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

ITEM	PLAN DESIGNATION	QUANTITY	COOLING BTU/H	VOLTAGE	FRIEDRICH MODEL

FEATURING FastPro® DESIGN

SMART HOME READY

7.2

FRIEDRICH

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)

FRIEDRICH

FPHW093B, FPHW123B

EXTREME TEMPERATURE HEAT PUMP

Low ambient operation down to 5°F (Cooling mode)

Low ambient operation down to -13°F (Heating mode)

Low temperature compressor start-up protection

FreshAire® IAQ READY

DIAMONBLUE™ Advanced Corrosion Protection

PRECISION INVERTER®

Standard
7 YR. PARTS WARRANTY
10 YR. COMPRESSOR WARRANTY

With Registration
10 YR. PARTS WARRANTY
10 YR. COMPRESSOR WARRANTY

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
SPECIFICATIONS					
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 Radio		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
ELECTRICAL DATA					
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
REFRIGERATION SYSTEM					
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
DIMENSIONS & WEIGHT					
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.

| PERFORMANCE RATINGS		SINGLE ZONE - WALL-MOUNTED - HEAT PUMPS		
System Model No.		FPHW183A	FPHW243A	FPHW363B
Indoor Model		FPHFW18A3B	FPHFW24A3B	FPHSW36A3C
Outdoor Model		FPHSR18A3A	FPHSR24A3A	FPHSR36A3B
SPECIFICATIONS				
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
ELECTRICAL DATA				
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
REFRIGERATION SYSTEM				
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
DIMENSIONS & WEIGHT				
Indoor Unit				
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
Outdoor Unit				
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

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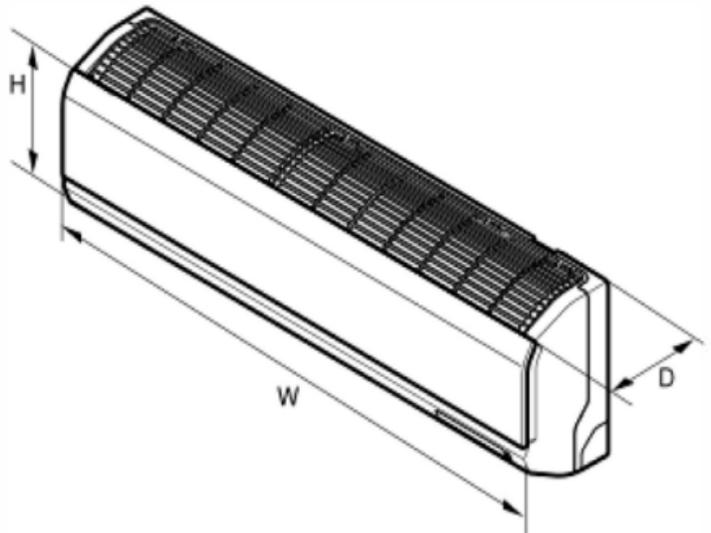
DIMENSIONAL DRAWINGS
INDOOR UNIT / FPHSW09A1B, FPHSW09A3B

	W	H	D
FRHSW09A1B FPHSW09A3B	33 $^7/_8$"	11 $^3/_{16}$"	8 $^1/_2$"
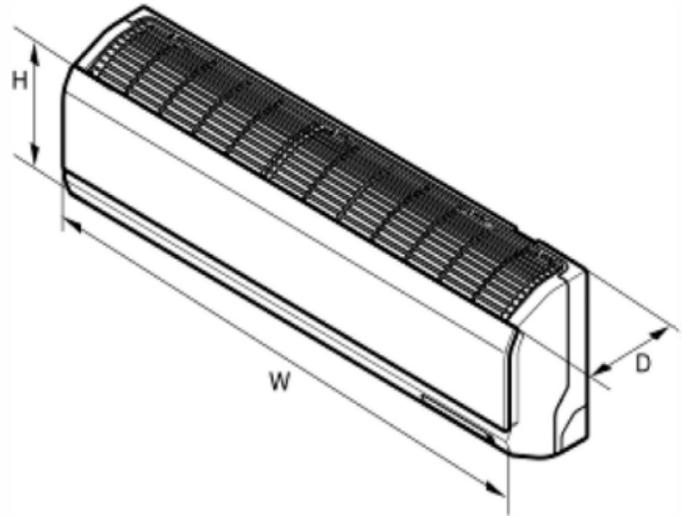
INDOOR UNIT / FPHSW12A1B, FPHSW12A3B

