

# Friedrich Floating Air® Series Ductless Mini-Split Systems

FEATURING **FastPro**® DESIGN

**SINGLE & MULTI ZONE  
SYSTEMS**



 **FRIEDRICH**

DELIVERING BOLDLY CRAFTED COMFORT



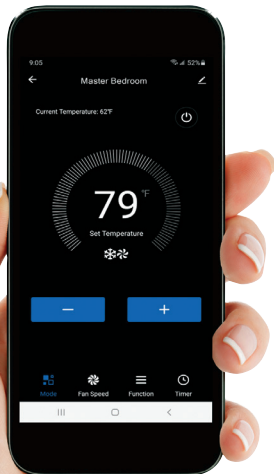
# FLEXIBLE, EASY-TO-INSTALL ZONED COMFORT SOLUTIONS FROM THE LEADER IN ROOM AIR CONDITIONING

Whether you're heating and cooling a single room or multiple rooms, you won't find quieter, more energy-efficient solutions than Friedrich ductless split systems. Choose from sleek wall-mounted models, ceiling cassettes that mount flush with the ceiling, and ducted units that install out of sight.

## RESIDENTIAL APPLICATIONS



## LIGHT COMMERCIAL APPLICATIONS



## SMART HOME READY

Control with the FriedrichGo™ app or by voice command. Built-in Wi-Fi available on Floating Air® Premier and Pro wall-mounted models, and on Floating Air® Pro ceiling cassette models

# ALL OF THE ADVANTAGES OF DUCTLESS SPLIT SYSTEMS AND FRIEDRICH DEPENDABILITY

## 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 air ducts\*

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



## Zone cooling flexibility

Independently condition up to five separate zones using only a single outdoor unit. Cool or heat only the zones that are in use. Set individual comfort levels for each zone.



## FreshAir® IAQ ready

Easy-to-install FreshAir® IAQ accessories improve the health and quality of indoor air. **UVL1** light kit removes bacteria, viruses, mold and fungus from circulated air. **APWM1** air purification kills mold, bacteria and viruses, and effectively removes odors and VOCs.

## Available built-in Wi-Fi

Control units with the FriedrichGo™ app. Easy to set up and use. Compatible with Amazon Alexa. Available on Floating Air® Premier and Pro wall-mounted models, and on Pro ceiling cassette models.



## Friedrich Precision Inverter® delivers exceptional energy efficiency and smooth performance

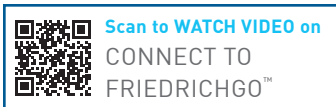
Precision Inverter technology varies the compressor, the outdoor and the indoor fan speeds, eliminating constant compressor start-ups/shut-downs that traditional systems require to maintain the set temperature.

Each system can adjust capacity and cooling output to provide only the amount of cooling needed at a given time. The result is optimal comfort with low energy costs.

THE ADVANTAGES OF INVERTER DUCTLESS SPLIT SYSTEMS	
TRADITIONAL SYSTEM	INVERTER SYSTEM
At initial start up, a fixed capacity system slowly reaches the set temperature.	At initial start up, utilizes variable capacity to quickly reach the set temperature.
Complete shutdown once set temperature is achieved.	Reduces capacity as set temperature is achieved.
Temperature within the space rises until 2nd system start up.	Variable capacity maintains set temperature keeping space comfortable with reduced energy consumption.
System works at full capacity to again reach set temperature.	
System cycles on and off continually to maintain the set temperature.	

## Soft start technology

Friedrich soft start technology starts the compressor with significantly reduced amperage at start up, saving energy versus compressors utilizing locked rotor amperage (LRA).



**FastPro**® DESIGN

# SMART DESIGN FEATURES THAT MAKE FRIEDRICH THE EASIEST DUCTLESS TO INSTALL, CLEAN & SERVICE

AVAILABLE ON FLOATING AIR® PREMIER AND PRO SERIES

## The Problem

On typical ductless indoor units, accessing the indoor coils is extremely difficult and takes so much time that a thorough cleaning may be next to impossible.

Access to piping, wire terminal blocks, the fan and fan components is also a challenge.

## The Solution:

Friedrich **FastPro**® was designed with the HVAC technician in mind. In a few easy steps that can be performed in minutes, the entire blower wheel assembly can be removed for easier, faster cleaning and service.

Also, you'll have easy access to the terminal blocks. Friedrich **FastPro**® will save you hours on the job site.



\*Faster than similar installation, cleaning and service performed on standard ductless wall-mounted units.

## IN A FEW EASY STEPS

You can access the blower wheel assembly and slide it out for full access to the indoor coil.



Back out electrical panel screws



Remove electrical access panels (2)



Lock the access panel



Unplug the wire harness



Remove screws then slide out the blower wheel assembly



Complete access to the coils for easy cleaning

## FASTER INSTALLATION, EASIER SERVICE AND OPTIMAL PERFORMANCE

- Alignment arrows on the Friedrich wall bracket help you mark and drill the hole in the wall accurately, and with total confidence
- Easy-to-remove modular drain pan assembly
- Quick access to tangential blower and motor makes repairs easier
- Clear access to piping
- Built-in Wi-Fi on *Premier* and *Pro* wall-mounted and cassette models
- Easy access to the wire terminal blocks
- Included kickstand tilts unit away from the wall providing ample space for your hands to work
- Onboard error codes help to ensure trouble-free operation
- *Diamonblue™ Advanced Corrosion Protection*
- Auto clean
- Washable air filters






## THE CONTRACTOR'S CHOICE FOR DUCTLESS MINI-SPLITS

Friedrich has three exceptional lines of ductless with unique features for easy installation. For contractors, this means less time on the job, and the opportunity to provide your customer with maintenance agreements on equipment that is cleaning and service friendly.

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

Integrated Wi-Fi control from your smartphone, or control with voice commands using your Amazon Alexa or Google Home. Power your unit on and off, change temperature, system mode, and adjust fan speeds no matter where you are.

### THREE LINES TO CHOOSE FROM

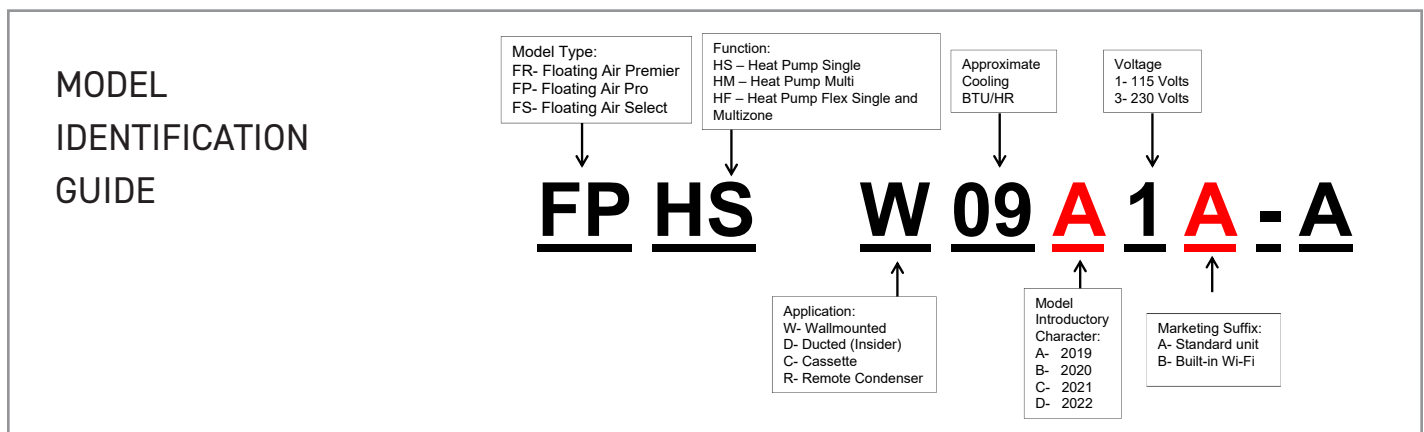
<p><b>FLOATING AIR® PREMIER</b></p> <p>SINGLE ZONE</p> <p>Wall-mounted</p>	<ul style="list-style-type: none"> <li>• Highest efficiencies</li> <li>• FastPro® design for fast installation, cleaning and service</li> <li>• Control with the FriedrichGo™ app</li> <li>• FreshAir® IAQ ready</li> <li>• Extended operating ranges, heating and cooling</li> </ul>	 <p><b>FastPro® DESIGN</b></p>
<p><b>FLOATING AIR® PRO</b></p> <p>SINGLE ZONE AND MULTI ZONE</p> <p>Wall-mounted</p> <p>Ceiling Cassettes</p> <p>The Insider® Concealed Ducted Units</p>	<ul style="list-style-type: none"> <li>• Excellent efficiencies</li> <li>• FastPro® design for fast installation, cleaning and service</li> <li>• Control with the FriedrichGo™ app</li> <li>• FreshAir® IAQ ready</li> <li>• Extended operating ranges, heating and cooling</li> <li>• 115V wall-mounted heat pumps</li> </ul>	 <p><b>FastPro® DESIGN</b></p>
<p><b>FLOATING AIR® SELECT</b></p> <p>SINGLE ZONE</p> <p>Wall-mounted</p>	<ul style="list-style-type: none"> <li>• 18.0 SEER</li> <li>• Moderate pricing</li> <li>• Exceptional value</li> <li>• FreshAir® IAQ ready</li> <li>• 115V wall-mounted heat pumps</li> </ul>	

## FEATURE COMPARISON

A feature-by-feature comparison to help you select the best ductless system for your application.

