

# GENUINE & CUSTOMIZED

COMFORT FOR EVERY ROOM



**Floating Air®**

VERSATILE, SUPER-EFFICIENT  
& ULTRA-QUIET



## RUUD® FLOATING AIR™ DUCTLESS MINI-SPLIT SYSTEMS

Home comfort has never been more convenient—or customizable. Engineered to match your exact heating and cooling preferences, Ruud® 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 year-round peace of mind.

RELY ON



[Ruud.com/FloatingAir](https://ruud.com/floatingair)



# WHY CHOOSE RUUD®

## FLOATING AIR™ DUCTLESS MINI-SPLIT SYSTEMS

Designed to excel in both residential applications and light commercial applications, Ruud Floating Air mini-split systems can efficiently heat and cool one room or multiple rooms. 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.



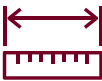
### Heating & Cooling Flexibility

Ruud 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.



### No Dirty Ducts

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



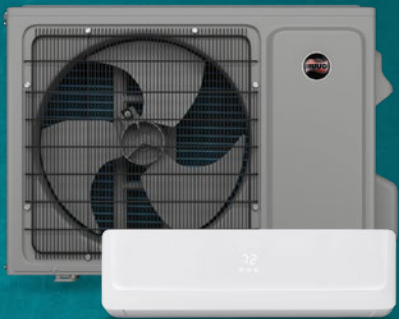
### Total Installation Flexibility

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



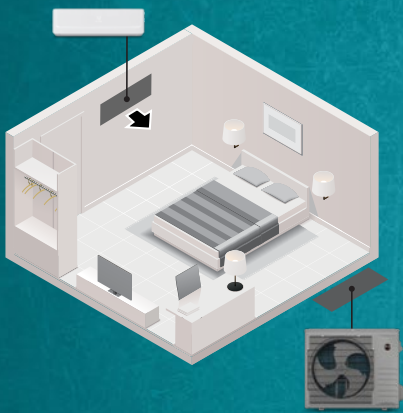
# COMFORT CUSTOMIZED TO YOUR NEEDS

Comfort shouldn't be complicated. No matter what you're looking for, Ruud® Floating Air™ systems—both single-zone and multi-zone—are packed with industry-leading features 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 zones. Plus, occupants can set the temperature of each zone to their preferred comfort level<sup>1</sup> or turn off units in unoccupied rooms without impacting other zones.



<sup>1</sup>Multi-zone units cannot heat and cool simultaneously.



### 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. It can also be used in a multi-zone configuration with another indoor unit type(s) for additional flexibility.



### Easy Service & Maintenance

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



### 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 select systems can operate efficiently in extreme temperatures, with cooling in ambient temperatures as low as 5°F and heating down to -22°F. Plus, all 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 & STATE-OF-THE-ART FEATURES

Floating Air™ mini-split systems are engineered to deliver precise comfort and are packed with 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.

The **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 *Ultra*™ Series 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 *Ultra*™ Series models are ENERGY STAR® Cold Climate Heat Pump certified.

## Sustainable Operation

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



# EASY-TO-CLEAN DESIGN FOR FAST SERVICING & GREATER SAVINGS

## Save Time With PlusOne® *FastPro*® Easy-service Design

All wall-mounted units<sup>1</sup> 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%  
FASTER<sup>2</sup>**  
TO INSTALL



**50%  
FASTER<sup>2</sup>**  
TO SERVICE



**45%  
FASTER<sup>2</sup>**  
TO CLEAN



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

## 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

works with  
**Google Home**

works with  
**alexa**



Scan to Download App:  
**APPLE APP  
STORE**



Scan to Download App:  
**GOOGLE PLAY  
STORE**

## Simplified Troubleshooting

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



## 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

We offer 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™ Ultra™ 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°F<sup>1</sup>
- 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™ Achiever Plus® Series

This line delivers all the features of Floating Air Achiever® 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™ Achiever® 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 available<sup>2</sup>



<sup>1</sup>Ultra Series Multi-zone 42K BTU models operate at 86% capacity at 5°F.  
<sup>2</sup>Applies to FSHW091C and FSHW183D model sets.

