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

- Precision Inverter® technology (variable speed compressor)
- Soft start compressor
- BLDC motor
- High efficiency for low 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

OPERATION IN EXTREME CONDITIONS

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

FPHFW18A3B, FPHFW24A3B, FPHSW36A3B

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 and Google Home

Wi-Fi

WIRELESS REMOTE CONTROL

5 YR. PARTS WARRANTY
7 YR. COMPRESSOR WARRANTY
PRECISION INVERTER™

SPECIFICATIONS

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	23400	35000
CAPACITY COOLING MIN - MAX	Btu	6500-19500	8000-26500	12000-38000
CAPACITY HEATING (RATED) @ 47°F	Btu	19000	26000	35000
CAPACITY HEATING (RATED) @ 17°F	Btu	11600	14500	15000
CAPACITY HEATING MIN - MAX	Btu	6500-20000	8000-26500	12000-38000
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	Rotary	Rotary
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

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.
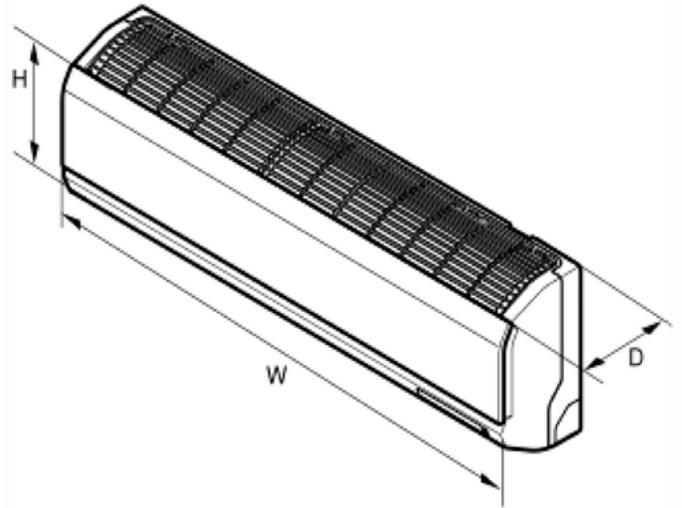For more information, visit -www.ftc.gov/energy.
Due to continuing research in new energy-saving technology, specifications are subject to change without notice.
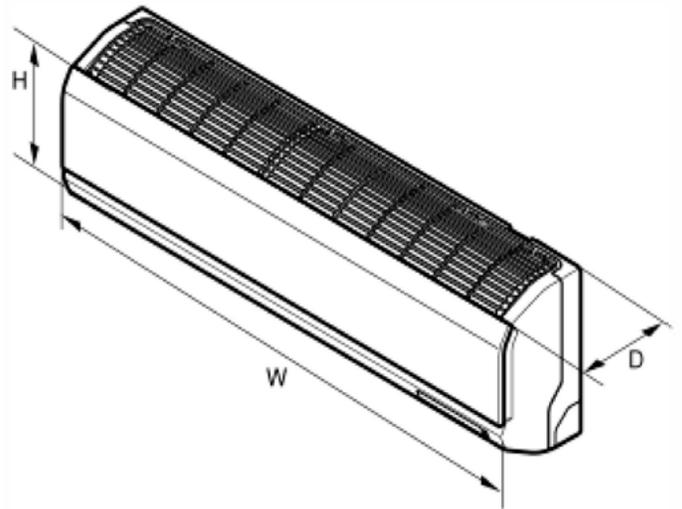
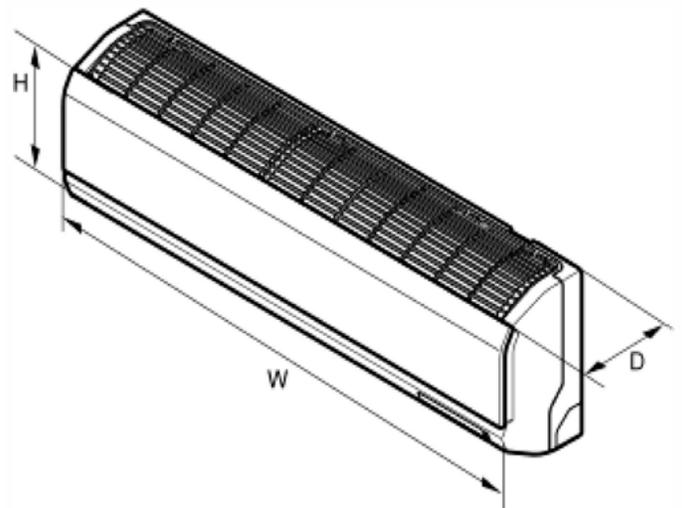## DIMENSIONAL DRAWINGS
INDOOR UNIT / FPHFW18A3B

	W	H	D
FPHFW18A3B	45 1/8"	13 1/8"	10"