	W	H	D
FRHSW12A1B FPHSW12A3B	33 $^7/_8$"	11 $^3/_{16}$"	8 $^1/_2$"
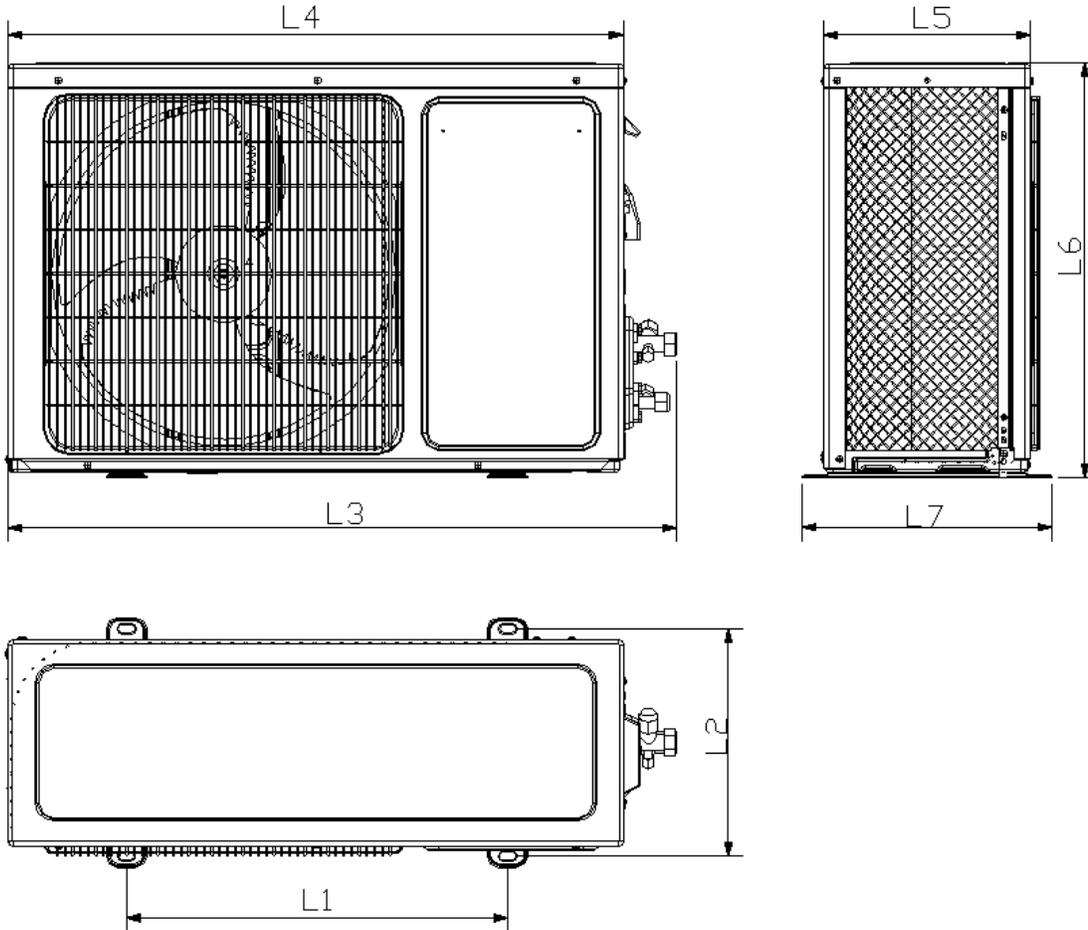
Outdoor units:

Model	L1 (in.)	L2 (in.)	L3 (in.)	Width L4 (in.)	Depth L5 (in.)	Height L6 (in.)	L7 (in.)
FPHSR09A1A	17 7/16	10 3/8	30 9/16	28 1/8	9 7/16	19	11 13/32
FPHSR12A1A	20 1/16	12 19/32	34 7/8	31 7/8	11	23	13

