	800×245×700	1,100×245×700
	Packing (L×W×H)	in.	42-1/2×22-1/4×11-1/4	42-1/2×22-1/4×11-1/4	38-5/8×12-3/8×31-7/8	50-3/8×12-3/8×31-7/8
		mm	1,080×565×285	1,080×565×285	980×315×810	1,280×315×810
	Net Weight	lbs.	44.1	44.1	58.4	73.9
		kg	20.0	20.0	26.5	33.5
	Shipping Weight	lbs.	51.8	51.8	58.4	73.9
		kg	23.5	23.5	31.0	38.5



FLOATING AIR™ PRO X | MULTI-ZONE | OUTDOOR UNITS

For Outdoor Model Specs, see page 63.

Floating Air® PRO X AIR HANDLERS

GOOD | BETTER | **BEST**

Key Features

- **Precision Inverter®** technology (variable speed compressor)
- Soft-Start™ compressor
- BLDC motor
- 3 fan speeds

- Air handler can be installed in 4 configurations; upflow, downflow, horizontal left, and horizontal right
- Aluminum indoor coil
- Compatible with 24V thermostats

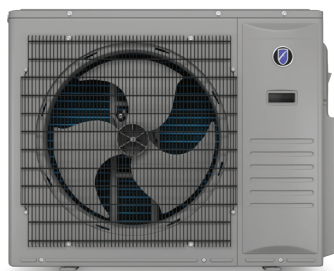
 Indicates sustainability feature

- All models ENERGY STAR® and ENERGY STAR® Cold Climate Heat Pump certified
- Efficiencies of up to 19.0 SEER2

Multi-zone



FPHFA18A3D, FPHFA24A3D



FPHMR27A3D, FPHMR36A3D, FPHMR42A3D



- Low ambient heat pump operation down to -13°F
- Low ambient cooling operation down to 5°F
- Low temperature compressor start-up protection



FLOATING AIR™ PRO X | MULTI-ZONE | AIR HANDLER

MODEL	Indoor Model	Unit	FPHFA18A3D	FPHFA24A3D
	SKU		—	—
	Power Supply	V/ph/Hz	208V/230V~, 60Hz, 1P	
COOLING	Rated Capacity @ 95°F	Btu/h	18,000	24,000
	Cooling Capacity Range (Min.-Max.)	Btu/h	10,500-31,000	10,500-31,000
HEATING	Rated Capacity @ 47°F	Btu/h	18,000	24,000
	Heating Capacity Range (Min.-Max.)	Btu/h	11,700-33,000	11,700-33,000
AIRFLOW	Rated Airflow	ft³ CFM	800	800
	Min.-Max.	ft³ CFM	529-823	529-823
	Sound Rating - Indoor (High)	dB(A)	51	51
FAN MOTOR	Output	W	373	373
	RLA	A	2.6	2.6
	Speed (High/Low)	r/min	350-1,400	350-1,400
DIMENSIONS & WEIGHTS	Dimension (W×H×D)	in.	17-4/8×45×21	17-4/8×45×21
		mm	445×1,143×534	445×1,143×534
	Packing (L×H×W)	in.	20-4/8×25-2/8×49-6/8	20-4/8×25-2/8×49-6/8
		mm	520×1,265×640	520×1,265×640
	Net Weight	lbs.	130.5	130.5
		kg	59.2	59.2
	Shipping Weight	lbs.	153.6	153.6
		kg	69.7	69.7

Standard

With Registration



FLOATING AIR™ PRO X | MULTI-ZONE | OUTDOOR UNITS



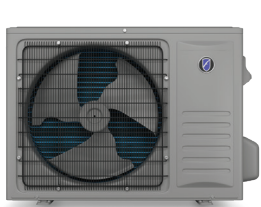
OUTDOOR MODEL	Outdoor Model	Unit	FPHMR18A3D	FPHMR27A3D	FPHMR36A3D	FPHMR42A3D
	SKU		B50-602	B50-603	B50-604	B50-605
COOLING	Power Supply	V/Hz/ph	208V/230V~, 60Hz, 1P			
	ENERGY STAR® Standard*	Y/N	Y	Y	Y	Y
	ENERGY STAR – Cold Climate*	Y/N	Y	Y	Y	Y
	Rated Capacity @ 95°F	Btu/h	18,000	27,000	36,000	42,000
HEATING	Cooling Capacity Range (Min.–Max.)	Btu/h	9,000–22,000	9,000–31,000	9,000–46,800	9,000–54,600
	EER2 @ 95°F*	Btu/h/W	13.30	12.85	12.85	12.00
	SEER2*	Btu/h/W	22.00	23.00	22.00	22.00
	Cooling Operating Range (Min.–Max.)	°F	5–125	5–125	5–125	5–125
AIRFLOW	Rated Capacity @ 47°F	Btu/h	18,000	27,000	36,000	42,000
	Heating Capacity Range (Min.–Max.)	Btu/h	9,000–30,000	9,000–44,000	9,000–54,000	9,000–58,000
	COP @ 47°F*	W/W	3.82	3.60	3.91	3.60
	COP @ 5°F*	W/W	1.99	1.82	1.92	1.92
	HSPF2*	Btu/h/W	10.0	10.0	10.0	9.50
	Rated Capacity Heating @ 17°F (-8.3°C)	Btu/h	11,500	17,600	22,600	28,200
	Maximum Heating Capacity @ 5°F (-15°C)	Btu/h	18,000	27,000	36,000	36,000
	Maximum Heating Capacity @ -13°F (-25°C)	Btu/h	13,356	19,177	26,175	27,216
FAN MOTOR	Heating Operating Range (Min.–Max.)	°F	-13–75	-13–75	-13–75	-13–75
	Air Circulation (High) for Outdoor	ft³ CFM	1,850	3,357	3,357	3,357
ELECTRICAL	Sound Rating – Outdoor	dB(A)	55	62	64	64
	Output	W	60	220	220	220
REFRIGERATION (R-454B)	Speed (High)	r/min	880	850	830	830
	Rated Current	Cooling (A)	6.3	9.3	12.8	15.5
		Cooling (W)	1,350	2,100	2,802	3,500
		Heating (A)	6.4	10.0	12.5	18.0
		Heating (W)	1,380	2,200	2,700	3,910
	MOP (Rating of Overcurrent Protective Device)	A	30.0	40.0	50.0	60.0
	MCA (Minimum Circuit Ampacity)	A	21.0	25.0	32.0	36.0
	Communication Wire Size and Type		4 × 14AWG	4 × 14AWG	4 × 14AWG	4 × 14AWG
DIMENSIONS & WEIGHTS	Moisture Removal	pints/hr	2.4	3.0	4.3	4.4
	Refrigerant Charge Volume	oz.	51.1	76.2	105.8	105.8
	Liquid Pipe	in.	1/4	1/4	1/4	1/4
	Gas Pipe	in.	3/8	3/8	3/8	3/8
	Connection		Flare	Flare	Flare	Flare
	Max. Pipe Length (Total)	ft.	164.0	230.0	230.0	262.0
	Max. Elevation (Indoor Units Higher Than Outdoor Unit)	ft.	49.0	49.0	49.0	49.0
	Pre-charge Pipe Length	ft.	50.0	75.0	100.0	125.0
	Additional Refrigerant Charge per Foot After 25 ft.	oz./ft.	0.2	0.2	0.2	0.2
DIMENSIONS & WEIGHTS	Dimension (W×H×D)	in.	33-7/8×26-3/8×12-1/4	38-3/8×32-7/8×14-1/8	38-3/8×32-7/8×14-1/8	38-3/8×32-7/8×14-1/8
		mm	860×670×310	975×835×360	975×835×360	975×835×360
	Packing (L×W×H)	in.	39×17-3/4×28-3/4	43-3/4×18-1/8×37-3/4	43-3/4×18-1/8×37-3/4	43-3/4×18-1/8×37-3/4
		mm	990×450×730	1,111×460×960	1,111×460×960	1,111×460×960
	Net Weight	lbs.	101.4	160.6	169.8	172.0
		kg	46.0	72.9	77.0	78.0
	Shipping Weight	lbs.	112.4	183.2	191.8	194
		kg	51.0	83.1	87.0	88.0



*Efficiency data shown based on non-ducted indoor application.

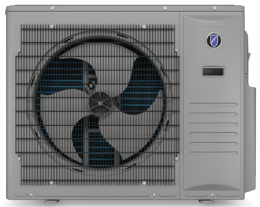
FLOATING AIR™ PRO X | MULTI-ZONE CONFIGURATIONS

Mix and match any combination of indoor units up to the maximum connected capacity.



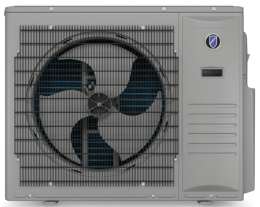
FPHMR18A3D
24,000 Btu
MAX. CONNECTED CAPACITY

2 ZONES
MINIMUM combination must be 50% of nameplate capacity
Combinations SHOULD NOT:
Exceed the maximum allowable total indoor unit connected capacity of 24,000 Btu.



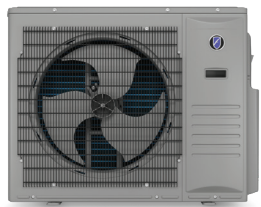
FPHMR27A3D
36,000 Btu
MAX. CONNECTED CAPACITY

2 ZONES
MINIMUM combination must be 50% of nameplate capacity
3 ZONES
Choose any combination of (3) indoor units.
Combinations SHOULD NOT:
Exceed the maximum allowable total indoor unit connected capacity of 36,000 Btu.



FPHMR36A3D
48,000 Btu
MAX. CONNECTED CAPACITY

2 ZONES
Choose two (2) 18,000 Btu indoor units
3 ZONES
Choose any combination of (3) indoor units with no more than (2) 18,000 Btu indoor units plus (1) other indoor unit.
4 ZONES
Choose any combination of (4) indoor units.
Combinations SHOULD NOT:
Exceed the maximum allowable total indoor unit connected capacity of 48,000 Btu.



FPHMR42A3D
54,000 Btu
MAX. CONNECTED CAPACITY

3 ZONES
Choose any combination of (3) indoor units with no more than (2) 18,000 Btu indoor units plus (1) other indoor unit.
4 ZONES
Choose any combination of (4) indoor units.
5 ZONES
Choose any combination of (5) indoor units.
Combinations SHOULD NOT:
Exceed the maximum allowable total indoor unit connected capacity of 54,000 Btu.

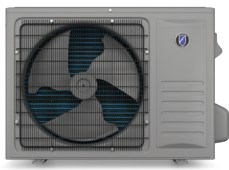
MULTI-ZONE CONFIGURATION, AHRI RATINGS

Friedrich Model	AHRI Reference Number	Indoor Type	System Cooling 95°F Capacity	EER2	High Heat 47°F	Low Heat 17°F (-8.3°C)	COP 5°F	Maximum Heating Capacity -13°F (-25°C)
FPHMR18A3D	215792836	Non-Ducted Indoor Units	18,000	13.30	18,000	11,500	1.99	13,356
	215792837	Ducted Indoor Units	18,000	12.00	18,000	11,900	1.96	13,356
	215792838	Mixed Ducted and Non-Ducted Indoor Units	18,000	12.65	18,000	11,700	1.96	13,356
FPHMR27A3D	215792839	Non-Ducted Indoor Units	27,000	12.85	27,000	17,600	1.82	19,177
	215792840	Ducted Indoor Units	27,000	11.50	27,000	18,200	1.84	19,177
	215792841	Mixed Ducted and Non-Ducted Indoor Units	27,000	12.20	27,000	18,000	1.82	19,177
FPHMR36A3D	215792846	Non-Ducted Indoor Units	36,000	12.85	36,000	22,600	1.92	26,175
	215792845	Ducted Indoor Units	36,000	12.85	36,000	21,000	1.83	26,175
	215792847	Mixed Ducted and Non-Ducted Indoor Units	36,000	12.85	36,000	21,800	1.87	26,175
FPHMR42A3D	215792843	Non-Ducted Indoor Units	42,000	12.00	48,000	28,200	1.92	27,216
	215792842	Ducted Indoor Units	42,000	11.35	45,000	27,400	1.83	27,216
	215792844	Mixed Ducted and Non-Ducted Indoor Units	42,000	11.80	46,500	27,800	1.87	27,216



FLOATING AIR™ PRO X | MULTI-ZONE ALLOWABLE CONFIGURATIONS

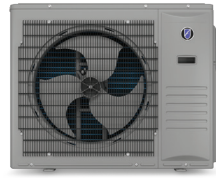
Choose the outdoor unit that is applicable to the number of indoor spaces you want to heat and cool. Mix-and-match flexibility lets you pick the type of indoor units best suited to the application. Choose from wall-mounted, ceiling cassette, or concealed ducted heat pumps.



2 ZONES ONLY

18,000 BTU

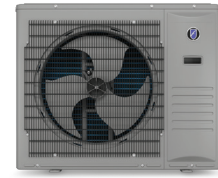
24,000 Btu max. connected capacity



2 OR 3 ZONES

27,000 BTU

36,000 Btu max. connected capacity



2, 3, OR 4 ZONES

36,000 BTU

48,000 Btu max. connected capacity

FPHMR18A3D		
ZONE 1	ZONE 2	TOTAL
7	7	14
7	9	16
7	12	19
9	9	18
9	12	21
12	12	24 (max.)

FPHMR27A3D			
ZONE 1	ZONE 2	ZONE 3	TOTAL
7	7	-	14
7	9	-	16
7	12	-	19
7	18	-	25
9	9	-	18
9	12	-	21
9	18	-	27
9	24	-	33
12	12	-	24
12	18	-	30
18	18	-	36 (max.)
7	7	7	21
7	7	9	23
7	7	12	26
7	7	18	32
7	9	9	25
7	9	12	28
7	9	18	34
7	12	12	31
7	12	18	37
9	9	9	27
9	9	12	30
9	9	18	36 (max.)
9	12	12	33
12	12	12	36 (max.)

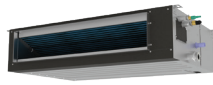
FPHMR36A3D				
ZONE 1	ZONE 2	ZONE 3	ZONE 4	TOTAL
18	18	-	-	36
7	7	7	-	21
7	7	9	-	23
7	7	12	-	26
7	7	18	-	32
7	7	24	-	38
7	9	9	-	25
7	9	12	-	28
7	9	18	-	34
7	9	24	-	40
7	12	12	-	31
7	12	18	-	37
7	12	24	-	43
7	18	24	-	49
9	9	9	-	27
9	9	12	-	30
9	9	18	-	36
9	9	24	-	42
9	12	12	-	33
9	12	18	-	39
9	12	24	-	45
9	18	24	-	51
12	12	12	-	36
12	12	18	-	42
12	12	24	-	48 (max.)
18	18	7	-	43
18	18	9	-	45
18	18	12	-	48 (max.)
7	7	7	7	28
7	7	7	9	30
7	7	7	12	33
7	7	7	18	39
7	7	7	24	45
7	7	9	9	32
7	7	12	12	35
7	7	9	18	41
7	7	9	24	47
7	7	12	12	38
7	7	12	18	44
7	7	12	24	50
7	9	9	9	34
7	9	9	12	37
7	9	9	18	43
7	9	9	24	49
7	9	12	12	40
7	9	12	18	46
7	9	12	24	52
7	12	12	12	43
7	12	12	18	49
9	9	9	9	36
9	9	9	12	39
9	9	9	18	45
9	9	9	24	51
9	9	12	12	42
9	9	12	18	48
9	12	12	12	45
9	12	12	18	51
12	12	12	12	48 (max.)

■ Floating Air™ Multi-zone allowable combinations that exceed our 100% ratio.

INDOOR UNITS

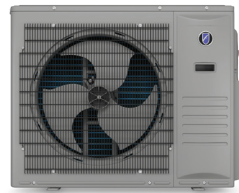
 Wall-mounted	MODEL	BTU
	FAHFW07A3D	7,000
	FAHFW09A3D	9,000
	FAHFW12A3D	12,000
	FAHFW18A3D	18,000
	FAHFW24A3D	24,000

 Ceiling cassette	MODEL	BTU
	FPHFC09A3D	9,000
	FPHFC12A3D	12,000
	FPHFC18A3D	18,000
	FPHFC24A3D	24,000

 Concealed ducted	MODEL	BTU
	FPHFD09A3A	9,000
	FPHFD12A3A	12,000
	FPHFD18A3A	18,000
	FPHFD24A3A	24,000

 Air handler	MODEL	BTU
	FPHFA18A3D	18,000
	FPHFA24A3D	24,000

FLOATING AIR™ PRO X | MULTI-ZONE ALLOWABLE CONFIGURATIONS



3, 4, OR 5 ZONES

42,000 BTU

54,000 Btu max. connected capacity

FPHMR42A3D					
ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	TOTAL
7	7	7	-	-	21
7	7	9	-	-	23
7	7	12	-	-	26
7	7	18	-	-	32
7	7	24	-	-	38
7	9	9	-	-	25
7	9	12	-	-	28
7	9	18	-	-	34
7	9	24	-	-	40
7	12	12	-	-	31
7	12	18	-	-	37
7	12	24	-	-	43
7	18	18	-	-	43
7	18	24	-	-	49
9	9	9	-	-	27
9	9	12	-	-	30
9	9	18	-	-	36
9	9	24	-	-	42
9	12	12	-	-	33
9	12	18	-	-	39
9	12	24	-	-	45
9	18	18	-	-	45
9	18	24	-	-	51
12	12	12	-	-	36
12	12	18	-	-	42
12	12	24	-	-	48
12	18	18	-	-	48
12	18	24	-	-	54
7	7	7	7	-	28
7	7	7	9	-	30
7	7	7	12	-	33
7	7	7	18	-	39
7	7	7	24	-	45
7	7	9	9	-	32
7	7	9	12	-	35
7	7	9	18	-	41
7	7	9	24	-	47
7	7	12	12	-	38
7	7	12	18	-	44
7	7	12	24	-	50
7	7	18	24	-	56
7	9	9	9	-	34
7	9	9	12	-	37
7	9	9	18	-	43
7	9	9	24	-	49
7	9	12	12	-	40
7	9	12	18	-	46
7	9	12	24	-	52
7	9	18	24	-	58
7	12	12	12	-	43
7	12	12	18	-	49
7	12	12	24	-	55
9	9	9	9	-	36
9	9	9	12	-	39
9	9	9	18	-	45
9	9	9	24	-	51
9	9	12	12	-	42
9	9	12	18	-	48
9	9	12	24	-	54 (max.)
9	9	18	24	-	60
9	12	12	12	-	45
9	12	12	18	-	51
9	12	12	24	-	57
12	12	12	12	-	48
12	12	12	18	-	54 (max.)

FPHMR42A3D					
ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	TOTAL
7	7	7	7	7	35
7	7	7	7	9	37
7	7	7	7	12	40
7	7	7	7	18	46
7	7	7	7	24	52
7	7	7	9	9	39
7	7	7	9	12	42
7	7	7	9	18	48
7	7	7	9	24	54 (max.)
7	7	7	12	12	45
7	7	7	12	18	51
7	7	9	9	9	41
7	7	9	9	12	44
7	7	9	9	18	50
7	7	9	12	12	47
7	7	12	12	12	50
7	9	9	9	9	43
7	9	9	9	12	46
7	9	9	9	18	52
7	9	9	12	12	49
7	9	12	12	12	52
9	9	9	9	9	45
9	9	9	9	12	48
9	9	9	9	18	54 (max.)
9	9	9	12	12	51
9	9	12	12	12	54 (max.)