See the below comparison chart to help you choose among Floating Air *Ultra*™ Series, *Achiever Plus*® Series and *Achiever*® Series 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	Achiever Series	Achiever Plus Series	Ultra Series	Ultra Series	Ultra Series	Ultra Series	Ultra Series The Insider®	Ultra Series The Insider®	Ultra Series
PlusOne® FastPro® Design	✓*	✓	✓	✓	—	—	—	—	—
Built-in Wi-Fi Models, ComfortPro Mobile App	✓	✓	✓	✓	✓	✓	—	—	—
Available Voltage	115V, 208/230V	115V, 208/230V	208/230V	208/230V	208/230V	208/230V	208/230V	208/230V	208/230V
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	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hard-wired 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® **ACHIEVER® SERIES WALL-MOUNTED HEAT PUMPS**  
FEATURING OUR PLUSONE® **FastPro®** EASY-SERVICE DESIGN

GOOD | BETTER | BEST

Key Features

- **FastPro®** design for the fastest access for maintenance of any wall-mounted ductless systems

- ENERGY STAR® certified models available\*

- **Precision Inverter®** technology (variable speed compressor)

- Soft-Start™ compressor

- BLDC motor

- Built-in Wi-Fi

 indicates sustainability feature

- Sleep mode

- Ultra quiet operation

- Easy-to-read temperature display

- Wireless remote control included

- Efficiencies of up to 21.0 SEER2



Single-zone

115 VOLT MODELS:



FAHSW09A1C, FAHSW12A1C



FHSR09B1C, FHSR12B1C

208/230 VOLT MODELS:



FAHFW18A3D, FAHFW24A3D



FHSR18B3D, FHSR24B3D



FAHSW36A3D  
(**FastPro®** not available on this model)



FHSR36B3D

FLOATING AIR™ **ACHIEVER®** SERIES | SINGLE-ZONE | WALL-MOUNTED HEAT PUMPS

MODEL	Model Set	Unit	FSHW091C	FSHW121C	FSHW183D	FSHW243D	FSHW363D
	Indoor Model		FAHSW09A1C	FAHSW12A1C	FAHFW18A3D	FAHFW24A3D	FAHSW36A3D
	Outdoor Model		FHSR09B1C	FHSR12B1C	FHSR18B3D	FHSR24B3D	FHSR36B3D
COOLING	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
	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
HEATING	Cooling Operating Range	°F	5–118	5–118	5–118	5–118	5–118
	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
INDOOR AIRFLOW	Maximum Heating Capacity @ 5°F (-15°C)	Btu/h	6,000	7,500	15,000	18,500	20,000
	Heating Operating Range	°F	-5–75	-5–75	-5–75	-5–75	-5–75
INDOOR FAN MOTOR	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
	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
OUTDOOR AIRFLOW	Output	W	46	46	35	35	70
	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
OUTDOOR FAN MOTOR	Air Circulation (High) for Outdoor	ft³ CFM	1,295	1,295	1,471	1,942	2,590
	Sound Rating – Outdoor	dB(A)	53.0	53.0	56.0	60.0	60.0
ELECTRICAL	Output	W	36	36	60	102	102
	Speed (High)	r/min	850	880	840	880	900
REFRIGERATION (R-32)	Rated Current	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	20	20	20	25	30
	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 × 14 AWG Stranded THHN				
	Moisture Removal	pints/hr	1.9	2.5	3.8	4.2	7.9
	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
OUTDOOR UNIT DIMENSIONS & WEIGHTS	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
		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
STANDARD WARRANTY		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
WITH REGISTRATION WARRANTY		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



\*Applies to FSHW091C and FSHW183D model sets.





Floating Air® **ACHIEVER PLUS® SERIES WALL-MOUNTED HEAT PUMPS**  
FEATURING OUR PLUSONE® **FastPro®** EASY-SERVICE DESIGN

GOOD | **BETTER** | BEST

**Key Features**

- **FastPro®** design for the fastest access for maintenance of any wall-mounted ductless systems
- All models ENERGY STAR® and ENERGY STAR® Cold Climate Heat Pump certified

- **Precision Inverter®** technology (variable speed compressor)
- Soft-Start™ compressor
- BLDC motor
- Built-in Wi-Fi
- Sleep mode

*indicates sustainability feature*

- Ultra quiet operation
- Low ambient heat pump operation down to -13°F
- Easy-to-read temperature display
- Wireless remote control included

