

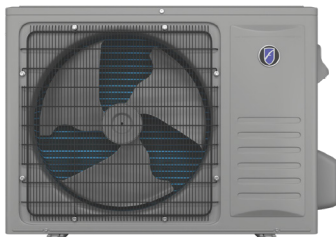
PURCHASER	P.O. #	DATE
PROJECT	LOCATION	
ENGINEER	ARCHITECT	
SUBMITTED BY	FOR APPROVAL	FOR REFERENCE

ITEM	PLAN DESIGNATION	QUANTITY	COOLING BTU/H	VOLTAGE	FRIEDRICH MODEL

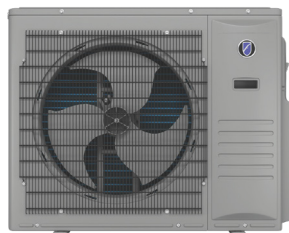
Key Features

- **Fast Pro®** design for the fastest access for maintenance of any wall-mounted ductless systems
- **Precision Inverter®** technology (variable speed compressor)
- Soft-Start™ compressor
- BLDC motor
- Built-in Wi-Fi on indoor models
- Sleep mode
- All ENERGY STAR® certified models
- All ENERGY STAR® Cold-Climate Heat Pump certified models
- Easy-to-read temperature display
- Extreme cold climate heat pump performance: 100% of rated capacity at 5°F*
- Extreme low ambient heat pump operation (FPHMR42A3D only)
- Wireless remote

 indicates sustainability feature



FPHMR18A3D



FPHMR27A3D, FPHMR36A3D,
FPHMR42A3D

ProX EXTREME TEMPERATURE HEAT PUMP

- Low ambient heat pump operation down to -13°F
- Low ambient cooling operation down to 5°F
- Low temperature compressor start-up protection