ZONES	SYSTEM TYPE							
	WALL-MOUNTED				CASSETTE		CONCEALED DUCTED	
	SINGLE ZONE			MULTI ZONE	SINGLE ZONE	MULTI ZONE	SINGLE ZONE	MULTI ZONE
<b>Floating Air® Series</b>	Premier	Pro	Select	Pro	Pro	Pro	Pro The Insider®	Pro The Insider®
Installation	Wall	Wall	Wall	Wall	Ceiling	Ceiling	Concealed	Concealed
<b>FastPro® Design</b>	•	•	–	•	–	–	–	–
115 volt models	–	•	•	–	–	–	–	–
SEER	Up to 28.0	Up to 23.3	18.0	Up to 22.0	Up to 19.0	Up to 22.0	Up to 17.6	Up to 21.0
Low ambient cooling operation	0° F	5° F	0° F	5° F	5° F	14° F	5° F	-4° F
Low ambient heating operation	-13° F	-4° F	-4° F	-13° F	-4° F	-13° F	-4° F	-13° F
Inverter driven compressor	•	•	•	•	•	•	•	•
Built-in Wi-Fi models, <b>FriedrichGo™</b> app	•	•	–	•	•	•	–	–
Amazon Alexa compatible	•	•	–	•	•	•	–	–
<b>FreshAir®</b> IAQ ready	•	•	•	•	–	–	–	–
Auto changeover	•	•	•	–	•	–	•	–
24- Hr. Programmable timer	•	•	•	•	•	•	•	•
Remote control	•	•	•	•	•	•	–	–
Wall controller option	•	•	•	•	•	•	Included	Included
7-Day Programmability	–	–	–	–	–	–	•	•
(with wall control)	•	•	•	•	•	•	•	•
Auto restart	•	•	•	•	•	•	•	•
Surge cool/heat	•	•	•	•	•	•	•	•
Dry mode	•	•	•	•	•	•	•	•
Auto Clean	•	•	•	•	•	•	•	•
Advanced Corrosion Protection	•	•	•	•	•	•	•	•
4-way auto swing	•	•	2-way	•	•	•	–	–
Washable air filters	•	•	•	•	•	•	•	•

❶ Feature not available on FPHSW36A3C. ❷ (9K/12K/18K -4°F) (18K/24K -13°F) ❸ 42K operates as low as 4°F ❹ 2-way auto (up/down)



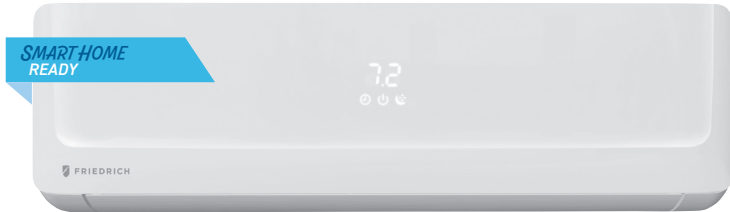


SINGLE ZONE | WALL-MOUNTED HEAT PUMPS

Top cooling and heating performance in extreme climates.  
28.0 SEER - our highest efficiency ductless.



FEATURING **FastPro**® DESIGN



**Built-in Wi-Fi for control anytime, anywhere**

- Easy to use **FriedrichGo™** app
- Create customizable, 7-day schedules
- Control with smartphone
- Compatible with Amazon Alexa or Google Home



WIRELESS REMOTE WITH THE ABILITY TO CHANGE TO A COOL-ONLY REMOTE

**Features for comfort and convenience**

- **Precision Inverter®** technology (variable speed compressor)
- **Fast Pro®** design for the fastest access for maintenance of any wall-mounted ductless system
- Soft start compressor
- BLDC motor
- Our highest efficiencies for the lowest operating cost
- **Diamonblue™ Advanced Corrosion Protection**
- Auto Clean indoor coil
- Cooling/Heating/Fan/Auto mode
- Surge Cool/Heat
- Natural air flow
- Ultra quiet operation
- Sleep mode
- Auto restart
- Auto changeover
- 24-hour on/off timer
- ENERGY STAR® qualified model
- Hidden display (only visible during operation)



- Low ambient operation down to 0°F (Cooling mode)
- Low ambient operation down to -13°F (Heating mode)
- Low temperature compressor start-up protection

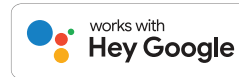




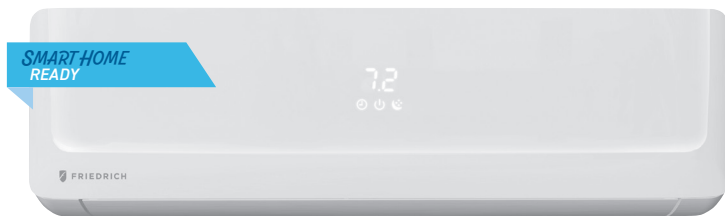


SINGLE ZONE | WALL-MOUNTED HEAT PUMPS

The contractor's line with features that make installation and service faster and easier. Two 115v models available in 9,000 and 12,000 BTU capacity.



FEATURING **FastPro**® DESIGN



**Built-in Wi-Fi for control anytime, anywhere**

- Easy to use **FriedrichGo™** app
- Create customizable, 7-day schedules
- Control with smartphone
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WIRELESS REMOTE WITH THE ABILITY TO CHANGE TO A COOL-ONLY REMOTE

**Features for comfort and convenience**

- **Precision Inverter®** technology (variable speed compressor)
- **Fast Pro®** design for the fastest access for maintenance of any wall-mounted ductless system
- Soft start compressor
- BLDC motor
- Auto Clean indoor coil
- Cooling/Heating/Fan/Auto mode
- LCD remote
- Surge Cool/Heat
- Tangential fan for optimum air flow
- **Diamonblue™ Advanced Corrosion Protection**
- Ultra quiet operation
- Sleep mode
- Auto restart
- Auto changeover
- 24-hour on/off timer
- ENERGY STAR® qualified models
- Easy-to-read temperature display



- Low ambient operation down to 5°F (Cooling mode)
- Low ambient operation down to -4°F (Heating mode)
- Low temperature compressor start-up protection

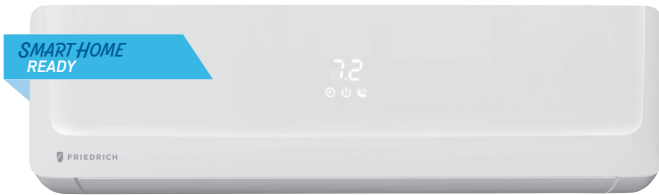




SINGLE ZONE | WALL-MOUNTED HEAT PUMPS

Features that make installation and service faster and easier. Exceptional efficiency and dependable performance.

FEATURING **FastPro**® DESIGN



FPHFW18A3A, FPHFW24A3A, FPHFW18A3B, FPHFW24A3B



FPHSW36A3C (Not available with FastPro® design feature)

Features for comfort and convenience

- ✔ **Precision Inverter**® technology (variable speed compressor)
- **Fast Pro**® design for the fastest access for maintenance of any wall-mounted ductless. Feature not on model FPHSW36A3C
- ✔ Soft start compressor
- ✔ BLDC motor
- Auto Clean indoor coil
- Cooling/Heating/Fan/Auto mode
- LCD remote
- Surge Cool/Heat
- Tangential fan for optimum air flow
- Ultra quiet operation
- ✔ Sleep mode
- Auto restart
- Auto changeover
- ✔ 24-hour on/off timer
- ✔ ENERGY STAR® qualified model
- Easy-to-read temperature display

Built-in Wi-Fi for control anytime, anywhere

- Easy to use **FriedrichGo**™ app
- Create customizable, 7-day schedules
- Control with smartphone
- Compatible with Amazon Alexa or Google Home



WIRELESS REMOTE WITH THE ABILITY TO CHANGE TO A COOL-ONLY REMOTE



- Low ambient operation down to 5°F (Cooling mode)
- Low ambient operation down to -4°F (Heating mode)
- Low temperature compressor start-up protection





SINGLE ZONE | CEILING CASSETTE HEAT PUMPS

Compact cassette units install in a drop ceiling and mount flush to the ceiling for a clean look and efficient installation.



Built-in Wi-Fi for control anytime, anywhere

- Easy to use **FriedrichGo™** app
- Create customizable, 7-day schedules
- Control with smartphone
- Compatible with Amazon Alexa



WIRELESS REMOTE

Features for comfort and convenience

- ✔ 24-hour on/off timer
- ✔ **Precision Inverter®** technology (variable speed compressor)
- ✔ Soft start compressor
  - Natural air flow
  - 4-way cooling
  - Surge Cool/Heat
  - Cooling/Heating/Fan mode
  - Dry mode
- ✔ Sleep mode
  - Independent vane control
  - 3 fan speeds
  - Ultra-quiet turbo fan
  - Evaporator frost control
  - Auto restart
  - Auto changeover
  - Clean, modern look
  - Flexible installation
- ✔ ENERGY STAR® qualified models
  - Precise air distribution

NOTE:

Cassette grilles are sold separately. See accessories page.



- Built-in low ambient, down to 5°F on 9k/12k/18k models, down to -4°F on 24k/36k models (Cooling mode)
- Low ambient operation down to -4°F (Heating mode)



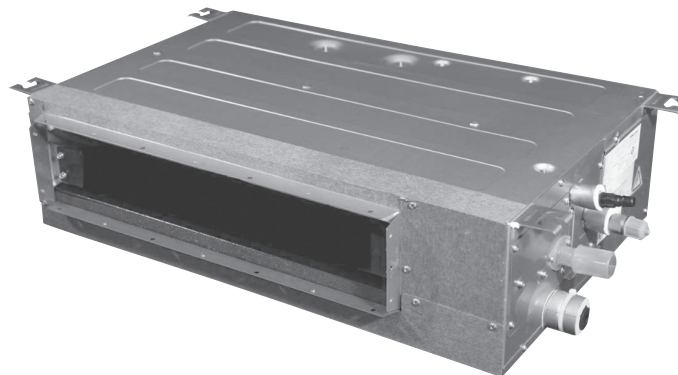


SINGLE ZONE | THE INSIDER® CONCEALED DUCTED HEAT PUMPS

Indoor unit is installed in the ceiling or furr down, totally concealed, for unobtrusive installation.

