

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
- Hidden display (only visible during operation)

OPERATION IN EXTREME CONDITIONS

- Low ambient operation down to 5° F (Cooling mode)
- Low ambient operation down to -4° F (Heating mode)



FPHFW18A3A, FPHFW24A3A, FPHSW36A3A,
 FPHFW18A3B, FPHFW24A3B, FPHSW36A3B

Wi-Fi available on select models for control anytime, anywhere

- Easy to use FriedrichGo™ app
- Control with smartphone
- Compatible with Amazon Alexa and Google Home



WIRELESS
 REMOTE CONTROL



SPECIFICATIONS

PERFORMANCE RATINGS		230/208 volt models		
SYSTEM MODEL NO.		FPHW183 FPHW183A <i>Wi-Fi</i>	FPHW243 FPHW243A <i>Wi-Fi</i>	FPHW363 FPHW363A <i>Wi-Fi</i>
INDOOR MODEL		FPHFW18A3A FPHFW18A3B <i>Wi-Fi</i>	FPHFW24A3A FPHFW24A3B <i>Wi-Fi</i>	FPHSW36A3A FPHSW36A3B <i>Wi-Fi</i>
OUTDOOR MODEL		FPHSR18A3A	FPHSR24A3A	FPHSR36A3A
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
SENSIBLE HEAT RATIO		80%	76%	79%
COP		3.40	3.05	3.05
HSPF		11.6	10.5	8.8
SEER		23.3	21.0	16.4
EER		13	12.5	8.6
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	\$376
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	3/4
REFRIGERANT CHARGE	oz.	54.7	66.3	81.2
FACTORY PRECHARGE	ft.	25	25	25
MIN. / MAX. LINE LENGTH	ft	9.8-66	9.8-66	9.8-66
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 operating costs will depend on your utility rates and use. The estimated operating cost is based on a electricity cost of \$.12 per kWh.

For more information, visit www.ftc.gov/energy.

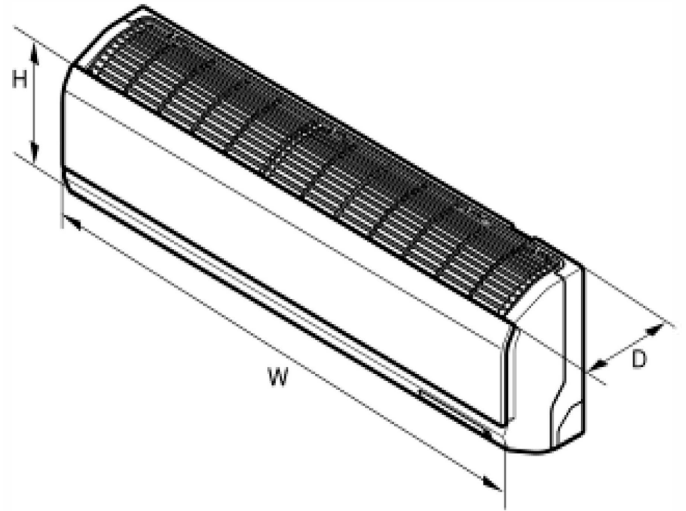
Due to continuing research in new energy-saving technology, specifications are subject to change without notice.



DIMENSIONAL DRAWINGS

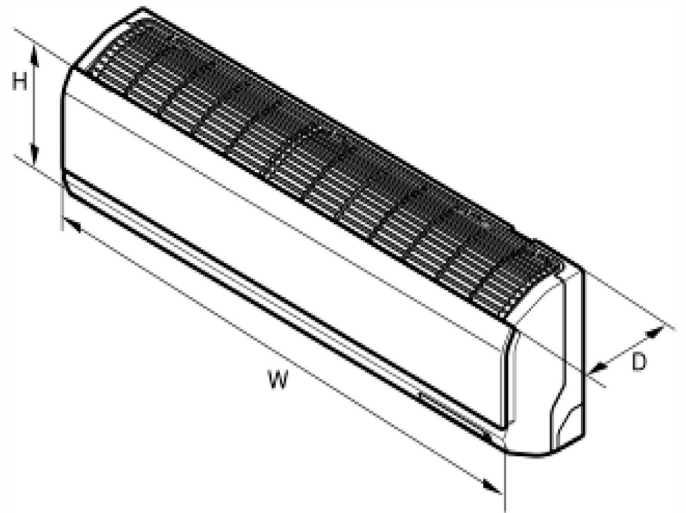
INDOOR UNIT / FPHFW18A3A, FPHFW18A3B

	W	H	D
FPHFW18A3A (B)	45 1/8"	13 1/8"	10"