FEATURING **FastPro®** DESIGN



FPHSR09A3D, FPHSR12A3D, FPHSR18A3D,
FPHSR24A3D



FLOATING AIR™ PRO X | MULTI-ZONE | WALL-MOUNTED HEAT PUMPS

OUTDOOR MODEL	Outdoor Model		FPHMR18A3D	FPHMR27A3D	FPHMR36A3D	FPHMR42A3D
	Power Supply	V/Hz/ph	208V/230V~,60Hz,1P			
	ENERGY STAR® Standard	Y/N	Y	Y	Y	Y
	ENERGY STAR – Cold Climate	Y/N	Y	Y	Y	Y
COOLING	Rated Capacity @ 95°F	Btu/h	18,000	27,000	36,000	42,000
	Cooling Capacity Range (Min.–Max.)	Btu/h	9,000-22,000	9,000-31,000	9,000-46,800	9,000-54,600
	EER2 @ 95°F	Btu/h/W	13.30	12.85	12.85	12.00
	SEER2	Btu/h/W	22.00	23.00	22.00	22.00
	Cooling Operating Range	°F	5°F–125°F	5°F–125°F	5°F–125°F	5°F–125°F
HEATING	Rated Capacity @ 47°F	Btu/h	18,000	27,000	36,000	48,000
	Heating Capacity Range (Min.–Max.)	Btu/h	9,000-30,000	9,000-44,000	9,000-54,000	9,000-58,000
	COP @ 47°F	W/W	3.82	3.60	3.91	3.60
	COP @ 5°F	W/W	1.99	1.82	1.92	1.92
	HSPF2	Btu/h/W	10.00	10.00	10.00	9.50
	Rated Capacity Heating @ 17°F (-8.3°C)	Btu/h	11,500	17,600	22,600	28,200
	Maximum Heating Capacity @ 5°F (-15°C)	Btu/h	18,000	27,000	36,000	36,000
	Maximum Heating Capacity @ -13°F (-25°C)	Btu/h	13,356	19,177	26,175	27,216
	Heating Operating Range	°F	-13°F–75°F	-13°F–75°F	-13°F–75°F	-13°F–75°F
AIRFLOW	Air Circulation (High) for Outdoor	ft³ CFM	1,850	3,357	3,357	3,357
	Sound Rating - Outdoor	dB(A)	55.0	62.0	64.0	64.0
FAN MOTOR	Output	W	60	220	220	220
	Speed (High)	r/min	880	850	830	830
ELECTRICAL	Rated Current	Cooling (A)	6.25	9.30	12.80	15.50
		Cooling (W)	1,350	2,100	2,802	3,500
		Heating (A)	6.40	10.00	12.50	18.00
		Heating (W)	1,380	2,200	2,700	3,910
	MOP (Rating of Overcurrent Protective Device)	A	30	40	50	60
	MCA (Minimum Circuit Ampacity)	A	21	25	32	36
	Communication Wire Size and Type		4 x 14 AWG	4 x 14 AWG	4 x 14 AWG	4 x 14 AWG
REFRIGERATION (R454B)	Moisture Removal	pints/hr	2.4	3.0	4.3	4.4
	Refrigerant Charge Volume	oz.	51.1	76.2	105.8	105.8
	Liquid Pipe	in.	1/4	1/4	1/4	1/4
	Gas Pipe	in.	3/8	3/8	3/8	3/8
	Max. Pipe Length (Total)	ft.	164	230	230	262
	Max. Elevation (Indoor Units Higher Than Outdoor Unit)	ft.	49	49	49	49
	Pre-charge Pipe Length	ft.	50	75	100	125