Features

- ✔ **Precision Inverter®** technology (variable speed compressor)
- ✔ Soft start compressor
- BLDC motor
- Cooling/Heating/Fan mode
- Dry mode
- 3 fan speeds
- Auto restart
- Auto changeover
- **Diamonblue™ Advanced Corrosion Protection**
- Control lock function on controller
- External Static Pressure Range 0-.40



- Built-in low ambient, down to 5°F on 9k/12k/18k models, down to -4°F on 24k/36k models (Cooling mode)
- Low ambient operation down to -4°F (Heating mode)



WIRED WALL CONTROLLER



FLOATING AIR® PREMIER | WALL-MOUNTED HEAT PUMPS

PERFORMANCE RATINGS		SINGLE ZONE - WALL-MOUNTED - HEAT PUMPS	
System Model No.		FRHW093A	FRHW123A
Indoor Model		FRHSW09A3B	FRHSW12A3B
Outdoor Model		FRHSR09A3A	FRHSR12A3A
SPECIFICATIONS			
Capacity Cooling (Rated)	Btu	9000	12000
Capacity Cooling (Min.-Max.)	Btu	3600-10000	4000-13500
Capacity Heating@47°F (Rated)	Btu	10500	13000
Capacity Heating@17°F (Rated)	Btu	6500	8000
Capacity Heating (Min.-Max.)	Btu	3600-10500	4000-14000
Capacity Heating@5°F (M1 calc)	Btu	7000	8400
Capacity Heating@-13°F (Min.-Max.)	Btu	1503-7210	1367-8741
Sensible Heat Ratio		76%	77%
HSPF/HSPF2		12.5/10.0	12.0/10.5
SEER/SEER2		28.0/27.5	25.0/24.5
EER		16.1	15.4
ENERGY STAR®		YES	YES
Moisture Removal	Pts/h	1.9	2.5
Airflow (Quiet, Low, Med, High)	CFM	416/384/355/279	598/536/446/345
Sound Rating - Indoor	dB-A	39/34/31	45/41/39
Sound Rating - Outdoor	dB-A	55	55
Operating Range (Cooling)	°F	0°-115°	0°-115°
Operating Range (Heating)	°F	-13°-75°	-13°-75°
Est. Yearly Operating Cost	\$	50	70
ELECTRICAL DATA			
Power Source	V-Hz-Phase	230/208-60-1	230/208-60-1
Minimum Ampacity	A	10A	12A
Cooling Watts	W	559	779
Cooling Amps		2.3	4.6
Heating Watts	W	905	856
Heating Amps		3.4	4.8
Max. TD Fuse/Breaker	A	15A	15A
Power and Communication Cable	No. x AWG	4 x 14AWG	4 x 14AWG
REFRIGERATION SYSTEM			
Refrigerant		R410a	R410a
Compressor Type		Rotary Inverter	Rotary Inverter
Connections		Flare	Flare
Liquid Line O.D.	in.	1/4	1/4
Suction Line O.D.	in.	3/8	3/8
Factory Precharge	ft.	25	25
Refrigerant Charge	oz.	38.8	45.9
Min./Max. Line Length	ft.	10-66	10-66
Max. Height Difference	ft.	33	33
DIMENSIONS & WEIGHT			
Indoor Unit			
W X H X D	in.	33 7/8 x 11 1/8 x 8 1/2	38 1/8 x 13 1/8 x 10
Net Weight	lbs.	22	28.5
Shipping Weight	lbs.	26.5	34
Outdoor Unit			
W x H x D	in.	31 7/8 x 23 x 11	31 7/8 x 23 x 11
Net Weight	lbs.	75	84
Shipping Weight	lbs.	81.5	92.5
Total Net Weight	lbs.	97	112.5
Total Shipping Weight	lbs.	108	126.5

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



FLOATING AIR® PRO | WALL-MOUNTED HEAT PUMPS

PERFORMANCE RATINGS		SINGLE ZONE - 115 VOLT HEAT PUMPS		SINGLE ZONE - 230/208 VOLT HEAT PUMPS	
System Model No.		FPHW091A	FPHW121A	FPHW093A	FPHW123A
Indoor Model		FPHSW09A1B	FPHSW12A1B	FPHFW09A3B	FPHFW12A3B
Outdoor Model		FPHSR09A1A	FPHSR12A1A	FPHSR09A3A	FPHSR12A3A
<b>SPECIFICATIONS</b>					
Capacity Cooling (Rated)	Btu	9000	12000	9000	12000
Capacity Cooling (Min.-Max.)	Btu	3600-10000	4000-13500	3600-10000	4000-13500
Capacity Heating (Rated) @ 47°F	Btu	9500	13000	9500	13000
Capacity Heating (Rated) @ 17°F	Btu	5000	7500	5000	7500
Capacity Heating (Min.-Max.)	Btu	3600-10500	4000-14000	3600-10500	4000-14000
Capacity Heating (M1 Calc) @ 5°F	Btu	6300	8400	6300	8400
Capacity Heating (Min.-Max.) @ -4°F	Btu	1314-6324	2302-8387	1311-6303	2411-8410
Sensible Heat Ratio		76%	77%	76%	77%
COP		3.56	3.46	3.88	3.42
HSPF/HSPF2		10.0/8.5	10.5/9.0	10.7/8.5	10.5/9.0
SEER/SEER2		19.5/18.5	22.0/21.7	22.5/22.0	22.0/21.0
EER		12.8	12.5	13.7	12.5
ENERGY STAR®		YES	YES	YES	YES
Moisture Removal	Pts/h	1.9	2.5	1.9	2.5
Airflow (High/Med/Low/Quiet)	CFM	424/382/323/247	424/382/323/247	424/382/323/247	424/382/323/247
Sound Rating - Indoor (High/Med/Low/Quiet)	dB-A	39/32/29/26	39/32/29/26	39/32/29/26	39/32/29/26
Sound Rating - Outdoor	dB-A	53	53	53	53
Operating Range (Heating)	°F	(-4° - 75°)	(-4° - 75°)	(-4° - 75°)	(-4° - 75°)
Operating Range (Cooling)	°F	(5° - 115°)	(5° - 115°)	(5° - 115°)	(5° - 115°)
Est. Yearly Operating Cost	U.S. \$	\$61	\$72	\$53	\$83
<b>ELECTRICAL DATA</b>					
Power Source	V-Hz-Phase	115-60-1	115-60-1	230/208-60-1	230/208-60-1
Min. Ampacity	A	13.5	16.5	10	10
Cooling Watts	W	700	950	655	960
Cooling Amps		6.3	8.3	2.9	4.3
Heating Watts	W	780	1100	720	1110
Heating Amps		7.0	9.7	3.1	5.0
Max. TD Fuse/Breaker	A	20	25	15	15
Power and Communication Cable	No. x AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
<b>REFRIGERATION SYSTEM</b>					
Refrigerant		R410a	R410a	R410a	R410a
Compressor Type		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
Connections		Flare	Flare	Flare	Flare
Liquid Line O.D.	in.	1/4	1/4	1/4	1/4
Suction Line O.D.	in.	3/8	3/8	3/8	3/8
Refrigerant Charge	oz.	33.5	40.9	33.5	40.9
Factory Precharge	ft.	25	25	25	25
Min. / Max. Line Length	ft.	10-50	10-50	10-50	10-50
Max. Height Difference	ft.	33	33	33	33
<b>DIMENSIONS &amp; WEIGHT</b>					
Indoor Unit					
W x H x D	in.	33 7/8 x 11 1/8 x 8 1/2		33 7/8 x 11 1/8 x 8 1/2	
Net Weight	lbs.	20	20	20	20
Shipping Weight	lbs.	24.25	24.25	24.25	24.25
Outdoor Unit					
W x H x D	in.	28 1/8 x 19 x 9 1/2	31 7/8 x 23 x 11	28 1/8 x 19 x 9 1/2	31 7/8 x 23 x 11
Net Weight	lbs.	65	78	59.5	72.5
Shipping Weight	lbs.	68	82.5	65	79
Total Net Weight	lbs.	85	98	79.5	92.5
Total Shipping Weight	lbs.	92.25	106.75	89.25	103.25

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](http://www.ftc.gov/energy).



FLOATING AIR® PRO | WALL-MOUNTED HEAT PUMPS

PERFORMANCE RATINGS		SINGLE ZONE - WALL-MOUNTED - HEAT PUMPS		
System Model No.		FPHW183A	FPHW243A	FPHW363B
Indoor Model		FPHFW18A3B	FPHFW24A3B	FPHSW36A3C
Outdoor Model		FPHSR18A3A	FPHSR24A3A	FPHSR36A3B
<b>SPECIFICATIONS</b>				
Capacity Cooling (Rated)	Btu	18000	23500	36000
Capacity Cooling (Min.-Max.)	Btu	6500-19500	8000-26500	12000-38000
Capacity Heating (Rated) @ 47°F	Btu	19000	26000	36000
Capacity Heating (Rated) @ 17°F	Btu	11600	14500	18700
Capacity Heating (Min.-Max.)	Btu	6500-20000	8000-26500	12000-38000
Capacity Heating (M1 CALC) @ 5°F		11900	16100	--
Capacity Heating (Min.-Max.) @ -4°F		2170-11866	--	--
Sensible Heat Ratio		80%	76%	79%
COP		3.40	3.05	3.05
HSPF/HSPF2		11.6/8.6	10.5/8.6	8.8/7.5
SEER/SEER2		23.3/22.5	21.0/20.5	16.4/16.5
EER		13.0	12.5	8.3
ENERGY STAR®		YES	YES	--
Moisture Removal	Pts/h	3.2	5.1	6.8
Airflow (High/Med/Low/Quiet)	CFM	618/565/482/382	735/665/559/441	1030/824/706/588
Sound Rating - Indoor (High/Med/Low/Quiet)	dB-A	45/41/37/34	47/42/36/33	50/45/40/38
Sound Rating - Outdoor	dB-A	55	58	60
Operating Range (Heating)	°F	-4° - 75°	-4° - 75°	-4° - 75°
Operating Range (Cooling)	°F	5° - 115°	5° - 115°	5° - 115°
Est. Yearly Operating Cost	U.S. \$	\$124	\$169	\$290
<b>ELECTRICAL DATA</b>				
Power Source	V-Hz-Phase	230/208-60-1	230/208-60-1	230/208-60-1
Min. Ampacity	A	15	20	30
Cooling Watts	W	1385	1880	4186
Cooling Amps		6.3	8.3	18.5
Heating Watts	W	1638	2500	3459
Heating Amps		7.2	11.1	16
Max. TD Fuse/ Breaker	A	20	30	35
Power and Communication Cable	No.x AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
<b>REFRIGERATION SYSTEM</b>				
Refrigerant		R410a	R410a	R410a
Compressor Type		Rotary Inverter	Rotary Inverter	Rotary Inverter
Connections		Flare	Flare	Flare
Liquid Line O.D.	in	1/4	3/8	3/8
Suction Line O.D.	in	1/2	5/8	5/8
Refrigerant Charge	oz.	54.7	66.3	81.2
Factory Precharge	ft.	25	25	25
Min./Max. Line Length	ft	10-66	10-66	10-66
Max. Height Difference	ft	33	33	33
<b>DIMENSIONS &amp; WEIGHT</b>				
<b>Indoor Unit</b>				
W x H x D	in	45 1/8 x 13 1/8 x 10		50 5/8 x 13 5/8 x 10 1/4
Net Weight	lbs	33	33	40
Shipping Weight	lbs	38.5	38.5	48
<b>Outdoor Unit</b>				
W x H x D	in	33 7/8 x 25 1/2 x 12 1/8	34 7/8 x 31 1/4 x 14 3/8	34 7/8 x 31 1/4 x 14 3/8
Net Weight	lbs	99	123.5	141
Shipping Weight	lbs	108	141	152
Total Net Weight	lbs	132	156.5	181
Total Shipping Weight	lbs	146.5	179.5	200

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](http://www.ftc.gov/energy).