DIMENSIONAL DRAWINGS
INDOOR UNITS / FPHFW18A3B

	W	H	D
FPHFW18A3B	45 1/8"	13 1/8"	10"
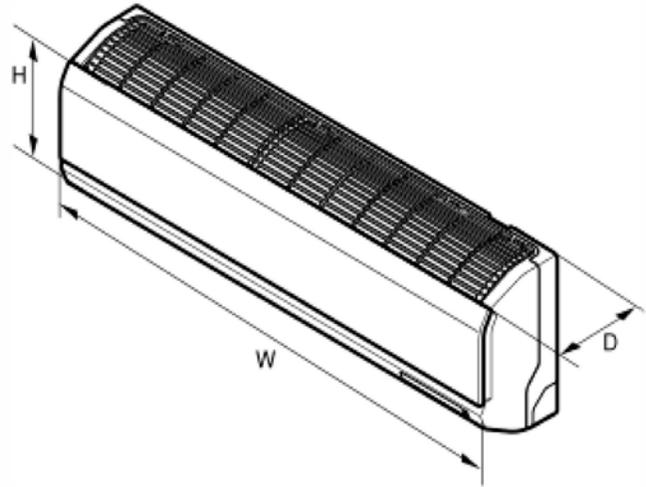
DIMENSIONAL DRAWINGS
INDOOR UNITS / FPHFW24A3B

	W	H	D
FPHFW24A3B	45 1/8"	13 1/8"	10"
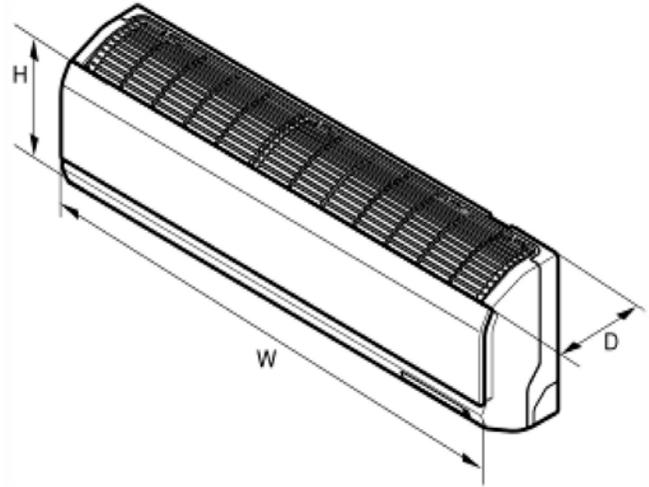
DIMENSIONAL DRAWINGS
INDOOR UNITS / FPHSW36A3B