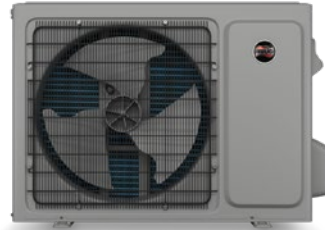


**SMART HOME READY**

**Single-zone**



FPHSR09A1C, FPHSR12A1C,  
FPHSR09A3D, FPHSR12A3D



FPHSR18A3D



FPHSR24A3D



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

**115 VOLT MODELS:**



FAHSW09A1C and FAHSW12A1C

**208/230 VOLT MODELS:**



FAHFW09A3D, FAHFW12A3D, FAHFW18A3D,  
FAHFW24A3D



**FLOATING AIR™ ACHIEVER PLUS® SERIES | SINGLE-ZONE | WALL-MOUNTED HEAT PUMPS**

MODEL	Model Set	Unit	FPHW091C	FPHW121C	FPHW093D	FPHW123D	FPHW183D	FPHW243D
	Indoor Model		FAHSW09A1C	FAHSW12A1C	FAHFW09A3D	FAHFW12A3D	FAHFW18A3D	FAHFW24A3D
	Outdoor Model		FPHSR09A1C	FPHSR12A1C	FPHSR09A3D	FPHSR12A3D	FPHSR18A3D	FPHSR24A3D
	Power Supply		115V~, 60Hz, 1P			208V/230V~, 60Hz, 1P		
COOLING	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
	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
HEATING	Cooling Operating Range (Min.–Max.)	°F	5–118	5–118	5–118	5–118	5–118	5–118
	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
	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
	Heating Operating Range (Min.–Max.)	°F	-13–75	-13–75	-13–75	-13–75	-13–75	-13–75
INDOOR AIRFLOW	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
INDOOR FAN MOTOR	Output	W	46	46	25	25	35	35
	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
OUTDOOR AIRFLOW	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
OUTDOOR FAN MOTOR	Output	W	36	36	36	36	60	102
	Speed (High)	r/min	850	880	880	880	840	880
ELECTRICAL	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
	MOP (Rating of Overcurrent Protective Device)	A	20	20	15	15	20	25
	MCA (Minimum Circuit Ampacity)	A	16.0	16.0	9.5	10.5	20.0	22.0
REFRIGERATION (R-454B)	Communication Wire Size and Type		4 × 14 AWG Stranded THHN					
	Moisture Removal	pints/hr	1.9	2.5	1.9	2.5	3.2	4.7
	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
	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
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	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	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
		kg	10.0	10.0	10.0	10.0	16.0	16.0
OUTDOOR UNIT DIMENSIONS & WEIGHTS	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
		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
		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





# ULTRA™ SERIES WALL-MOUNTED HEAT PUMPS

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

GOOD | BETTER | BEST

### Key Features

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

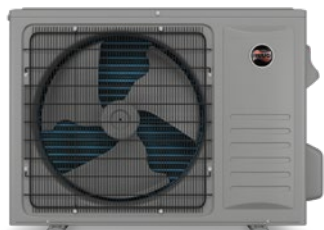
 indicates sustainability feature

SMART  
HOME  
READY



\*Ultra Series Multi-zone 42K BTU models operate at 86% capacity at 5°F.

### Single-zone



FPHFR09A3D, FPHFR12A3D

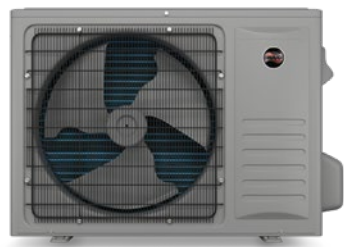


FPHFR18A3D, FPHFR24A3D

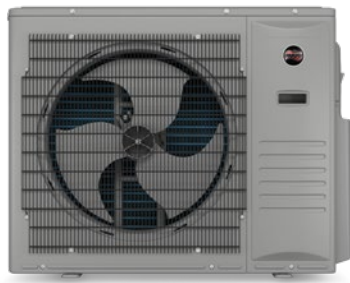


- Low ambient heat pump operation down to -22°F
- Low ambient cooling operation down to 5°F
- Low temperature compressor start-up protection