FLOATING AIR® PRO | CASSETTE HEAT PUMPS

PERFORMANCE RATINGS		SINGLE ZONE - CASSETTE - HEAT PUMPS				
System Model No.		FPHC093A	FPHC123A	FPHC183A	FPHC243A	FPHC363A
Indoor Model		FPHFC09A3B	FPHFC12A3B	FPHFC18A3B	FPHFC24A3B	FPHSC36A3B
Outdoor Model		FPHFR09A3A	FPHFR12A3A	FPHFR18A3A	FPHFR24A3A	FPHFR36A3A
<b>SPECIFICATIONS</b>						
Capacity Cooling (Rated)	Btu	9000	12000	18000	24000	36000
Capacity Cooling (Min.-Max.)	Btu	4850-11600	5800-13100	4200-21000	8600-25200	15000-42600
Capacity Heating @47°F (Rated)	Btu	10000	12000	19000	24000	36000
Capacity Heating @17°F (Rated)	Btu	6000	7000	11000	19600	27200
Capacity Heating (Min.-Max.)	Btu	4340-12280	4400-14400	5600-24000	7600-28400	15000-42600
Capacity Heating (M1 Calc) @ 5°F		8300	8500	13200	19000	--
Capacity Heating (Min.-Max.) @ -4°F		2300-8300	2302-8387	2300-11500	2900-19923	--
Sensible Heat Ratio		76%	77%	76%	76%	79%
COP (@47°F)	.	4.13	3.80	3.91	3.61	3.31
HSPF/HSPF2		10.0/10.0	11.5/9.5	11.0/10.0	10.0/10.0	10.5/9.8
SEER/SEER2		22.0/20.5	23.0/20.5	22.0/20.5	19.0/18.5	19.5/18.0
EER		12.85	12.5	12.65	12.5	10.65
ENERGY STAR® *		YES	YES	YES	YES	--
Moisture Removal	Pts/h	2.0	3.0	1.9	5.1	7.61
Airflow (Low, Med, High)	CFM	309/274/232	324/294/235	588/500/394	647/530/400	941/794/676
Sound Rating - Indoor H/M/L	dB(A)	39/32/29	42/37/33	39/32/29	44/40/38	49/43/39
Sound Rating - Outdoor	dB(A)	52	54	68	54	61
Operating Range (Cooling)	°FDB	5-118	5-118	5-118	5-118	5-118
Operating Range (Heating)	°FWB	-4-75	-4-75	-4-75	-4-75	-4-75
Est. Yearly Operating Cost	\$	59	83	119	167	244
<b>ELECTRICAL DATA</b>						
Power Source	V	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1
Minimum Ampacity	A	23	23	23	23	27
Cooling Watts	W	700	960	1420	1920	3380
Cooling Amps		3.6	4.3	6.5	8.6	14.6
Heating Amps		3.5	4.1	6.3	8.6	14.0
Max. TD Fuse/Breaker	A	15	20	20	35	45
Power and Communication Cable No. x AWG		4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
<b>REFRIGERATION SYSTEM</b>						
Refrigerant		R410a	R410a	R410a	R410a	R410a
Compressor Type		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
Connections		Flare	Flare	Flare	Flare	Flare
Liquid Line O.D.	in	1/4	1/4	1/4	3/8	3/8
Suction Line O.D.	in	3/8	3/8	1/2	5/8	3/4
Factory Precharge	ft	25	25	25	25	25
Refrigerant Charge	oz	33.5	45.9	56.5	75	111
Min./Max. Line Length	ft	10-82	10-82	10-98	10-164	10-164
Max. Height Difference	ft	33	49	69	98	98
<b>DIMENSIONS &amp; WEIGHT</b>						
Indoor Unit						
W X H X D	in	22 1/2 x 8 1/2 x 22 1/2	22 1/2 x 8 1/2 x 22 1/2	33 1/8 x 9 3/4 x 33 1/8	33 1/8 x 9 3/4 x 33 1/8	33 1/8 x 11 3/4 x 33 1/8
Net Weight	lbs	32	39.7	56	59.5	70.5
Shipping Weight	lbs	38.5	46.3	76	79.5	90.4
Indoor Unit Grille** W X H X D	in	24 1/2 x 24 1/2 x 10	24 1/2 x 24 1/2 x 10	35 7/8 x 35 7/8 x 13 1/2	35 7/8 x 35 7/8 x 13 1/2	35 7/8 x 35 7/8 x 13 1/2
Indoor Unit Grille** Net Weight	lbs	13.2	13.2	22.0	22.0	22.0
Indoor Grille Part Number		FPCG0912		FPCG182436		
Outdoor Unit						
W X H X D	in	37 x 25 x 16 1/2	37 x 25 x 16 1/2	39 x 17 3/4 x 28 3/4	43 x 36 1/4 x 18 1/8	43 x 36 1/4 x 18 1/8
Net Weight	lbs	75	75	108	155	192
Shipping Weight	lbs	85	82	117	166	215
Total Net Weight	lbs	107	108	164	214.5	262.5
Total Shipping Weight	lbs	123.5	121	191	245.5	305.4

Your operating costs will depend on your utility rates and use. The estimated operating cost is based on a electricity cost of \$.13 per kWh. For more information, visit [www.ftc.gov/energy](http://www.ftc.gov/energy). \*System meets ENERGY STAR® published minimums. \*\*Models require grille. Sold separately. Due to continuing research in new energy-saving technology, specifications are subject to change without notice.





FLOATING AIR® PRO | THE INSIDER® CONCEALED DUCTED HEAT PUMPS

PERFORMANCE RATINGS		Single Zone - The Insider® Concealed Ducted - Heat Pumps				
System Model No.		FPHD093	FPHD123	FPHD183	FPHD243	FPHD363
Indoor Model		FPHFD09A3A	FPHFD12A3A	FPHFD18A3A	FPHFD24A3A	FPHSD36A3A
Outdoor Model		FPHFR09A3A	FPHFR12A3A	FPHFR18A3A	FPHFR24A3A	FPHFR36A3A
<b>SPECIFICATIONS</b>						
Capacity Cooling (Rated)	Btu	9000	12000	18000	24000	36000
Capacity Cooling (Min.-Max.)	Btu	4850-11600	5800-13100	4200-21000	8600-25200	12500-37300
Capacity Heating @47°F (Rated)	Btu	11000	12000	18000	28000	36000
Capacity Heating @17°F (Rated)	Btu	6000	6600	12000	19200	26000
Capacity Heating (Min.-Max.)	Btu	4340-12280	4400-14400	5600-24000	7600-28400	15000-39800
Capacity Heating (M1 Calc) @ 5°F		--	--	--	--	--
Capacity Heating (Min.-Max.) @ -4°F		--	--	--	--	--
Sensible Heat Ratio		76%	76%	76%	76%	76%
SEER/SEER2		22.0/20.5	23.0/20.5	22.0/20.5	19.0/18.5	19.5/18.0
EER		12.00	11.00	11.40	10.45	10.90
COP (@47°F)		3.2	3.2	3.3	3.61	3.01
HSPF/HSPF2		10.0/9.6	10.0/9.0	10.0/9.5	11.0/9.5	9.5/9.5
ENERGY STAR®		YES	—	—	—	—
Moisture Removal	Pts/h	2.0	3.0	5.0	1.9	7.61
Airflow (Low, Med, High)	CFM	309/259/208	324/285/235	529/441/371	706/588/500	883/735/617
Sound Rating - Indoor H/M/L	dB(A)	35/33/32	36/34/33	38/37/36	42/38/36	43/40/38
Sound Rating - Outdoor	dB(A)	52	54	68	54	61
Operating Range (Cooling)	°F	5-118	5-118	5-118	5-118	5-118
Operating Range (Heating)	°F	-4-75	-4-75	-4-75	-4-75	-4-75
Est. Yearly Operating Cost	\$	63	83	122	176	376
<b>ELECTRICAL DATA</b>						
Power Source		230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1
Minimum Ampacity	A	23.0	23.0	23.0	23.0	21.0
Cooling Watts	W	750	1091	1670	2200	3300
Cooling Amps		3.7	4.8	7.6	10.3	14.35
Heating Amps		3.2	4.8	7.3	8.7	15.2
Max. TD Fuse/Breaker	A	15	20	20	35	45
Power and Communication Cable	No. x AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
<b>REFRIGERATION SYSTEM</b>						
Refrigerant		R410a	R410a	R410a	R410a	R410a
Compressor Type		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
Connections		Flare	Flare	Flare	Flare	Flare
Liquid Line O.D.	in	1/4	1/4	1/4	3/8	3/8
Suction Line O.D.	in	3/8	3/8	1/2	5/8	3/4
Factory Precharge	ft	25	25	25	25	25
Refrigerant Charge	oz	33.5	45.9	56.5	75.0	111
Min./Max. Line Length	ft	10-82	10-82	10-98	10-164	10-164
Max. Height Difference	ft	33	49	69	98	98
<b>DIMENSIONS &amp; WEIGHT</b>						
Indoor Unit						
W X H X D	in.	35 7/8 x 7 1/2 x 17 5/8	35 7/8 x 7 1/2 x 17 5/8	46 1/2 x 7 1/2 x 17 5/8	35 3/8 x 10 5/8 x 28 3/8	51 1/8 x 13 3/4 x 31 1/2
Net Weight	lbs.	39.7	39.7	49.6	66.1	112.4
Shipping Weight	lbs.	46.3	46.3	57.3	77.2	132.3
Outdoor Unit						
W X H X D	in.	37 x 25 x 16 1/2	37 x 25 x 16 1/2	39 x 17 3/4 x 28 3/4	43 x 36 1/4 x 18 1/8	43 x 36 1/4 x 18 1/8
Net Weight	lbs.	75	75	108	155	192
Shipping Weight	lbs.	85	82	117	166	215
Total Net Weight	lbs.	107	108	108	214.5	262.5
Total Shipping Weight	lbs.	123.5	121	158	245.5	305.4