TECH SPECS

REFRIGERATION LINE SETS (REQUIRED) OUTSIDE DIMENSIONS & MIN./MAX. LENGTHS

FLOATING AIR™ PRO & PRO X SERIES WALL-MOUNTED						
Model Set	Liquid	Suction	Lineset Kit	Lineset Kit	Min. (ft.)	Max. Each/ Total (ft.)
FPHW091C	1/4	3/8	T32150 - 15'	T32350 - 35'	10	66
FPHW121C	1/4	3/8	T32150 - 15'	T32350 - 35'	10	66
FPHW093D	1/4	3/8	T32150 - 15'	T32350 - 35'	10	66
FPHW123D	1/4	3/8	T32150 - 15'	T32350 - 35'	10	66
FPHW183D	1/4	1/2	T42150 - 15'	T42250 - 25'	10	98
FPHW243D	3/8	5/8	T53250 - 25'	T53350 - 35'	10	98
FLOATING AIR™ SELECT WALL-MOUNTED						
FSHW091C	1/4	3/8	T32150 - 15'	T32350 - 35'	10	66
FSHW121C	1/4	3/8	T32150 - 15'	T32350 - 35'	10	66
FSHW183D	1/4	1/2	T42150 - 15'	T42350 - 35'	10	98
FSHW243D	3/8	5/8	T53250 - 25'	T53350 - 35'	10	98
FSHW363D	3/8	5/8	T53250 - 25'	T53350 - 35'	15	98
FLOATING AIR™ PRO X SERIES CASSETTE SINGLE-ZONE						
FPHC093D	1/4	3/8	T32150 - 15'	T32350 - 35'	25	82
FPHC123D	1/4	3/8	T32150 - 15'	T32350 - 35'	25	82
FPHC183D	1/4	1/2	T42150 - 15'	T42250 - 25'	25	82
FPHC243D	3/8	5/8	T53250 - 25'	T53350 - 35'	25	164
FPHC363D	3/8	3/4	T63500 - 50'		25	164
FLOATING AIR™ PRO X SERIES THE INSIDER® SINGLE-ZONE CONCEALED DUCTED						
FPHD093D	1/4	3/8	T32150 - 15'	T32350 - 35'	25	82
FPHD123D	1/4	3/8	T32150 - 15'	T32350 - 35'	25	82
FPHD183D	1/4	1/2	T42150 - 15'	T42250 - 25'	25	82
FPHD243D	3/8	5/8	T53250 - 25'	T53350 - 35'	25	164
FPHD363D	3/8	3/4	T63500 - 50'		25	164
FLOATING AIR™ PRO X SERIES MULTI-ZONE OUTDOOR						
FPHMR18A3D	1/4	3/8	T32150 - 15'	T32350 - 35'	25	82/164
FPHMR27A3D	1/4	3/8	T32150 - 15'	T32350 - 35'	25	66/230
FPHMR36A3D	1/4	3/8	T32150 - 15'	T32350 - 35'	25	66/230
FPHMR42A3D	1/4	3/8	T32150 - 15'	T32350 - 35'	25	66/262

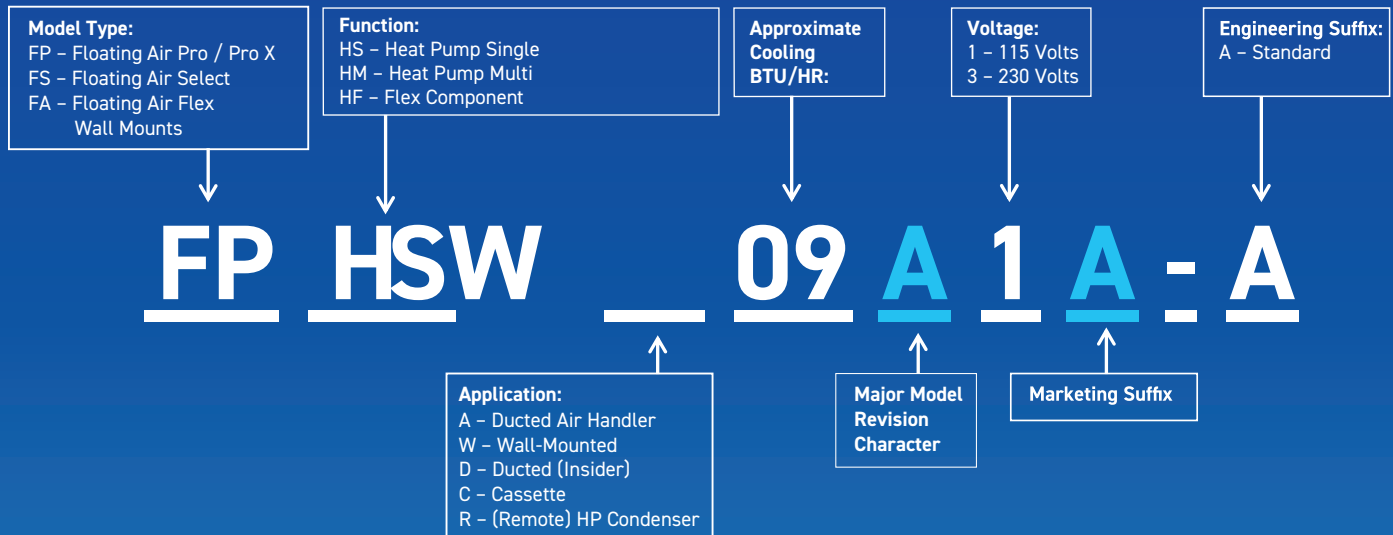
AIR HANDLER REFRIGERATION LINE SET INFORMATION COMING SOON.

TORQUE WRENCH SETTINGS

Outside Diameter		Torque	
mm	in.	ft.-lbs.	N·m
6.35	1/4	13 – 18	17.6 – 24.5
9.52	3/8	25 – 30	33.3 – 41.2
12.7	1/2	40 – 47	53.9 – 64.7
15.88	5/8	45 – 59	61.7 – 80.4

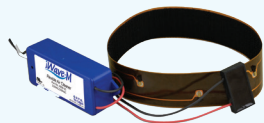
MODEL IDENTIFICATION GUIDE

(PRELIMINARY)



ACCESSORIES

FreshAir® IAQ (Optional)



FreshAir Purifier APWM1 by iWave® – Optional accessory for all wall-mounted ductless models that kills mold, bacteria and viruses—while effectively removing odors and VOCs.

Wall Controllers (Optional)



FPWC1 – SKU: B23-286

Optional hard-wired controller for Floating Air wall-mounted and cassette indoor models. Included with concealed ducted models. Not compatible with AHU indoor models. See your Friedrich representative for options.



DSSXEMWRTA4 – SKU: B22-969

Optional wireless energy management thermostat with occupancy sensor. For Floating Air Pro, single- and multi-zone models.

Sensors (Optional, Depending Upon Model)



ADS01 – SKU: G38-616

Optional A2L sensor for Floating Air FAHMMW07A3D, FAHFW09A3D, and FAHFW12A3D 230V indoor wall-mounted.

See Installation and Operational Manual for additional information & requirements.

FRIEDRICH® FLOATING AIR™

FEATURES AT A GLANCE



Cooling & Heating Efficiencies Up To:
25.0 SEER2 / 13.6 EER2 / 11.0 HSPF2

Cooling & Heating Capacities*:

- 9–36K nominal BTU (single-zone)
- 18–42K nominal BTU (multi-zone)

Sound Rating:

- Indoor units – As low as 32 dB(A)
- Outdoor units – As low as 53 dB(A)

Compressor Type: Precision Inverter®
variable speed

ENERGY STAR® Heat Pump Certified:
Yes – some Select and all Pro and Pro X models

**ENERGY STAR® Cold Climate Heat Pump
Certified:** Yes – all Pro and Pro X models

Refrigerant Type:

- Low-GWP R-454B (Pro and Pro X models)
- Low-GWP R-32 (Select models)

Key Features:

- **FastPro®** Easy-service Design (wall-mounted models only)
- Built-in Wi-Fi with ComfortPro mobile app (wall-mounted and ceiling cassette models only)
- Precision Inverter® technology
- Extreme Heat Pump Operation (Pro X models only)
- Diamonblue™ Advanced Corrosion Protection
- FreshAir® IAQ ready

Additional Standard Features:

- Auto changeover (Single-zone only)
- Wall controller option with 7-day programmability
- 24-hour programmable timer
- Washable air filter
- 4-way auto swing (wall-mounted and ceiling cassette models only)

Limited Warranty:

- Parts – 7 years (standard) or 10 years (registration required)
- Compressor – 10 years (standard)

**See model series for details*



FRIEDRICH

Friedrich.com

Delivering Boldly Crafted Comfort

Founded in 1883, Friedrich Air Conditioning Co. is an expert in providing residential and commercial comfort solutions—from premium room air conditioners to whole-home / whole-building equipment and more. Designed to be among the most advanced and quietest available, all Friedrich products are engineered to deliver precise temperature control to make spaces comfortable—quickly and efficiently.



Friedrich USA

5600 Old Greenwood Road
Fort Smith, Arkansas 72908



Friedrich Canada Ltd. / Ltée

125 Edgeware Road, Unit 1
Brampton, Ontario L6Y 0P5

Rheem Sales Company, Inc. manufactures the Friedrich brand of residential heating & cooling products. In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.



Many Friedrich Floating Air™ Pro and Pro X models have earned our Sustainability Standout® seal, indicating that they are among the best of the best. We created the seal to help you more easily find the products that save energy, save money and save the planet.

Due to continuing research in new energy-saving technology, specifications are subject to change without notice. Your energy costs will depend on your utility rates and use. The estimated energy cost is based on a electricity cost of \$.13 per kWh. For more information, visit www.ftc.gov/energy.

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PRECISE HOME COMFORT

ALL-YEAR-ROUND

BREEZE™
THE UNIVERSAL HEAT PUMP



PRECISION
INVERTER®



FRIEDRICH® BREEZE™ SERIES INVERTER-DRIVEN UNIVERSAL DUCTED HEAT PUMPS

The Friedrich Breeze Line offers the easiest way to upgrade from traditional heating and cooling equipment to an efficient inverter heat pump system for precise comfort, month after month. Plus, it's universal, so whether you're looking for a new system and pairing it with a Friedrich Breeze Air Handler—or integrating it into nearly any existing HVAC system along with many rated third-party coils, furnaces, or air handlers—you can kick back and relax in total comfort.

 **FRIEDRICH**

Come Home to Comfort You Can Count On



You should never have to compromise when it comes to home comfort—and the Friedrich® Breeze™ Inverter-Driven Universal Ducted Heat Pump has you covered. Designed to save space, lower energy bills, and operate quietly—in addition to being eligible for federal and local tax credits and rebates—**Breeze does it all.**



Precision Comfort

Breeze heat pumps feature a Friedrich-exclusive Precision Inverter® compressor that ramps up quickly with Soft-Start™ technology to reach the indoor set temperature, then maintains precise temperature control for perfect comfort.



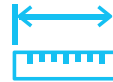
Universal Compatibility

Breeze also works with nearly all existing HVAC systems¹—regardless of brand—and is compatible with most 24V thermostats or BMS, making it the easy choice for home comfort. Plus, contractors will love how simple it is to install.



Energy Savings

Inverter technology delivers efficiencies of up to 20 SEER2 and 9.5 HSPF2 for lower energy bills month after month. Breeze is also potentially eligible for federal and local tax credits and rebate incentives, so the savings can keep coming.



Installs Nearly Anywhere

Breeze also provides flexibility when it comes to installation, accommodating long lineset runs of up to 246* feet and height differentials of up to 98* feet—factor in its compact footprint, and you can feel confident it will fit where you need it to.

*Based on Premier prelim specifications, subject to change.



Flexible & Sustainable Design



From its smaller physical footprint to its smaller environmental footprint, the Breeze Line was designed to be the perfect heat pump for plumbers, homeowners and mother nature, too.



Space-saving Slim Design

With a 40% reduction in footprint compared to traditional top-discharge outdoor units, Breeze maximizes outdoor space while delivering powerful performance.



Quiet Indoors & Out

With great performance comes surprisingly little sound. Friedrich Breeze features superior sound insulation—with sound levels as low as 38 dB—so you can enjoy ultra-quiet comfort.



Cold-Climate Certified

When paired with a Friedrich air handler, Premier 2-, 3- and 4-ton models have earned ENERGY STAR® Cold Climate certification. To earn the designation, heat pumps must meet or exceed a series of criteria designated by the Department of Energy for cold climate operation.



Earth-friendly Design

All Breeze units use low Global Warming Potential (GWP) A2L refrigerant—helping to contribute to our ongoing sustainability goals.



Standing Out as a Cut Above

Many Friedrich Breeze models have earned our Sustainability Standout® seal, indicating that they are among the best of the best. We created the seal to help you more easily find the products that save energy, save money and save the planet.

The Possibilities Are (almost) Endless

BREEZE™

A benefit of Breeze's universal compatibility is that it's not only compatible with Friedrich air handlers and furnaces, but also those from other brands¹. So whether it's used as a part of a new matched system or a replacement along with a rated R-454B coil, Breeze works in nearly any home.

Friedrich Breeze™
Universal Heat Pumps



FLEXIBLE

Nearly Any
24V
Thermostat

SYSTEM

DESIGN



COMPATIBLE WITH

Friedrich
Breeze™
Air Handlers

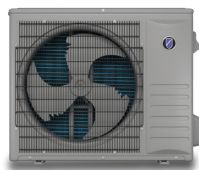
Friedrich &
Non-Friedrich
Furnaces
(requires rated
R-454B coil)

Many rated
R-454B
Non-Friedrich
Air Handlers¹

Available Breeze™ Models

BREEZE™ Premier

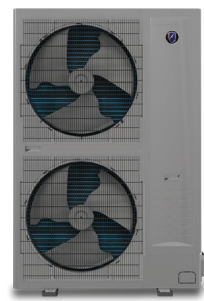
The Friedrich Breeze Premier line delivers the highest energy efficiencies for custom comfort and continuous savings.












2-Ton



3-Ton

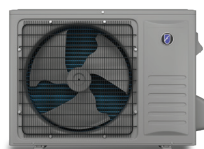


4-Ton

Outdoor Unit	FPHFR24A3D	FPHFR36A3D	FPHFR48A3D
Compatible Friedrich Air Handlers	FPHFA24A3D	FPHFA36A3D	FPHFA48A3D
ENERGY STAR® Certification	  	  	  

BREEZE™ Select

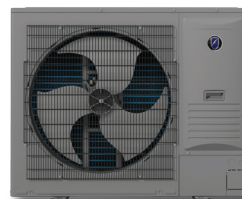
The Friedrich Breeze Select line offers high efficiency operation and the same Friedrich quality that contractors trust.



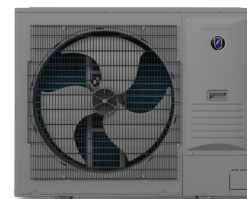
2-Ton







3-Ton



4-Ton



5-Ton

Outdoor Unit	WFPU17Y243D	WFPU17Y363D	WFPU17Y483D	WFPU17Y603D
Compatible Friedrich Air Handlers	WFH24Y193D	WFH36Y193D	WFH48Y223D	WFH60Y223D
ENERGY STAR® Certification	 		 	

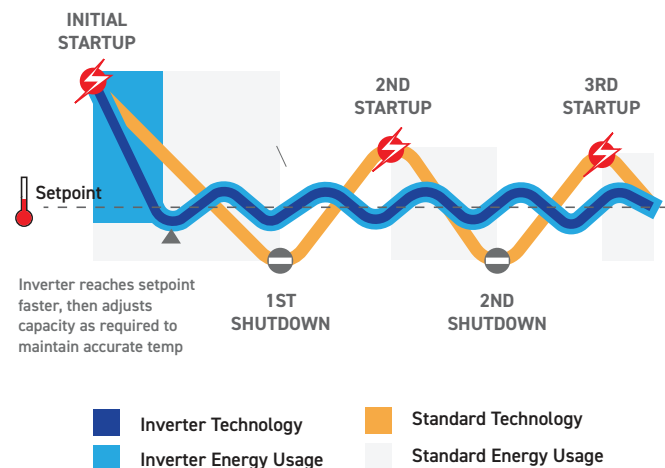


Never Compromise on Comfort

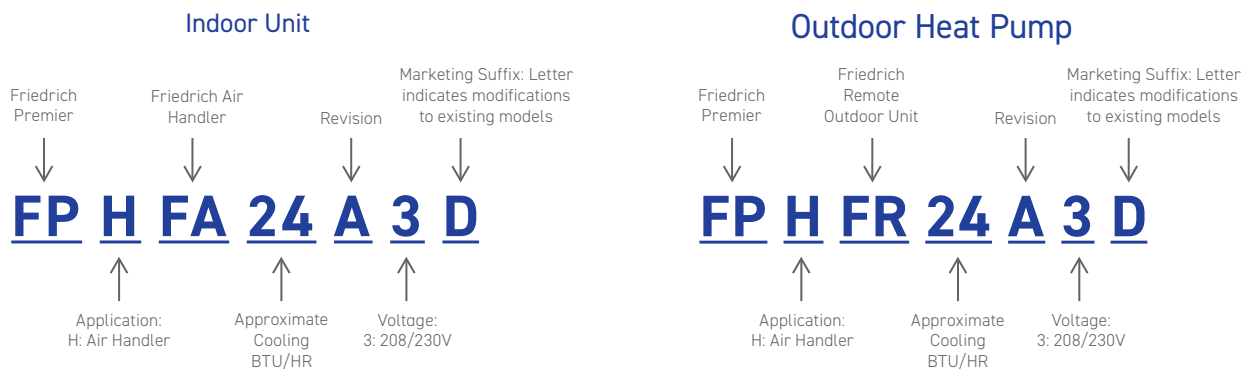
Inverter technology smoothly and quickly ramps up operation, continuously adjusting frequency to match your comfort preferences while also helping to increase overall system longevity and reducing your energy bills.

Traditional on/off systems take a long time to reach (and then pass beyond) the desired temperature but inverter-driven heat pumps like Friedrich Breeze can self-adjust, providing consistent room temperature—even when the temperature outdoors dips below freezing.

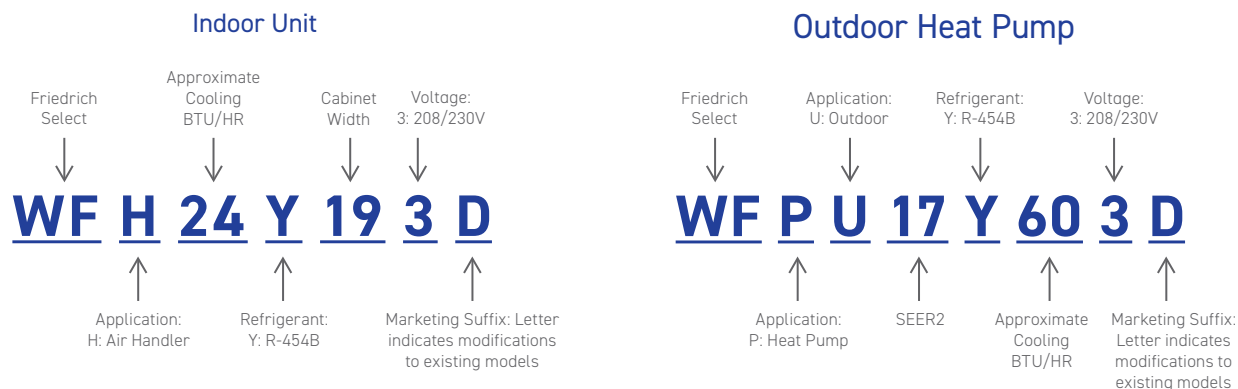
Additionally, the frequent on/off operation of traditional units puts strain on both the unit and the power grid during hot summers. Friedrich Soft-Start™ technology starts the compressor with significantly less strain at start up, saving energy.



Premier Model Identification Guide



Select Model Identification Guide



Create a Perfect Match

Although their universal design allows them to work with nearly any furnace or air handler by using a rated R-454B coil, Breeze™ Heat Pumps work best with Breeze air handlers. They're a match made in heat pump heaven.