INDOOR UNIT / FPHFW24A3B

	W	H	D
FPHFW24A3B	45 1/8"	13 1/8"	10"

INDOOR UNIT / FPHSW36A3B

	W	H	D
FPHSW36A3B	50 5/8"	13 5/8"	10 1/4"

Outdoor units:
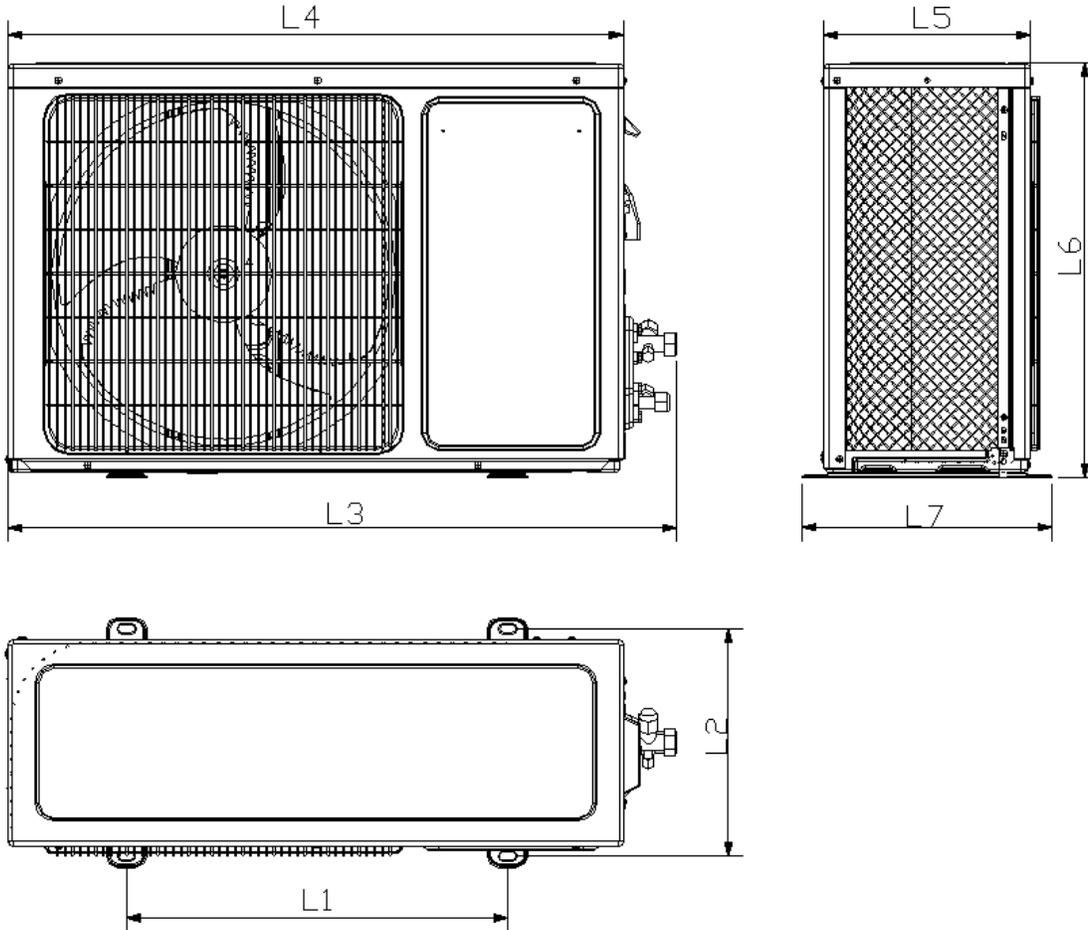
Model	L1 (in.)	L2 (in.)	L3 (in.)	Width L4 (in.)	Depth L5 (in.)	Height L6 (in.)	L7 (in.)
FPHSR18A3A	21 ^{11}/$_{32}$	12 ^{19}/$_{32}$	34 ^{7}/$_{8}$	33 ^{7}/$_{8}$	12 ^{1}/$_{8}$	25 ^{1}/$_{2}$	13
FPHSR24A3A	26	12 ^{19}/$_{32}$	37 ^{3}/$_{4}$	34 ^{7}/$_{8}$	14 ^{3}/$_{8}$	31 ^{1}/$_{4}$	16 ^{5}/$_{16}$
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)

System Model	Lineset Kit	Lineset Kit	Liquid	Suction
FPHW183A	T42150 - 15'	T42250 - 25'	1/4"	1/2"
FPHW243A	T53250 - 25'	T53350 - 35'	3/8"	5/8"
FPHW363B	T53250 - 25'	T53350 - 35'	3/8"	5/8"

*Insulated line sets are available for Friedrich split systems in 15 / 25 / 35 / 50 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.)
FPHW183A	10	66
FPHW243A	10	66
FPHW363A	10	66

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.