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





MULTI ZONE | HEAT PUMPS

## TOTAL INSTALLATION FLEXIBILITY

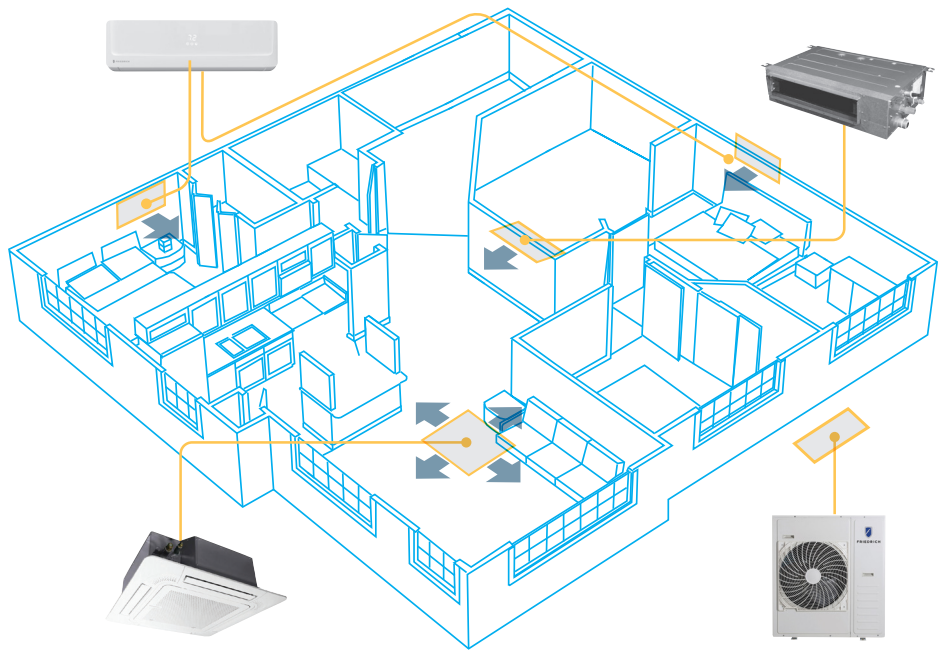
Wall-mounted, ceiling cassette and concealed ducted models in up to 5 zones

Zone cooling and heating provides unmatched customized comfort and energy savings.

Occupants have the ability to set the temperature of each zone to their preferred comfort level\*, or turn off units in unoccupied rooms without affecting other zones.

That's the beauty and efficiency of a Friedrich Ductless Multi Zone System.

\*Multi zone units cannot heat and cool simultaneously

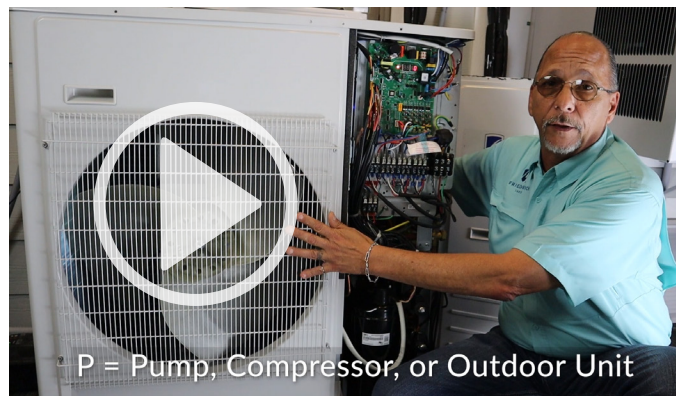


## TROUBLESHOOTING MADE EASY

Built-in troubleshooting on Friedrich multi zone ductless simplifies in-the-field diagnostics.

Take critical system measurements without taking the meter out of your pouch. Diagnostics are faster, easier, and more accurate with the built-in troubleshooting tool on Friedrich multi zone outdoor units. Check discharge pressure, suction temperature, or the amperages of the compressor. Check the inside space temperature, coil temperature or fan settings of each of the indoor units.

Access twenty-three parameters in total for the outdoor unit, and eleven parameters for each indoor unit. And, as always, the Friedrich technical support team can assist you with any equipment-related issues.







P = Pump, Compressor, or Outdoor Unit

[watch video: bit.ly/FAC\\_FAPro\\_Parameters](https://bit.ly/FAC_FAPro_Parameters)



## MULTI ZONE CONFIGURATIONS

Select a combination of indoor units that does not exceed the maximum connected capacity

			
<p><b>FPHMR18A3A</b> 24,000 Btu MAX. CONNECTED CAPACITY</p>	<p><b>FPHMR24A3A</b> 36,000 Btu MAX. CONNECTED CAPACITY</p>	<p><b>FPHMR36A3A</b> 48,000 Btu</p>	<p><b>FPHMR42A3A</b> 54,000 Btu MAX. CONNECTED CAPACITY</p>
<p><b>2 ZONES</b> MINIMUM combination must be 50% of nameplate capacity Combinations <b>SHOULD NOT</b>: Exceed the maximum allowable total indoor unit connected capacity of 24,000 Btu.</p>	<p><b>2 ZONES</b> MINIMUM combination must be 50% of nameplate capacity</p>	<p><b>2 ZONES</b> Select two (2) 18,000 Btu indoor units</p>	<p><b>3 ZONES</b> Select any combination of (3) indoor units with no more than (2) 18,000 Btu indoor units plus (1) other indoor unit.</p>
	<p><b>3 ZONES</b> Select any combination of (3) indoor units. Combinations <b>SHOULD NOT</b>: Exceed the maximum allowable total indoor unit connected capacity of 36,000 Btu.</p>	<p><b>3 ZONES</b> Select any combination of (3) indoor units with no more than (2) 18,000 Btu indoor units plus (1) other indoor unit.</p>	<p><b>4 ZONES</b> Select any combination of (4) indoor units.</p>
		<p><b>4 ZONES</b> Select any combination of (4) indoor units. Combinations <b>SHOULD NOT</b>: Exceed the maximum allowable total indoor unit connected capacity of 48,000 Btu.</p>	<p><b>5 ZONES</b> Select any combination of (5) indoor units. Combinations <b>SHOULD NOT</b>: Exceed the maximum allowable total indoor unit connected capacity of 54,000 Btu.</p>

## MULTI ZONE CONFIGURATION, AHRI RATINGS

Friedrich Model	AHRI Reference Number	Indoor Type	System Capacity	EER/ EER2	SEER/ SEER2	High Heat 47 °F	HSPF/ HSPF2	Low Heat 17°F	Low Heat 5°F	Low Heat -13°F
FPHMR18A3A	205150429	Non-ducted Indoor Units	18000	12.5/12.5	22.0/21.0	18000	11.00/9.50	12200	18000	4143-14047
	205150428	Ducted Indoor Units	18000	11.5/11.5	19.0/19.0	18000	9.60/9.40	12200	18000	4143-14047
	205150430	Mixed Ducted and Non-ducted Indoor Units	18000	12.0./12.0	20.5/20.0	18000	10.30/9.45	12200	18000	4143-14047
FPHMR24A3A	204101246	Non-ducted Indoor Units	24000	12.5/12.5	22.0/22.0	24000	11.00/9.05	15400	24000	2700/16800
	204005731	Ducted Indoor Units	24000	12.1/2.1	21.0/21.0	24000	10.00/8.60	15400	24000	2700/16800
	203999079	Mixed Ducted and Non-ducted Indoor Units	24000	12.3/12.3	21.5/21.5	24000	10.50/8.83	15400	24000	2700/16800
FPHMR36A3A	204101247	Non-ducted Indoor Units	32000	12.5/12.5	21.0/21.0	36000	11.00/9.00	23200	36000	2100-25200
	203996910	Ducted Indoor Units	32000	12.0/12.0	19.5/19.5	36000	10.80/8.90	22600	36000	2100-25200
	203999080	Mixed Ducted and Non-ducted Indoor Units	32000	12.25/12.25	20.25/20.25	36000	10.90/8.95	22600	36000	2100-25200
FPHMR42A3A	205141512	Non-ducted Indoor Units	42000	10.5/10.5	20.0/20.0	42000	10.00/8.95	24000	36000	2200-25700
	205141511	Ducted Indoor Units	41000	10.0/10.0	18.0/18.0	42000	9.50/8.80	24000	36000	2200-25700
	205141513	Mixed Ducted and Non-ducted Indoor Units	41500	10.25/10.25	19.0/19.0	42000	9.75/8.88	24000	36000	2200-25700

# MULTI ZONE ALLOWABLE CONFIGURATIONS



2 ZONES ONLY



2 OR 3 ZONES



2, 3 OR 4 ZONES

FPHMR18A3A		
ZONE 1	ZONE 2	TOTAL
7	7	14
7	9	16
7	12	19
9	9	18
9	12	21
12	12	24

FPHMR243A				
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	
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	
9	12	12	33	
12	12	12	36	

FPHMR36A3A				
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
18	18	7		43
18	18	9		45
18	18	12		48
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

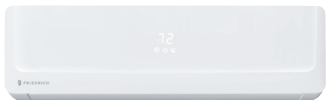
## OUTDOOR UNITS


- 18000 BTU**  
24000 BTU Max. connected capacity
- 24000 BTU**  
36000 BTU Max. connected capacity
- 36000 BTU**  
48000 BTU Max. connected capacity
- 42000 BTU**  
54000 BTU Max. connected capacity


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

■ Floating Air® Multi Zone allowable combinations that exceed our 100% ratio.