Optional Electric Heaters

AUX5KWA (SKU - L83-044) – 2T, 3T, 4T, 5T

AUX7KWA (SKU - L83-045) – 2T, 3T, 4T, 5T

AUX10KWA (SKU - L83-041) – 2T, 3T, 4T, 5T

AUX15KWA (SKU - L83-042) – 3T, 4T, 5T

AUX20KWA (SKU - L83-043) – 4T, 5T



ECM Motor

Variable speed ECM motors



Superior Heat Exchange

Premier models – 100% aluminum tubing

Select models – 100% copper tubing



Advanced Fin Design

Provides improved heat exchange and coated for corrosion resistance



Leak Detection

A nitrogen charge and factory-installed leakage indicators warn against leaks caused prior to installation; factory-installed refrigerant leak detection eliminates the need for complicated standalone A2L monitors



24V Thermostat Compatibility

Breeze works with most 24V thermostats and pairs perfectly with the Friedrich 24V Thermostat, a smart thermostat that helps homeowners control their Breeze unit from across the room or across the country with the ComfortPro mobile app

Get Homeowners Quickly Back to Comfort

If the homeowner's existing furnace or air handler still has life left in it and replacing the whole system is not an option, you can pair a Breeze Heat Pump and a rated R-454B cased or uncased coil to simplify installation and get the homeowner comfortable again in no time.

Friedrich Support

Makes Installation & Servicing...Well....a Breeze

Not only are Friedrich® Breeze™ Heat Pumps designed to be easy to install, but they are also backed by premium support so you can get the unit up and running as quickly and efficiently as possible.



Collateral & Literature

Contractors can access any related documents in an exclusive digital and print library



Onboarding & Training

Regional tech managers are available to help troubleshoot and train your teams



Industry-best Warranty

Feel confident recommending and installing Friedrich equipment with premier-level warranty support



Dedicated Sales Team

An exclusive and dedicated team of sales professionals are available to support your growth

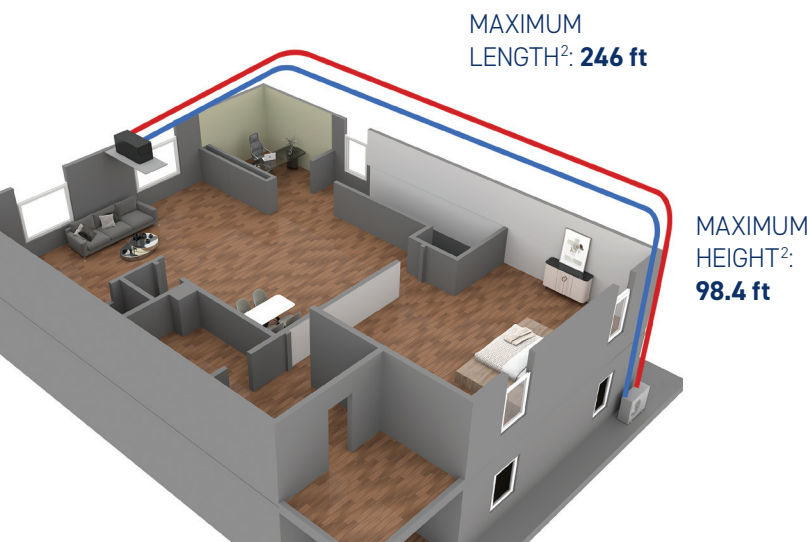


Scan to watch video on

BREEZE™
THE UNIVERSAL HEAT PUMP

Comfort & Convenience Should Be Universal

The Breeze operates at its highest efficiency when part of a matched Friedrich® heating and cooling system. However, when used with a rated R-454B coil, it's fully compatible with existing air handlers and gas or electric furnaces from almost any brand as well as with most 24V thermostats or BMS, making it a simple and convenient replacement.



Perfect For Any Building Layout

Breeze's high-performance compressor can accommodate linesets spanning distances of up to 246' (Premier 4 ton) and height differentials of up to 98' (excl. Select 2 and 3 ton), ensuring that Breeze can easily heat and cool a variety of building layouts.

Making Installation Easier Than Ever

Adding to their convenience, all Friedrich Breeze air handlers feature a multi-position design, allowing them to be installed for upflow, downflow, left, or right to accommodate specific space requirements, whether installed in an attic, crawlspace, or closet—with no downflow kit required on new models. Plus, all Breeze air handlers also come with factory-installed A2L sensors.



Specifications

BREEZE™ Premier

Preliminary



2-Ton



3-Ton



4-Ton

SYSTEM COMPONENTS	Indoor Model	Unit	FPHFA24A3D	FPHFA36A3D	FPHFA48A3D
	SKU		—	—	—
	Outdoor Model		FPHFR24A3D	FPHFR36A3D	FPHFR48A3D
	SKU		B50-600	B50-601	—
ENVIRONMENTAL	ENERGY STAR® Standard	Y/N	Y	Y	Y
	ENERGY STAR® Cold Climate	Y/N	Y	Y	Y
	A2L Sensor	Y/N	Y	Y	Y
ELECTRICAL	Power Supply	V/Hz/ph	208-230/60/1	208-230/60/1	208-230/60/1
	Rated Current – Indoor	A	9.4	14	18.8
	Thermostat Type		Wired	Wired	Wired
	Rated Current – Outdoor	A	8.7	13	17.8
	MCA – Outdoor (Indoor powered by outdoor)	A	22	30	37
	Max. Circuit Breaker	A	30	50	50
	Communication Cable		4 × 18AWG	4 × 18AWG	4 × 18AWG
COOLING PERFORMANCE	Rated Capacity @ 95°F	Btu/h	24,000	36,000	48,000
	Cooling Capacity Range (Min.–Max.)	Btu/h	10,500–31,000	12,000–45,000	16,800–61,000
	Cooling Capacity Range (Min.–Max.)	W	3,077–9,085	3,517–13,189	4,924–17,878
	Capacity @ 115°F	Btu/h	19,200	28,800	38,400
	Power Input	W	2,050	3,070	4,100
	Current	A	9.4	14	18.8
	EER2 @ 95°F	Btu/h/W	11.7	11.7	11.7
	SEER2	Btu/h/W	18	19	19
	Operating Temp. Range – Indoor	°F (°C)	61–86 (16–30)	61–86 (16–30)	61–86 (16–30)
	Operating Temp. Range – Outdoor	°F (°C)	5–125 (–15–52)	5–125 (–15–52)	5–125 (–15–52)
HEATING PERFORMANCE	Rated Capacity at 47°	Btu/h	24,000	36,000	48,000
	Heating Capacity Range (Min.–Max.)	Btu/h	11,700–33,000	11,000–45,000	15,800–65,000
	Heating Capacity Range (Min.–Max.)	W	3,428–9,670	3,324–13,189	4,630–19,050
	Power Input	W	1,900	2,800	3,900
	Current	A	8.7	13	17.8
	COP @ 47°	W/W	3.7	3.77	3.6
	COP @ 5°	W/W	1.9	2	1.8
	HSPF2	Btu/h/W	10	9	9
	Rated Heating Capacity @ 17°F (–8.3°C)	Btu/h	18,500	26,000	34,000
	Max. Heating Capacity @ 17°F (–8.3°C)	Btu/h	24,000	36,000	48,000
	Max. Heating Capacity @ 5°F (–15°C)	Btu/h	24,000	36,000	48,000
	Max. Heating Capacity @ –5°F (–20.5°C)	Btu/h	16,800	28,800	38,000
	Max. Heating Capacity @ –13°F (–25°C)	Btu/h	14,400	25,200	33,600
	Max. Heating Capacity @ –22°F (–30°C)	Btu/h	10,000	13,000	15,000
	Operating Temp. Range – Indoor	°F (°C)	61–86 (16–30)	61–86 (16–30)	61–86 (16–30)
	Operating Temp. Range – Outdoor	°F (°C)	–13–75 (–25–24)	–13–75 (–25–24)	–13–75 (–25–24)
	INDOOR FAN MOTOR (Multi-speed ECM)	Output	HP	1/2	7/8
RLA		A	2.6	3.8	5.4
Speed		r/min.	350–1,400	350–1,400	350–1,400
Indoor Airflow Rated		CFM (m³/h)	800 (1,360)	1,118 (1,900)	1,600 (2,720)
Indoor Airflow (Min.–Max.)		CFM (m³/h)	529–823 (900–1,400)	736–1,176 (1,250–2,000)	1,058–1,647 (1,800–2,800)
STATIC PRESSURE	Indoor Airflow Ultra-low Speed	CFM (m³/h)	529 (900)	736 (1,250)	1,058 (1,800)
	Rated	in. W.C. (Pa)	0.58 (145)	0.58 (145)	0.58 (145)
	Range	in. W.C. (Pa)	0–0.8 (200)	0–0.8 (200)	0–0.8 (200)
OUTDOOR FAN MOTOR	Output	HP	1/7	1/3	1/5
	RLA	A	0.8	1.5	1
	Speed	r/min.	880	850	890
	Outdoor Airflow (High)	CFM (m³/h)	2,235 (3,800)	3,350 (5,700)	4,820 (8,200)
COMPRESSOR	Input	W	2,575	3,800	5,830
	Rated Current	A	10.8	14.6	21.2
	Compressor	A	15	19	29
REFRIGERANT (R-454B)	Refrigerant Oil	ml	FV68S / 900	FV68S / 1,200	VG75 / 1,700
	Refrigerant Charge	oz. (kg)	88.1 (2.3)	112.9 (3.2)	169.3 (4.8)
	Factory Pre-charge	ft. (m)	25 (7.5)	25 (7.5)	25 (7.5)
	Additional Charge for Each ft.	oz./ft.	0.38	0.38	0.38
	Liquid Side / Gas Side	in. (mm)	3/8" / 5/8" (Ø9.52 / Ø15.88)	3/8" / 5/8" (Ø9.52 / Ø15.88)	3/8" / 3/4" (Ø9.52 / Ø19.05)
	Max. Pipe Length	ft. (m)	164 (50)	164 (50)	246 (75)
	Max. Difference in Level	ft. (m)	98 (30)	98 (30)	98 (30)
	Design Pressure (H / L)	PSIG (MPa)	600 / 415 (4.14 / 2.86)	600 / 415 (4.14 / 2.86)	600 / 415 (4.14 / 2.86)
MISC.	Indoor Noise Level (High)	dB(A)	51	60	62
	Drainage Water Pipe Diameter	in.	1-1/4"	1-1/4"	1-1/4"
	Outdoor Throttle Type		EEV	EEV	EEV
	Moisture Removal	pints/hr (L/hr)	4.64 (2.2)	8.5 (4)	13.15 (6.23)
NET DIMENSIONS & WEIGHTS	Indoor Unit Dimensions (W×H×D)	in.	17-4/8×45×21	19-5/8×46-1/8×21-5/8	22×53-7/8×24
		mm	445×1,143×534	500×1,170×550	560×1,370×610
	Indoor Unit Packing (L×W×H)	in.	20-4/8×25-2/8×49-6/8	22-1/2×49-5/8×25-3/8	25-2/8×55-4/8×28
		mm	520×1,265×640	570×1,260×645	640×1,410×710
	Indoor Unit Net Weight	lbs. (kg)	130.5 (59.2)	135.1 (61.3)	180.6 (82)
	Indoor Unit Shipping Weight	lbs. (kg)	153.6 (69.7)	158.1 (71.7)	204.4 (92.7)
	Outdoor Unit Dimensions (W×H×D)	in.	35-3/8×29-4/8×13-3/8	43-2/8×34-4/8×17-6/8	38-3/8×57-4/8×13
		mm	900×750×340	1,100×875×450	975×1,460×330
	Outdoor Unit Packing (L×W×H)	in.	41×32-5/8×18-1/8	45-7/8×39-4/8×21-2/8	44-1/8×62-5/8×16-6/8
		mm	1,040×830×460	1,165×1,005×540	1,120×1,590×435
	Outdoor Unit Net Weight	lbs. (kg)	123.4 (56)	185.2 (84)	244.7 (111)
	Outdoor Unit Shipping Weight	lbs. (kg)	132.3 (60)	209.4 (95)	266.8 (121)

NOTE: Pipe lengths over 100 feet = will require an increase in communication cable to 16 AWG.
Lengths over 262 feet will require an increase in communication cable to 14 AWG.



2-Ton

3-Ton

4-Ton

5-Ton

SYSTEM COMPONENTS	Indoor Model	Unit	WFH24Y193D	WFH36Y193D	WFH48Y223D	WFH60Y223D
	SKU		B50-675	B50-676	B50-677	B50-678
	Outdoor Model		WFPU17Y243D	WFPU17Y363D	WFPU17Y483D	WFPU17Y603D
	SKU		B50-679	B50-680	B50-681	B50-682
ENVIRONMENTAL	ENERGY STAR® Standard	Y/N	N	N	N	N
	ENERGY STAR® Cold Climate	Y/N	Y	N	Y	N
	A2L Sensor	Y/N	Y	Y	Y	Y
ELECTRICAL	Power Supply	V/Hz/ph	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
	Rated Current – Indoor	A	2.6	3.8	5.4	5.4
	MOP – Indoor	A	10	10	10	10
	MCA – Indoor	A	3.3	4.8	6.8	6.8
	Thermostat Type		24V	24V	24V	24V
	Rated Current – Outdoor	A	8.77	13.09	17.22	20.84
	MCA – Outdoor	A	16	21	33	33
	Max. Circuit Breaker	A	25	30	50	50
	Communication Cable		6 × 18AWG	6 × 18AWG	6 × 18AWG	6 × 18AWG
COOLING PERFORMANCE	Rated Capacity @ 95°F	Btu/h	24,000	35,000	48,000	54,000
	Cooling Capacity Range (Min.–Max.)	Btu/h	6,000–24,600	11,000–36,500	14,000–48,600	14,000–54,000
	Cooling Capacity Range (Min.–Max.)	W	1,760–7,200	3,223–10,700	4,100–14,200	4,100–15,800
	Capacity @ 115°F	Btu/h	22,600	28,200	40,000	44,400
	Power Input	W	2,616	3,104	4,720	5,246
	Current	A	11.6	13.72	22	24
	EER2 @ 95°F	Btu/h/W	10	9.8	10	8.8
	SEER2	Btu/h/W	18	17.5	18	17
	Operating Temp. Range – Indoor	°F (°C)	45–95 (7–35)	45–95 (7–35)	45–95 (7–35)	45–95 (7–35)
HEATING PERFORMANCE	Operating Temp. Range – Outdoor	°F (°C)	5–115 (–15–46)	5–115 (–15–46)	5–115 (–15–46)	5–115 (–15–46)
	Rated Capacity @ 47°F	Btu/h	24,000	36,000	48,000	55,000
	Heating Capacity Range (Min.–Max.)	Btu/h	3,750–25,500	6,100–39,400	7,490–49,300	7,490–57,300
	Heating Capacity Range (Min.–Max.)	W	1,100–7,471	1,787–11,544	2,194–14,444	2,190–16,789
	Power Input	W	1,917	2,859	3,761	4,554
	COP @ 47°F	W/W	3.67	3.69	3.74	3.54
	COP @ 5°F	W/W	2	2	2	1.95
	HSPF2	Btu/h/W	9	9	9	8.5
	Rated Heating Capacity @ 17°F (–8.3°C)	Btu/h	17,000	22,200	32,200	33,200
INDOOR FAN MOTOR (Multi-speed ECM)	Max. Heating Capacity @ 5°F (–15°C)	Btu/h	18,000	22,000	35,000	36,000
	Max. Heating Capacity @ –5°F (–20.5°C)	Btu/h	11,400	18,000	26,600	29,600
	Operating Temp. Range – Indoor	°F (°C)	45–95 (7–35)	45–95 (7–35)	45–95 (7–35)	45–95 (7–35)
	Operating Temp. Range – Outdoor	°F (°C)	–4–75 (–20–24)	–4–75 (–20–24)	–4–75 (–20–24)	–4–75 (–20–24)
	Output	HP	1/3	1/2	3/4	3/4
	RLA	A	2.4–2.6	3.6–3.8	5.0–5.4	5.0–5.4
	Speed	r/min.	350–1,400	350–1,400	350–1,400	350–1,400
	Indoor Airflow Rated	CFM (m³/h)	800 (1,360)	1,120 (1,905)	1,706 (2,900)	1,706 (2,900)
	Indoor Airflow (Min.–Max.)	CFM (m³/h)	530–800 (902–1,360)	785–1,120 (1,334–1,905)	1,157–1,706 (1,967–2,900)	1,157–1,706 (1,967–2,900)
STATIC PRESSURE	Indoor Airflow Ultra-low Speed	CFM (m³/h)	530 (902)	785 (1,334)	1,157 (1,967)	1,157 (1,967)
	Rated	in. W.C. (Pa)	0.58 (145)	0.58 (145)	0.58 (145)	0.58 (145)
	Range	in. W.C. (Pa)	0–0.8 (0–200)	0–0.8 (0–200)	0–0.8 (0–200)	0–0.8 (0–200)
OUTDOOR FAN MOTOR	Output	HP	1/12	1/7	1/3	1/3
	RLA	A	0.32	0.8	1.5	1.5
	Speed	r/min.	880	880	850	850
COMPRESSOR	Outdoor Airflow (High)	CFM (m³/h)	3,150 (1,853)	3,800 (2,235)	5,700 (3,350)	5,700 (3,350)
	Input	W	1,500	1,805	2,410	2,410
	Rated Current	A	4.6	8.2	5.18	5.18
REFRIGERANT (R-454B)	Compressor	A	12	15	23	23
	Refrigerant Oil	ml	FV68S / 950	VG74 / 920	VG74 / 1,200	VG74 / 1,200
	Refrigerant Charge	oz. (kg)	70.5 (2.0)	88.2 (2.5)	137.6 (3.9)	137.6 (3.9)
	Factory Pre-charge	ft. (m)	25 (7.6)	25 (7.6)	25 (7.6)	25 (7.6)
	Additional Charge for Each ft.	oz./ft.	0.38	0.38	0.38	0.38
	Liquid Side / Gas Side	in. (mm)	3/8" / 5/8" (Ø9.52 / Ø15.88)	3/8" / 5/8" (Ø9.52 / Ø15.88)	3/8" / 3/4" (Ø9.52 / Ø19.05)	3/8" / 3/4" (Ø9.52 / Ø19.05)
	Max. Pipe Length	ft. (m)	100 (30)	115 (35)	130 (40)	130 (40)
	Max. Difference in Level	ft. (m)	66 (20)	80 (25)	100 (30)	100 (30)
	Design Pressure (H/L)	PSIG (MPa)	600 / 380 (4.14 / 2.62)	600 / 380 (4.14 / 2.62)	600 / 380 (4.14 / 2.62)	600 / 380 (4.14 / 2.62)
MISC.	Indoor Noise Level (High)	dB(A)	55	57	57	57
	Drainage Water Pipe Diameter	in.	3/4"	3/4"	3/4"	3/4"
	Outdoor Throttle Type		EEV	EEV	EEV	EEV
	Moisture Removal	pints/hr (L/hr)	4.6 (2.2)	9.5 (4.5)	13.2 (6.2)	15.8 (7.5)
NET DIMENSIONS & WEIGHTS	Indoor Unit Dimensions (W×H×D)	in.	19-5/8×46-1/8×21-5/8	19-5/8×46-1/8×21-5/8	22×53-7/8×24	22×53-7/8×24
		mm	500×1,170×550	500×1,170×550	560×1,370×610	560×1,370×610
	Indoor Unit Packing (L×W×H)	in.	22-1/2×49-5/8×25-3/8	22-1/2×49-5/8×25-3/8	25-1/4×55-1/2×28	25-1/4×55-1/2×28
		mm	570×1,260×645	570×1,260×645	640×1,410×710	640×1,410×710
	Indoor Unit Net Weight	lbs. (kg)	130.5 (59.2)	135.1 (61.3)	180.6 (82)	180.6 (82)
	Indoor Unit Shipping Weight	lbs. (kg)	153.6 (69.7)	158.1 (71.7)	204.4 (92.7)	204.4 (92.7)
	Outdoor Unit Dimensions (W×H×D)	in.	33-7/8×26-3/8×12-1/4	35-3/8×29-1/2×13-3/8	43-1/4×34-1/2×17-3/4	43-1/4×34-1/2×17-3/4
		mm	860×670×310	900×750×340	1,100×875×450	1,100×875×450
	Outdoor Unit Packing (L×W×H)	in.	39×28-3/4×17-3/4	41×32-5/8×18-1/8	45-7/8×39-1/2×21-1/4	45-7/8×39-1/2×21-1/4
NET DIMENSIONS & WEIGHTS		mm	990×730×450	1,040×830×460	1,165×1,005×540	1,165×1,005×540
	Outdoor Unit Net Weight	lbs. (kg)	104.5 (47)	116.8 (53)	186.7 (84)	186.7 (84)
	Outdoor Unit Shipping Weight	lbs. (kg)	112.2 (50.5)	125.7 (57)	210.9 (95)	210.9 (95)

NOTE: Pipe lengths over 100 feet will require an increase in communication cable to 16 AWG.

