

PURCHASER		P.O. #	DATE
PROJECT		LOCATION	
ENGINEER		ARCHITECT	
SUBMITTED BY		FOR APPROVAL	FOR REFERENCE

ITEM	PLAN DESIGNATION	QUANTITY	COOLING BTU/H	VOLTAGE	FRIEDRICH MODEL

### Features for comfort and convenience

FEATURING **FastPro®** DESIGN



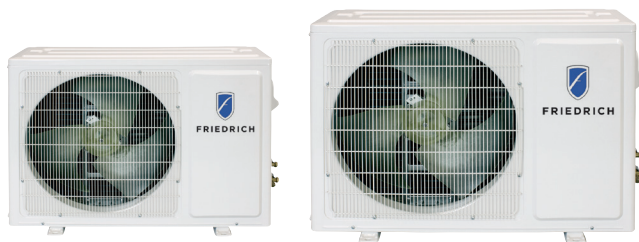
### Built-in Wi-Fi for control anytime, anywhere

- 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

- 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)
- R-454B GWP of 466**



- Low ambient operation down to 5°F (Cooling mode)
- Low ambient operation down to -13°F (Heating mode)
- Low temperature compressor start-up protection

FLOATING AIR® PRO | WALL-MOUNTED HEAT PUMPS

PERFORMANCE RATINGS					
System Model No.		FPHW093B	FPHW123B	FPHW183B	FPHW243B
Indoor Model		FAHFW09A3A	FAHFW12A3A	FAHFW18A3A	FAHFW24A3A
Outdoor Model		FPHSR09A3B	FPHSR12A3B	FPHSR18A3B	FPHSR24A3B
SPECIFICATIONS					
Capacity Cooling (Rated)	Btu	9,000	12,000	18,000	24,000
Capacity Cooling (Min.-Max.)	Btu	3,600-10,000	4,000-13,000	6,500-19,000	8,000-25,000
Capacity Heating (Rated) @ 47°F	Btu	9,500	12,000	18,500	24,000
Capacity Heating (Rated) @ 17°F	Btu	9,000	10,800	18,000	15,000
Capacity Heating (Min.-Max.)	Btu	3,600-10,000	3,600-13,000	3,600-19,000	8,000-25,000
Capacity Heating (M1 Calc) @ 5°F	Btu	9,000	10,500	17,500	18,500
Capacity Heating (Min.-Max.) @ -4°F	Btu	TBD	TBD	TBD	TBD
Sensible Heat Ratio		82.9%	72.5%	79%	70%
COP		4.0	3.9	3.7	3.3
HSPF2		11.0	10.0	10.0	9.5
SEER2		22.0	23.0	21.0	22.5
EER2		13.65	12.25	12.95	12.25
ENERGY STAR®		YES	YES	YES	YES
Moisture Removal	Pts/h	1.6	2.2	2.7	4.0
Airflow (High/Med/Low/Quiet)	CFM	424/382/323/247	424/382/323/247	618/565/482/382	735/665/559/441
Sound Rating - Indoor (High/Med/Low/Quiet)	dB-A	42/39/37/35/32	42/39/37/35/32	48/45/41/39/36	50/48/43/41/39
Sound Rating - Outdoor	dB-A	53.0	53.0	58.0	61.0
Operating Range (Heating)	Indoor	°F (45°F - 81°F)	°F (45°F - 81°F)	°F (45°F - 81°F)	°F (45°F - 81°F)
	Outdoor	°F (-13°F - 75°F)	°F (-13°F - 75°F)	°F (-13°F - 75°F)	°F (-13°F - 75°F)
Operating Range (Cooling)	Indoor	°F (70°F - 90°F)	°F (70°F - 90°F)	°F (70°F - 90°F)	°F (70°F - 90°F)
	Outdoor	°F (5°F - 118°F)	°F (5°F - 118°F)	°F (5°F - 118°F)	°F (5°F - 118°F)
Est. Yearly Operating Cost	U.S. \$	\$59	\$88	\$125	\$176
ELECTRICAL DATA					
Power Source	V-Hz-Phase	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1
Min. Ampacity	A	9.5	10.5	20	22
Cooling Watts	W	590	979	1360	1955
Cooling Amps		2.6	4.3	6.1	8.3
Heating Watts	W	690	901	1460	2100
Heating Amps		3.1	4.1	6.5	11.1
Max. TD Fuse/ Breaker	A	15	15	30	35
Power and Communication Cable	No. x AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
Refrigeration System					
Refrigerant		R-454B	R-454B	R-454B	R-454B
Compressor Type		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
Connections		Flared	Flared	Flared	Flared
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
Refrigerant Charge	oz.	35.3	38.1	63.5	70.5
Factory Precharge	ft.	25	25	25	25
Min. / Max. Line Length	ft.	20-3	20-3	30-3	30-3
Max. Height Difference	ft.	15	15	15	15
DIMENSIONS & WEIGHT					
Indoor Unit					
W x H x D	in.	33 7/8 x 11 1/8 x 8 1/2		45 1/8 x 13 1/8 x 10	
Net Weight	lbs.	22	22	34	34
Shipping Weight	lbs.	26	26	39.6	39.6
Outdoor Unit					
W x H x D	in.	31 7/8 x 23 x 11	31 7/8 x 23 x 11	33 7/8 x 25 5/8 x 12 1/4	35 7/16 x 29 1/2 x 13 3/8
Net Weight	lbs.	59.5	72.5	99	123.5
Shipping Weight	lbs.	65	79	108	141
Total Net Weight	lbs.	79.5	92.5	132	156.5
Total Shipping Weight	lbs.	89.25	103.25	146.5	179.5

