

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

- 230/208 Single Zone Heat Pump
- 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)



FPHFW18A3A, FPHFW24A3A



WIRELESS
REMOTE CONTROL



FPHFR18A3A, FPHFR24A3A

OPERATION IN EXTREME CONDITIONS

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



SPECIFICATIONS

PERFORMANCE RATINGS		230/208 volt models	
SYSTEM MODEL NO.		FPHW183	FPHW243
INDOOR MODEL		FPHFW18A3A	FPHFW24A3A
OUTDOOR MODEL		FPHSR18A3A	FPHSR24A3A
SPECIFICATIONS			
CAPACITY COOLING (RATED)	Btu	18000	23500
CAPACITY COOLING MIN - MAX	Btu	6500-19500	8000-26500
COOLING AMPS		6.3	8.3
HEATING AMPS		7.2	11.1
SENSIBLE HEAT RATIO		80%	76%
CAPACITY HEATING (RATED) @ 47°F	Btu	19000	26000
CAPACITY HEATING MIN - MAX	Btu	6500-20000	8000-26500
CAPACITY HEATING (RATED) @ 17°F	Btu	11600	14500
COP		3.40	3.05
HSPF		11.6	10.5
SEER		23.3	21
EER		13	12.5
MOISTURE REMOVAL	Pts/h	3.2	5.1
AIRFLOW (HIGH/MED/LOW/QUIET)	CFM	618/565/482/382	735/665/559/441
SOUND RATING - INDOOR (HIGH/MED/LOW/QUIET)	dB-A	45/41/37	48/45/40
SOUND RATING - OUTDOOR	dB-A	55	58
OPERATING RANGE (HEATING)	°F	-4° - 75°	-4° - 75°
OPERATING RANGE (COOLING)	°F	5° - 115°	5° - 115°
EST. YEARLY OPERATING COST	U.S. \$	\$102	\$147
ELECTRICAL DATA			
POWER SOURCE	V/Hz/Phase	230V~,208V~,60Hz,1P	230V~,208V~,60Hz,1P
MIN. AMPACITY	A	15	20
COOLING WATTS	W	1385	1880
HEATING WATTS	W	1638	2500
MAX. TD FUSE/BREAKER	A	20	30
POWER AND COMMUNICATION CABLE	No.x AWG	4 x 14AWG	4 x 14AWG
REFRIGERATION SYSTEM			
REFRIGERANT		R410a	R410a
COMPRESSOR TYPE		Rotary	Rotary
CONNECTIONS		Flare	Flare
LIQUID LINE O.D.	in	1/4	3/8
SUCTION LINE O.D.	in	1/2	5/8
REFRIGERANT CHARGE	oz.	54.7	66.3
FACTORY PRECHARGE	ft.	25	25
MIN. / MAX. LINE LENGTH	ft	9.8-66	9.8-66
MAX. HEIGHT DIFFERENCE	ft	33	33
DIMENSIONS & WEIGHT			
INDOOR UNIT			
W x H x D	in	45 3/16 x 13 1/8 x 9 15/16	
NET WEIGHT	lbs	33	33
SHIPPING WEIGHT	lbs	38.5	38.5
OUTDOOR UNIT			
W x H x D	in	33 7/8 x 25 9/16 x 12 3/16	34 7/8 x 31 5/16 x 14 3/8
NET WEIGHT	lbs	99	123.5
SHIPPING WEIGHT	lbs	108	141
TOTAL NET WEIGHT	lbs	132	156.5
TOTAL SHIPPING WEIGHT	lbs	146.5	179.5

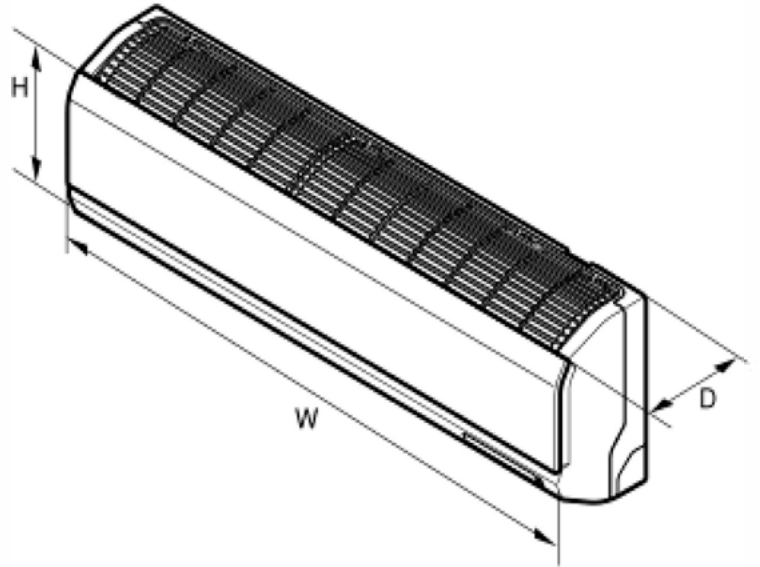
Your operating costs will depend on your utility rates and use. The estimated operating cost is based on a electricity cost of \$.12 per kWh. For more information, visit www.ftc.gov/energy.

