

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
- Built-in Wi-Fi
 - Ultra quiet operation
 - Sleep mode
 - BLDC motor
 - ENERGY STAR® certified models*
- Easy-to-read temperature display
- Wireless remote
- Efficiencies of up to 21.0 SEER2
- Low ambient cooling operation down to 5°F



indicates sustainability feature



FEATURING **FastPro®** DESIGN



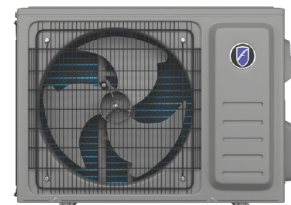
115V: FAHSW09A1C, FAHSW12A1C
230V: FAHFW18A3D, FAHFW24A3D



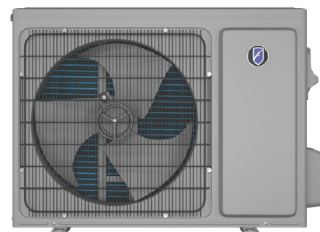
230V: FAHSW36A3D

Built-in Wi-Fi for control anytime, anywhere

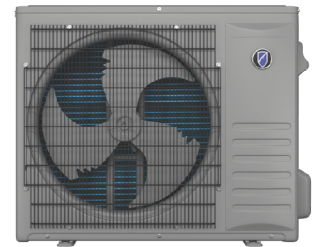
- Easy to use **ComfortPro** Mobile app
- Create customizable, 7-day schedules
- Control with smartphone
- Compatible with Amazon Alexa or Google Home



FSHSR09B1C, FSHSR12B1C



FSHSR18B3D, FSHSR24B3D



FSHSR36B3D

WIRELESS REMOTE WITH THE ABILITY TO CHANGE TO A COOL-ONLY REMOTE

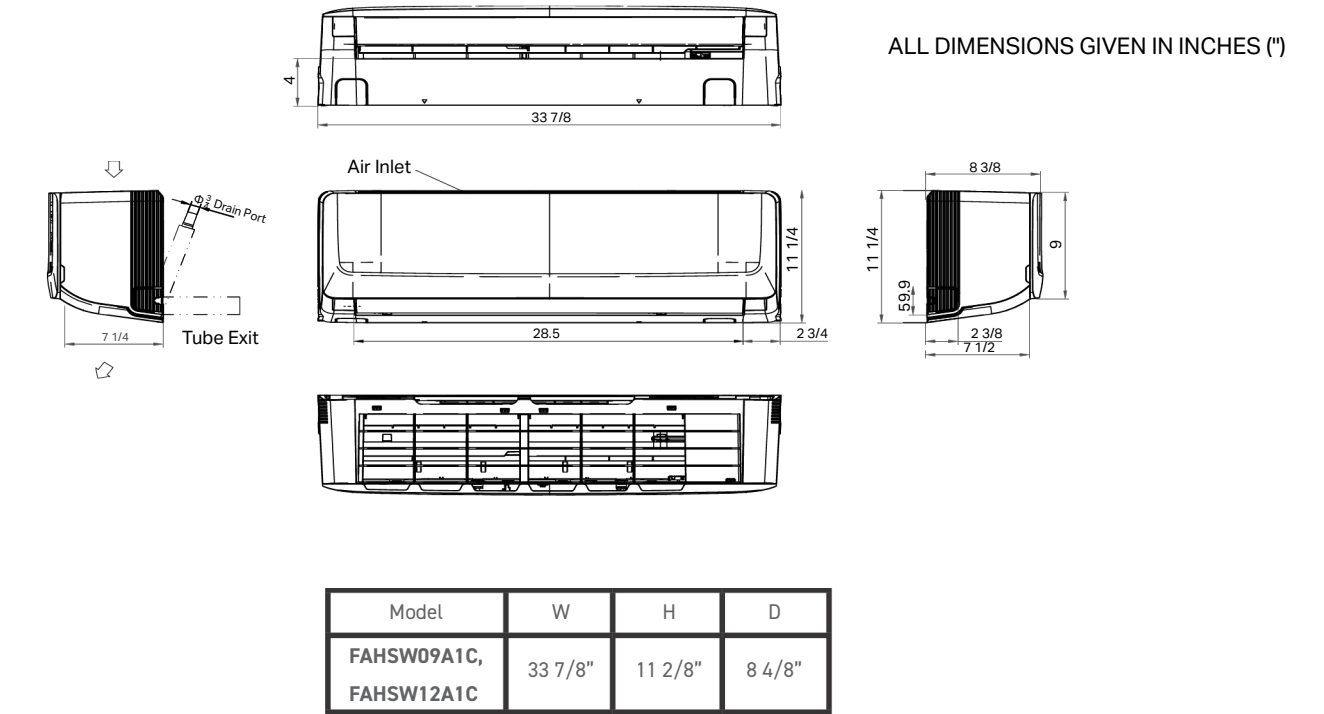
*FastPro® not applicable in FAHSW36A3D wall-mounted unit