BREEZE™ R-410A



2-Ton



3-Ton



4-Ton



5-Ton

SYSTEM COMPONENTS				
Inverter Heat Pump Condenser/Outdoor Model Number	WFPU17Z243C	WFPU18Z363C	WFPU18Z483C	WFPU17Z603C
SKU	B68-895	B68-897	B68-898	B68-896
ELECTRICAL - Outdoor Unit				
Voltage/Phase/Frequency	208 / 230V, 1-Phase, 60Hz	208 / 230V, 1-Phase, 60Hz	208 / 230V, 1-Phase, 60Hz	208 / 230V, 1-Phase, 60Hz
Voltage Range - V	198 - 253	198 - 253	198 - 253	198 - 253
MCA - Outdoor Unit - A	15	23	35	35
Max Circuit Breaker - Outdoor Unit - A	25	35	50	50
MCA - Indoor Unit - A	3.3	4.8	6.8	6.8
Max Circuit Breaker - Indoor Unit - A	10	10	15	15
Rated Load Amperage (RLA) - A	11.2	17.6	21.8	31.0
CAPACITIES				
Cooling Capacity - Btu-h	22000	36000	48000	56000
Cooling Capacity Range - Btu-h	6700 - 26000	11800 - 36800	18300 - 52000	18300 - 59400
Heating Capacity - Btu-h	23000	35000	47000	56000
Heating Capacity Range - Btu-h	6700-26000	8900 - 38200	17600 - 52000	17600 - 57500
FAN SPEEDS				
Indoor Airflow Rate - CFM rated	800	1120	1588	1706
Outdoor Airflow Rate (H) - CFM	1825	2350	3525	3525
SOUND PRESSURE				
Indoor (H) - dB(A)	55	57	64	65
Sound Pressure Level Outdoor (H) - dB(A)	54	57	59	60
LINESET REQUIREMENTS				
Connection Pipe Diameter - Liquid - in (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Connection Pipe Diameter - Gas - in (mm)	5/8 (15.88)	3/4 (19.05)	7/8 (22.22)	7/8 (22.22)
Minimum Lineset Length - ft (m)	10(3.04)	10(3.04)	10(3.04)	10(3.04)
Maximum Lineset Length (Total) - ft (m)	164 (50)	246 (75)	246 (75)	246 (75)
Max Height Difference - ft (m)	98 (30)	98 (30)	98 (30)	98 (30)
Pre-charged Lineset Length -ft (m)	24.6 (7.5)	24.6 (7.5)	24.6 (7.5)	24.6 (7.5)
STATIC PRESSURE				
Static Pressure Range - inWG (Pa)	0 to 0.8 (0 to 200)	0 to 0.8 (0 to 200)	0 to 0.8 (0 to 200)	0 to 0.8 (0 to 200)
OUTDOOR TEMPERATURE OPERATING RANGE				
Cooling - °F (°C)	5 to 122 (-15 to 50)	5 to 122 (-15 to 50)	5 to 122 (-15 to 50)	5 to 122 (-15 to 50)
Heating - °F (°C)	-13 to 75 (-25 to 24)	-13 to 75 (-25 to 24)	-13 to 75 (-25 to 24)	-13 to 75 (-25 to 24)
SET POINT RANGE AND DEHUMIDIFICATION PERFORMANCE				
Cooling - °F (°C)	61°F to 86°F (16°C to 30°C)	61°F to 86°F (16°C to 30°C)	61°F to 86°F (16°C to 30°C)	61°F to 86°F (16°C to 30°C)
Heating - °F (°C)	61°F to 86°F (16°C to 30°C)	61°F to 86°F (16°C to 30°C)	61°F to 86°F (16°C to 30°C)	61°F to 86°F (16°C to 30°C)
Moisture Removal pints/h (L/h)	4.6 (2.2)	4.6 (2.2)	4.6 (2.2)	4.6 (2.2)
EFFICIENCIES				
SEER2	16.5	18.00	17.50	17.00
EER2	10.10	10.10	10.10	8.25
HSPF2	9.00	9.50	8.50	8.50
COP2 @ 5 °F	2.05	2.05	1.90	2.90
ENERGY STAR®	Yes	Yes	Yes	No
NET DIMENSIONS & WEIGHTS				
Indoor Unit Net Dimensions (H x W x D) - in	46-1/8 x 19-5/8 x 21-5/8	46-1/8 x 19-5/8 x 21-5/8	53-7/8 x 22 x 24	53-7/8 x 22 x 24
Indoor Unit Net Dimensions (H x W x D) - mm	1,170 x 500 x 550	1,170 x 500 x 550	1,370 x 560 x 610	1,370 x 560 x 610
Indoor Unit Gross Dimensions (H x W x D) - in	49-5/8 x 22-1/2 x 25-3/8	49-5/8 x 22-1/2 x 25-3/8	55-1/2 x 25-1/4 x 28	55-1/2 x 25-1/4 x 28
Indoor Unit Gross Dimensions (H x W x D) - mm	1,260 x 570 x 645	1,260 x 570 x 645	1,410 x 640 x 710	1,410 x 640 x 710
Outdoor Unit Net Dimensions (H x W x D) - in	26-3/8 x 33-7/8 x 12-1/4	33 x 37-3/8 x 13-3/8	54-5/8 x 37-3/8 x 13-3/8	54-5/8 x 37-3/8 x 13-3/8
Outdoor Unit Net Dimensions (H x W x D) - mm	670 x 860 x 310	840 x 950 x 340	1,386 x 950 x 340	1,386 x 950 x 340
Outdoor Unit Gross Dimensions (H x W x D) - in	28-3/4 x 39 x 17-3/4	36-1/4 x 43-3/4 x 18 1/8	60-1/4 x 43-3/4 x 18-1/8	60-1/4 x 43-3/4 x 18-1/8
Outdoor Unit Gross Dimensions (H x W x D) - mm	730 x 990 x 450	920 x 1,110 x 460	1,530 x 1,110 x 460	1,530 x 1,110 x 460
Indoor Unit - Net Weight - lbs (kg)	135.5 (61.5)	140.0 (63.5)	187.2 (85)	187.2 (85)
Indoor Unit - Shipping Weight - lbs (kg)	158.6 (72)	163.1 (74)	214 (97)	214 (97)
Outdoor Unit - Net Weight - lbs (kg)	112.4 (51)	147.7 (67)	227.1 (103)	251.3 (114)
Outdoor Unit - Shipping - lbs (kg)	121.3 (55)	158.7 (72)	253.5 (115)	277.5 (126)
REFRIGERANT				
Refrigerant Type	410A	410A	410A	410A
Refrigerant Weight - lb oz	4 lb 7 oz	6 lb 3 oz	8 lb 15 oz	8 lb 15 oz
Oil type	VG74	VG74	VG74	VG74
COMPRESSOR				
Compressor Type	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
WARRANTY				
Standard Warranty	10 Year Compressor, 7 Year Parts			
Warranty with Registration	10 Year Compressor, 10 Year Parts			

Friedrich® Breeze™ Fast Features¹

Cooling & Heating Efficiencies Up To:

- Premier – 19.0 SEER2 / 11.7 EER2 / 10 HSPF2
- Select – 18.0 SEER2 / 10.0 EER2 / 9.0 HSPF2

Nominal Sizes: 2 to 4 Tons (Premier), 2 to 5 Tons (Select)

Sound Rating: As low as 35 dB(A)

Compressor Type: Rotary Inverter

ENERGY STAR® Certified: Yes (Premier only)

ENERGY STAR® Certified Cold Climate: Yes (excl. Select 3 & 5T)

Operating Range:

- Premier – Cooling: 5–125°F Heating: -22–75°F
- Select – Cooling: 5–115°F Heating: -4–75°F

Refrigerant Type: R-454B

Key Features

- Precision Inverter® Compressor
- Universal compatibility to existing air handler or gas furnace when paired with a rated R-454B coil
- Tax credit availability for most models³

Additional Standard Features:

- Maximum line length of 131 ft. (Select) or 246 ft. (Premier 4T)
- Maximum height differential 98 ft.
- Heating down to -22°F (Premier only)
- Built-in base pan heater
- Optional auxiliary heater kit
- Multi-position air handler

Limited Warranty:

- Parts – 7 years (standard) or 10 years (registration required)
- Compressor – 10 years (standard)



¹System rated performance is only guaranteed when paired with a properly installed Friedrich air handler; Performance may vary when paired with a non-Friedrich air handler, and rebate eligibility should be verified based on the AHRI listed ratings of the system; Due to continuing research in new energy-saving technology, specifications are subject to change without notice. ²Stated specifications are applicable to Premier models only. ³Dependent on system combination and overall efficiency; High Efficiency Electric Home Rebates are dependent on state participation and available funding; Visit [Friedrich.com/Federal-Incentives](https://www.friedrich.com/federal-incentives) for complete details.

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BREEZE™
THE UNIVERSAL HEAT PUMP

Federal Incentives Available (conditions apply)³

As part of the Inflation Reduction Act of 2022, homeowners may be eligible for up to \$2,000 for qualified heat pumps as part of the Energy Efficient Home Improvement Federal Tax Credit (Tax Section 25C). The Breeze also meets the High Efficiency Electric Home Rebate Program criteria and may qualify for additional funds—dependent on state participation and household income.

Visit [Friedrich.com/Federal-Incentives](https://www.friedrich.com/federal-incentives) to learn more.

Delivering Boldly Crafted Comfort

Founded in 1883, Friedrich Air Conditioning Co. is an expert in providing residential and commercial comfort solutions—from premium room air conditioners to whole-home/whole-building equipment and more. Designed to be among the most advanced and quietest available, all Friedrich products are engineered to deliver precise temperature control to make spaces comfortable—quickly and efficiently.



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SUPERIOR COMFORT FOR HOSPITALITY



FRESHAIRE® &
ZONEAIRE® SERIES

Packaged Terminal
Air Conditioners

 **FRIEDRICH**
DELIVERING BOLDLY CRAFTED COMFORT



FreshAire® PTAC

The most advanced PTAC ever

A patented fresh air delivery system with industry leading adaptive make-up air control

US PATENT: #10,436,457

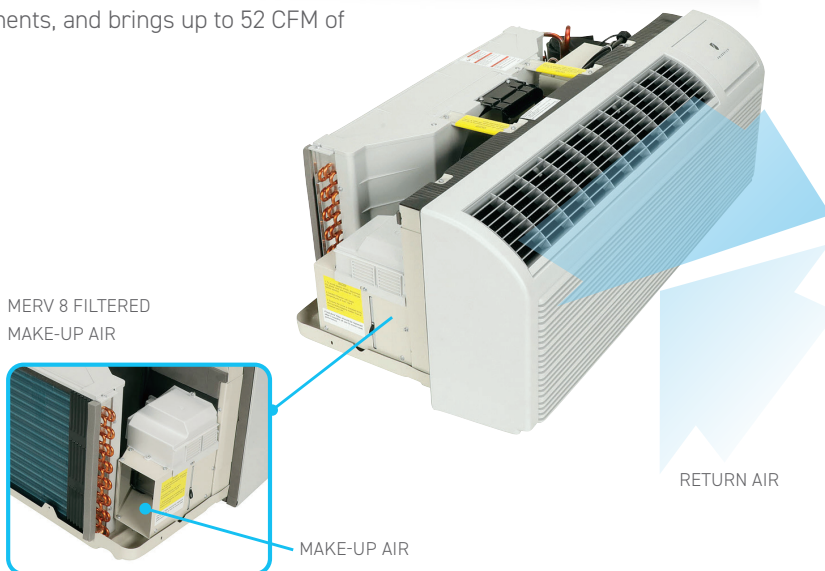
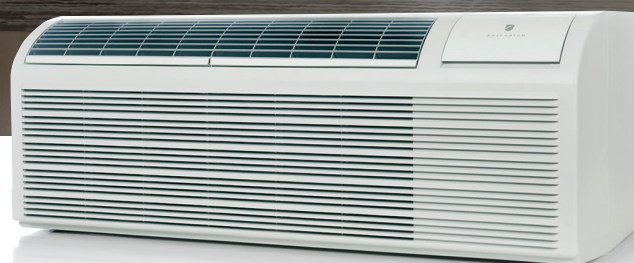
FreshAire®

FreshAire® system helps achieve ASHRAE 62.1-2013 requirements, and brings up to 52 CFM of conditioned, MERV 8 filtered, outside air into the space.

Patented technology uses the inverter compressor and main cooling system to optimize temperature and humidity level of incoming air.

By introducing make-up air directly into the guestroom, Dedicated Outdoor Air Systems (DOAS) can be considerably downsized to service only the common areas of the property.

This greatly reduces the cost and complexity of hotel design and construction. Unlike other PTACs, the FreshAire® PTAC utilizes the main evaporator coil and MERV 8 filters to truly condition and filter the outside ventilation air. Pair with Friedrich's VRPX thermostat and maximize your indoor comfort with FreshAire adaptive make-up air control for humidity and occupancy.



THE WIDEST COOLING & HEATING RANGE IN THE INDUSTRY WITH ONLY TWO MODELS

Variable speed technology gives you the flexibility of a full line of PTACs with only two models, and offers the highest available capacity of any 42x16 PTAC on the market at over 15,500 Btus.

The Friedrich Inverter variable speed compressor matches the unit output to the actual demand of the space for increased comfort and lower energy consumption.

FRESHAIRE® MODEL	VARIABLE CAPACITY OPERATING RANGE	
	DOWN TO	UP TO
9,000 BTU	5,800 Btus	12,000 Btus
12,000 BTU	6,100 Btus	15,500 Btus

AWARD-WINNING FRESHHAIRE® PTAC

FreshAire® PTAC was honored by Engineering Systems magazine as Commercial Comfort Product of the Year for IAQ/Ventilation. The judges recognized that by introducing make-up air directly into the guestroom, rooftop dedicated outdoor air systems (DOAS) can be considerably downsized to service only the common areas of the property, greatly reducing the cost and complexity of hotel construction.



THE PREFERRED CHOICE FOR STUDENT HOUSING

Emory University wanted to install air conditioning equipment that would provide better air quality and better humidity control in the university's Clifton Tower dormitory. Proficient Engineering, the firm that designed the HVAC system for Clifton Tower, chose Friedrich Air Conditioning's FreshAire® PTAC for the unit's capability to deliver up to 52 CFM of fresh, cool, pre-filtered, non humid air into the room. And because the PTAC units employ inverter-driven technology with variable-speed refrigerant systems, fresh air is continually distributed into the space. Outdoor air ventilation for each dorm room was brought in directly through the Friedrich PTACs.

While a building-wide central air conditioning system would have saved dorm room space, the PTACs offered the university a greater advantage: they are inexpensive first-cost units with simple maintenance, where a malfunctioning unit disrupts only a single dorm room. PTACs are designed for portability—a spare replacement can restore the dorm room to working order within minutes, while the faulty unit is repaired as time allows. Failure of a central system, on the other hand, requires sophisticated maintenance, often resolved by an engineer. And the downtime affects the occupants of the entire facility.

By introducing ventilation make-up air directly into the dorm rooms through the PTACs, the dedicated outdoor system was downsized considerably to service only the common areas. This reduced the cost and complexity of the dormitory's HVAC design, mitigating the need for additional ductwork and improving the cost of ownership for the university.



Innovative design and quality components deliver performance unmatched by any other PTAC

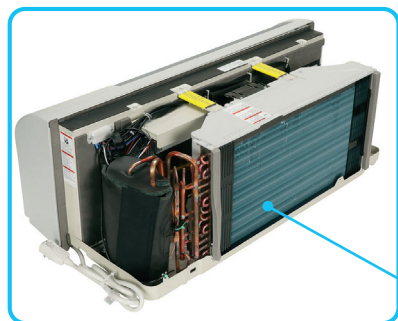
FreshAire® PTAC components can be easily accessed by your maintenance team

Units can be removed, serviced and placed back in service faster.

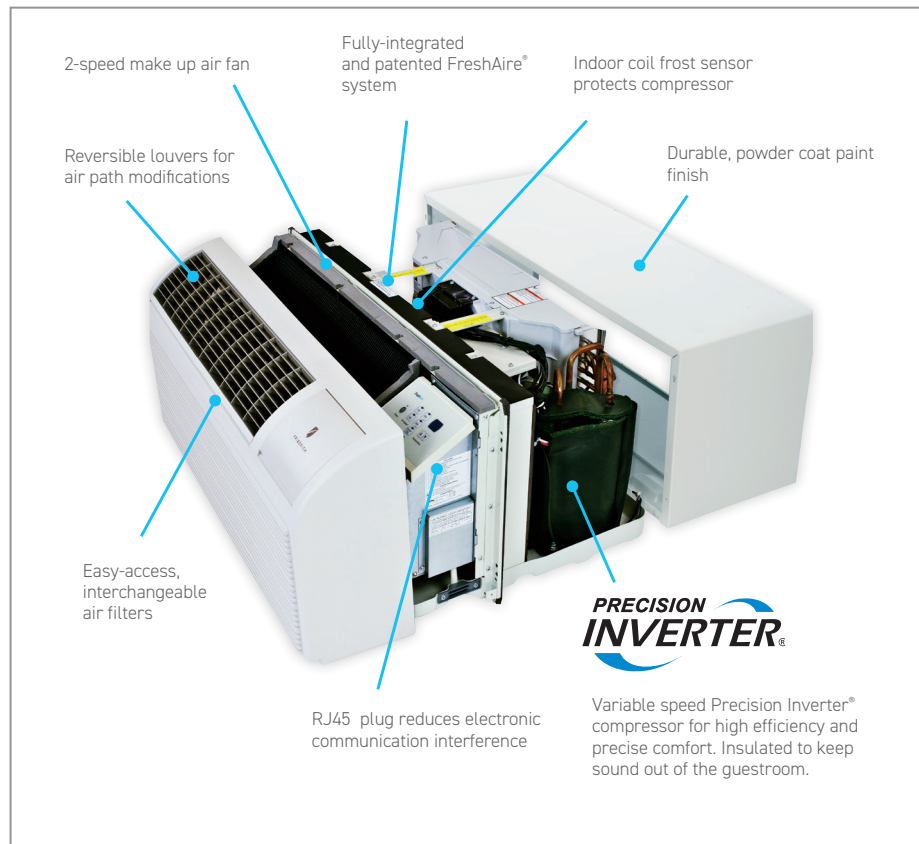
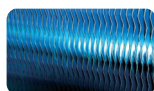
Commercial grade components provide reliable performance in even the most extreme climates.

Diamonblue™ Advanced Corrosion Protection

Indoor and outdoor coils are coated to resist corrosion in harsh outdoor environments.



DIAMONBLUE™
Advanced Corrosion Protection



**PRECISION
INVERTER®**

Variable speed Precision Inverter® compressor for high efficiency and precise comfort. Insulated to keep sound out of the guestroom.

IMPORTANT NOTE: Sleeves are sold and shipped separately to accommodate new construction and replacement requirements. Fits other PTAC sleeves without the added expense of a baffle kit.