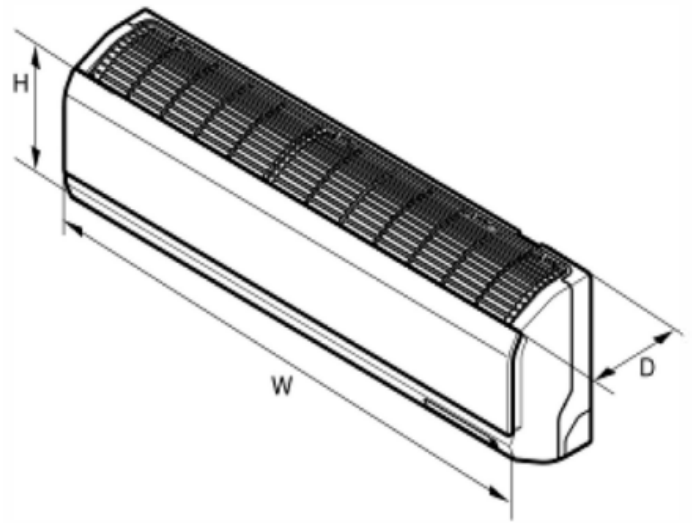
Due to continuing research in new energy-saving technology, specifications are subject to change without notice. Your energy costs will depend on your utility rates and use. The estimated energy cost is based on a electricity cost of \$.13 per kWh. For more information, visit -www.ftc.gov/energy.



**DIMENSIONAL DRAWINGS**

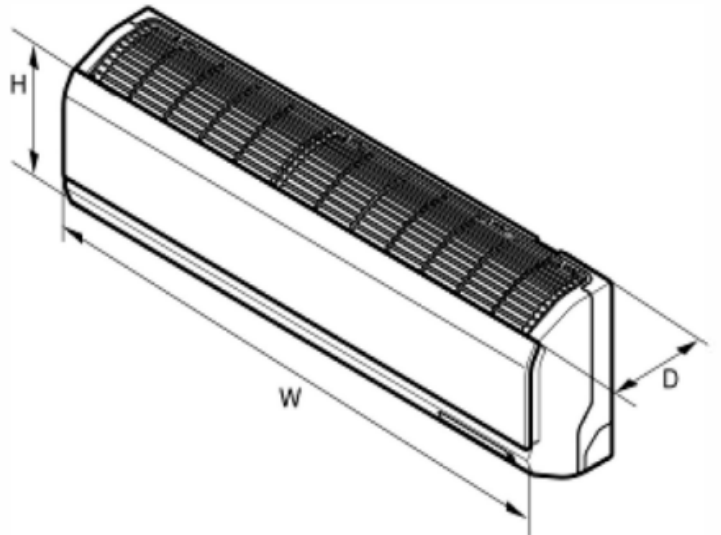
**INDOOR UNIT / FAHFW09A3A**

	W	H	D
FAHFW09A3A	31 7/8"	23"	11"