### 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

### 208/230 VOLT MODELS:



FAHMM07A3D, FAHFW09A3D, FAHFW12A3D, FAHFW18A3D, FAHFW24A3D



### FLOATING AIR™ ULTRA™ SERIES | SINGLE-ZONE | WALL-MOUNTED HEAT PUMPS

MODEL	Model Set	Unit	FXHW093D	FXHW123D	FXHW183D	FXHW243D
	Indoor Model		FAHFW09A3D	FAHFW12A3D	FAHFW18A3D	FAHFW24A3D
	Outdoor Model		FPHFR09A3D	FPHFR12A3D	FPHFR18A3D	FPHFR24A3D
	Power Supply		208V/230V~, 60Hz, 1P			
COOLING	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	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
HEATING	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
	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
INDOOR AIRFLOW	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
INDOOR FAN MOTOR	Heating Operating Range (Min.–Max.)	°F	-22–75	-22–75	-22–75	-22–75
	Air Circulation (Max./H/M/L)	ft³ CFM	382/341/294/247	394/365/312/253	647/588/482/382	706/647/559/441
	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
	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
	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
REFRIGERATION (R-454B)	MOP (Rating of Overcurrent Protective Device)	A	15	15	20	25
	MCA (Minimum Circuit Ampacity)	A	12.0	12.0	16.0	22.0
	Communication Wire Size and Type		4 × 14 AWG Stranded THHN			
	Moisture Removal	pints/hr	2.4	3.7	4.2	6.3
	Refrigerant Charge Volume	oz.	38.1	38.1	56.4	74.1
INDOOR UNIT DIMENSIONS & WEIGHTS	Liquid Pipe	in.	1/4	1/4	1/4	3/8
	Gas Pipe	in.	3/8	3/8	1/2	5/8
	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
OUTDOOR UNIT DIMENSIONS & WEIGHTS	Additional Refrigerant Charge per Foot After 25 ft.	oz./ft.	0.16	0.16	0.16	0.38
	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
	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





MODEL	Indoor Model	Unit	FAHMW07A3D	FAHFW09A3D	FAHFW12A3D	FAHFW18A3D	FAHFW24A3D
	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™ ULTRA™ SERIES | MULTI-ZONE | OUTDOOR UNITS

For Outdoor Model Specs, see page 22.

Floating Air® ULTRA™ SERIES CEILING CASSETTE HEAT PUMPS

GOOD | BETTER | BEST

Key Features

- ✔ All models ENERGY STAR® and ENERGY STAR® Cold Climate Heat Pump certified

✔ Precision Inverter® technology (variable speed compressor)

✔ Soft-Start™ compressor

✔ BLDC motor

✔ Built-in Wi-Fi

✔ Sleep mode

• 3 fan speeds

• Ultra-quiet turbo fan

• Precise 4-way air distribution

• Evaporator frost control

• Built-in drain lift

• Flexible installation

• Clean, modern look

• Wireless remote control included



Single-zone



FPHFR09A3D, FPHFR12A3D

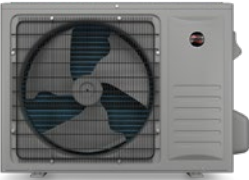


FPHFR18A3D, FPHFR24A3D, FPHFR36A3D



- 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™ *ULTRA*™ SERIES | SINGLE-ZONE | CEILING CASSETTE HEAT PUMPS

MODEL	Model Set	Unit	FPHC093D	FPHC123D	FPHC183D	FPHC243D	FPHC363D
	Indoor Model		FPHFC09A3D	FPHFC12A3D	FPHFC18A3D	FPHFC24A3D	FPHSC36A3D
	Outdoor Model		FPHFR09A3D	FPHFR12A3D	FPHFR18A3D	FPHFR24A3D	FPHFR36A3D
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	15	15	20	25	35
REFRIGERATION (R-454B)	MCA (Minimum Circuit Ampacity)	A	12	12	16	22	30
	Communication Wire Size and Type		4 × 14 AWG Stranded THHN				
	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	900×750×340	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
		kg	4.5	4.5	9.0	9.0	9.0

FLOATING AIR™ *ULTRA*™ SERIES | MULTI-ZONE | CEILING CASSETTE HEAT PUMPS

MODEL	Indoor Model	Unit	FPHFC09A3D	FPHFC12A3D	FPHFC18A3D	FPHFC24A3D
	Power Supply		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



Standard

With Registration



FLOATING AIR™ *ULTRA*™ SERIES | MULTI-ZONE | OUTDOOR UNITS

For Outdoor Model Specs, see page 22.