FRESHHAIRE® PTAC EXTENDED CAPACITY RANGE

230/208V Inverter

COOLING

PVH09K

STANDARD RATING R-32	9,800/9,700 Btu
EXTENDED RATING R-32	5,800 - 12,000 Btu

PVH12K

STANDARD RATING R-32	12,000/11,800 Btu
EXTENDED RATING R-32	6,100 - 15,500 Btu

HEAT PUMP

PVH09K

STANDARD RATING R-32	8,500/8,400 Btu
EXTENDED RATING R-32	5,500 - 10,800 Btu

PVH12K

STANDARD RATING R-32	11,500/11,500 Btu
EXTENDED RATING R-32	6,000 - 14,000 Btu

265V Inverter

COOLING

PVH09R

STANDARD RATING R-32	9,800 Btu
EXTENDED RATING R-32	6,100 - 15,500 Btu

PVH12R

STANDARD RATING R-32	12,000 Btu
EXTENDED RATING R-32	6,100 - 15,500 Btu

HEAT PUMP

PVH09R

STANDARD RATING R-32	8,500 Btu
EXTENDED RATING R-32	5,500 - 10,800 Btu

PVH12R

STANDARD RATING R-32	11,600 Btu
EXTENDED RATING R-32	6,000 - 14,000 Btu

BACK UP ELECTRIC HEAT

2.5 kw, 3.5 kw and 5.0 kw* heater options

*5.0 kw heater cannot be used on PV09K/PV09R

FreshAire® PTAC delivers best-in-class energy efficiencies and low sound levels

FreshAire® PTACs with inverter compressors deliver equivalent SEER up to 15.0; HSPF up to 11.57, and offer many advantages over traditional PTACs.

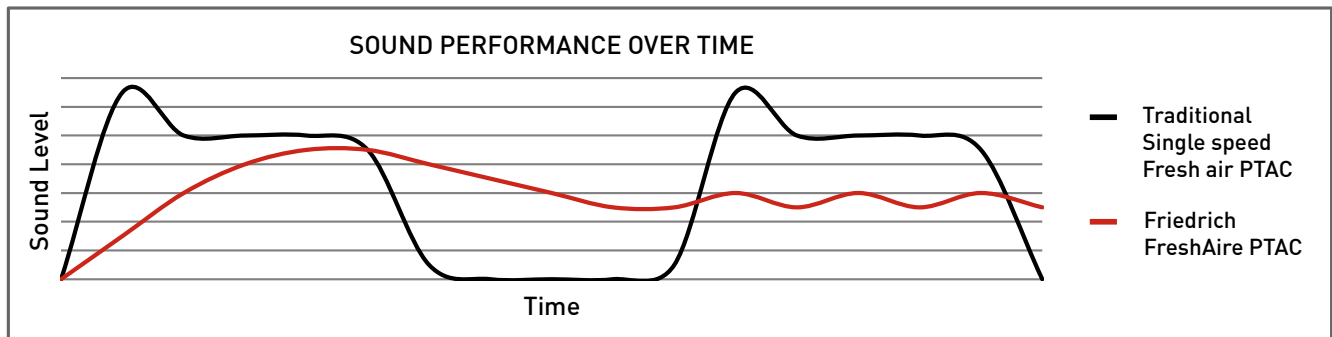
- Improved dehumidification
- Quieter start-up and operation
- Better efficiency during part load hours of cooling & heating
- Reduced temperature swings improve guest comfort



TRADITIONAL PTAC	FRESHAIRE INVERTER PTAC
At initial start up, a fixed capacity system slowly reaches the set temperature.	FASTER TO SETPOINT At initial start up, utilizes variable capacity to quickly reach the set temperature.
Complete shutdown once set temperature is achieved.	MAXIMUM ENERGY SAVINGS Reduces capacity as set temperature is achieved.
Temperature within the space rises until 2nd system start up.	MAINTAINS PRECISE COMFORT Variable capacity maintains set temperature keeping space comfortable with reduced energy consumption.
System works at full capacity to again reach the set temperature.	Variable capacity operation provides improved humidity control in the guestroom.
System cycles on and off continually to maintain the set temperature.	

SOFT-START™ TECHNOLOGY PROVIDES THE SMOOTHEST PTAC SOUND AVAILABLE

The variable-speed operation of the FreshAire® PTAC allows the unit to work at the optimal speed to match the true load of the room. This not only provides the best energy consumption curve it also adds to guest comfort by eliminating the harsh start-ups associated with single speed compressors.



The curves above illustrate the different sound characteristics of a single-speed PTAC (black curve) versus a Friedrich FreshAire® PTAC (red curve).

FreshAire® features

Make-Up Air System

Dedicated 2-speed fan delivers up to 52 CFM of outside air into the room

Does not rely on separate refrigeration system like competitor's units

Adaptive Control Pair with Friedrich's VRPX thermostat and maximize your indoor comfort with FreshAire adaptive make-up air control for humidity and occupancy

Durable Construction

Aluminum endplates reduce outdoor coil corrosion

Galvanized zinc coated steel wall sleeve and steel base pan undergo an 11-step preparation process, are powder coated with a polyester finish and cured in an oven for exceptional durability

Factory run-tested units reduce problems in the field

Internal diagnostic program can alert maintenance to component failures or operating problems. Fourteen numeric service error codes stored in memory facilitate rapid unit diagnostics

Room freeze protection initiates heat if temperature falls to 50°F in an unoccupied room

Random compressor restart protects electrical systems from overload when power is restored

Tamper-resistant, anodized stamped aluminum grille withstands chalking and oxidation

Break proof control door design maintains the integrity of the unit

Indoor coil frost sensor protects the compressor to lengthen the life of the unit

➤ **Diamonblue™ Advanced Corrosion Protection** comes standard on all PTACs for long life in harsh coastal environments

➤ **RJ45 communication plug**, R-J45 Communication Plug: This enables a more balanced communication signal, allowing the FreshAire® PTAC to fully interact with both the VRPX wired and wireless wall controllers. This interaction provides full variable control of the inverter compressor and grants access to our comprehensive energy management suite, which includes room occupancy features

Energy Efficient & Energy Smart

➤ **Variable speed Inverter compressor** delivers EERs up to 12.0 at part load conditions (9,000 Btu model operating at 6,462 Btu)

➤ **R-32 refrigerant** with low Global Warming Potential

➤ **Exceptional energy management thermostats** available (wired & wireless) with integrated occupancy sensor, five district energy presets and comprehensive remote management capability.*

➤ **Energy efficient heat pump models** available in our complete line

➤ **Electronic defrost control** ensures more run time in efficient heat pump mode

➤ **Electronic temperature limiting** to adjust low/high temperature range limits for reduced energy usage

➤ **Slinger ring technology** in condensate removal system cools the coil and increases efficiency

➤ **Central desk control ready** to allow hotel owners to control units from a central location

Comfort, Health & IAQ

Dehumidification removes moisture in cool mode to improve comfort and reduce the chance of mold and mildew growth

Integrated fresh air manifold effectively conditions outside air and meets ASHRAE 62.1 standard for IAQ

Intuitive unit controls are user friendly with easy-to-read LED display that can show either set-point or actual room temperature as selected by owner

Standard power cord installed on each unit (7-12k-3.5Kw), (15K-5.0 Kw)

Instant Heat on heat pump models quickly heats a room to the desired temperature for increased comfort

Automatic periodic sampling of room temperature to ensure desired conditions are maintained

Reversible indoor air louvers to easily change direction of airflow

A full complement of Indoor Air Quality Products has been certified through installation and testing to ensure exceptional air quality is achieved when FreshAire® IAQ accessories are added

Sound Reduction Features

Two permanently lubricated fan motors for added durability and reduced sound levels indoors

➤ **Quiet, efficient inverter compressor** mounted with vibration isolators to keep the compressor running smoothly and quietly.

High-density insulation and steel inner wall block outdoor noise

Tangential blower wheel creates a wide path air flow that reaches the furthest corner of the guest room more quietly than conventional fans

Ease of Maintenance & Installation

Modular product design ensures easy access to key components for cleaning and repairs, including washable, lift-out air filters

Surehold Front Cover System® securely attaches the front each time

May be installed low on the floor

Easy access air filters simplify maintenance and extend the life of the product. Filters are washable and replaceable

Warranty & Service

2-year full warranty on parts and labor and 5-year limited warranty

Nationwide service network and U.S.-based Friedrich expert technical team ensures you get fast, knowledgeable service



See warranty documentation for full details.



* Energy management capability requires purchase of additional hardware and activation fee

➤ This is a bullet for a sustainability feature

FreshAire® PTAC

SPECIFICATIONS

PTHP (HEAT PUMP) WITH INVERTER AND MUA (MAKE-UP AIR), R-32 REFRIGERANT

Model	PVH09K3FC	PVH09R3FC	PVH12K3FC	PVH12R3FC
SKU	B50-636	B50-637	B50-638	B50-639
PERFORMANCE DATA				
Cooling Btu	9,800/9,700	9,800	12,000/11,800	12,000
Cooling Capacity Min./Max (Btu)	5,800-12,000	5,800-12,000	6,100-15,500	6,100-15,500
Cooling Watts	815/805	815	1,040/1,025	1,040
Energy Efficiency Ratio, EER	12.0/12.0	12.0	11.5/11.5	11.5
Heater Size (kW)	3.5	3.5	3.5	3.5
Reverse Heating Btu	8,500/8,400	8,500	11,500/11,500	11,600
Reverse Heating Capacity Min./Max. (Btu)	5,500-10,800	5,500-10,800	6,000-14,000	6,000-14,000
Heating Watts	710/700	710	940/940	940
COP	3.51/3.51	3.51	3.65/3.65	3.65
Moisture Removal (pints/hr.)	1.4	1.2	1.9	2.4
Sensible Heat Ratio	77%	78%	77%	78%
ELECTRICAL DATA				
Voltage (1 Phase, 60 Hz)	230/208	265	230/208	265
Volt Range	253-187	292-239	253-187	292-239
Current (Amps)	3.56/3.95	3.09	4.55/4.99	3.86
Reverse Heat (Amps)	3.4/3.1	2.77	4.5/4.1	3.5
Power Factor	0.97	0.936	0.98	0.90
Compressor LRA	N/A	N/A	N/A	N/A
Compressor RLA	3.2	2.8	4.1	3.5
Outdoor Fan Motor, HP	0.071	0.14	0.08	0.14
AIRFLOW DATA				
Indoor CFM, HIGH	700	700	750	780
Indoor CFM, LOW	535	535	560	560
Make-up Air CFM@0.05" wc Min/Max	25/52	25/52	25/52	25/52
PHYSICAL DATA				
Sleeve Dimensions (H x W x D)	16" x 42" x 13 3/4" (all models)			
Dimensions with front (H x W x D)	16" x 42" x 21" (all models)			
Cut Out Dimensions (H x W)	16 1/4" x 42 1/4" (all models)			
Net Weight (lbs.)	120	109.9	136	136
Shipping Weight (lbs.)	141	132.45	157	157
R-32 Charge (oz.)	24.3	24.3	27.2	24.3

230/208V ELECTRIC HEATER RATING

(CONFIGURATION BASED ON
POWER CORD)

POWER CORD #	SKU	VOLTAGE	BRANCH CKT AMPS	MCA	WATTS
PXPCFA23015	B22-332	230/208	15	13.9	2,500
PXPCFA23020	B22-333	230/208	20	19.9	3,600
PXPCFA23030	B22-334	230/208	30	27.5	5,000
PXPCFA26515	B22-335	265V	15	12.0	2,500
PXPCFA26515 ¹	—	265V	15	7.3	1,500
PXPCFA26520	B22-336	265V	20	16.8	3,500
PXPCFA26530	B22-337	265V	25	23.8	5,000

¹ Data for Model PVH09R.








PXPCFA23020 comes standard on PTAC

Power cord PXPCFA23030(A) can not be used with PVH09K3FA

Warning: Coastal Region Installations. Friedrich Air Conditioning recommends that owners take necessary precautions to protect the interior space, furnishings, and hardware from corrosion when installing make-up air products in coastal applications. Our FreshAire PTAC delivers up to 52 CFM of direct outside make-up air into the space. If installed within 2 miles of a body of salt water, due to the high salt content of coastal air and the high latent load of the make-up air, premature corrosion will occur naturally on non-protected items. Friedrich Air Conditioning is not responsible for premature corrosion resulting from the use of make-up air products.

FreshAire PTAC may be covered under one or more of the following patents: 10,408,504 and 10,436,457. Additional patents pending.

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

Receptacles and Fuse Types							
Voltage	230V			265V			
Amps	15	20	30	15	15	20	25
Heater Size	2.5 kW	3.5 kW	5.0 kW	1.5 kW	2.5 kW	3.5 kW	5.0 kW
Receptacles							
NEMA# Receptacle	6-15R	6-20R	6-30R	7-15R	7-15R	7-20R	7-30R
NEMA# Plug	6-15P	6-20P	6-30P	7-15P	7-15P	7-20P	7-30P



ZoneAire® Premier PTAC

THE QUIETEST* standard PTAC you can buy

The most efficient, reliable and quietest standard Friedrich PTAC

* Independent 3rd party indoor testing against leading competitive brands



Advanced design for greater energy efficiency

- **Curved coil design** of the Premier Series maximizes the internal surface area to deliver higher efficiencies
- **EERs** up to 13.3 reduces operating costs versus lower efficiency models

QuietMaster® Technology



Precision engineering delivers maximum airflow and air dispersion at the lowest sound levels
Quietest standard PTAC available
Rotary compressor mounted on sound isolation grommets

Dependable performance begins with the highest quality materials and components

Stainless steel endplates on the coils for better corrosion resistance
Galvanized, zinc-coated steel wall sleeves brought together with durable construction and rigorous testing

Engineered for maximum guest comfort

Tangential fan provides quiet, yet powerful airflow that quickly reaches all corners of the room
Two motor design for quieter indoor sound levels
Dense insulation on the inner walls reduce sound transfer into the room
Constant Fan mode produces a steady stream of white noise in both cooling and heating modes that masks sound level changes when the compressor cycles on and off, and also masks outdoor noise

Warranty and Support

Industry leading warranty features 2-year full warranty on parts and labor and 5-year limited warranty
Nationwide service network and U.S. based Friedrich expert technical team ensures you get fast, knowledgeable service



See warranty documentation for full details.

■ This is a bullet for a sustainability feature

Designed to deliver quiet, energy efficient operation and dependable performance backed by an exceptional warranty

ZoneAire® Premier features advanced coil design to deliver exceptional energy efficiency

The curved coil design of the Premier Series maximizes the internal surface area to deliver higher efficiencies

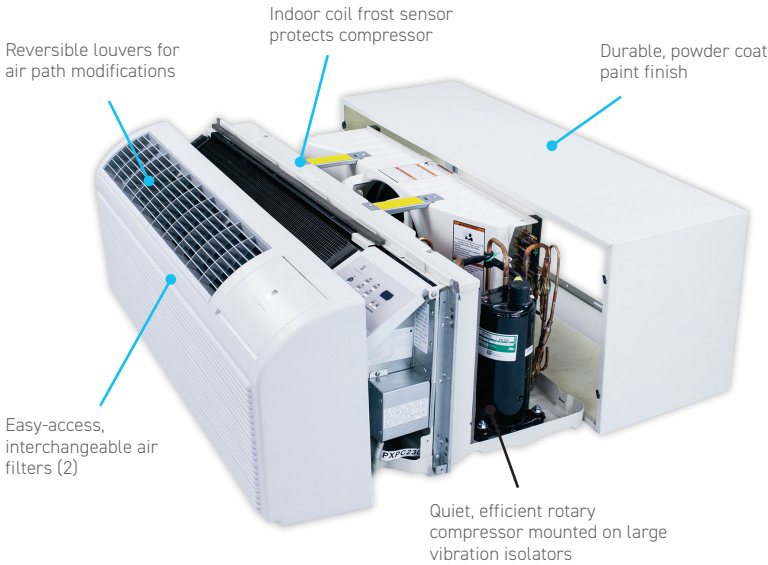
Key components can be easily accessed by your maintenance team so units can be removed, serviced and placed back in service faster.

Diamonblue™ Advanced Corrosion Protection

Indoor and outdoor coils are coated to resist corrosion in harsh outdoor environments



Friedrich PTACs utilize a modular design that provides easy access to key components for maintenance or service



IMPORTANT NOTE: Sleeves are sold and shipped separately to accommodate new construction and replacement requirements. Fits other PTAC sleeves without the added expense of a baffle kit.



Easy to read and use digital controls



Large tangential fan provides smooth, powerful airflow

CAPACITY RANGE

Electric Heat

COOLING

7,200-14,800 Btu
EERs up to 13.3

ELECTRIC HEAT

8,300-17,000 Btu
up to 5kw

Heat Pump

COOLING

7,200-15,000 Btu
EERs up to 13.3

HEATING

5,800-13,800 Btu
Up to 3.6 COP

AUXILIARY ELECTRIC HEAT

8,300-17,000 Btu up to 5kw

Receptacles and Fuse Types

Voltage	230V			265V		
Amps	15	20	30	15	20	30
Heater Size	2.5 kW	3.5 kW	5.0 kW	2.5 kW	3.5 kW	5.0 kW
Receptacles						
NEMA# Receptacle	6-15R	6-20R	6-30R	7-15R	7-20R	7-30R
NEMA# Plug	6-15P	6-20P	6-30P	7-15P	7-20P	7-30P

Standard power cord installed on each unit (7-12k-3.5KW), (15K-5.0 KW)

ZoneAire® Premier features

Durable & Reliable Construction

Stainless steel endplates reduce outdoor coil corrosion

Galvanized zinc coated steel wall sleeve and steel base pan undergo an 11-step preparation process, are powder coated with a polyester finish and cured in an oven for exceptional durability

Additional heating element bottom plate above an improved heat shield provides extra thermal protection

Additional thermistor on the blower scroll outlet regulates internal temperature

Factory run-tested units reduce problems in the field

Internal diagnostic program can alert maintenance to component failures or operating problems. Fourteen numeric service error codes stored in memory facilitate rapid unit diagnostics

Room freeze protection initiates heat if temperature falls to 40°F in an unoccupied room

Random compressor restart protects electrical systems from overload when power is restored

Tamper-resistant, anodized stamped aluminum grille withstands chalking and oxidation

Break-proof control door design maintains the integrity of the unit

Indoor coil frost sensor protects the compressor to lengthen the life of the unit

Diamonblue™ Advanced Corrosion Protection protects the outdoor coil from harsh environments

Energy Efficient & Energy Smart

- **Super-efficient refrigeration design** with EERs up to 13.3 and COP up to 3.6
- **R-32 refrigerant** with low Global Warming Potential
- **Exceptional energy management thermostats available (wired & wireless)** with integrated occupancy sensor, five distinct energy presets and comprehensive remote management capability*
- **Advanced coil design** adds more surface area leading to higher efficiencies
- **Thicker steel inner-wall and foam construction** decreases thermal transfer and energy loss
- **Energy efficient heat pump models** available in the complete line
- **Electronic defrost control** ensures more run time in efficient heat pump mode
- **Electronic temperature limiting** to adjust low/high temperature range limits for reduced energy usage
- **Slinger ring technology** in condensate removal system cools the coil and increases efficiency
- **Desk control ready** to allow hotel owners to control units from a central location

* Energy management capability requires purchase of additional hardware and activation fee.