FLOATING AIR™ SELECT | SINGLE-ZONE | WALL-MOUNTED HEAT PUMPS

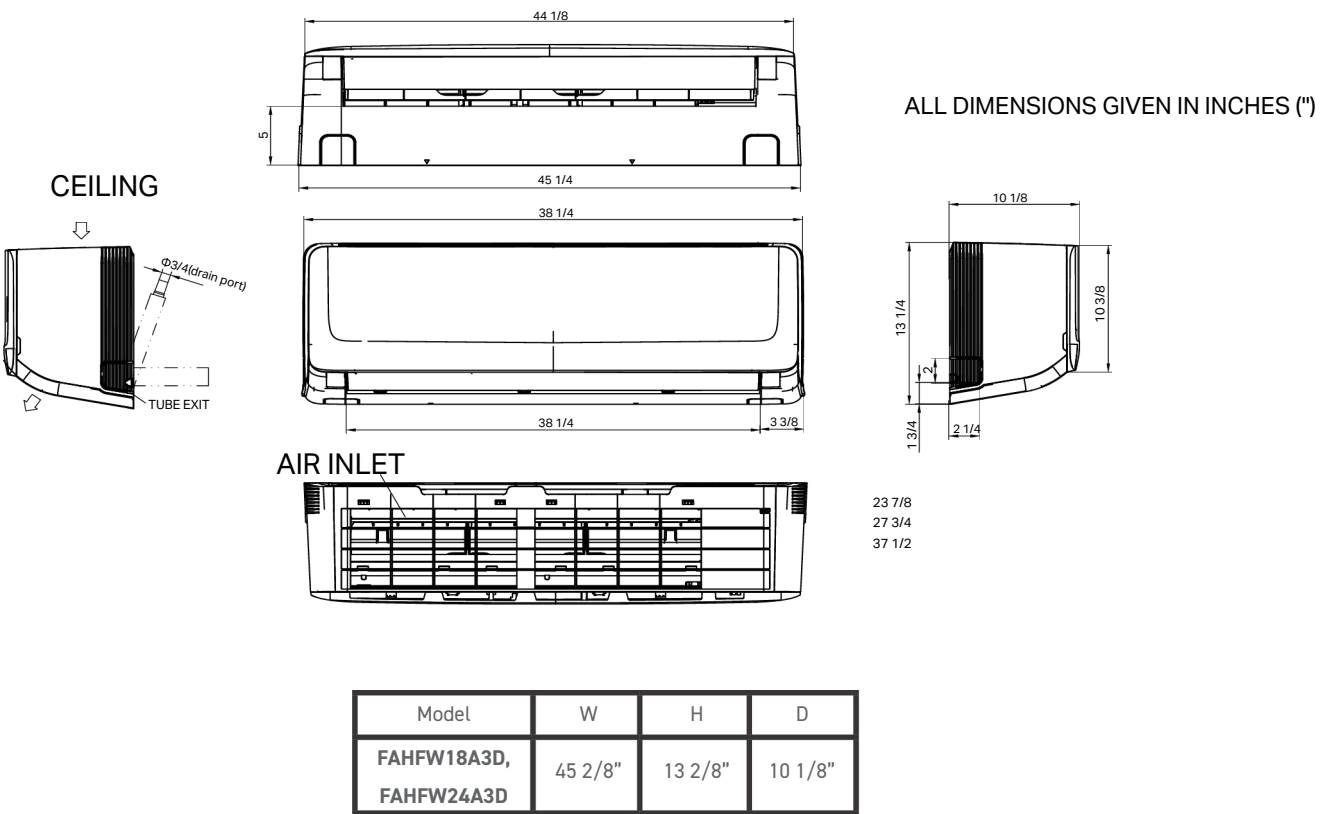
MODEL	Model Set	Unit	FSHW091C	FSHW121C	FSHW183D	FSHW243D	FSHW363D
	Indoor Model		FAHSW09A1C	FAHSW12A1C	FAHFW18A3D	FAHFW24A3D	FAHSW36A3D
	Outdoor Model		FSHSR09B1C	FSHSR12B1C	FSHSR18B3D	FSHSR24B3D	FSHSR36B3D
	Power Supply	V/Hz/ph	115V~,60Hz,1P		208V/230V~,60Hz,1P		
	ENERGY STAR® Standard	Y/N	Y	N	Y	N	N
	ENERGY STAR - Cold Climate	Y/N	N	N	N	N	N
COOLING	Rated Capacity @ 95°F	Btu/h	9,000	12,000	18,000	24,000	34,600
	Cooling Capacity Range (Min.-Max.)	Btu/h	3,600-10,000	4,000-13,000	6,500-19,000	8,000-25,000	9,300-36,000
	EER2 @ 95°F	Btu/h/W	12.50	10.20	12.00	10.60	9.00
	SEER2	Btu/h/W	20.00	18.00	21.00	19.50	20.00
	Cooling Operating Range	°F	5°F-118°F	5°F-118°F	5°F-118°F	5°F-118°F	5°F-118°F
HEATING	Rated Capacity @ 47°F	Btu/h	9,500	12,000	18,000	24,000	35,000
	Heating Capacity Range (Min.-Max.)	Btu/h	3,600-10,000	4,000-13,000	6,500-19,000	8,000-25,000	9,600-37,500
	COP @ 47°F	W/W	4.10	3.40	3.90	3.30	3.20
	COP @ 5°F	W/W	2.00	1.90	2.40	1.90	1.95
	HSPF2	Btu/h/W	9.00	8.50	9.80	8.50	8.40
	Rated Capacity Heating @ 17°F (-8.3°C)	Btu/h	6,800	8,800	14,800	21,000	19,200
	Maximum Heating Capacity @ 5°F (-15°C)	Btu/h	6,000	7,500	15,000	18,500	20,000
INDOOR AIRFLOW	Heating Operating Range	°F	-5°F-75°F	-5°F-75°F	-5°F-75°F	-5°F-75°F	-5°F-75°F