**INDOOR UNIT / FAHFW12A3A**

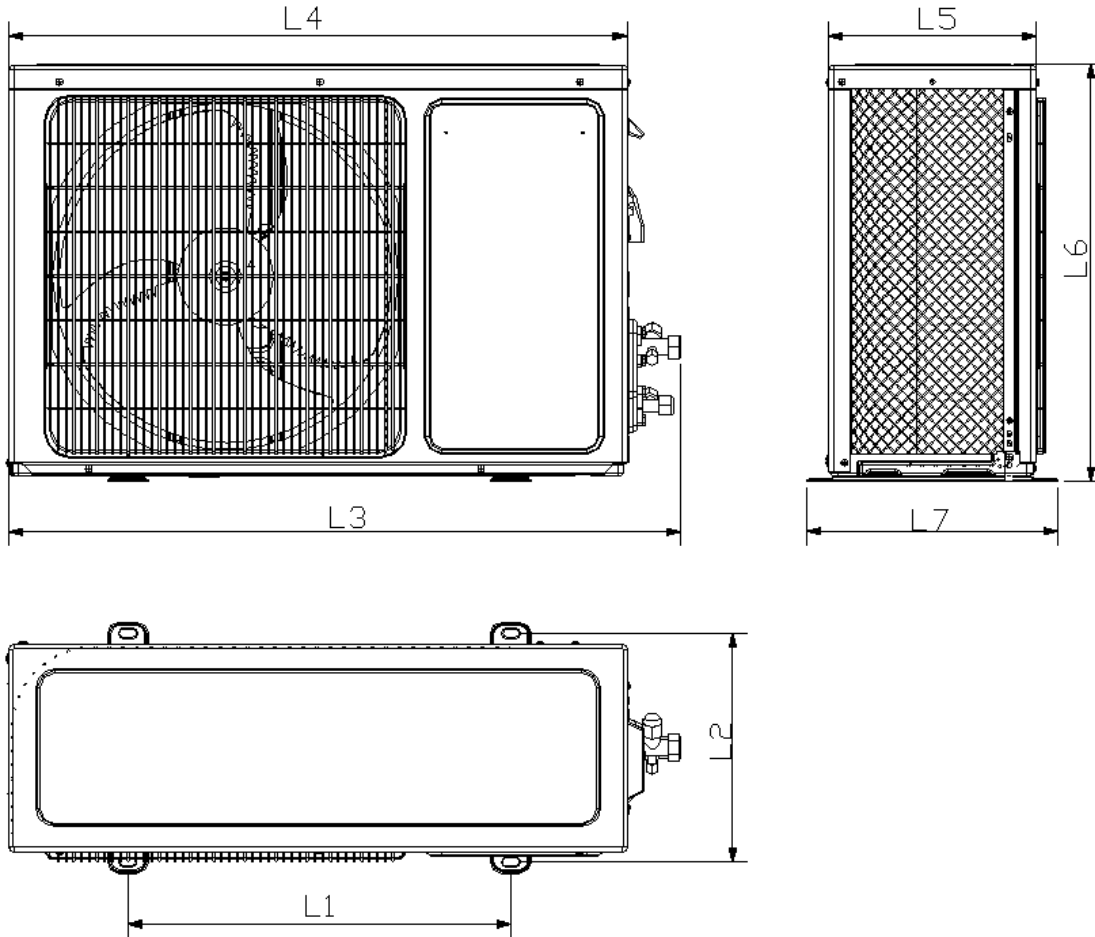
	W	H	D
FAHFW12A3A	31 7/8"	23"	11"