➤ This is a bullet for a sustainability feature



Sound Reduction Technology

Two permanently lubricated fan motors for added durability and reduced sound levels indoors

Quiet, efficient rotary compressor mounted with vibration isolators to keep the compressor running smoothly and quietly

High-density insulation and steel inner wall block outdoor noise

Tangential blower wheel creates a wide path air flow that reaches the furthest corner of the guest room more quietly than conventional fans

Comfort, Health & IAQ

A full complement of Indoor Air Quality Products has been certified through installation and testing to ensure exceptional air quality is achieved when FreshAir IAQ accessories are added

Dehumidification removes up to 3.17 pints/hour of moisture in cool mode to improve comfort and reduce the chance of mold and mildew growth

Constant Fan mode provides continuous fan operation in cooling or heating modes to create a steady stream of white noise that masks sound level changes when the compressor cycles on/off

Fresh air damper brings in fresh outside air when desired

Intuitive unit controls are user friendly with easy-to-read LED display that can show either set-point or actual room temperature as selected by owner

Instant Heat on heat pump models quickly heats a room to the desired temperature for increased comfort

Even-heat monitoring checks room temperature and automatically adds heat boost if necessary

Automatic periodic sampling of room temperature to ensure desired conditions are maintained

Reversible indoor air louvers to easily change airflow direction

Ease of Maintenance & Installation

Modular product design ensures easy access to key components for cleaning and repairs; including washable, lift-out air filters

Remote thermostat pop-out wiring module allows easier wiring and unit change out without rewiring thermostat

Standard power cord installed on each unit (7-12k-3.5KW), (15K-5.0 KW)

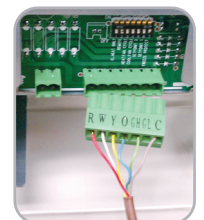
Compact front is designed to preserve indoor floor space with a depth of 7¼ inches

Surehold Front Cover System® securely attaches the front each time

Inner wall service plate provides service access to tangential blower bearing without having to open up the entire inner wall

Easy access filters simplify maintenance and extend the life of the product

Unit may be installed flush with the floor



ZoneAire® Premier PTAC

SPECIFICATIONS

ELECTRIC HEAT MODELS, R-32 REFRIGERANT

Models ending in 'K' are 230/208V, models ending in 'R' are 265V

Model	PDE07K3SGR3	PDE07R3SGR3	PDE09K3SGR3	PDE09R3SGR3	PDE12K3SGR3	PDE12R3SGR3	PDE15K5SGR3	PDE15R5SGR3
SKU	B68-861	B68-029	B68-030	B68-031	B68-032	B68-862	B68-033	B68-863
PERFORMANCE DATA								
Cooling Btu	7,400/7,200	7,500	10,200/9,900	10,000	12,300/12,100	12,300	14,700/14,400	14,800
Cooling Watts	560/540	560	810/790	800	1,060/1,020	1,060	1,420/1,380	1,400
Energy Efficiency Ratio, EER	13.0/13.0	13.3	12.5/12.5	12.5	11.6/11.8	11.6	10.4/10.6	10.6
Heater Size (kW)	3.5	3.5	3.5	3.5	3.5	3.5	5	5
Moisture Removal (pints/hr.)	1.69	1.69	2.11	2.11	2.74	2.74	3.17	3.17
Sensible Heat Ratio	86%	86%	85%	85%	75%	75%	67%	67%
ELECTRICAL DATA								
Voltage (1 Phase, 60 Hz)	230/208	265	230/208	265	230/208	265	230/208	265
Volt Range	253 – 187	292 – 239	253 – 187	292 – 239	253 – 187	292 – 239	253 – 187	292 – 239
Current (Amps)	2.4/2.6	2.1	3.6/3.9	3.2	4.7/5.0	4.0	6.0/6.5	5.3
Power Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Compressor LRA	13.0	12.0	17.0	15.0	30.0	21.0	35.2	26.0
Compressor RLA	2.16	2.2	3.1	3.4	4.0	3.3	5.0	6.4
Outdoor Fan Motor, HP	0.080	0.080	0.080	0.080	0.086	0.086	0.086	0.086
AIRFLOW DATA								
Indoor CFM, HIGH	311.9	311.9	330	330	341.33	341.33	341	341.33
Indoor CFM, LOW	282.48	282.48	282	282	306.02	306.02	306	306.02
Vent CFM	75	75	75	75	75	75	75	75
PHYSICAL DATA								
Sleeve Dimensions (H x W x D)	16" x 42" x 13 3/4" (all models)							
Dimensions with Front (H x W x D)	16" x 42" x 21 1/2" (all models)							
Cut Out Dimensions (H x W x D)	16 1/4" x 42 1/4" (all models)							
Net Weight (lbs.)	110.25	110.25	110.3	110.3	114.66	114.66	114.7	114.7
Shipping Weight (lbs.)	132.3	132.3	132.3	132.3	136.71	136.71	136.7	136.7
R-32 Charge (oz.)	17.64	17.64	17.28	17.28	21.16	21.16	19.75	19.79
Dimensions with Packaging (inches)	17 7/8" x 45" x 25 1/4" (all models)							

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



ZoneAire® Premier PTAC

SPECIFICATIONS

HEAT PUMP MODELS, R-32 REFRIGERANT

Models ending in 'K' are 230/208V, models ending in 'R' are 265V

Model	PDH07K3SGR3	PDH07R3SGR3	PDH09K3SGR3	PDH09R3SGR3	PDH12K3SGR3	PDH12R3SGR3	PDH15K5SGR3	PDH15R5SGR3
SKU	B68-034	B68-035	B67-196	B67-197	B67-198	B67-199	B68-011	B68-864
PERFORMANCE DATA								
Cooling Btu	7,400/7,200	7,300	9,700/9,400	9,800	12,100/11,900	12,000	14,600/14,200	14,500
Cooling Watts	570/560	560	800/780	810	1,040/1,000	1,030	1,400/1,360	1,390
Energy Efficiency Ratio, EER	13.0/13.0	13.0	12.1/12.1	12.1	11.6/11.8	11.6	10.4/10.4	10.4
Heater Size (kW)	3.5	3.5	3.5	3.5	3.5	3.5	5	5
Reverse Heating Btu	6,000/5,800	6,000	8,500/8,200	8,600	10,900/10,700	10,700	13,800/13,300	13,300
Heating Watts	490/460	490	690/670	690	940/900	920	1,310/1,250	1,250
COP (W/W)	3.6/3.6	3.6	3.6/3.6	3.65	3.4/3.46	3.4	3.1/3.1	3.1
Moisture Removal (pints/hr.)	1.69	1.69	2.11	2.11	2.75	2.75	3.17	3.17
Sensible Heat Ratio	83/80%	83%	75%	75%	70%	70%	---	---
ELECTRICAL DATA								
Voltage (1 PHASE, 60 Hz)	230/208	265	230/208	265	230/208	265	230/208	265
Volt Range	253-187.2	238.5-291.5	253-187	292-239	253-187	292-239	253-187	292-239
Current (Amps)	2.4/2.6	2.1	3.6/3.9	3.1	4.6/4.9	4	6.0/6.5	5.3
Reverse Heat (Amps)	2.1/2.3	1.8	3.1/3.2	2.6	4.1/4.3	3.5	5.6/5.9	4.7
Power Factor	0.99/1.0	1.0	0.99	0.99	0.99	0.99	---	---
Compressor LRA	13	12	17	15	30	21	35.2	26
Compressor RLA	2.16	2.2	3.1	3.4	4.0	4.5	5	6.4
Outdoor Fan Motor, HP	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
AIRFLOW DATA								
Indoor CFM, HIGH	311.9	311.9	330	330	340	341	341	341
Indoor CFM, LOW	282.48	282.48	282	282	306	306	306	306
Outdoor Air	75	75	52	52	52	52	75	75
PHYSICAL DATA								
Sleeve Dimensions (H x W x D)	16" x 42" x 13 3/4" (all models)							
Dimensions with front (H x W x D)	16" x 42" x 21" (all models)							
Cut Out Dimensions (H x W)	16 1/4" x 42 1/4" (all models)							
Net Weight (lbs.)	112.45	112.45	115	115	119	119	120	120
Shipping Weight (lbs.)	134.5	134.5	135	135	141	141	142	142
R-32 Charge (oz.)	27.51	27.51	24.7	24.7	20.92	28.9	29.63	28.57
Dimensions with Packaging (inches)	17 7/8" x 45" x 25 1/4" (all models)							

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ZoneAire® Select PTAC

Excellent efficiency & quality

Exceptional value, with reliable performance backed by an outstanding warranty



Durable Construction

Superior materials and design reduce sound levels and improve overall guest satisfaction

Aluminum endplates reduce corrosion of the outdoor coil

Galvanized zinc coated steel wall sleeve and steel base pan undergo an 11-step preparation process, are powder coated with a polyester finish, and are oven-cured at high temperature for exceptional durability

Factory run-tested units reduce problems in the field

Internal diagnostic program can alert maintenance to component failures or operating problems

Room freeze protection initiates heat if the temperature falls to 50°F inside an unoccupied guest room

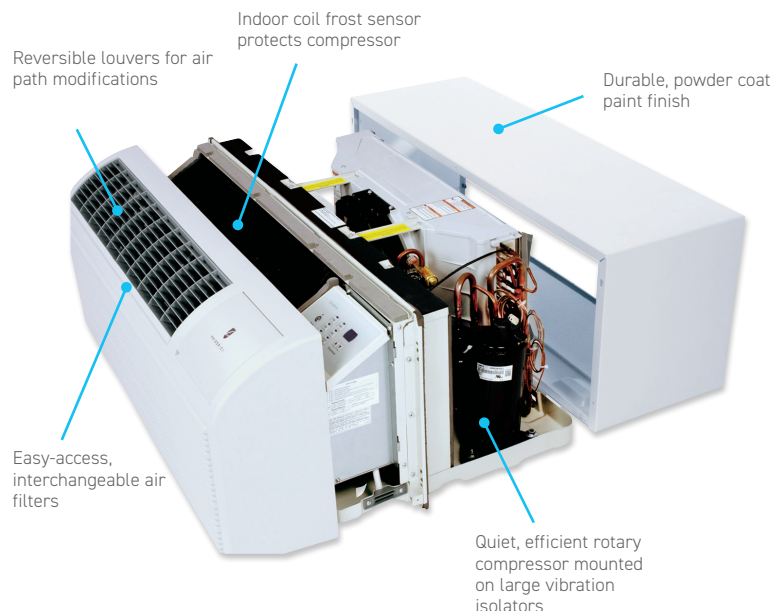
Random compressor restart protects electrical systems from overload when power is restored

Tamper-resistant, anodized stamped aluminum grille withstands chalking and oxidation

Break proof control door design maintains the integrity of the unit

Indoor coil frost sensor protects the compressor to lengthen the life of the unit

Friedrich PTACs utilize a modular design that provides easy access to key components for maintenance or service



IMPORTANT NOTE: Sleeves are sold and shipped separately to accommodate new construction and replacement requirements. Fits other PTAC sleeves without the added expense of a baffle kit.

ZoneAire® Select features

Energy Efficient & Energy Smart

- Super-efficient refrigeration design with EERs up to 11.9 and COP up to 3.5
- R-32 refrigerant** with low Global Warming Potential
- Exceptional energy management thermostats available (wired & wireless) with integrated occupancy sensor, five distinct energy presets and comprehensive remote management capability*
- Energy efficient heat pump models available in our complete line
- Electronic defrost control** ensures more run time in efficient heat pump mode
- Electronic temperature limiting** to adjust low/high temperature range limits for reduced energy usage
- Slinger ring technology** in condensate removal system cools the coil and increases efficiency
- Central desk control ready** to allow hotel owners to control units from a central location

Comfort, Health & IAQ

A full complement of Indoor Air Quality Products has been certified through installation and testing to ensure exceptional air quality is achieved when FreshAire® IAQ accessories are added

Dehumidification removes up to 4.4 pints/hr. of moisture in cool mode to improve comfort and reduce the chance of mold and mildew growth

Fresh air damper brings in fresh outside air when desired

Intuitive unit controls are user friendly with easy-to-read LED display that can show either set-point or actual room temperature as selected by owner

Air filters are easy to access and washable

Instant Heat heat pump mode quickly heats a room to the desired temperature for increased comfort

Automatic periodic sampling of room temperature every nine minutes to ensure desired conditions are maintained

Reversible indoor air louvers to easily change direction of airflow

Diamonblue™ Advanced Corrosion Protection

Indoor and outdoor coils are coated to resist corrosion in harsh outdoor environments

Ease of Maintenance & Installation

Modular product design ensures easy access to key components for cleaning and repairs, including washable, lift-out air filters

Remote thermostat pop-out wiring module allows easier wiring and unit change out without rewiring thermostat

Surehold Front Cover System® securely attaches the front each time

May be installed flush with the floor

Sound Reduction Features

Two permanently lubricated fan motors for added durability and reduced sound levels indoors

Quiet, efficient rotary compressor mounted with vibration isolators to keep the compressor running smoothly and quietly

High-density insulation and steel inner wall block outdoor noise

Tangential blower wheel creates a wide path air flow that reaches the furthest corner of the guest room more quietly than conventional fans

Warranty & Service

2-year full warranty on parts and labor and 5-year limited warranty

Nationwide service network and U.S.-based Friedrich expert technical team ensures you get fast, knowledgeable service

CAPACITY RANGE

Electric Heat

COOLING

6,800-14,500 Btu
Up to 12.0 EER

Heat Pump

COOLING

6,800-14,500 Btu
Up to 11.9 EER

HEATING

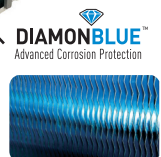
5,800-13,600 Btu
Up to 3.5 COP



Large tangential fan provides optimum airflow



See warranty documentation for full details.



* Energy management capability requires purchase of additional hardware and activation fee.

■ This is a bullet for a sustainability feature

ZoneAire® Select PTAC

SPECIFICATIONS

ELECTRIC HEAT MODELS, R-32 REFRIGERANT

Models ending in 'K' are 230/208V, models ending in 'R' are 265V

Model	PZE07K3SC	PZE09K3SC	PZE09R3SC	PZE12K3SC	PZE12R3SC	PZE15K5SC
SKU	B68-865	B68-866	B68-867	B68-868	B68-869	B68-870
PERFORMANCE DATA						
Cooling Btu	7,000/6,800	9,300/9,100	9,000	12,000/11,800	12,300	14,500/14,300
Cooling Watts	585/565	800/785	780	1,110/1,090	1,150	1,450/1,430
Energy Efficient Ratio, EER	12.0/12.0	11.6/11.6	11.5	10.8/10.8	10.7	10.0/10.0
Heater Size (kW)	3.5	3.5	3.5	3.5	3.5	5.0
Moisture Removal (pints/hr.)	0.69	1.37/1.69	1.1	2.32/2.56	2.81	4.29/4.44
Sensible Heat Ratio	89%	86%	84%	77%	75.7%	68.1%
ELECTRICAL DATA						
Voltage (1 PHASE, 60 Hz)	230/208	230/208	265	230/208	265	230/208
Volt Range	253-187	250-187	292-239	253-287	292-239	253-187
Current (Amps)	2.6/2.7	3.48/3.77	4.2	4.82/5.24	5.92	6.3/6.87
Power Factor	0.93/0.95	0.97/0.98	0.98	0.99/0.98	0.98	0.99/0.98
Compressor LRA	13.4	17.5	16.0	23.9	21.0	34.7
Compressor RLA	2.4	3.43	2.45	4.51	4.3	6.4
Outdoor Fan Motor, HP	0.07	0.07	0.07	0.07	0.07	0.07
AIRFLOW DATA						
Indoor CFM, HIGH	350	390	390	450	450	450
Indoor CFM, LOW	330	330	330	340	340	340
Vent CFM	75	75	75	75	75	75
PHYSICAL DATA						
Sleeve Dimensions (H x W x D)	16" x 42" x 13 3/4" (all models)					
Dimensions with Front (H x W x D)	16" x 42" x 21 1/2" (all models)					
Cut Out Dimensions (H x W x D)	16 1/4" x 42 1/4" (all models)					
Net Weight (lbs.)	90	94	94	106	94	107
Shipping Weight (lbs.)	103	105	105	117	105	118
R-32 Charge (oz.)	17.6	18.7	19.0	21.5	22.2	27.5
Dimensions with Packaging (inches)	19 3/4" x 43 1/2" x 23" (all models)					

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



ZoneAire® Select PTAC

SPECIFICATIONS

HEAT PUMPS MODELS, R-32 REFRIGERANT

Models ending in 'K' are 230/208V, models ending in 'R' are 265V

Model	PZH07K3SC	PZH07K2SC	PZH09K3SC	PZH09R3SC	PZH12K3SC	PZH12K5SC	PZH12R3SC	PZH15K3SC	PZH15K5SC
SKU	B68-872	B68-871	B68-873	B68-874	B68-875	B68-876	B68-877	B68-878	B68-879
PERFORMANCE DATA									
Cooling Btu	7,200/6,800	7,200/6,800	9,200/9,000	9,000	12,000/11,800	12,000/11,800	12,300	14,500/14,300	14,500/14,300
Cooling Watts	590/570	605/570	805/790	780	1,130/1,110	1,130/1,110	1,150	1,450/1,430	1,450/1,430
Energy Efficient Ratio, EER	11.9/11.9	11.9/11.9	11.4/11.4	11.5	10.6/10.6	10.6/10.6	10.7	10.0/10.0	10.0/10.0
Heater Size (kW)	3.5	2.5	3.5	3.5	3.5	3.5	3.5	3.5	5.0
Reverse Heating Btu	6,000/5,800	6,000/5,800	8,000/7,800	8,200	10,400/10,200	10,400/10,200	10,800	13,600/13,200	13,600/13,200
Heating Watts	500/485	500/485	690/670	685	895/880	895/880	1,005	1,245/1,210	1,245/1,210
COP	3.5/3.5	3.5/3.5	3.4/3.4	3.5	3.4/3.4	3.4/3.4	3.2	3.2/3.2	3.2/3.2
Moisture Removal (pints/hr.)	0.69	TBD	1.37/1.69	1.1	2.32/2.56	2.32/2.56	2.81	4.29/4.44	4.29/4.44
Sensible Heat Ratio	0.89	0.98	0.85	0.86	0.78	0.78	0.753	0.68	0.68
ELECTRICAL DATA									
Voltage (1 PHASE, 60 Hz)	230/208	230/208	230/208	265	230/208	230/208	265	230/208	230/208
Volt Range	253-187	253-187	253-187	292-239	253-187	253-187	292-239	253-187	253-187
Current (Amps)	2.6/2.8	2.63/2.74	3.6/3.9	3.1	5.0/5.4	4.9/5.3	5.1	6.3/6.9	6.4/7.0
Reverse Heat. Amps	2.3/2.4	2.1/2.3	3.1/3.3	3.1	4.0/4.4	3.9/4.2	4.5	5.4/5.8	5.5/6.0
Power Factor	0.93/0.95	0.93/0.95	0.97/0.98	0.98	0.99/0.98	0.99	0.98	0.99/0.98	0.99/0.98
Compressor LRA	13.4	13.4	17.5	16.0	23.9	23.9	21.0	34.7	34.7
Compressor RLA	2.4	2.4	3.43	2.45	4.51	4.51	4.3	6.4	6.4
Outdoor Fan Motor, HP	0.07	0.07	0.07	0.06	0.07	0.07	0.08	0.07	0.07
AIRFLOW DATA									
Indoor CFM, HIGH	350	424	390	390	450	412	450	471	450
Indoor CFM, LOW	330	365	330	330	340	365	340	412	340
Vent CFM	75	75	75	75	75	75	75	75	75
PHYSICAL DATA									
Sleeve Dimensions (H x W x D)	16" x 42" x 13 3/4" (all models)								
Dimensions with Front (H x W x D)	16" x 42" x 21 1/2" (all models)								
Cut Out Dimensions (H x W x D)	16 1/4" x 42 1/4" (all models)								
Net Weight (lbs.)	92.6	92.6	95	94	107	107	94	108	108
Shipping Weight (lbs.)	104	104	106	105	118	118	105	119	119
R-32 Charge (oz.)	17.6	17.6	18.7	19.0	21.5	21.5	22.2	27.5	27.5
Dimensions with Packaging (inches)	19 3/4" x 43 1/2" x 23" (all models)								

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Advanced energy management for Friedrich PTACs & Vert-I-Paks

NEW AND IMPROVED DESIGN

Featuring a sleek design with an intuitive user interface and fingerprint-resistant glass for an enhanced user experience.

REAL-TIME OCCUPANCY SENSOR

Integrated Occupancy Sensor uses a combination of motion and thermal sensing technologies for accurate occupancy detection at all times.

7-DAY PROGRAMMABLE

Tailored for maximum energy savings based on daily routines and personalized temperature schedules for each day of the week.

REMOTE MANAGEMENT*

Provides expansive solutions for remote monitoring and configuration from any computer or mobile device connected to the internet.

WIRELESS MESH NETWORK

Eliminates the need for additional networking equipment such as signal repeaters or multiple data collection boxes.