Standard

With Registration



Ceiling Cassette Grilles  
(Required – Not Included)



FPCG0912A

FPCG182436A

DECORATIVE GRILLE	
FPCG0912A	FPCG182436A
FITS FPHFC09A3D, FPHFC12A3D	FITS FPHFC18A3D, FPHFC24A3D, FPHFC36A3D



# ULTRA™ SERIES THE INSIDER® CONCEALED DUCTED HEAT PUMPS



## Key Features

- All models ENERGY STAR® and ENERGY STAR® Cold Climate Heat Pump certified
- Precision Inverter®** technology (variable speed compressor)
- Soft-Start™ compressor

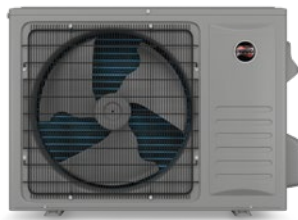
- BLDC motor
- 3 fan speeds
- External static pressure range 0-.40 (single-zone)
- External static pressure range 9K/12K/18K/24K 0-.40 WC (multi-zone)

indicates sustainability feature

- Built-in drain lift
- Wall controller included (FPWC1)
- Control lock function on controller



## Single-zone



FPHFR09A3D, FPHFR12A3D

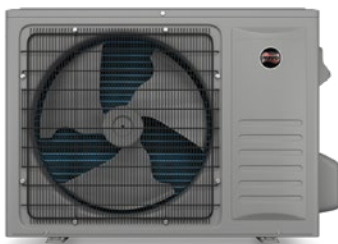


FPHFR18A3D, FPHFR24A3D,  
FPHFR36A3D



- 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



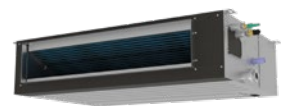
FPHMR18A3D



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™ ULTRA™ SERIES | SINGLE-ZONE | THE INSIDER® CONCEALED DUCTED HEAT PUMPS

MODEL	Model Set	Unit	FPHD093D	FPHD123D	FPHD183D	FPHC243D	FPHC363D
	Indoor Model		FPHFD09A3D	FPHFD12A3D	FPHFD18A3D	FPHFD24A3D	FPHSD36A3D
	Outdoor Model		FPHFR09A3D	FPHFR12A3D	FPHFR18A3D	FPHFR24A3D	FPHFR36A3D
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
	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
HEATING	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
	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
	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
INDOOR AIRFLOW	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 Range With Filter	0.18 0–0.12	0.18 0–0.12	0.18 0–0.56	0.58 0–0.66	0.58 0–0.71
INDOOR FAN MOTOR	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
OUTDOOR AIRFLOW	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
OUTDOOR FAN MOTOR	Output	W	40	40	60	102	250
	Speed (High)	r/min	880	880	880	870	850
ELECTRICAL	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
		Heating (W)	750	1,000	1,540	2,050	2,900
	MOP (Rating of Overcurrent Protective Device)	A	15	15	20	25	35
	MCA (Minimum Circuit Ampacity)	A	12	12	16	22	30
REFRIGERATION (R-454B)	Communication Wire Size and Type		4 × 14 AWG Stranded THHN				
	Moisture Removal	pints/hr	2.35	3.66	4.26	4.31	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
	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
INDOOR UNIT 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	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
		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
OUTDOOR UNIT DIMENSIONS & WEIGHTS	Shipping Weight	lbs.	51.8	51.8	58.4	73.9	125.7
		kg	23.5	23.5	31.0	38.5	57.0
	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	900×750×340	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
OUTDOOR UNIT DIMENSIONS & WEIGHTS	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
		kg	39.0	39.0	50.5	60.0	95.0





MODEL	Indoor Model	Unit	FPHFD09A3D	FPHFD12A3D	FPHFD18A3D	FPHFD24A3D
	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





Standard



With Registration








FLOATING AIR™ *ULTRA*™ SERIES | MULTI-ZONE | OUTDOOR UNITS

For Outdoor Model Specs, see page 22.