	Additional Refrigerant Charge per Foot after 25 ft.	oz./ft.	0.16	0.16	0.16	0.16
DIMENSIONS & WEIGHTS	Dimension (W×H×D)	in.	33-7/8×26-3/8×12-1/4	38-3/8×32-7/8×14-1/8	38-3/8×32-7/8×14-1/8	38-3/8×32-7/8×14-1/8
		mm	860×670×310	975×835×360	975×835×360	975×835×360
	Packing (W×H×D)	in.	39×28-3/4×17-3/4	43-3/4×37-3/4×18-1/8	43-3/4×37-3/4×18-1/8	43-3/4×37-3/4×18-1/8
		mm	990×730×450	1,111×959×460	1,111×959×460	1,111×959×460
	Net Weight	lbs.	46	73	77	78
		kg	20	33	35	35
	Shipping Weight	lbs.	112	183	191	194
		kg	51	83	87	88

*Efficiency data shown based on non-ducted indoor application



FLOATING AIR™ PRO X | MULTI-ZONE | WALL-MOUNTED HEAT PUMPS

MODEL	Indoor Model	Unit	FAHMW07A3D	FAHFW09A3D	FAHFW12A3D	FAHFW18A3D	FAHFW24A3D
	Power Supply	V/Hz/ph	208V/230V~,60Hz,1P				
COOLING	Rated Capacity @ 95°F	Btu/h	7,000	9,000	12,000	18,000	24,000
	Cooling Capacity Range (Min.-Max.)	Btu/h	3,600-10,000	3,600-10,000	4,000-13,000	6,500-19,000	8,000-25,000
HEATING	Rated Capacity @ 47°F	Btu/h	7,000	9,000	12,000	18,000	24,000
	Heating Capacity Range (Min.-Max.)	Btu/h	3,600-10,000	3,600-10,000	4,000-13,000	6,500-19,000	8,000-25,000
AIRFLOW	Air Circulation (Max./H/M/L)	ft³ CFM	382/341/294/247	382/341/294/247	394/365/312/253	647/588/482/382	706/647/559/441
	Sound Rating - Indoor (Max./H/M/L/ Quiet)	dB(A)	42/39/37/35/32	42/39/37/35/32	42/39/37/35/32	48/45/41/39/36	50/48/43/41/39
FAN MOTOR	Output	W	25	25	25	35	35
	Speed (High/Med/Low)	r/min	1,101/938/800	1,101/938/800	1,154/992/800	1,100/960/800	1,200/1,040/880
REFRIGERATION	Moisture Removal	pints/hr	1.9	1.9	2.5	3.2	4.7
	Connection		Flare	Flare	Flare	Flare	Flare
DIMENSIONS & WEIGHTS	Dimension (W×H×D)	in.	33-7/8×11-1/4×8-1/2	33-7/8×11-1/4×8-1/2	33-7/8×11-1/4×8-1/2	45-2/8×13-1/4×10-1/8	45-2/8×13-2/8×10-1/8
		mm	860×285×216	860×285×216	860×285×216	1,148×336×256	1,148×336×256
	Packing (W×H×D)	in.	36-9/16×15×11-3/16	36-5/8×11-2/8×15	36-5/8×11-2/8×15	47-7/8×13×16-1/8	56-1/8×18-1/8×15-4/8
		mm	930×380×285	930×285×380	930×285×380	1,215×330×410	1,425×395×460
	Net Weight	lbs.	22.1	22	22	34	34
		kg	10.0	10	10	16	16
	Shipping Weight	lbs.	26.5	26	26	40	40
		kg	12.0	12	12	18	18