ROOM STATUS

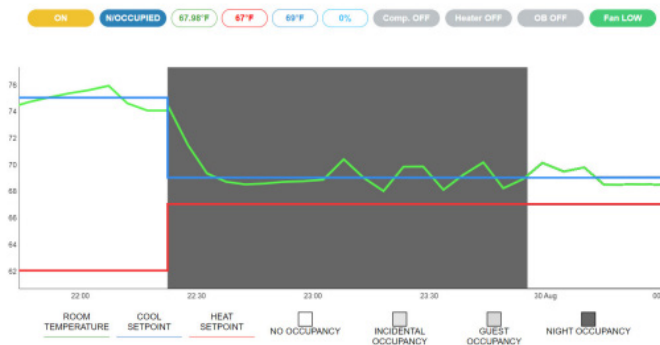
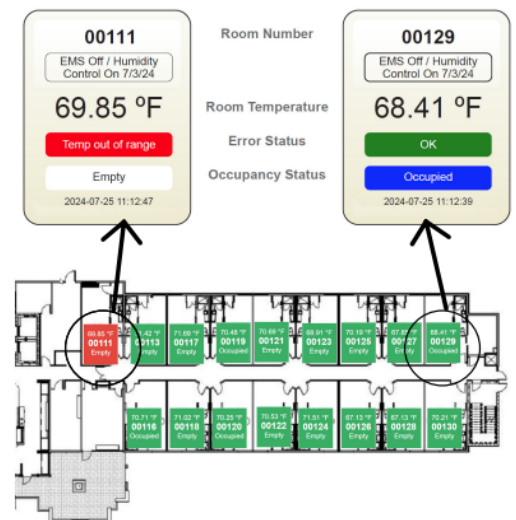
Displays operation, occupancy and energy efficiency status of each room.

ERROR ALERT

Built-in diagnostic tools to automatically send email alert notifications to hotel staff. Room tab will appear red when attention. Different users will receive an alert notification for settings.



Friedrich's EMRT4A/B and EMWRT4A/B



GRAPHICAL ROOM VIEW

Examine up to 30 days of room temperature, humidity, set points and occupancy modes.

TEMPERATURE SETBACK AND OPTIMIZATION

Automatically adjusts the temperature when the room is unoccupied in order to save energy. Continuously monitors and adjusts temperature rate in the room to maximize energy savings.

ENERGY REPORTS

Monitor energy use and can even evaluate the performance of energy saving features.

RUNTIME REPORTS

Provides average compressor and heater runtime percentage per day.



Accessories

DIGITAL REMOTE THERMOSTAT

RT7P - SKU: B23-285

24v, Wired (7 Std), single stage, wall-mounted, 7-day programmable thermostat, three fan speeds (auto/low/high), and an easy-to-read large backlight display.



RT7P

RT7 - SKU: B23-284

24v, Wired (7 Std), non-programmable, wall-mounted thermostat (unit powered capable), three fan speeds (auto/low/high), and an easy-to-read backlight display.



RT7

WRT2

Wireless wall-mounted thermostat (battery powered). Wireless transmitter (24v), 7-day programmable, three fan speeds (auto/low/high), and an easy to read large backlight display.



WRT2

ENERGY MANAGEMENT THERMOSTATS

VRPXEMRTA4

VRPXEMWRTA4 (FRESH Aire® PTAC CONTROLLERS)

VRPXEMRTA4 wired wall controller, and VRPXEMWRTA4 wireless controller with occupancy sensor designed for FreshAire® PTAC control. Built-in RH control to maximize FreshAire® PTAC capabilities. Used with EMOCT for HVAC energy management.

EMWRTA4

Wireless thermostat with occupancy sensor. Built in RH control to maximize FreshAire® capabilities. Used with EMOCT for HVAC energy management .

EMRTA4

Wired thermostat with occupancy sensor.

EMRAF

Remote access fee.

EMOCT

Online connection kit for Energy Management.



EMWRTA4, EMRTA4,
VRPXEMRTA4, VRPXEMWRTA4

EMOCT

***NOTE: The FreshAire® PTAC** when paired with 12v wall controller **VRPXEMRTA4** or **VRPXEMWRTA4** will operate as a fully variable speed unit. When used with other compatible 24v thermostats, the unit will operate at multiple speeds in either cooling or heating mode.

Accessories

WALL SLEEVE

PDXWSEZ - SKU: B50-893

Easy snap-together design. Galvanized, zinc-coated steel with a polyester finish. The wall sleeve is insulated for thermal efficiency and noise reduction.



PDXWSEZ

PDXWSA - SKU: B93-470

Galvanized steel is prepared in a multi-step process for stronger paint adhesion, then powder coated with a polyester finish and cured in an oven for exceptional durability. The wall sleeve is already assembled and insulated for thermal efficiency and noise reduction.

SLEEVE DIMENSIONS: 16" H x 42" W x 13 3/4" D

CUT OUT DIMENSIONS: 16 1/4" H x 42 1/4" W

FRONT COVER DIMENSIONS: 16" H x 42" W x 7 3/4" D



PDXWSA

DEEP WALL SLEEVES

PDXWSEXT18 - SKU: B50-891

For walls up to 17 1/2" deep.

PDXWSEXT24 - SKU: B50-892

For walls up to 23 1/2" deep.

PDXWSEXT - SKU: B50-890 (Custom depth wall sleeve)

One-piece, extended wall sleeve with built-in baffle for walls from 13 1/4" to 25 1/2" deep are available by special order.



Deep wall sleeve extension PDXWSEXT18 shown with weather panel in place.

REMOTE THERMOSTAT ESCUTCHEON KIT

PDXRTA - SKU: B22-962

For use with ZoneAire® Premier only (10 pack)

PDXRTB - SKU: B22-963

For use with ZoneAire® Select and FreshAire® PTACs (10 pack)

Kit contains escutcheons that can be placed over the Factory control buttons (recommended when a remote wall mounted thermostat is used as controls become inoperable). The escutcheon directs the user to the wall thermostat for operation and retains the LED window to display error codes and diagnostic information. 10 pack.



PDXRTA



PDXRTB

CONDUIT KIT / JUNCTION BOX PXCJA - SKU: B22-965

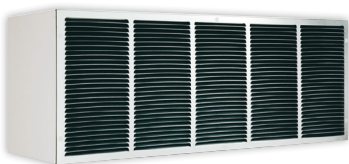
Hard wire conduit kit with junction box for 208/230V and 265V units (subbase not required). Kit includes a means of quick disconnect for easy removal of the chassis.



PXCJA

STANDARD GRILLE PXGA - SKU: B92-620

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



PXGA

ARCHITECTURAL GRILLES

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

PXAA - SKU: B92-621

Clear extruded aluminum.

PXBG - SKU: B98-804

Beige acrylic enamel.

PXSC - SKU: B50-895

Available in custom colors.



PXAA

DECORATIVE SUBBASE (black) PXSBA - SKU: B72-964

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.



PXSBA



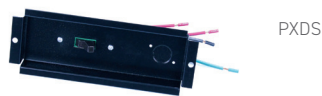
PXSBA

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 power disconnect switch or circuit breaker.

Friedrich No.	SKU:	Description
PXSB23020	B50-763	Electrical Subbase - 230V 15 & 20A
PXSB23030	B50-764	Electrical Subbase - 230V 30A
PXSB26515	—	Electrical Subbase - 265V 15A
PXSB26520	—	Electrical Subbase - 265V 20A
PXSB26530	—	Electrical Subbase - 265V 30A

SUBBASE DISCONNECT SWITCH PXDS - SKU: G38-615



POWER CORDS

Universal power cords enable properties to select the appropriate heater size. Reference the adjacent table for power cord options.

ZONEAIRE® PREMIER	SKU	FRESHAIRE®	SKU		Length
PXPC23015A	B19-260	PXPCFA23015	B22-332	LCDI 230V 15A Cord - 2.5 kW	67 in.
PXPC23020A	B19-261	PXPCFA23020	B22-333	LCDI 230V 20A Cord - 3.5 kW	67 in.
PXPC23030A	B22-966	PXPCFA23030	B22-334	LCDI 230V 30A Cord - 5.0 kW	67 in.
PXPC26515A	B19-262	PXPCFA26515	B22-335	Non-LCDI 265V 15A Cord - 2.5 kW	27 1/2 in.
PXPC26520A	B19-263	PXPCFA26520	B22-336	Non-LCDI 265V 20A Cord - 3.5 kW	27 1/2 in.
PXPC26530	B17-959	PXPCFA26530	B22-337	Non-LCDI 265V 30A Cord - 5.0 kW	27 1/2 in.

PXFTA (ZONEAIRE® PREMIER) - SKU: L52-116



PXFTB (ZONEAIRE® SELECT AND FRESHAIRE® MODELS) - SKU: L52-117

Air filters. 10 pack. Each PTAC requires 2 filters.



PXFAFT10 (FRESHAIRE® MODELS) - SKU: L52-115

Replacement Merv 8 filters. 10 pack. Each PTAC requires 1 filter.



LATERAL DUCT ADAPTER PDXDAA - SKU: B88-264

Attaches to the Friedrich PTAC/PTHP unit to direct up to 35% of the total airflow to a second room. The unit-mounted duct plenum features a front-mounted aluminum grille that has two positions to provide the most optimal air direction. The air may be directed to either the left or the right of the unit through the supplied 3 1/2" H x 7" W x 47" L plenum. Plenum may be cut to length by the installer. Kit includes duct plenum, front grille, 47" duct extension, duct discharge grille, duct end cap and all necessary mounting hardware.



PDXDAA and PDXDEA ship together

LATERAL DUCT EXTENSION PDXDEA - SKU: B88-265

Additional 3 1/2" H x 7" W x 47" L plenum used with the LATERAL DUCT ADAPTER. A maximum of three duct extensions may be used together. Note: Ducted airflow is reduced as duct length is increased.



APWM1

FreshAire® Purifier APWM1 (ALL MODELS)

FreshAire® Purifier by iWaves features needlepoint bi-polar ionization to address any mold, bacteria, virus, allergens, and VOC's that may be in your air stream to ensure delivery of healthy, clean, purified air.



PXDR10

CONDENSATE DRAIN KIT PXDR10 - SKU: B12-496

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. 10 pack.



These products meet a stringent set of our company's internally defined sustainability standards

FreshAire® PTAC models PVH09K, PVH09R, PVH12K, PVH12R

Warning: Coastal Region Installations. Friedrich Air Conditioning recommends that owners take necessary precautions to protect the interior space, furnishings, and hardware from corrosion when installing make-up air products in coastal applications. Our FreshAire PTAC delivers up to 52 CFM of direct outside make-up air into the space. If installed within 2 miles of a body of salt water, due to the high salt content of coastal air and the high latent load of the make-up air, premature corrosion will occur naturally on non-protected items. Friedrich Air Conditioning is not responsible for premature corrosion resulting from the use of make-up air products.

FreshAire PTAC may be covered under one or more of the following patents: 10,408,504 and 10,436,457. Additional patents pending.

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



Friedrich Air Conditioning Co. | Friedrich.com



QUIET, ENERGY-EFFICIENT **HEATING & COOLING** FOR COMFORTABLE STAYS



VERT-I-PAK®

THE BEST HVAC SOLUTIONS
FOR HOSPITALITY & MULTI-FAMILY

FRIEDRICH® VERT-I-PAK® SERIES SINGLE PACKAGE HEAT PUMPS

A quiet, energy-efficient option for suites, extended stay properties, assisted living, and more, Friedrich Vert-I-Paks prioritize guest comfort. Delivering high performance with a sleek look—in options available for hospitality, multi-family dwellings, and more—Vert-I-Paks are a smart solution for commercial properties.



FRIEDRICH

DELIVERING BOLDLY CRAFTED COMFORT

Designed To Deliver Uncompromised Performance

Ideal for both hospitality and multi-family comfort solutions, Friedrich® Vert-I-Pak® heat pumps install easily and discreetly. Plus, they feature energy-saving high efficiencies for year-round comfort and savings.



High Efficiencies

Vert-I-Pak supports decarbonization efforts with heat pump operation down to 10°F and low ambient capability with active defrost and base pan heat.



Earth-friendly

All units are compliant with the new A2L refrigerant federal regulations, using R-32 refrigerant and offering superior energy efficiency and a reduced environmental footprint.



Energy- & Cost-saving

Experience significant energy and cost savings with our latest model that features a lower runtime cost and reduced electrical heating expenses thanks to the efficient heat pump.



Flexible Installation

Mounts from any interior side (front, right, or left), features a 10" round duct for small chassis units, a fully packaged design, and comes precharged and prewired for a hassle-free setup.

Installs discreetly for a natural and more homelike look.



INDOORS

Installs out of sight, so your guests will only see a wall thermostat.



OUTDOORS

Eliminates the clutter of outdoor condensing units, and is available with a sleek architectural grille in custom colors to match building exteriors.

The Vert-I-Pak[®] Advantages

Comfort shouldn't be complicated. Whether you're catering to guests at a hotel or families living in an apartment complex, Friedrich[®] Vert-I-Paks are built to last, built to perform, and built to cost you less.

Advanced Connectivity

Every unit can be paired with either a wired or wireless thermostat for easy operation. Plus, a suite of energy management thermostats are available that have a motion and thermal occupancy sensor, auto changeover, energy presets, and comprehensive remote management capabilities¹ accessible via mobile or web interfaces and integrated with BACnet for additional energy savings.

Trusted Warranties & Support

An industry-leading warranty features a 1-year full warranty on parts and labor and 5-year limited warranty. Plus, a nationwide service network and US-based expert technical team ensures you get fast, knowledgeable service.

¹Energy management capability requires purchase of additional hardware and service fees.

Diamonblue[™] Advanced Corrosion Protection

Safeguards both coils from deterioration, significantly extending the lifespan of the unit. This specialized coating ensures reliable performance and durability even in challenging conditions like coastal environments.



Advanced Condensate Removal

All Vert-I-Paks feature slinger ring technology for evaporative cooling and a primary condensate removal. A secondary overflow lip on the drain pan and drip edge on wall plenums help prevent leaks and water damage.

NOTE: VHA18 and VHA24 models use a gravity-fed drain pan (VPDP2).

A Superior Product That Delivers Superior Performance

With Friedrich[®] Vert-I-Pak[®], you can feel confident that both you and your occupants will be satisfied. Each unit is expertly engineered to minimize noise, maximize comfort, and optimize efficiencies.

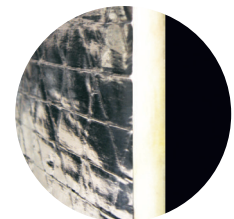
Boldly Crafted for Quieter Performance

Friedrich's free-floating chassis design slides into the wall plenum and a gasket firmly seals the chassis to the patented telescoping plenum. This eliminates vibration noises that are transmitted into the room in competitors' metal-on-metal fixed installations. Extra thick, vibration-absorbing rubber grommets are mounted on a durable base, engineered for structural and acoustic integrity.

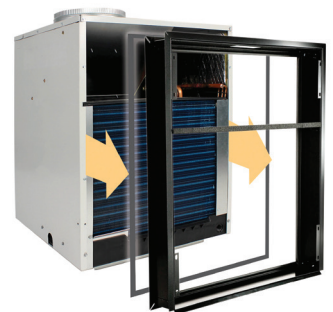


Scan to Watch Video:
QUIETMASTER[®]
TECHNOLOGY

Chassis slides into gasketed, telescoping wall plenum



Foil-backed, ½" insulation blanket inside the cabinet reduces sound transmitted into the guest room



Advanced Energy Management

The comfort of your guests and occupants is paramount, and Friedrich's energy management solution makes it easier than ever to optimize their experience while maximizing efficiency and savings.



GUEST EXPERIENCE

New & Improved Design

A sleek design, fingerprint-resistant glass, and an intuitive interface enhance the user experience

Real-time Occupancy Sensor

Combines motion and thermal sensing technologies for accurate occupancy detection

Program To Match Daily Schedules

Tailored for maximum energy savings based on daily routines and personalized weekly temperature schedules

¹Requires an added accessory "Online Connection Kit" (EMOCT4) and a one-time license fee (EMRAF4).

EFFICIENT MONITORING

Remote Management¹

Provides expansive solutions from any computer or mobile device connected to the internet

Wireless Mesh Network

Eliminates the need for additional networking equipment such as signal repeaters or multiple data collection boxes

Graphical Room View

Examine up to 30 days of room temperature, humidity, setpoints, and occupancy modes



Room Status

Displays operation, occupancy, and energy efficiency status of each room

Error Alert

Built-in diagnostic tools automatically send email alert notifications to hotel staff

Temperature Setback & Optimization

Automatically adjusts the temperature when rooms are unoccupied and continuously adjusts temperature rate to maximize energy savings

Energy Reports

Monitor energy use and evaluate performance of energy-saving features

Runtime Reports

Provides daily average of compressor and heater runtime

Vert-I-Pak vs. The Competition

ADVANCED FEATURES YOU'LL FIND ON FRIEDRICH VERT-I-PAK

1. Floating chassis design slides into a wall plenum and is held firmly in place by a sealing gasket, reducing noise from vibration transfer.
2. ½ inch foil-backed insulation added on the inside of the chassis reduces sound transmission into the guest room.
3. Condensate removal system uses slinger ring technology to cool the coil and increase efficiency.
4. Dynamically balanced blower with large, vibration-absorbing motor mounts for smooth and quiet operation.
5. Patented telescoping plenums (accessory) easily adapt to more installations.
6. 5 year limited warranty²; 1 year labor warranty.
7. A full suite of factory approved indoor air quality accessories designed to deliver healthy air.

WHAT YOU WILL (OR WON'T) FIND ON MANY COMPETITORS' PRODUCTS

1. 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.
2. No insulation on the unit to reduce noise transmission into the guest room.
3. Hard plastic feet on the unit base are less durable and transfer harsh vibration noise.
4. Different plenums needed based on varying wall depths.
5. No labor warranty.
6. No approved indoor air quality accessories.

²See warranty documentation for details.

A Better Solution for Lodging and Hospitality

Maximize guest comfort without sacrificing savings or efficiency year-round with Friedrich® Vert-I-Pak®—a better solution for hospitality.

Why Choose Vert-I-Pak

It offers a better alternative to whole-building solutions, with features like:

- Lower installed cost
- Independent metering for no prorating
- Individual temperature control (one unit can heat while others cool)
- Reduced risk of spaces becoming uninhabitable during repairs
- Easy access for maintenance or replacement

It's a better heating and cooling option, inside and out:

- Eliminates outdoor units and vandalism barriers
- Completely self-contained
- No refrigerant lines running from floor to floor
- Quick, easy replacement maintains livable spaces

It provides improved guest comfort:

- Individually controlled for tailored comfort
- Backup auxiliary electric heat
- Ability to duct air where it's needed, not just on the outside wall



Unmatched Comfort for Multi-family & Residential Spaces

The Friedrich® Vert-I-Pak® offers unmatched comfort and efficiency with advanced heating and cooling features.

Sustainable Comfort – Our versatile heat pumps, available in sizes up to 24k, support decarbonization and electrification efforts, making them an eco-friendly choice.

A Peaceful Environment – Guests experience superior quiet operation with our QuietMaster® technology, featuring strategically placed gaskets to further enhance noise reduction for a peaceful environment.

Enhanced Air Quality – Friedrich FreshAir® IAQ combines MERV 13 filtration, and bi-polar ionization to provide enhanced indoor air quality.

High Performance Year-round – Equipped with low ambient technology, our heat pumps operate efficiently down to 10°F and include active defrost capabilities for optimal performance.