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



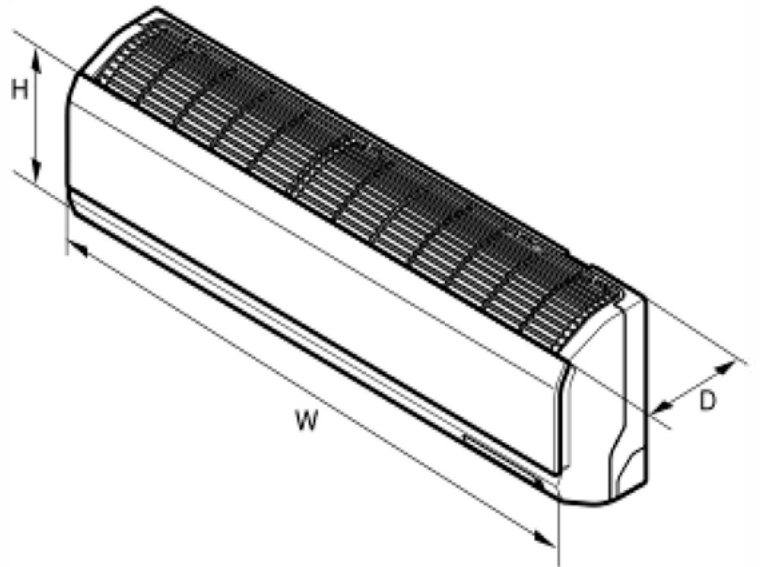
DIMENSIONAL DRAWINGS
INDOOR UNIT / FPHFW18A3A

	W	H	D
FPHFW18A3A	45 3/16"	13 1/8"	9 15/16"



INDOOR UNIT / FPHFW24A3A

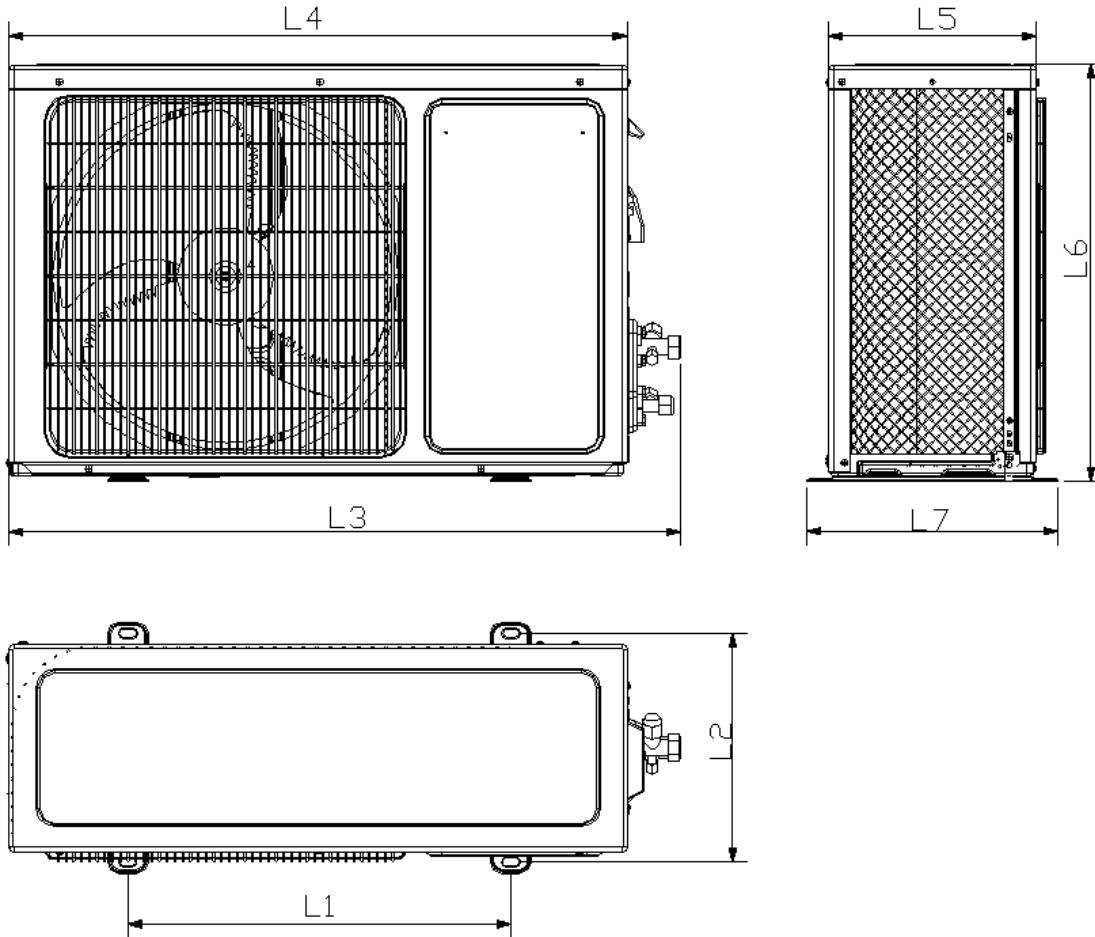
	W	H	D
FPHFW24A3A	45 3/16"	13 1/8"	9 15/16"



DIMENSIONAL DRAWINGS

OUTDOOR UNITS / FPHSR18A3A, FPHSR24A3A

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 3/16	25 9/16	13
FPHSR24A3A	26	12 19/32	37 3/4	34 7/8	14 3/8	31 5/16	16 5/16

ACCESSORIES

REFRIGERATION LINE SETS* (Required accessory)

Kit#	Length (ft.)	Liquid	Suction	System Model
T42150	15'	1/4"	1/2"	FPHW183
T42350	35'	1/4"	1/2"	
T52350	35'	3/8"	5/8"	FPHW243

*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	10	66
FPHW243	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