**DIMENSIONAL DRAWINGS**

**OUTDOOR UNITS / FPHSR09A3B, FPSHR12A3B**

**Outdoor units:**



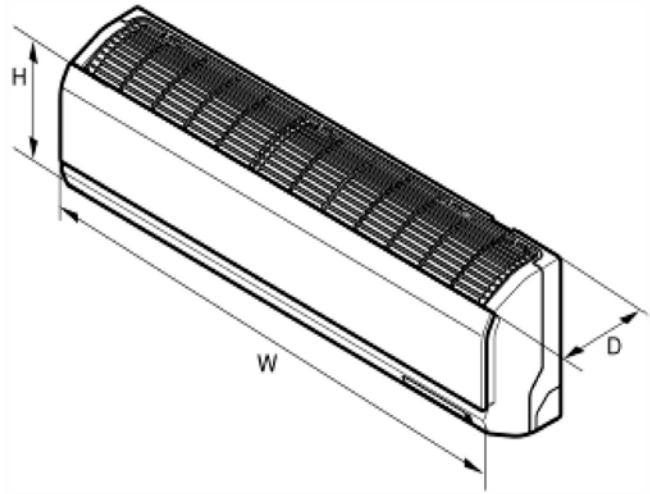
				Width	Depth	Height	
Model	L1 (in.)	L2 (in.)	L3 (in.)	L4 (in.)	L5 (in.)	L6 (in.)	L7 (in.)
FPHSR09A3B	20 1/16	12 19/32	34 7/8	31 7/8	11	23	13
FPSHR12A3B	20 1/16	12 19/32	34 7/8	31 7/8	11	23	13

**DIMENSIONAL DRAWINGS**

**INDOOR UNITS / FAHFW18A3A**

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	W	H	D
FAHFW12A3A	33 7/8"	25 5/8"	12 1/4"