## INDOOR UNITS

	MODEL	BTU
 Wall-mounted	FPHMW07A3B	7000
	FPHF09A3B	9000
	FPHF12A3B	12000
	FPHF18A3B	18000
	FPHF24A3B	24000

	MODEL	BTU
 Ceiling cassette	FPHFC09A3B	9000
	FPHFC12A3B	12000
	FPHFC18A3B	18000
	FPHFC24A3B	24000

	MODEL	BTU
 Concealed ducted	FPHFD09A3A	9000
	FPHFD12A3A	12000
	FPHFD18A3A	18000
	FPHFD24A3A	24000

MULTI ZONE ALLOWABLE CONFIGURATIONS

FPHMR42A3A					
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
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

FPHMR42A3A					
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
7	7	7	12	12	45
7	7	7	12	18	51
7	7	7	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
9	9	9	9	12	48
9	9	9	9	18	54
9	9	9	12	12	51
9	9	12	12	12	54



3, 4 OR 5  
ZONES



MULTI ZONE | WALL-MOUNTED HEAT PUMPS

The contractor’s line with features that make installation and service faster and easier. Exceptional efficiency and dependable performance.



FEATURING **FastPro**® DESIGN



**Built-in Wi-Fi for control anytime, anywhere**

- Easy to use **FriedrichGo™** app
- Create customizable, 7-day schedules
- Control with smartphone
- Compatible with Amazon Alexa or Google Home



WIRELESS REMOTE WITH THE ABILITY TO CHANGE TO A COOL-ONLY REMOTE

**Features for comfort and convenience**

- **Precision Inverter®** technology (variable speed compressor)
- **Fast Pro®** design for the fastest access for maintenance of any wall-mounted ductless system
- Soft start compressor
- BLDC motor
- Auto Clean indoor coil
- Cooling/Heating/Fan/Auto mode
- Surge Cool/Heat
- Natural air flow
- Ultra quiet operation
- Sleep mode
- Auto restart
- Auto changeover
- 24-hour on/off timer
- ENERGY STAR® qualified model
- Hidden display (only visible during operation)



- Low ambient operation down to 14°F (Cooling mode)
- Low ambient operation down to -13°F (Heating mode)
- Low temperature compressor start-up protection



FP18A3A , FP24A3A



FP36A3A



FP42A3A





## MULTI ZONE | CEILING CASSETTE HEAT PUMPS

Compact cassette units install in a drop ceiling and mount flush to the ceiling for a clean look and efficient installation.



### Built-in Wi-Fi for control anytime, anywhere

- Easy to use **FriedrichGo™** app
- Create customizable, 7-day schedules
- Control with smartphone
- Compatible with Amazon Alexa or Google Home



WIRELESS REMOTE WITH THE ABILITY TO CHANGE TO A COOL-ONLY REMOTE

### Features for comfort and convenience

- 24-hour on/off timer
- **Precision Inverter®** technology (variable speed compressor)
- BLDC motor
- Soft start compressor
- Natural air flow
- 4-way cooling
- Surge Cool/Heat
- Cooling/Heating/Fan mode
- Dry mode
- Sleep mode
- Independent vane control
- 3 fan speeds
- Ultra-quiet turbo fan
- Evaporator frost control
- Auto restart
- Auto changeover
- **Diamonblue™ Advanced Corrosion Protection**
- Clean, modern look
- Flexible installation
- ENERGY STAR® qualified models
- Precise air distribution



- Built-in low ambient standard, down to 14°F (Cooling mode)
- Low ambient operation down to -13°F (Heating mode)
- Low temperature compressor start-up protection

**NOTE:**

Cassette grilles are sold separately. See accessories page.



FPHMR18A3A , FPHMR24A3A



FPHMR36A3A



FPHMR42A3A





**MULTI ZONE | THE INSIDER® CONCEALED DUCTED HEAT PUMPS**

Indoor unit installs in the ceiling or furr down for unobtrusive installation. Conditioned or non-conditioned air can be added to ducting to allow fresh air into the conditioned space whenever required.

**Features**

- **Precision Inverter®** technology (variable speed compressor)
- Soft start compressor
- BLDC motor
- Cooling/Heating/Fan mode
- Dry mode
- 3 fan speeds
- Auto restart
- Auto changeover
- **Diamonblue™ Advanced Corrosion Protection**
- Control lock function on controller
- External Static Pressure Range (ESP)
  - 9K/12K/18K (0 - .40) WC
  - 24K (0 - .40) WC



- Built-in low ambient standard, down to 14°F (Cooling mode)
- Low ambient operation down to -13°F (Heating mode)
- Low temperature compressor start-up protection



WIRED WALL CONTROLLER



FPHMR18A3A, FPHMR24A3A



FPHMR36A3A



FPHMR42A3A



Standard		With Registration	



FLOATING AIR® PRO | MULTI ZONE | WALL-MOUNTED HEAT PUMPS

PERFORMANCE RATINGS		MULTI ZONE WALL-MOUNTED - HEAT PUMPS				
		7k	9k	12k	18k	24k
Indoor Model		FPHMW07A3B	FPHF09A3B	FPHF12A3B	FPHF18A3B	FPHF24A3B
<b>SPECIFICATIONS</b>						
Capacity Cooling (Rated)	Btu	7000	9000	12000	18000	24000
Capacity Heating (Rated)	Btu	8500	9500	13000	19000	24200
Moisture Removal	Pts/h	2.5	2.5	3.2	4.2	5.3
Airflow	CFM	424/382/323/247	424/382/323/247	424/382/323/247	618/565/482/382	735/665/559/441
Sound Rating (High/Med/Low)	dB-A	38/32/29	38/32/29	39/32/29	45/41/37	48/45/40
<b>ELECTRICAL DATA</b>						
Power Source	V-Hz-Phase	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1
<b>REFRIGERATION SYSTEM</b>						
Connections		Flare	Flare	Flare	Flare	Flare
Liquid Line O.D.	in.	1/4	1/4	1/4	1/4	3/8
Suction Line O.D.	in.	3/8	3/8	3/8	1/2	5/8
<b>DIMENSIONS &amp; WEIGHT</b>						
W x H x D	in.	37 <sup>3/8</sup> x 10 <sup>3/4</sup> x 8 <sup>1/8</sup> "			48" x 12 <sup>5/8</sup> x 9 <sup>1/4</sup> "	48" x 12 <sup>5/8</sup> x 9 <sup>1/4</sup> "
Net Weight	lbs.	18.7	18.7	18.7	32	32
Shipping Weight	lbs.	24.3	24.3	24.3	37.5	37.5

PERFORMANCE RATINGS		MULTI ZONE - OUTDOOR			
		18k	24k	36k	42K
Outdoor Model		FPHMR18A3A	FPHMR24A3A	FPHMR36A3A	FPHMR42A3A
<b>SPECIFICATIONS</b>					
Power Source		208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
Est. Yearly Operating Cost	\$	\$90	\$172	\$259	\$277
Running Current Cooling Rated	A	6.5	8.7	11	17.5
Running Current Heating Rated	A	7.3	8.7	13	17
Power Input Cooling Min.-Rated-Max.	W	1440 (510-2610)	1920 (420-2640)	2520 (700-5000)	4020 (700-5000)
Power Input Heating Min.-Rated-Max.	W	1530 (450-3510)	1920 (420-4020)	3060 (600-6000)	3870 (600-6000)
Power and Communication Cable	No. x AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
Dimensions W x H x D	in.	33 <sup>7/8</sup> x 26 <sup>3/8</sup> x 12 <sup>1/4</sup>	37 <sup>3/8</sup> x 33 x 13 <sup>3/8</sup>	37 <sup>3/8</sup> x 41 <sup>3/8</sup> x 13 <sup>3/8</sup>	37 <sup>3/8</sup> x 41 <sup>3/8</sup> x 13 <sup>3/8</sup>
Net Weight	lbs.	108	159	186	196
Shipping Weight	lbs.	119	170	216	225
<b>REFRIGERATION SYSTEM</b>					
Refrigerant		R410A	R410A	R410A	R410A
Factory Precharge	oz.	63	81	106	120
Factory Precharge	ft.	50	75	100	125
Liquid Line O.D.	in.	1/4	1/4	1/4	1/4
Suction Line O.D.	in.	3/8	3/8	3/8	3/8
Min./Max. Line Length (Each)	ft.	25/82	25/66	25/66	25/66
LINE LENGTH (TOTAL)	ft.	164	197	197	262
Max. Height Difference	ft.	49	49	49	49
Sound Pressure Level Cooling	dB	55	59	59	59
Sound Pressure Level Heating	A	55	59	59	59
Operating Range Cooling	°F DB	14-115	14-115	14-115	14-115
Operating Range Heating	°F WB	-13-75	-13-75	-13-75	4-75
Minimum Ampacity	A	21A	25A	32A	35A
Max. TD Fuse/ Breaker	A	30A	30A	50A	50A

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



FLOATING AIR® PRO | MULTI ZONE | CASSETTE HEAT PUMPS

PERFORMANCE RATINGS		MULTI ZONE - CASSETTE - HEAT PUMPS			
		9k	12k	18k	24k
INDOOR MODEL		<b>FPHFC09A3B</b>	<b>FPHFC12A3B</b>	<b>FPHFC18A3B</b>	<b>FPHFC24A3B</b>
<b>SPECIFICATIONS</b>					
CAPACITY COOLING (RATED)	Btu	9000	12000	18000	24000
CAPACITY HEATING (RATED)	Btu	10200	13500	20400	27000
MOISTURE REMOVAL	Pts/h	1.9	2.5	3.2	5.0
AIRFLOW (HIGH)	CFM	306	471	559	1100
SOUND RATING (MAX.-MIN.)	dB-A	40/28	40/28	40/28	40/28
<b>ELECTRICAL DATA</b>					
POWER SOURCE	V-Hz-Phase	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1
POWER AND COMMUNICATION CABLE	No. x AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
<b>REFRIGERATION SYSTEM</b>					
CONNECTIONS		Flare	Flare	Flare	Flare
LIQUID LINE O.D.	in	1/4	1/4	1/4	3/8
SUCTION LINE O.D.	in	3/8	3/8	1/2	5/8
<b>DIMENSIONS &amp; WEIGHT</b>					
W X H X D	in	22 1/2 x 8 1/2 x 22		33 x 9 3/4 x 33	
NET WEIGHT	lbs	31.9	34	61.8	59.5
SHIPPING WEIGHT	lbs	38.5	40.7	81.6	79.5
PACKAGE DIMENSIONS W X H X D	in	28 3/4 x 11 1/2 x 26		39 1/4 x 37 x 14	39 1/4 x 37 x 14 1/2