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Indoor Sound, A.C. and Outdoor Sound (SPL)

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Indoor Sound, A.C. and Outdoor Sound (SPL)

ETL

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7YR.

PARTS WARRANTY

10YR.

COMPRESSOR WARRANTY

10YR.

PARTS WARRANTY

10YR.

COMPRESSOR WARRANTY

Standard

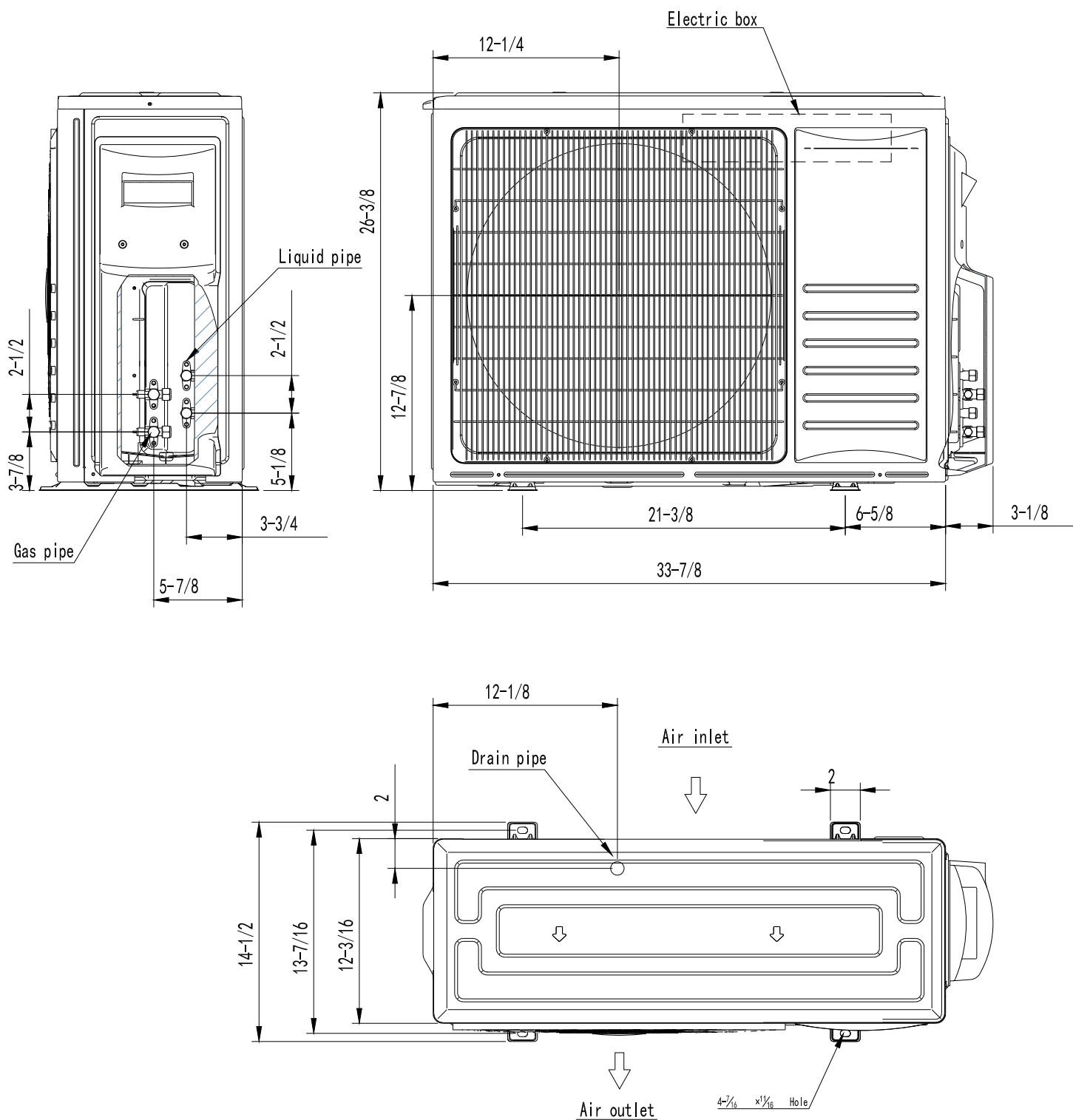
With Registration

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DIMENSIONAL DRAWINGS

OUTDOOR UNITS / FPHMR18A3D

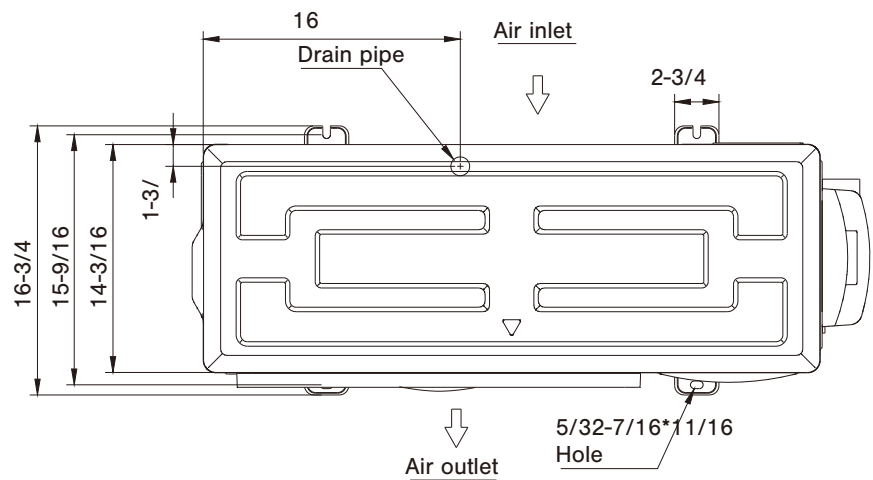
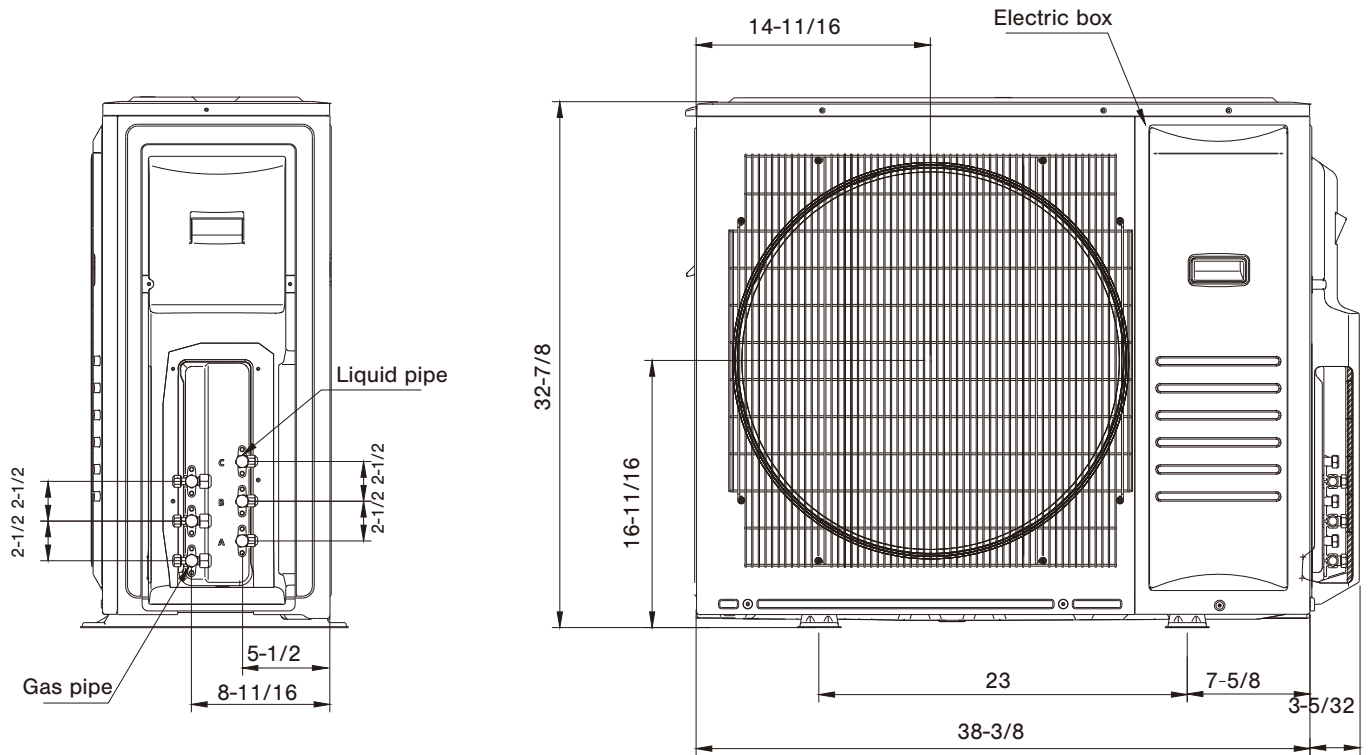
UNITS: INCHES (MM)