*Floating Air* *ULTRA*™ SERIES AIR HANDLERS

GOOD | BETTER | **BEST**

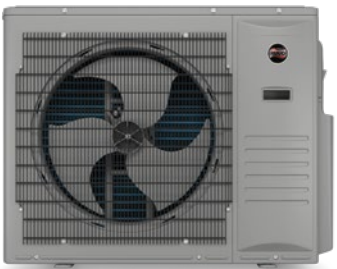
Key Features

-  All models ENERGY STAR® and ENERGY STAR® Cold Climate Heat Pump certified
-  **Precision Inverter®** technology (variable speed compressor)
-  Soft-Start™ compressor
-  BLDC motor
-  indicates sustainability feature
- Aluminum indoor coil
  - 3 fan speeds
  - Compatible with 24V thermostats
  - Efficiencies of up to 19.0 SEER2
- Air handler can be installed in 4 configurations; upflow, downflow, horizontal left, and horizontal right

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™ *ULTRA*™ | MULTI-ZONE | AIR HANDLER

MODEL	Indoor Model	Unit	FPHFA18A3D	FPHFA24A3D
	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







OUTDOOR MODEL	Outdoor Model		FPHMR18A3D	FPHMR27A3D	FPHMR36A3D	FPHMR42A3D
	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	18,000	27,000	36,000	42,000
	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
HEATING	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
	Heating Operating Range (Min.–Max.)	°F	-13–75	-13–75	-13–75	-13–75
AIRFLOW	Air Circulation (High) for Outdoor	ft³ CFM	1,850	3,357	3,357	3,357
	Sound Rating – Outdoor	dB(A)	55	62	64	64
FAN MOTOR	Output	W	60	220	220	220
	Speed (High)	r/min	880	850	830	830
ELECTRICAL	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	25	30	35	40
	MCA (Minimum Circuit Ampacity)	A	21	27	34	37
	Communication Wire Size and Type		4 × 14 AWG Stranded THHN			
REFRIGERATION (R-454B)	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.	0.16	0.16	0.16	0.16
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™ *ULTRA*™ SERIES | 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  
Select 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  
Select two (2) 18,000 Btu indoor units

3 ZONES  
Select 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. When an air handler is installed, the maximum combination is (3) 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

2 ZONES  
Choose two (2) indoor units up to 48,000 Btu

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

4 ZONES  
Select any combination of (4) indoor units.

5 ZONES  
Choose any combination of (5) indoor units. When an air handler is installed, the maximum combination is (4) indoor units.  
**Combinations SHOULD NOT:**  
Exceed the maximum allowable total indoor unit connected capacity of 54,000 Btu.

MULTI-ZONE CONFIGURATION, AHRI RATINGS

Ruud Model	AHRI Reference Number	Indoor Type	System Cooling 95°F Capacity	EER2	SEER2	High Heat 47°F	HSPF2	Low Heat 17°F	COP 5°F	Maximum Heating Capacity -13°F
FPHMR18A3D	215792836	Non-Ducted Indoor Units	18,000	13.30	22	18,000	10	11,500	1.99	13,356
	215792837	Ducted Indoor Units	18,000	12.00	17.5	18,000	9.4	11,900	1.96	13,356
	215792838	Mixed Ducted and Non-Ducted Indoor Units	18,000	12.65	19.75	18,000	9.7	11,700	1.96	13,356
FPHMR27A3D	215792839	Non-Ducted Indoor Units	27,000	12.85	23	27,000	10	17,600	1.82	19,177
	215792840	Ducted Indoor Units	27,000	11.50	18	27,000	8.8	18,200	1.84	19,177
	215792841	Mixed Ducted and Non-Ducted Indoor Units	27,000	12.20	20.5	27,000	9.4	18,000	1.82	19,177
FPHMR36A3D	215792846	Non-Ducted Indoor Units	36,000	12.85	22	36,000	10	22,600	1.92	26,175
	215792845	Ducted Indoor Units	36,000	12.85	19	36,000	9	21,000	1.83	26,175
	215792847	Mixed Ducted and Non-Ducted Indoor Units	36,000	12.85	20.5	36,000	9.5	21,800	1.87	26,175
FPHMR42A3D	215792843	Non-Ducted Indoor Units	42,000	12.00	22	48,000	9.5	28,200	1.92	27,216
	215792842	Ducted Indoor Units	42,000	11.35	18	45,000	8.8	27,400	1.83	27,216
	215792844	Mixed Ducted and Non-Ducted Indoor Units	42,000	11.80	20	46,500	9.15	27,800	1.87	27,216