PERFORMANCE RATINGS		MULTI ZONE - OUTDOOR			
		18k	24k	36k	42K
OUTDOOR MODEL		<b>FPHMR18A3A</b>	<b>FPHMR24A3A</b>	<b>FPHMR36A3A</b>	<b>FPHMR42A3A</b>
<b>SPECIFICATIONS</b>					
POWER SOURCE		208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
EST. YEARLY OPERATING COST	\$	\$90	\$172	\$259	\$277
RUNNING CURRENT COOLING RATED	A	6.5	8.7	11	17.5
RUNNING CURRENT HEATING RATED	A	7.3	8.7	13	17
POWER INPUT COOLING MIN. - RATED - MAX.	W	1440 (510-2610)	1920 (420-2640)	2520 (700-5000)	4020 (700-5000)
POWER INPUT HEATING MIN. - RATED - MAX.	W	1530 (450-3510)	1920 (420-4020)	3060 (600-6000)	3870 (600-6000)
POWER AND COMMUNICATION CABLE	No. x AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
DIMENSIONS W x H x D	in	33 7/8 x 26 3/8 x 12 1/4	37 3/8 x 33 x 13 3/8	37 3/8 x 41 3/8 x 13 3/8	37 3/8 x 41 3/8 x 13 3/8
NET WEIGHT	lbs	108	159	186	196
SHIPPING WEIGHT	lbs	119	170	216	225
<b>REFRIGERATION SYSTEM</b>					
REFRIGERANT		R410A	R410A	R410A	R410A
FACTORY PRECHARGE	oz	63	81	106	120
FACTORY PRECHARGE	ft	50	75	100	125
LIQUID LINE O.D.	in	1/4	1/4	1/4	1/4
SUCTION LINE O.D.	in	3/8	3/8	3/8	3/8
MIN./MAX. LINE LENGTH (EACH)	ft	25/82	25/66	25/66	25/66
LINE LENGTH (TOTAL)	ft	164	197	197	262
MAX. HEIGHT DIFFERENCE	ft	49	49	49	49
SOUND PRESSURE LEVEL COOLING	dB	55	59	59	59
SOUND PRESSURE LEVEL HEATING	A	55	59	59	59
OPERATING RANGE COOLING	°F DB	14-115	14-115	14-115	14-115
OPERATING RANGE HEATING	°F WB	-13-75	-13-75	-13-75	4-75
MINIMUM AMPACITY	A	21A	25A	32A	35A
MAX. TD FUSE/BREAKER	A	30A	30A	50A	50A

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



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

PERFORMANCE RATINGS		MULTI ZONE - THE INSIDER® CONCEALED DUCTED - HEAT PUMPS			
		9k	12k	18k	24k
INDOOR MODEL		FPHFD09A3A	FPHFD12A3A	FPHFD18A3A	FPHFD24A3A
<b>SPECIFICATIONS</b>					
CAPACITY COOLING (RATED)	Btu	9000	12000	18000	24000
CAPACITY HEATING (RATED)	Btu	9000	12000	18000	24000
MOISTURE REMOVAL	Pts/h	2.0	3.0	5.0	5.1
AIRFLOW	CFM	235/285/309	235/285/338	370/440/529	501/574/647
SOUND RATING (MAX.-MIN.)	dB-A	29/27/26	36/33/30	38/35/33	38/36/34
<b>ELECTRICAL DATA</b>					
POWER SOURCE	V-Hz-Phase	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1
POWER AND COMMUNICATION CABLE	No. x AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
<b>REFRIGERATION SYSTEM</b>					
CONNECTIONS		Flare	Flare	Flare	Flare
LIQUID LINE O.D.	in	1/4	1/4	1/4	3/8
SUCTION LINE O.D.	in	3/8	3/8	1/2	5/8
<b>DIMENSIONS &amp; WEIGHT</b>					
W X H X D	in	35 7/8 x 7 1/2 x 17 5/8		48 7/16 x 7 1/2 x 17 5/8	39 x 10 5/8 x 30
NET WEIGHT	lbs	39.7	39.7	49.6	70.5
SHIPPING WEIGHT	lbs	46.3	47.4	56.2	81.6

PERFORMANCE RATINGS		MULTI ZONE - OUTDOOR			
		18k	24k	36k	42K
OUTDOOR MODEL		FPHMR18A3A	FPHMR24A3A	FPHMR36A3A	FPHMR42A3A
<b>SPECIFICATIONS</b>					
POWER SOURCE		208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
EST. YEARLY OPERATING COST	\$	\$90	\$172	\$259	\$277
RUNNING CURRENT COOLING RATED	A	6.5	8.7	11	17.5
RUNNING CURRENT HEATING RATED	A	7.3	8.7	13	17
POWER INPUT COOLING MIN. - RATED - MAX.	W	1440 (510-2610)	1920 (420-2640)	2520 (700-5000)	4020 (700-5000)
POWER INPUT HEATING MIN. - RATED - MAX.	W	1530 (450-3510)	1920 (420-4020)	3060 (600-6000)	3870 (600-6000)
POWER AND COMMUNICATION CABLE	No. x AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
DIMENSIONS W x H x D	in	33 7/8 x 26 3/8 x 12 1/4	37 3/8 x 33 x 13 3/8	37 3/8 x 41 3/8 x 13 3/8	37 3/8 x 41 3/8 x 13 3/8
NET WEIGHT	lbs	108	159	186	196
SHIPPING WEIGHT	lbs	119	170	216	225
<b>REFRIGERATION SYSTEM</b>					
REFRIGERANT		R410A	R410A	R410A	R410A
FACTORY PRECHARGE	oz	63	81	106	120
FACTORY PRECHARGE	ft	50	75	100	125
LIQUID LINE O.D.	in	1/4	1/4	1/4	1/4
SUCTION LINE O.D.	in	3/8	3/8	3/8	3/8
MIN./MAX. LINE LENGTH (EACH)	ft	25/82	25/66	25/66	25/66
LINE LENGTH (TOTAL)	ft	164	197	197	262
MAX. HEIGHT DIFFERENCE	ft	49	49	49	49
SOUND PRESSURE LEVEL COOLING	dB	55	59	59	59
SOUND PRESSURE LEVEL HEATING	A	55	59	59	59
OPERATING RANGE COOLING	°F DB	14-115	14-115	14-115	14-115
OPERATING RANGE HEATING	°F WB	-13-75	-13-75	-13-75	4-75
MINIMUM AMPACITY	A	21A	25A	32A	35A
MAX. TD FUSE/BREAKER	A	30A	30A	50A	50A

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





SINGLE ZONE | WALL-MOUNTED HEAT PUMPS

Excellent efficiency and outstanding quality make Floating Air® Select a truly exceptional value line



115 VOLT MODELS  
FSHSW09A1A, FSHSW12A1A



230/208 VOLT MODELS

FSHSW18A3A, FSHSW24A3A



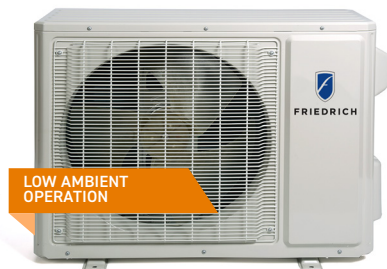
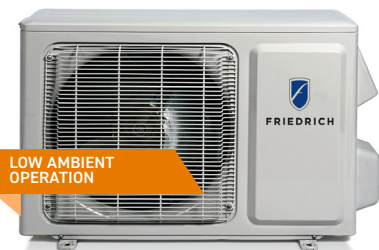
FSHSW36A3A



WIRELESS  
REMOTE CONTROL

Features

- ✔ Inverter technology is more energy efficient and can self-adjust capacity to match cooling needs
- Multiple operating modes including: auto, cool, dry, fan only and heat
- TURBO mode operates the unit at maximum performance to quickly bring the room to set temperature
- 4 fan speeds heating or cooling: high, medium, low, "quiet", plus auto-fan
- Continuous 'Air Sweep' up & down
- LCD remote
- ✔ 24-hour timer and sleep timer
- ✔ Soft start compressor
- ✔ BLDC motor
- Indoor unit will briefly display set or room temperature
- Auto-restart after power interruptions
- Auto-shut flaps close when unit is off for a sleek appearance
- Washable air filters
- 115V/230V models will provide cooling in outdoor temperatures down to 0°F