DIMENSIONAL DRAWINGS

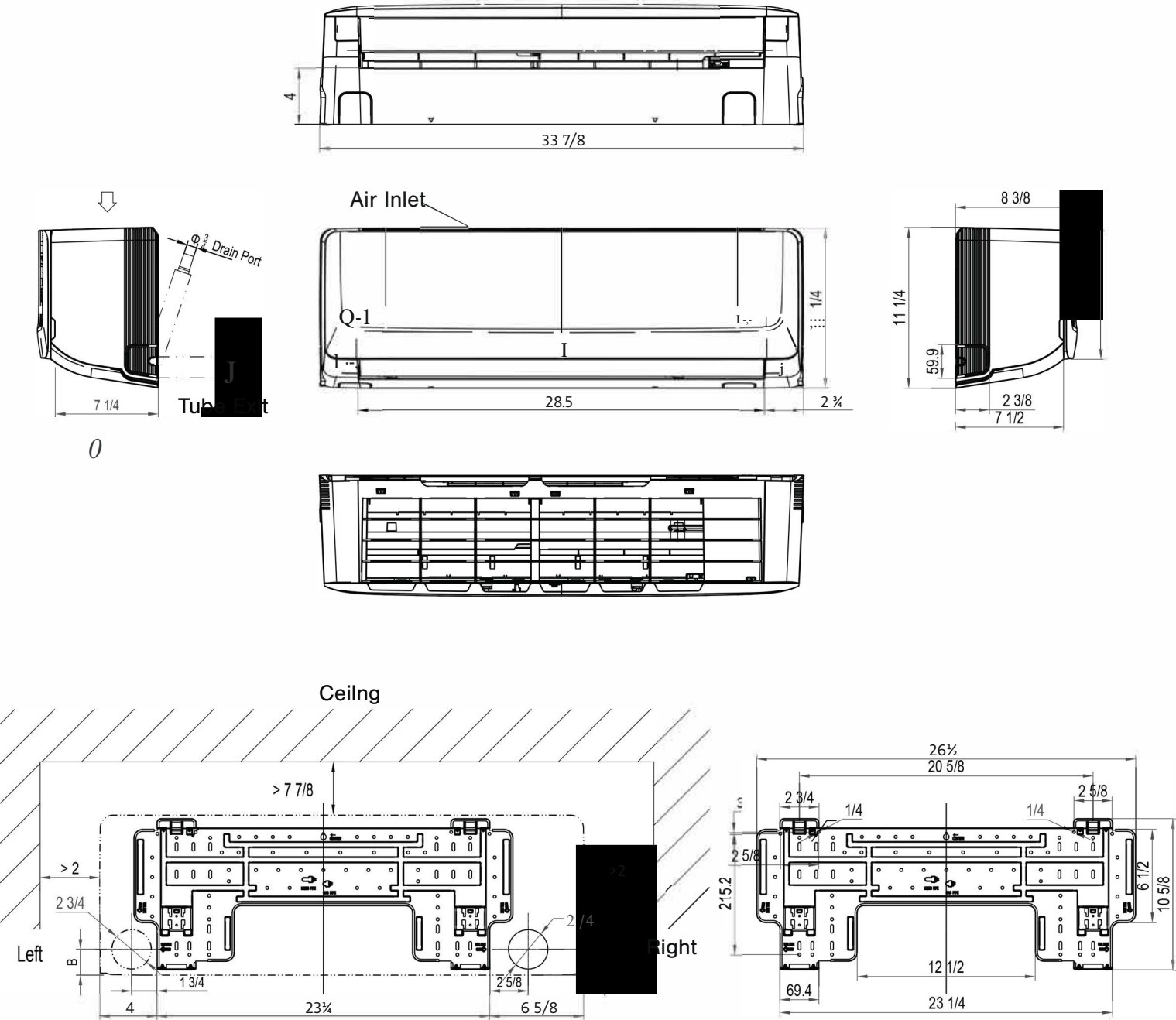
OUTDOOR UNITS / FPHMR27A3D, FPHMR36A3D, FPHMR42A3D

