



Friedrich Floating Air® Pro Series Wall-mounted Ductless Heat Pumps



HEAT PUMPS

115 volt- 9,000 and 12,000 Btu COOLING
9,500 and 13,000 Btu HEATING

EFFICIENCY: SEERs up to 22.0

230 volt- 9,000 to 35,000 Btu COOLING
9,500 to 35,000 Btu HEATING

EFFICIENCY: SEERs up to 22.5

FEATURES

- Easy to use *FriedrichGo™* app
- Create customizable, 7-day schedules
- Control with smartphone
- Compatible with Amazon Alexa and Google Home
- *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
- Our highest efficiencies for the lowest 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)
- Low ambient operation down to 0°F (Cooling mode)
- Low ambient operation down to -13°F (Heating mode)
- Low temperature compressor start-up protection



SPECIFICATIONS

PERFORMANCE RATINGS		115 volt models		230/208 volt models	
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
SENSIBLE HEAT RATIO		76%	77%	76%	77%
COP		3.56	3.46	3.88	3.42
HSPF		10.0	10.5	10.7	10.5
HSPF2		8.5	9.0	8.5	9.0
SEER		19.5	22.0	22.5	22.0
SEER2		18.5	21.7	22.0	21.0
EER		12.8	13.0	13.7	13.0
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	Rotary	Rotary	Rotary
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.	9.8-50	9.8-50	9.8-50	9.8-50
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

SPECIFICATIONS

PERFORMANCE RATINGS		230/208 volt models		
SYSTEM MODEL NO.		FPHW183A	FPHW243A	FPHW363B
INDOOR MODEL		FPHFW18A3B	FPHFW24A3B	FPHSW36A3C
OUTDOOR MODEL		FPHSR18A3A	FPHSR24A3A	FPHSR36A3B
SPECIFICATIONS				
CAPACITY COOLING (RATED)	Btu	18000	23500	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		11.6	10.5	8.8
HSPF2		8.6	8.6	7.5
SEER		23.3	21.0	16.4
SEER2		22.5	20.5	16.5
EER		13.0	12.5	8.33
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

ACCESSORIES

REFRIGERATION LINE SETS (REQUIRED)

OUTSIDE DIMENSIONS

Floating Air® Pro Wall-mounted				
SYSTEM MODEL	Liquid	Suction	15' Lineset Kit	35' Lineset Kit
FPHW091A	1/4	3/8	T32150	T32350
FPHW121A	1/4	3/8	T32150	T32350
FPHW093A	1/4	3/8	T32150	T32350
PFHW123A	1/4	3/8	T32150	T32350
FPHW183A	1/4	1/2	T42150	T42350
FPHW243A	3/8	5/8	T53150	T53350
FPHW363B	3/8	5/8	T53150	T53350

REFRIGERATION LINE SETS

MIN./MAX. LENGTHS

Floating Air® Pro Wall-mounted		
SYSTEM MODEL	Min. (ft.)	Max. Each/Total (ft.)
FPHW091A	10	50
FPHW121A	10	50
FPHW093A	10	50
PFHW123A	10	50
FPHW183A	10	66
FPHW243A	10	66
FPHW363B	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

(OPTIONAL)



FPWC1



DSSXEMWRT3

FPWC1 Optional wired wall controller for Floating Air® Pro, single and multi zone models. Does not work with FPHSW36A3B 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.

EMOCT- Online connection kit

EMRAF- Remote access fee

EMROS- Remote occupancy sensor

EMRTS- Remote Temperature sensor

EMRDS- Door switch

EMCWP- Wall plate

EMRWOS- Wireless occupancy sensor



Friedrich Air Conditioning Co. | www.friedrich.com