FLOATING AIR™ ULTRA™ SERIES | MULTI-ZONE ALLOWABLE CONFIGURATIONS

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



**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


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	
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	

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

FPHMR36A3D					
ZONE 1	ZONE 2	ZONE 3	ZONE 4	TOTAL	
7	24	-	-	31*	
9	24	-	-	33*	
12	18	-	-	30*	
12	24	-	-	36*	
18	18	-	-	36*	
18	24	-	-	42*	
24	24	-	-	48*	
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	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	12	12	24	52	
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	

\*Acceptable combination allowed with air handler unit.

FLOATING AIR™ ULTRA™ SERIES | MULTI-ZONE ALLOWABLE CONFIGURATIONS




**2, 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	
12	24	-	-	-	36*	
18	18	-	-	-	36*	
18	24	-	-	-	42*	
24	24	-	-	-	48*	
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*	

\*Acceptable combination allowed with air handler unit.

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	
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	
9	9	9	12	12	51	
9	9	12	12	12	54	

INDOOR UNITS



**MODEL****BTU**


FAHMW07A3D7,000

FAHFW09A3D9,000

FAHFW12A3D12,000

FAHFW18A3D18,000

FAHFW24A3D24,000




**MODEL****BTU**

FPHFC09A3D9,000

FPHFC12A3D12,000

FPHFC18A3D18,000

FPHFC24A3D24,000




**MODEL****BTU**

FPHFD09A3D9,000

FPHFD12A3D12,000

FPHFD18A3D18,000

FPHFD24A3D24,000



**MODEL****BTU**

FPHFA18A3D18,000

FPHFA24A3D24,000



TECH SPECS

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

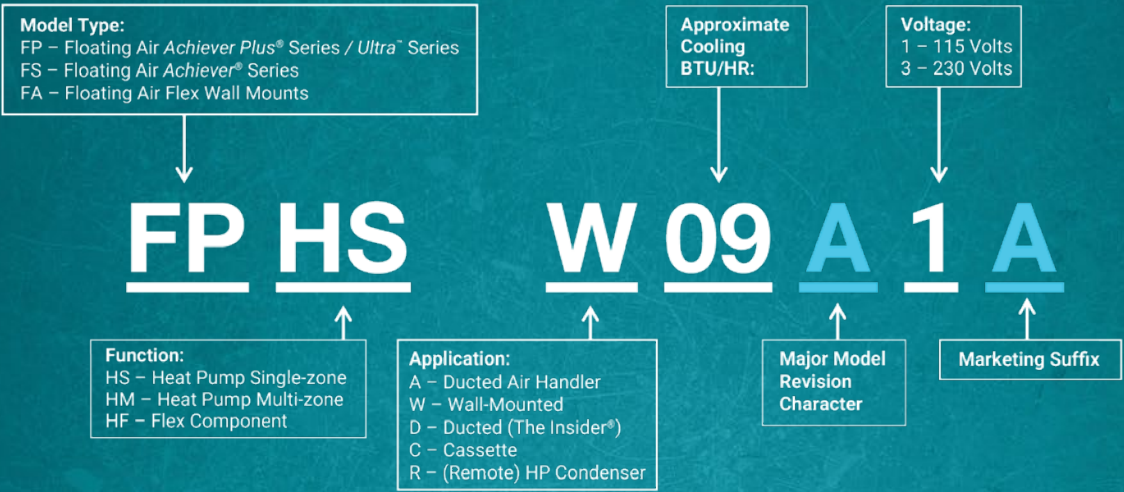
FLOATING AIR™ ACHIEVER PLUS® SERIES & ULTRA™ SERIES WALL-MOUNTED						
Model Set	Liquid	Suction	Lineset Kit	Lineset Kit	Min. (ft.)	Max. Each/ Total (ft.)
FPHW091C	1/4	3/8	T32150 - 15'	T32350 - 35'	10	66
FPHW121C	1/4	3/8	T32150 - 15'	T32350 - 35'	10	66
FPHW093D	1/4	3/8	T32150 - 15'	T32350 - 35'	10	66
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™ ACHIEVER® SERIES 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™ ULTRA™ SERIES CASSETTE SINGLE-ZONE						
FPHC093D	1/4	3/8	T32150 - 15'	T32350 - 35'	10	82
FPHC123D	1/4	3/8	T32150 - 15'	T32350 - 35'	10	82
FPHC183D	1/4	1/2	T42150 - 15'	T42250 - 25'	10	82
FPHC243D	3/8	5/8	T53250 - 25'	T53350 - 35'	10	164
FPHC363D	3/8	3/4	T63500 - 50'		10	164
FLOATING AIR™ ULTRA™ SERIES THE INSIDER® SINGLE-ZONE CONCEALED DUCTED						
FPHD093D	1/4	3/8	T32150 - 15'	T32350 - 35'	10	82
FPHD123D	1/4	3/8	T32150 - 15'	T32350 - 35'	10	82
FPHD183D	1/4	1/2	T42150 - 15'	T42250 - 25'	10	82
FPHD243D	3/8	5/8	T53250 - 25'	T53350 - 35'	10	164
FPHD363D	3/8	3/4	T63500 - 50'		10	164
FLOATING AIR™ ACHIEVER PLUS® SERIES & ULTRA™ 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	82/230
FPHMR36A3D	1/4	3/8	T32150 - 15'	T32350 - 35'	25	82/230
FPHMR42A3D	1/4	3/8	T32150 - 15'	T32350 - 35'	25	82/262