UNITS: INCHES



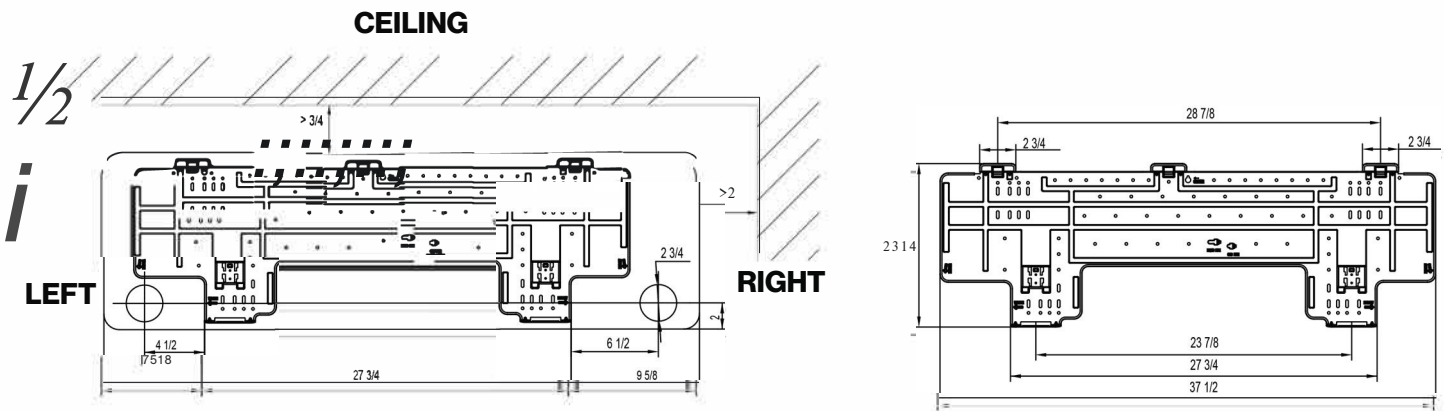
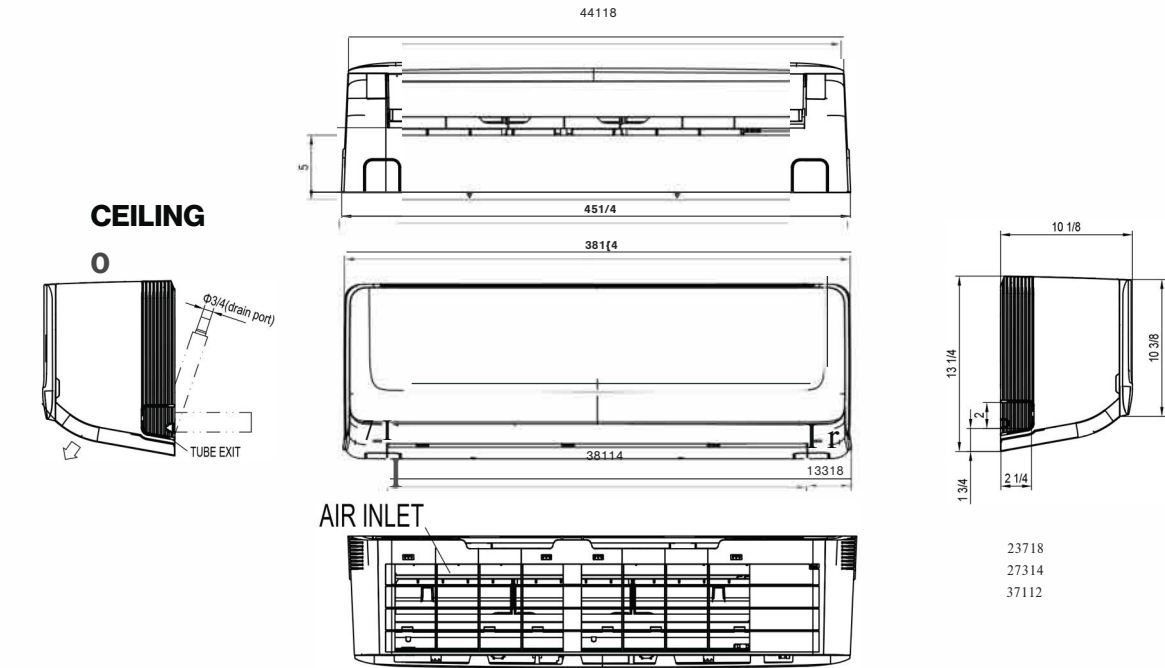
DIMENSIONAL DRAWINGS
INDOOR UNITS / FAHMW07A3D, FAHFW09A3D, FAHFW12A3D

ALL DIMENSIONS GIVEN IN INCHES(″)



DIMENSIONAL DRAWINGS
INDOOR UNITS / FAHFW18A3D, FAHFW24A3D

ALL DIMENSIONS GIVEN IN INCHES(“)



Select a combination of indoor units that does not exceed the maximum connected capacity, and is within the recommended parameters:

FPHMR18A3A
24,000 Btu MAX.
CONNECTED CAPACITY
DUAL ZONE ONLY

FOR (2) ZONES:
MINIMUM combination must
be 50% of nameplate capacity

Combinations SHOULD NOT:
Exceed the maximum
allowable total indoor unit
connected capacity of
24,000 Btu.

FPHMR24A3A
36,000 Btu MAX.
CONNECTED CAPACITY
TRI-ZONE MAX.

FOR (2) ZONES:
MINIMUM combination must be
50% of nameplate capacity

FOR (3) ZONES:
Select any combination of (3)
indoor units.

Combinations SHOULD NOT:
Exceed the maximum allowable
total indoor unit connected
capacity of
36,000 Btu.

FPHMR36A3A
48,000 Btu MAX. CONNECTED
CAPACITY
DUAL/TRI-ZONE/FOUR ZONE.