Vert-I-Pak® Specifications

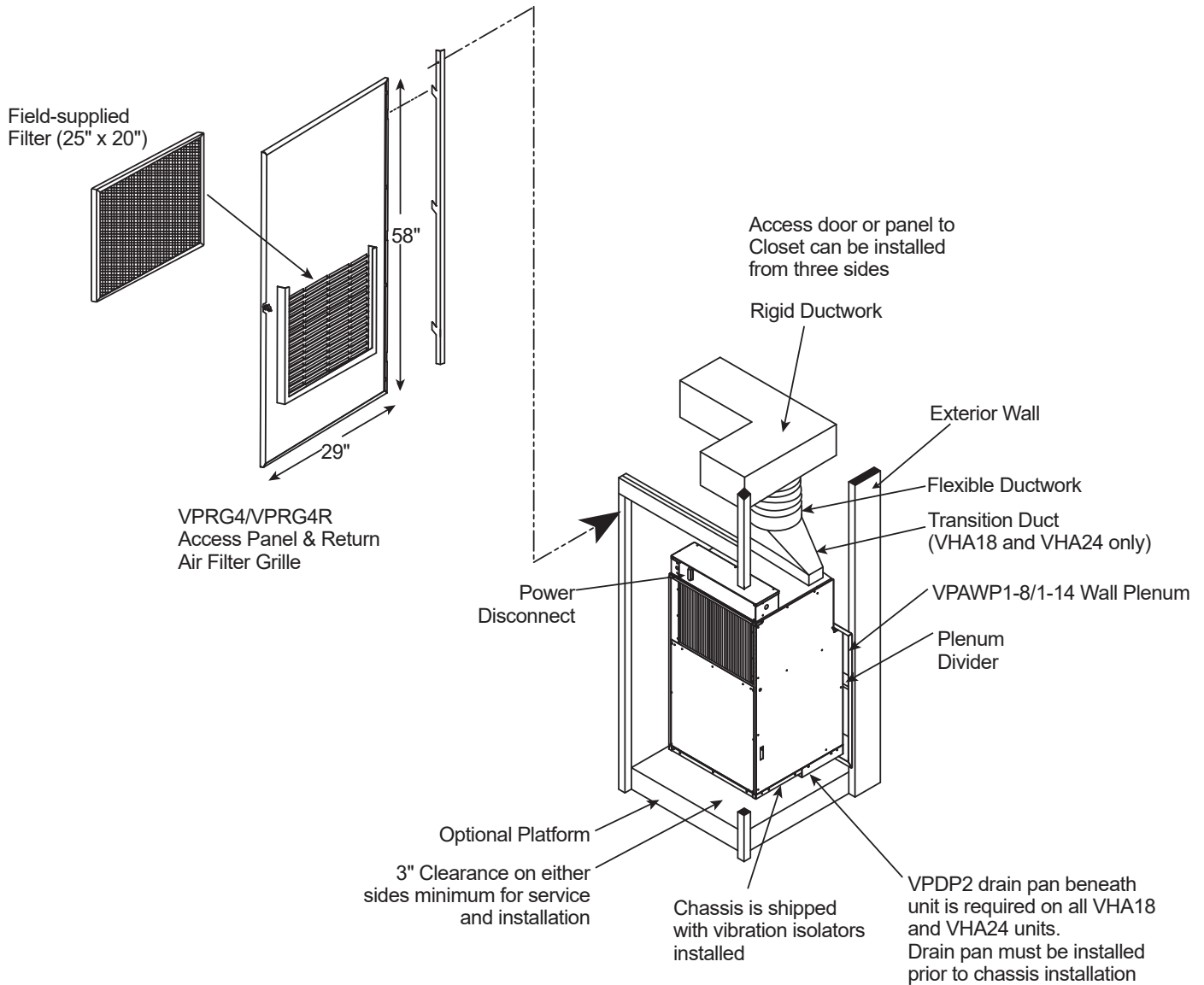
MODEL	VHA09K		VHA09R	VHA12K	VHA12R	VHA18K34	VHA18K50	VHA18R	VHA24K50	VHA24K75	VHA24R50	VHA24R75
COOLING DATA												
Total Cooling Cap. (Btu/hr) @ 95°F	9,400		9,400	11,200	11,200	17,800		17,800	22,600		22,600	
Sensible Cooling Cap. (Btu/hr)	7,100		7,100	8,800	8,800	13,100		13,100	14,700		14,700	
Seer2	12.3		12.3	12.3	12.3	12.1		12.1	12.1		11.9	
EER2	10.6		10.6	10.6	10.6	10.6		10.6	10.6		10.6	
Power (W)	887		887	1,057	1,057	1,679		1,679	2,132		2,132	
VOLTAGE	208/230		265	208/230	265	208/230		265	208/230		265	
HEATING DATA												
Heat Pump Cap. (Btu/hr) @ 47°F	8,600		8,600	10,400	10,400	16,200		16,200	19,500		19,500	
Heat Pump Cap. (Btu/hr) @ 17°F	4,900		4,900	6,000	6,000	9,800		9,800	12,400		12,400	
HSPF2	6.3		6.3	6.3	6.3	6.7		6.7	6.7		6.7	
Heater size (kW)	2.5/3.4/5.0		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		2.5/3.4/5.0/7.5	2.5/3.4/5.0/7.5/10.0		2.5/3.4/5.0/7.5/10.0	
PHYSICAL												
Dimensions (w X d x h)	23"X23"X32"		23"X23"X32"	23"X23"X32"	23"X23"X32"	23"X23"X47"		23"X23"X47"	23"X23"X52"		23"X23"X52"	
Refrigerant	R32											
Volume (oz)	26		26	28.7		40		40	44		44	
Airflow (cfm)	360			420			560			580		
VENTILATION AIR												
CFM	UP TO 60											

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

JOHNSTONE SUPPLY VERT-I-PAK SKU LIST	
FRIEDRICH MODEL	SKU
VHA09K25RCQ	B50-640
VHA09K34RCQ	B50-641
VHA09K50RCQ	B50-642
VHA09R25RCQ	B50-643
VHA09R34RCQ	B50-644
VHA09R50RCQ	B50-645
VHA12K25RCQ	B50-646
VHA12K34RCQ	B50-647
VHA12K50RCQ	B50-648
VHA12R25RCQ	B50-649
VHA12R34RCQ	B50-650
VHA12R50RCQ	B50-651
VHA18K25RCQ	B50-652
VHA18K34RCQ	B50-653
VHA18K50RCQ	B50-654
VHA18K75RCQ	B50-655
VHA18R25RCQ	B50-656
VHA18R34RCQ	B50-657
VHA18R50RCQ	B50-658
VHA18R75RCQ	B50-659
VHA24K10RCQ	B50-660
VHA24K25RCQ	B50-661
VHA24K34RCQ	B50-662
VHA24K50RCQ	B50-663
VHA24K75RCQ	B50-664
VHA24R10RCQ	B50-665
VHA24R25RCQ	B50-666
VHA24R34RCQ	B50-667
VHA24R50RCQ	B50-668
VHA24R75RCQ	B50-669



Typical Vert-I-Pak® Installation



Vert-I-Pak® Accessories

ARCHITECTURAL LOUVER (optional)

Extruded aluminum grille that attaches to the outdoor section of the wall plenum; VPSC2 and VPSC2-42 can be ordered in custom colors.

Models – VPAL2 - **SKU: B73-619** VPAL-42 &

VPSC2 - **SKU: B73-620** /VPSC2-42

Dimensions – 25 9/16" W x 31 1/16" H



VPAL2



VPAWP1-8/14

WALL PLENUM (required)

Two-part telescoping sleeve that sits inside the exterior wall penetration.

Models – VPAWP1-8 - **SKU: B73-617** (telescopes from 4–8")

& VPAWP1-14 - **SKU: B73-618**

(telescopes from 8–14")

Dimensions – 24 1/8" W x 30 3/8" H

24 5/8" W x 30 7/8" H (cutout)

RETURN AIR GRILLE/ACCESS PANEL/SOLID DOOR ACCESS PANEL (optional)

Hinged panel allows access to unit and return air filter.

Models – VPRG4 - **SKU: B73-621** (default left-hinged),

VPRG4R - **SKU: B62-344** (right-hinged) &

VPRG4SD - **SKU: B62-346** (solid door)

Dimensions – 29" W x 58" H

27" W x 55 3/4" H (cutout)



VPRG4/VPRG4R



VPRG4SD

NOTE: A field-supplied filter should be mounted on the inside grille; Panel can be mounted with return air opening/louvers on top for better sound attenuation.

FIRST COMPANY SLEEVE ADAPTER (optional)

Single-piece, welded adapter easily connects to Friedrich chassis and allows retrofit into existing First Company® SPXR-series single package unit wall sleeve and louver.

Models – VPASA1 - **SKU: B18-869**

NOTE: Only compatible with Friedrich VHA09 and VHA12 units.



VPASA1

DRAIN PAN (required for VHA18 and VHA24 models)

Must be installed prior to chassis for easy installation/removal.

Models – VPDP2 - **SKU: B87-757**



VPDP2

TRANSITION KITS (optional)

Single piece allows retrofit into existing 10" round flexible ducts for any VTACs.

Model – VPTRL - **SKU: X84-010**

(compatible with VHA18, VHA24)

NOTE: VHA09 and VHA12 (RCQ series) have 10" round supply take-off.

Vert-I-Pak® Accessories

Heat Pump Thermostats

RT7P - SKU: B23-285

Wired, wall-mounted programmable thermostat with backlight

RT7 - SKU: B23-284

Wired, wall-mounted digital thermostat with backlight

WRT2

Wireless, wall-mounted programmable thermostat with backlight



RT7P



RT7



WRT2



EMRTA4/EMWRTA4 - White
EMRTB4/EMWRTB4 - Black

Energy Management Thermostats

EMRTA4/EMWRTA4 - White

EMRTB4/EMWRTB4 - Black

Wired/wireless w/occupancy sensor

EMRAF4

Remote access fee

EMRDS4

Wireless door/window sensor

EMCWP4

Wall plate

EMOCT4

Online connection kit

EMROS4

Remote occupancy sensor

EMRTS4

Remote temperature

EMRWOS4

Wireless occupancy sensor

FreshAir® IAQ

Friedrich® FreshAir® IAQ are proven, easy-to-install accessories that improve the health and quality of indoor air.

FILTRATION (field-supplied filter)

FreshAir MERV 13 filtration is effective at capturing and removing microorganisms from the air, which according to ASHRAE¹, the leading authority on the science behind advanced indoor air quality, include harmful airborne viruses.

¹Based on ASHRAE Guidance for Building Operations during the COVID-19 Pandemic.

FRESHAIR® MERV 13 FILTER BRACKET KITS

VPFK0912-2 - SKU: L52-118

2" MERV 13 filter bracket kit for VHA09, VHA12

VPFK0912U - SKU: L52-119

2"-4" MERV 13 telescoping filter bracket kit for VHA09, VHA12

VPFK1824-2 - SKU: L52-120

2" MERV 13 filter bracket kit for VHA18, VHA24

VPFK1824U - SKU: L52-121

2"-4" MERV 13 telescoping filter bracket kit for VHA18, VHA24

FRESHAIR® PURIFIER - APWR1

FreshAir® Purifier by iWaves is an optional accessory that kills mold, bacteria, and viruses—while effectively removing odors and VOCs.

OUTSIDE AIR VENTILATION

All Friedrich Vert-I-Pak units are manufactured featuring passive outside air ventilation. Up to 60 CFM of fresh outside air can be brought into the space during unit operation.



VPFK0912-2
VPFK1824-2

VPFK0912U
VPFK1824U



APWR1

Friedrich® Vert-I-Pak®

Fast Features

Cooling & Heating Efficiencies Up To:

12.3 SEER2/10.6 EER2/6.7 HSPF2

Cooling & Heating Capacities:

COOLING: 9,400–22,600 Btu

HEATING: 8,600–19,500 Btu

Refrigerant Type: R-32

Key Features:

- QuietMaster® technology
- FreshAir® IAQ
- Integrated energy management
- Advanced condensate removal

Additional Standard Features:

- **High Efficiencies** – Vert-I-Pak supports decarbonization efforts with heat pump operation down to 10°F and low ambient capability with active defrost and base pan heat.
- **Earth-friendly** – All models are compliant with A2L refrigerant standards, offering superior energy efficiency and a reduced environmental footprint.
- **Flexible Installation** – Mounts from any interior side (front, right, or left), a 10" round duct is available for small chassis units, a fully packaged design, and comes precharged and prewired for a hassle-free setup.

Limited Warranty:

Parts & Labor – 1 year (standard) or 5 years



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THE MOST HVAC SOLUTIONS FOR LODGING AND MULTIFAMILY

VERT-I-PAK®

THE BEST HVAC SOLUTIONS
FOR HOSPITALITY & MULTI-FAMILY

FRIEDRICH

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ENGINEERED FOR THE WORLD'S TOUGHEST ENVIRONMENTS



HAZARDGARD® AIR CONDITIONERS

50 HZ | 60 HZ

UL LISTED for CLASS 1, DIV 2,
GROUPS A, B, C and D

CERTIFIED in accordance with ISA 12.12.01 and NFPA
70 (NATIONAL ELECTRIC CODE), ANSI/UL 484 Room
Air Conditioners

KSA registered model tested in accordance with
SASO 2681

 **FRIEDRICH**
DELIVERING BOLDLY CRAFTED COMFORT



Hazardgard® meets T4 temperature classification

Unit surface temperatures will not rise above 135°C/275°F.

Operates at low ambient conditions without freezing at outdoor ambient temperatures as low as 7°C/45°F.

Tolerates higher outdoor temperatures up to 55°C /130°F.



The Friedrich Advantage

RELIABLE DESIGN BACKED BY ROBUST ENGINEERING

For almost 40 years, industrial professionals have trusted Hazardgard® to deliver safe and reliable cooling in the most extreme conditions. Hazardgard® is specifically designed to cool laboratories, control rooms, 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.



Quality

Friedrich is an established player in the air conditioning industry and known for manufacturing quality products.



Product Reliability

Used across the globe, Hazardgard® is a tested and reliable product and not quick-fix, job shop alteration.



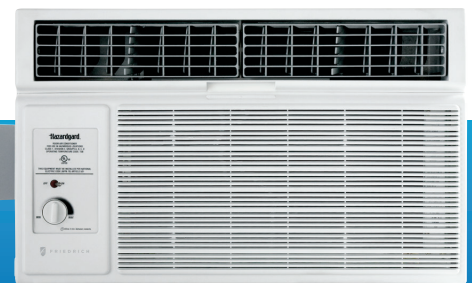
Durability

Robust engineering, commercial grade components and extensive field testing provide the durability and safety required in hazardous locations.



Availability

Off the shelf models allow for efficient manufacturing, shorter lead times and standardized component parts.



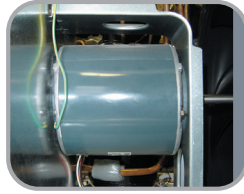
HAZARDGARD® IS RATED FOR THESE CONDITIONS:

Model	Hazardous Location Classification: Gases	
SH15M30A SH20M30SA SH20M30B SH20M50B SH24N30A	<p>National Electrical Code, NFPA 70</p> <p>ARTICLE 501: Class 1, Division 2, Group A / B / C / D , Temperature Class T4</p> <p>ARTICLE 505: Class 1, Zone 2, Group II C / II B / II A , Temperature Class T4</p>	

For global applications, Hazardgard® cooling capacities are tested in a certified laboratory at moderate (T1*) and hot (T3*) climate conditions in accordance with SASO (Saudi Arabian Standards Organization) Standard 2681. SASO Standard 2681 is adopted from ISO Standard 5151 for testing and rating for performance of non-ducted air conditioners and heat pumps. Model SH20M30SA is KSA Registered in accordance with SASO2681 and meets SASO 2663 Energy Efficiency standard.

Durability & Reliability

- Permanent split capacitor motor
- Hermetically sealed refrigeration system
- Environmentally sealed on/off switch and gold plated contacts in thermostat for corrosion resistance
- Solid-state control relays for compressor and fan operation
- Commercial grade, enclosed fan motor with hermetically sealed overload for arc-free operation
- Direct-wired (field supplied), 15-amp circuit with time delay fuse that will tolerate current surge without tripping the breaker
- Powder Coated 22-gauge, G60 steel air conditioner cabinet for corrosion protection and to withstand years of hard use
- Stainless steel fan shaft



Performance in Extreme Conditions

- Hot gas bypass for cooling operation at low ambient temperatures, down to 45°F / 7°C without freezing
- Designed to tolerate high ambient temperatures, allowing units to operate in T3 conditions

Coated Coils for Corrosion Resistance

- ElectroFin® 5-stage, immersion ecoat process, or Diamonblue™ Advanced Corrosion Protection on 100% of metallic surfaces on the outdoor coil provides outstanding corrosion resistance protection and extends the life of the unit, especially in coastal or corrosive environments.

Diamonblue™ Advanced Corrosion Protection

- STANDARD ON ALL MODELS (except SH24N30A, see below)
- Anti-corrosive, hydrophilic coating



5-STAGE ECOAT
Corrosion Protection



ElectroFin® 5-stage, Immersion Ecoat Benefits:

MODEL SH24N30A ONLY

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

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)



Trusted to perform in these applications

- Offshore oil rigs, on-shore oil company offices and 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
- Recycling plants
- Furniture refinishing workshops
- Office complexes where methane is a by-product
- Hazardous materials storage

SPECIFICATIONS

Model	SKU	Cooling Capacity Btu/Hr.	Electrical Characteristics			Circuit Rating Breaker or T - D Fuse	Energy Efficiency Ratio EER	Moisture Removal Pints/ Hr	Air Circulation CFM	Refrigerant
			Volts Rated	Cooling Amps	Cooling Capacity (KW)					
			Volts - Amps							
60 HERTZ										
SH15M30A	B91-438	15,700/15,700	230/208	7.9/7.8	4.60/4.10	250V-15	9.7/9.7	4.0	375	R-410A
SH20M30B	B91-439	21,000/21,000	230/208	10.5/9.4	6.15/6.15	250V-15 (230V) / 250V-20 (208V)	9.7/9.6	5.5	375	R-410A
SH20M30SA	—	19,000/19,000	220	8.5	5.57	250V-20 (230V) / 250V-20 (208V)	9.7/9.6	5.5	375	R-410A
SH24N30A	B62-683	24,000/24,000	230/208	11.8	6.8	250V-20	9.7/8.5	8.0/7.5	385	R-410A
50 HERTZ										
SH20M50B	B62-682	21,000/19,100	240/220	11.6/10.3	6.15/6.15	250V-15	8.8/8.8	7.0/7.0	425	R-410A

INSTALLATION INFORMATION

Model	Dimensions Inches						Window Width Inches		In-Wall Installation Finished Hole Inches			Weight Lbs.	
	Height	Width	Depth with Front A	Depth J Box to Louvers B	Minimum Extension Into Room	Minimum Extension Outside	Min.	Max.	Height	Width	Max. Depth C	Net	Shipping
SH15M30A	15 15/16"	25 15/16"	27 3/8"	6"	3 1/16"	16 15/16"	27 7/8"	42"	16 3/16"	26 3/16"	6"	140	167
SH20M30B	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"	166	170
SH20M30SA	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"	166	170
SH24N30A	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"	180	185
SH20M50B	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"	171	175

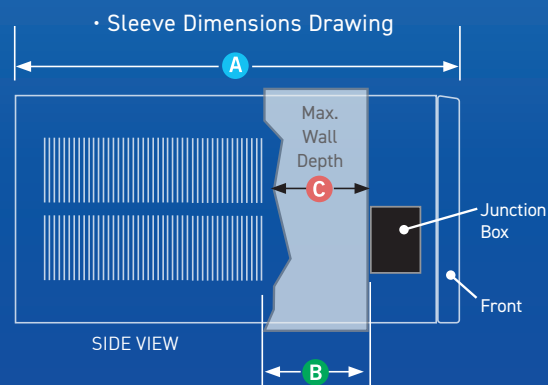
Due to continuing engineering research and technology, specifications are subject to change without notice.

U.S. MAXIMUM outdoor ambient operating temperature is 115°F. (46°C) MAXIMUM TEMPERATURE RATING FOR CLASS 1, DIVISION 2, GROUPS A, B, C, D.

Capacity and efficiency values at each climate conditions are available upon request.

NOTE: Hazardgard unit must be hard-wired.

Manufactured under Design Patent DES 368, 306 decorative front; Utility Patent 5, 662, 058.



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