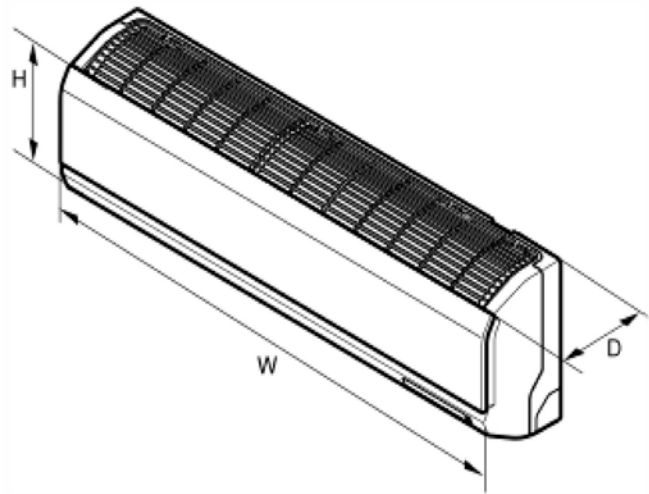


**DIMENSIONAL DRAWINGS**

**INDOOR UNITS / FAHFW24A3A**

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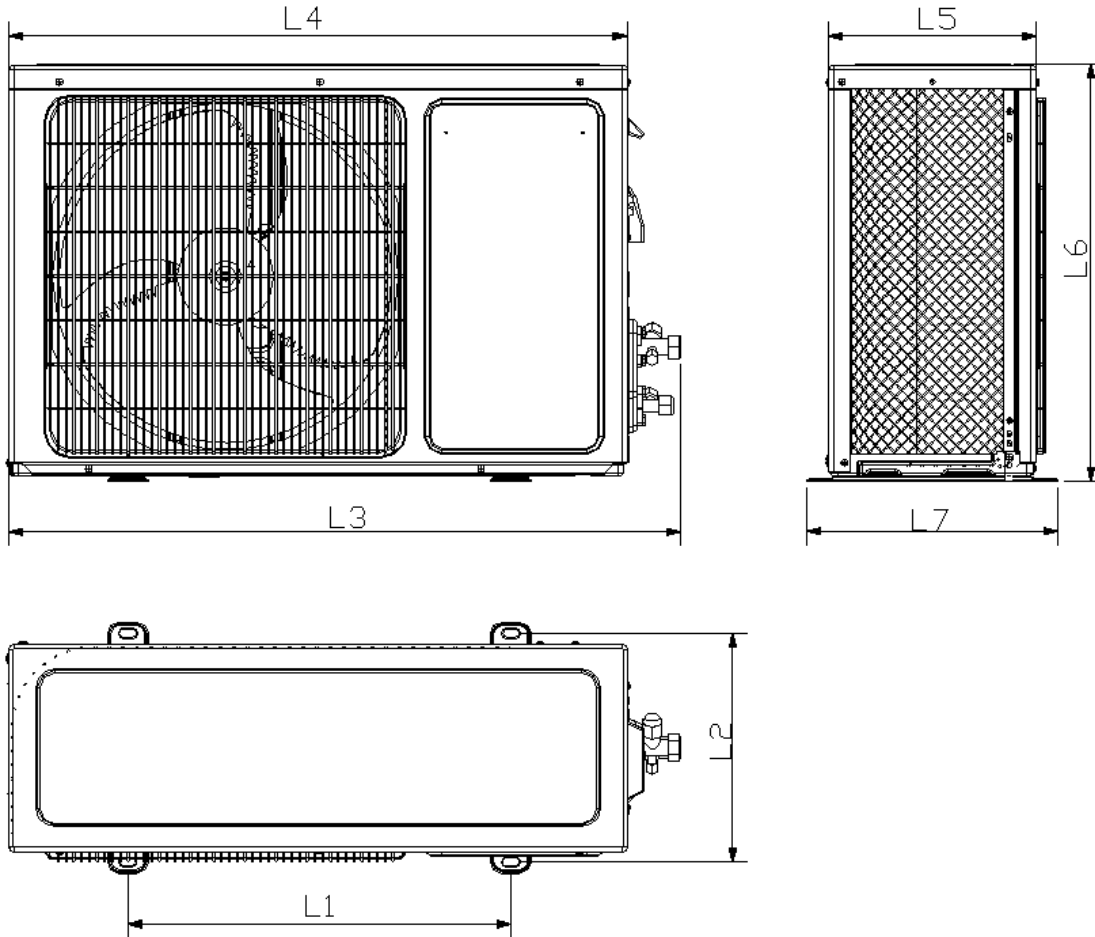
	W	H	D
FAHFW24A3A	35 7/16"	29 1/2"	13 3/8"



**DIMENSIONAL DRAWINGS**

**OUTDOOR UNITS / FPHSR18A3B, FPHSR24A3B**

**Outdoor units:**



				Width	Depth	Height	
Model	L1 (in.)	L2 (in.)	L3 (in.)	L4 (in.)	L5 (in.)	L6 (in.)	L7 (in.)
FPHSR18A3B	21 11/32	12 19/32	34 7/8	33 7/8	12 1/4	25 5/8	13
FPHSR24A3B	26	12 19/32	37 3/4	35 7/16	13 3/8	29 1/2	16 5/16

## ACCESSORIES

### REFRIGERATION LINE SETS\* (Required accessory)

Kit#	Length (ft.)	Liquid	Suction	System Model
T32150	15'	1/4"	3/8"	FPHW093B
T32350	35'	1/4"	3/8"	FPHW123B

\*Insulated line sets are available for all Friedrich split systems in 15 ft. and 35 ft. lengths. Each line set is equipped with flare nuts on both ends. Both liquid and suction lines are insulated. Line sets can be joined together with field supplied double male connectors. Each system requires one line set for each indoor unit installed.

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

Floating Air® Pro			
System Model	Min. (ft.)	Max. (ft.)	
FPHW093B	10	50	
FPHW123B	10	50	

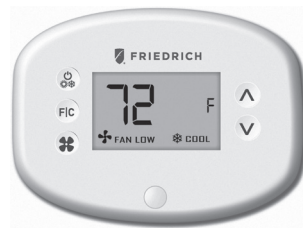
### TORQUE WRENCH SETTINGS

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

### WALL CONTROLLERS



FPWC1



DSSXEMWRT3

**FPWC1**- Optional wired wall controller for Floating Air® Pro, single and multi zone models. Does not work with FAHSW36A3A at this time. Please check with your Friedrich representative for options.

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

## FreshAir® IAQ READY

### Introducing 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.