FOR (2) ZONES:
Select two (2) 18,000 Btu indoor
units

FOR (3) ZONES:
Select any combination of (3)
indoor units with no more than
(2) 18,000 Btu indoor units pl
(1) other indoor un

FOR (4) ZONES:
Select any combination of (4)
inindoor units.

Combinations SHOULD NOT:
Exceed the maximum allowable
total indoor unit connected

FPHMR42A3A 54,000 Btu
MAX. CONNECTED CAPACITY
TRI-ZONE/FOUR/FIVE ZONE
WITH NO BRANCH BOXES

FOR (3) ZONES:
Select any combination of (3)
indoor units with no more than
(2) 18,000 Btu indoor units pl
(1) other indoor un

FOR (4) ZONES:
Select any combination of (4)
inindoor units.

FOR (5) ZONES:
Select any combination of (5)
inindoor units.

Combinations SHOULD NOT:
Exceed the maximum allowable
total indoor unit connected

MULTI ZONE CONFIGURATION, AHRI RATINGS

Friedrich Model	AHRI Reference Number	Indoor Type	System Cooling 95 °F Capacity	EER2	SEER2	High Heat 47 °F	HSPF/ HSPF2	Low Heat 17°F	Low Heat 5°F	COP 5°F	Maximum Heating Capacity 5F (-15)	Maximum Heating Capacity -13F (-25)
FPHMR18A3D	215792836	Non-Ducted Indoor Units	18000	13.3	22	18000	10	11500	18000	1.99	18000	13356
	215792837	Ducted Indoor Units	18000	12	17.5	18000	9.4	11900	17000	1.96	18000	13356
	215792838	Mixed Ducted and Non-Ducted Indoor Units	18000	12.65	19.75	18000	9.7	11700	17400	1.96	18000	13356
FPHMR27A3D	215792839	Non-Ducted Indoor Units	27000	12.85	23	27000	10	17600	27000	1.82	27000	19177
	215792840	Ducted Indoor Units	27000	11.5	18	27000	8.8	18200	26400	1.84	27000	19177
	215792841	Mixed Ducted and Non-Ducted Indoor Units	27000	12.2	20.5	27000	9.4	18000	26600	1.82	27000	19177
FPHMR36A3D	215792846	Non-Ducted Indoor Units	36000	12.85	22	36000	10	22600	36000	1.92	36000	26175
	215792845	Ducted Indoor Units	36000	12.85	19	36000	9	21000	32400	1.83	36000	26175
	215792847	Mixed Ducted and Non-Ducted Indoor Units	36000	12.85	20.5	36000	9.5	21800	34200	1.87	36000	26175
FPHMR42A3D	215792843	Non-Ducted Indoor Units	42000	12	22	48000	9.5	28200	36000	1.92	36000	27216
	215792842	Ducted Indoor Units	42000	11.35	18	45000	8.8	27400	34000	1.83	36000	27216
	215792844	Mixed Ducted and Non-Ducted Indoor Units	42000	11.8	20	46500	9.15	27800	35000	1.87	36000	27216

REFRIGERATION LINE SETS*

Kit#	Length (ft.)	Liquid	Suction	System Model
T32150	15'	1/4"	3/8"	FPHMR18A3D, FPHMR27A3D, FPHMR36A3D, FPHMR42A3D
T32350	35'	1/4"	3/8"	

*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

System Model	Min. (ft.)	Max. Each/Total(ft.)
FPHMR18A3D	25	82/164
FPHMR27A3D	25	66/230
FPHMR36A3D	25	66/230
FPHMR42A3D	25	66/262

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

ACCESSORIES



FPWC1 - Optional wired wall controller for Floating Air Pro, single- and multi-zone models. Please check with your Friedrich representative for options.



DSSXEMWRTA4 -  Optional wireless energy management thermostat with occupancy sensor. For Floating Air Pro, single- and multi-zone models.



ADS01 -  Optional A2L sensor for Floating Air FAHMM07A3D, FAHFW12A3D FAHFW12A3D 230v indoor wall-mounted. See Installation and Operational Manual for additional information and requirements.



APWM1 - Optional FreshAir 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.