	W	H	D
FPHSW36A3B	50 5/8"	13 5/8"	10 1/4"
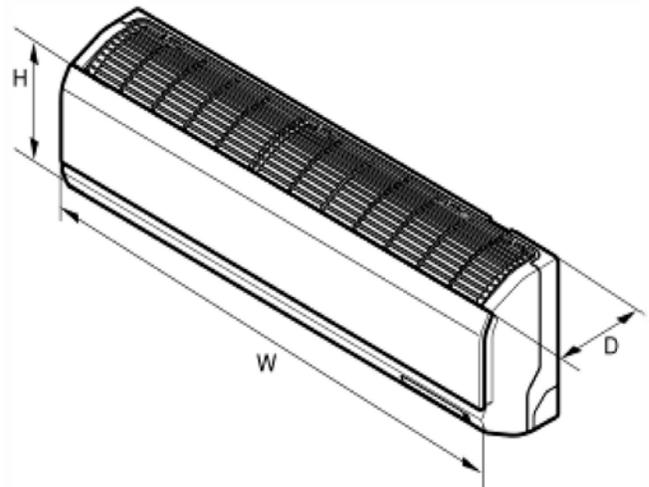
Outdoor units:
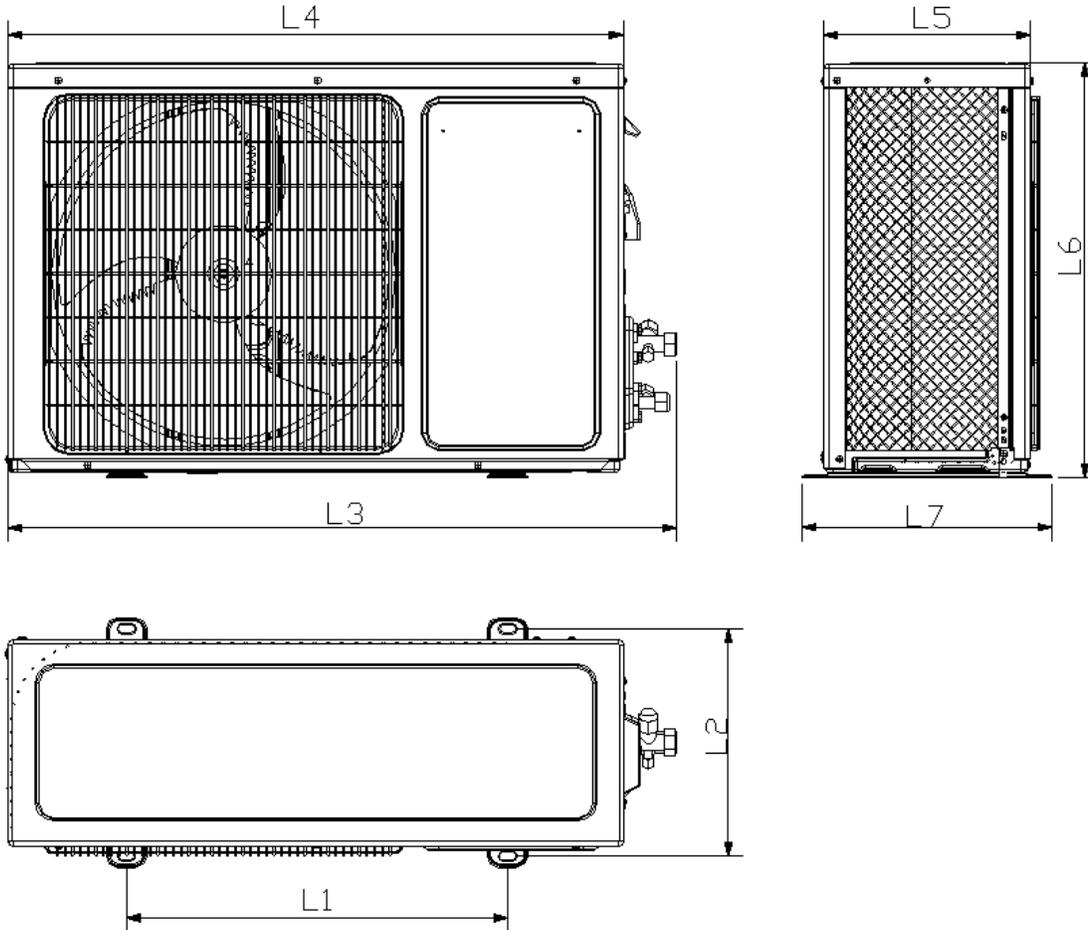
Model	L1 (in.)	L2 (in.)	L3 (in.)	Width L4 (in.)	Depth L5 (in.)	Height L6 (in.)	L7 (in.)
FPHSR18A3A	21 11/32	12 19/32	34 7/8	33 7/8	12 1/8	25 1/2	13
FPHSR24A3A	26	12 19/32	37 3/4	34 7/8	14 3/8	31 1/4	16 5/16
FPHSR36A3A	26	12 19/32	37 3/4	34 7/8	14 3/8	31 1/4	16 5/16

ACCESSORIES

REFRIGERATION LINE SETS* (Required accessory)

Kit#	Length (ft.)	Liquid	Suction	System Model
T32150	15'	1/4"	3/8"	FPHW091A
T32350	35'	1/4"	3/8"	FPHW121A

*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.)
FRHW091A	10	50
FRHW121A	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 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.

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

FreshAire® IAQ READY

Introducing Friedrich FreshAire® IAQ.

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

AIR PURIFICATION

FreshAire® Purifier   APWM1

FreshAire 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 cir culates 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.