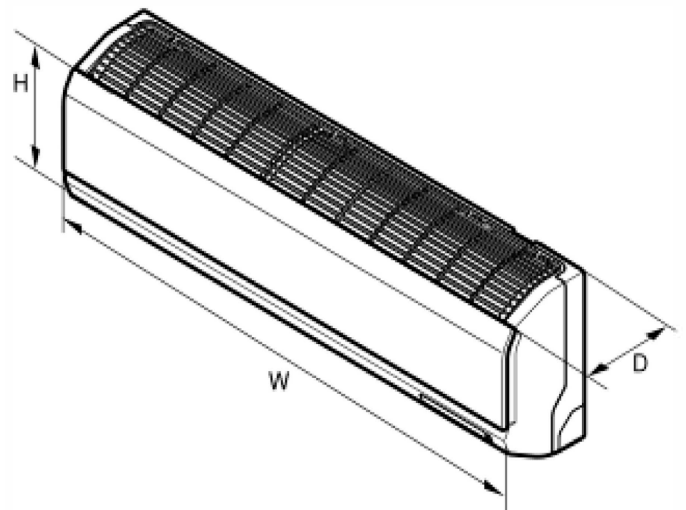
INDOOR UNIT / FPHFW24A3A, FPHFW24A3B

	W	H	D
FPHFW24A3A (B)	45 1/8"	13 1/8"	10"



INDOOR UNIT / FPHSW36A3A, FPHSW36A3B

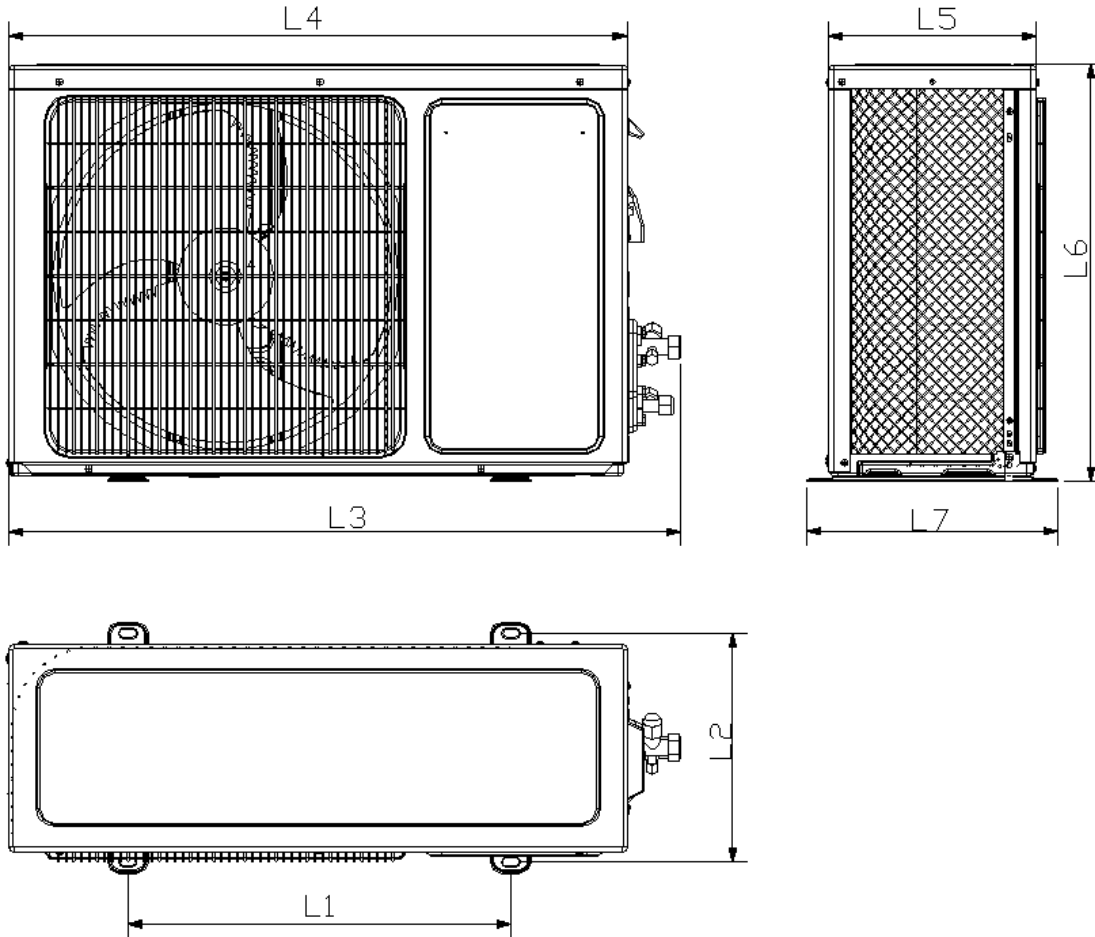
	W	H	D
FPHSW36A3A (B)	50 5/8"	13 5/8"	10 1/4"



DIMENSIONAL DRAWINGS

OUTDOOR UNITS / FPHSR18A3A, FPHSR24A3A, FPHSR36A3A

Outdoor units:



				Width	Depth	Height	
Model	L1 (in.)	L2 (in.)	L3 (in.)	L4 (in.)	L5 (in.)	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
T42150	15'	1/4"	1/2"	FPHW183 (A)
T42350	35'	1/4"	1/2"	
T53150	15'	3/8"	5/8"	FPHW243 (A)
T53350	35'	1/4"	1/2"	
T63150	15'	3/8"	5/8"	FPHW363 (A)
T63350	35'	3/8"	3/4"	

*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.)
FPHW183 (A)	10	66
FPHW243 (A)	10	66
FPHW363 (A)	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 CONTROLLER



FPWC1 Optional wired wall controller