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



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** – 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 Ruud representative for options.



**DSSXEMWRTA4** – Optional wireless energy management thermostat with occupancy sensor. Compatible with Floating Air wall-mounted, cassette, and concealed ducted indoor models. Not compatible with AHU indoor models. See your Ruud representative for options.

Sensors (Optional, Depending Upon Model)



**ADS01** – Field-installed A2L sensor for Floating Air R-454B wall-mounted applications.  
**ADS02** – Field-installed A2L sensor for Floating Air R-32 wall-mounted applications. See Installation and Operational Manual for additional information & requirements.



# RUUD® FLOATING AIR™

## FEATURES AT A GLANCE



VERSATILE, SUPER-EFFICIENT  
& ULTRA-QUIET

**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 *Achiever*® and all *Achiever Plus*®  
and *Ultra*™ Series models

**ENERGY STAR® Cold Climate Heat Pump**

**Certified:** Yes – all *Achiever Plus*® and  
*Ultra*™ Series models

**Refrigerant Type:**

- Low-GWP R-454B (*Achiever Plus*® and  
*Ultra*™ Series models)
- Low-GWP R-32 (*Achiever*® Series models)

**Key Features:**

- PlusOne® **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  
(*Ultra*™ Series models only)
- Diamonblue™ Advanced  
Corrosion Protection
- FreshAire® 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 (with registration at RegisterMyUnit.com)
- Compressor – 10 years (standard)

\*See model series for details

\*\*Excludes FAHSW36A3D



[Ruud.com/FloatingAir](https://www.ruud.com/FloatingAir)

RELY ON



[Ruud.com](https://www.ruud.com)

### Ruud Heating & Cooling

As the only brand bringing innovative air and water solutions to homes and businesses around the world, Ruud continues to deliver advanced comfort, savings and experiences to our customers—just as we've done since 1925.



**Ruud USA**

5600 Old Greenwood Road  
Fort Smith, Arkansas 72908



**Ruud Canada Ltd. / Ltée**

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



Many Ruud Floating Air™ *Achiever Plus*® Series and *Ultra*™ Series 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](https://www.ftc.gov/energy).

Apple and the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries. Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates. App Store is a service mark of Apple Inc., registered in the U.S. and other countries. Google, Google Play and the Google Play logo are trademarks of Google LLC.

© 2025 Rheem Manufacturing Company. Ruud trademarks owned by Rheem Manufacturing Company. In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

Printed in the USA | 09/25 | QG | Form No. M22-7508 | Rev. 3