FreshAir® IAQ READY

**DIAMONBLUE™**  
Advanced Corrosion Protection

PRECISION  
**INVERTER®**

Standard		With Registration	

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

PERFORMANCE RATINGS		115 volt models			230/208 volt models	
SYSTEM MODEL NO.		FSHW091	FSHW121	FSHW183	FSHW243	FSHW363
INDOOR MODEL		FSHSW09A1A	FSHSW12A1A	FSHSW18A3A	FSHSW24A3A	FSHSW36A3A
OUTDOOR MODEL		FHSR09A1A	FHSR12A1A	FHSR18A3A	FHSR24A3A	FHSR36A3A
SPECIFICATIONS						
CAPACITY COOLING (RATED)	Btu	9000	12000	18000	24000	36000
CAPACITY COOLING MIN - MAX	Btu	3100-9600	3100-12500	3412-20472	8600-24000	7404-35997
CAPACITY HEATING (RATED) @ 47°F	Btu	9500	13000	19800	24000	34600
CAPACITY HEATING (RATED) @ 17°F	Btu	6800	7100	12800	14600	20200
CAPACITY HEATING MIN - MAX	Btu	3100-12000	3412-15013	3412-21837	8600-26000	14979-35997
SENSIBLE HEAT RATIO		0.79	0.73	0.77	0.77	0.75
HSPF		9.0	9.0	9.0	10.0	9.0
HSPF2		8.3	8.0	7.5	8.5	7.5
SEER		18.0	18.0	18.0	18.0	18.0
SEER2		17.0	17.5	17.0	18.0	18.0
EER		9.55	10.05	9.89	10.95	8.2
MOISTURE REMOVAL	Pts/h	1.69	2.96	3.8	4.23	7.4
AIRFLOW (HIGH/MED/LOW/QUIET)	CFM	318/288/241/171	400/318/241/194	500/441/383/294	588/441/306/206	883/765/647/559
SOUND RATING - INDOOR (HIGH/MED/LOW/QUIET)	dB-A	43/38/34/28	43/39/35/29	47/44/41/35	49/46/42/36	54/49/44/37
SOUND RATING - OUTDOOR	dB-A	52	53	57	58	65
OPERATING RANGE (HEATING)	°F	-4-75	-4-75	-13-75	-13-75	-4-75
OPERATING RANGE (COOLING)	°F	0-115	0-115	0-115	0-115	0-115
EST. YEARLY OPERATING COST	U.S. \$	\$67	\$113	\$146	\$198	\$368
ELECTRICAL DATA						
POWER SOURCE	V-Hz-Phase	115-60-1	115-60-1	230/208-60-1	230/208-60-1	230/208-60-1
MIN. AMPACITY	A	17	20	16	16	24
COOLING WATTS	W	900	1194	1820	2010	4100
COOLING AMPS	A	10.87	13.0	8.1	17.0	10.87
HEATING WATTS	W	870	1250	2090	2130	3800
HEATING AMPS	A	10.36	13.5	8.5	9.45	16.5
MAX. TD FUSE/BREAKER	A	25	30	25	25	40
REFRIGERATION SYSTEM						
REFRIGERANT		R410A	R410A	R410A	R410A	R410A
COMPRESSOR TYPE		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
CONNECTIONS		Flare	Flare	Flare	Flare	Flare
LIQUID LINE O.D.	in	1/4"	1/4"	1/4"	1/4"	1/4"
SUCTION LINE O.D.	in	3/8"	3/8"	1/2"	5/8"	5/8"
REFRIGERANT CHARGE	oz.	24.7	31.8	45.68	56.4	91.71
FACTORY PRECHARGE	ft	25	25	25	25	25
MIN. / MAX. LINE LENGTH	ft	7/66	7/98	10/100	10/100	15/98
MAX. HEIGHT DIFFERENCE	ft	32.8	49.2	65.0	65.6	32.8
DIMENSIONS & WEIGHT						
INDOOR UNIT						
W x H x D	in	31 1/8 x 10 7/8 x 8	31 1/8 x 11 3/8 x 8	38 x 11 7/8 x 9	42 1/2 x 12 7/8 x 10	53 1/8 x 12 7/8 x 10
NET WEIGHT	lbs	20.9	23.2	30.9	37.5	42.0
SHIPPING WEIGHT	lbs	25.4	27.6	37.5	45.2	51.8
OUTDOOR UNIT						
W x H x D	in	33 1/2 x 21 1/4 x 12 5/8		37 5/8 x 27 5/8 x 15 5/8		38 5/8 x 31 1/8 x 16 7/8
NET WEIGHT	lbs	62.8	67.3	97.0	103.6	161
SHIPPING WEIGHT	lbs	68.4	72.8	106.9	113.5	171.9
TOTAL NET WEIGHT	lbs	83.7	90.5	127.9	141.1	203
TOTAL SHIPPING WEIGHT	lbs	93.8	100.4	144.4	158.7	223.7

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



## ACCESSORIES

### REFRIGERATION LINE SETS (REQUIRED) OUTSIDE DIMENSIONS

FLOATING AIR® PRO WALL-MOUNTED				
SYSTEM MODEL	Liquid	Suction	Lineset Kit	Lineset Kit
FPHW091A	1/4	3/8	T32150 - 15'	T32350 - 35'
FPHW121A	1/4	3/8	T32150 - 15'	T32350 - 35'
FPHW093A	1/4	3/8	T32150 - 15'	T32350 - 35'
PFHW123A	1/4	3/8	T32150 - 15'	T32350 - 35'
FPHW183A	1/4	1/2	T42150 - 15'	T42250 - 25'
FPHW243A	3/8	5/8	T53250 - 25'	T53350 - 35'
FPHW363B	3/8	5/8	T53250 - 25'	T53350 - 35'
FLOATING AIR® PRO MULTI ZONE OUTDOOR				
FPHMR18A3A	1/4	3/8	T32150 - 15'	T32350 - 35'
FPHMR24A3A	1/4	3/8	T32150 - 15'	T32350 - 35'
FPHMR36A3A	1/4	3/8	T32150 - 15'	T32350 - 35'
FPHMR42A3A	1/4	3/8	T32150 - 15'	T32350 - 35'
FLOATING AIR® PREMIER WALL-MOUNTED				
FRHW093A	1/4	3/8	T32150 - 15'	T32350 - 35'
FRHW123A	1/4	3/8	T32150 - 15'	T32350 - 35'
FLOATING AIR® SELECT WALL-MOUNTED				
FSHW091B	1/4	3/8	T32150 - 15'	T32350 - 35'
FSHW121B	1/4	3/8	T32150 - 15'	T32350 - 35'
FSHW183B	1/4	1/2	T42150 - 15'	T42350 - 35'
FSHW243B	1/4	5/8	T52250 - 25'	T52350 - 35'
FSHW363B	1/4	5/8	T52250 - 25'	T52350 - 35'
FLOATING AIR® PRO CASSETTE SINGLE ZONE				
FPHC093A	1/4	3/8	T32150 - 15'	T32350 - 35'
FPHC123A	1/4	3/8	T32150 - 15'	T32350 - 35'
FPHC183A	1/4	1/2	T42150 - 15'	T42250 - 25'
FPHC243A	3/8	5/8	T53250 - 25'	T53350 - 35'
FPHC363A	3/8	3/4	T63500 - 50'	
FLOATING AIR® PRO THE INSIDER® SINGLE ZONE CONCEALED DUCTED				
FPHD093	1/4	3/8	T32150 - 15'	T32350 - 35'
FPHD123	1/4	3/8	T32150 - 15'	T32350 - 35'
FPHD183	1/4	1/2	T42150 - 15'	T42250 - 25'
FPHD243	3/8	5/8	T53250 - 25'	T53350 - 35'
FPHD363	3/8	3/4	T63500 - 50'	

### REFRIGERATION LINE SETS MIN./MAX. LENGTHS

FLOATING AIR® PRO WALL-MOUNTED		
SYSTEM MODEL	Min. (ft.)	Max. Each/Total (ft.)
FPHW091A	10	50
FPHW121A	10	50
FPHW093A	10	50
PFHW123A	10	50
FPHW183A	10	66
FPHW243A	10	66
FPHW363B	10	66
FLOATING AIR® PRO CEILING CASSETTE		
FPHC093A	25	82
FPHC123A	25	82
FPHC183A	25	82
FPHC243A	25	164
FPHC363A	25	164
FLOATING AIR® PRO THE INSIDER® CONCEALED DUCTED		
FPHD093	25	82
FPHD123	25	82
FPHD183	25	82
FPHD243	25	164
FPHD363	25	164
FLOATING AIR® PRO OUTDOOR		
FPHMR18A3A	25	82/164
FPHMR24A3A	25	66/197
FPHMR36A3A	25	66/246
FPHMR42A3A	25	66/246
FLOATING AIR® PREMIER		
FRHW093A	10	66
FRHW123A	10	66
FLOATING AIR® SELECT		
FSHW091B	10	66
FSHW121B	10	66
FSHW183B	10	82
FSHW243B	10	82
FSHW363B	15	98

## TORQUE WRENCH SETTINGS

Outside Diameter		Torque	
mm	inch	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

## ACCESSORIES

### CEILING CASSETTE GRILLES

(REQUIRED)

Decorative Grille	
FPCG0912	FPCG182436
Fits FPHFC09A3B FPHFC12A3B	Fits FPHFC18A3B FPHFC24A3B FPHFC36A3B



### WALL CONTROLLERS

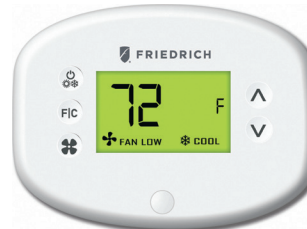
(OPTIONAL)



FPWC1




FSWC1



DSSXEMWRT3

**FPWC1**- Optional wired wall controller for Floating Air Premier single zone, and Floating Air® Pro, single and multi zone models. Does not work with FPHSW36A3C at this time. Please check with your Friedrich representative for options.

**FSWC1**- Optional wired wall controller for Floating Air® Select single zone models.

**DSSXEMWRT3**-  Optional wireless energy management thermostat with occupancy sensor. For Floating Air® Pro, single and multi zone models.

### WIRELESS REMOTE ACCESSORY FOR FLOATING AIR® SELECT MODELS

(OPTIONAL)

**DFACC**- LCD remote for cooling only operation of all Floating Air® Select heat pumps.



DFACC

# FreshAir® IAQ READY

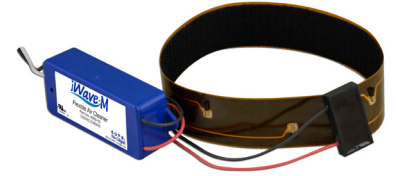
## Friedrich FreshAir® IAQ

Proven solutions that improve the health and quality of indoor air, and ease customer concerns about the air they breathe. Easy-to-install FreshAir® IAQ accessories improve the health and quality of indoor air.

### AIR PURIFICATION

#### FreshAir® Purifier APWM1

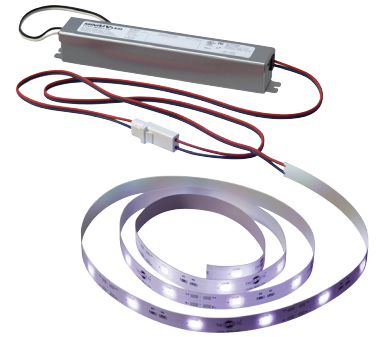
FreshAir® Purifier by iWave® features needlepoint bi-polar ionization to address any mold, bacteria, virus, allergens, and VOC's that may be in your air stream to ensure delivery of healthy, clean, purified air. Optional accessory for all Friedrich wall-mounted ductless models.



### ULTRAVIOLET LED

#### Friedrich UV UVL1

Germicidal UV light kits have been tested and certified for use on Friedrich products. The UV kit can be installed on the indoor coil and is designed to disinfect surfaces and the air as it circulates through the ventilation system. UV light can kill airborne bacteria, viruses, mold, reduce maintenance costs and extend the life of an HVAC system. Optional accessory for all Friedrich wall-mounted ductless models.



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

Floating Air® Premier models FRHW093A, FRHW123A. Floating Air® Pro models FPHW091A, FPHW121A, FPHW093A, FPHW123A, FPHW183A, FPHW243A, FPHC093A, FPHC123A, FPHC183A, FPHC243A, FPHMR183A, FPHMR243A, FPHMR363A.