	Air Circulation (Max./H/M/L)	fts./CFM	382/341/294/247	394/365/312/253	647/588/482/382	706/647/559/441	1059/1018/883/712
INDOOR FAN MOTOR	Sound Rating - Indoor (Max./M/L/Quiet)	dB(A)	42/39/37/35/32	42/39/37/35/32	48/45/41/39/36	50/48/43/41/39	52/48/43/39/38
	Output	W	46	46	35	35	70
OUTDOOR AIRFLOW	Speed (High/Med/Low)	r/min	1,100/940/800	1,154/992/800	1,100/960/800	1,200/1,040/880	1,060/930/810
	Air Circulation (High) for Outdoor	fts./CFM	1,295	1,295	1,471	1,942	2,590
OUTDOOR FAN MOTOR	Sound Rating - Outdoor	dB(A)	53.0	53.0	56.0	60.0	60.0
	Output	W	36	36	60	102	102
ELECTRICAL	Speed (High)	r/min	850	880	840	880	900
	Air Circulation (High) for Outdoor	fts./CFM	1,295	1,295	1,471	1,942	2,590
REFRIGERATION (R-32)	Sound Rating - Outdoor	dB(A)	53.0	53.0	56.0	60.0	60.0
	Output	W	36	36	60	102	102
	Speed (High)	r/min	850	880	840	880	900
	Rated Current						
	Cooling (A)		6.70	10.65	6.40	10.00	16.20
	Cooling (W)		720	1,176	1,506	2,264	3,660
	Heating (A)		6.20	9.60	8.10	9.50	13.80
INDOOR UNIT	Heating (W)		696	960	1,426	1,954	3,160
	MOP (Rating of Overcurrent Protective Device)	A	25	25	20	35	40
	MCA (Minimum Circuit Ampacity)	A	14.6	15.6	14.5	21	25.8
	Communication Wire Size and Type	pints/hr	4x14 AWG	4x14 AWG	4x14 AWG	4x14 AWG	4x14 AWG
	Moisture Removal	oz.	1.9	2.5	3.8	4.2	7.9
	Refrigerant Charge Volume		21.2	21.9	45.9	47.7	72.4
	Liquid Pipe	in.	1/4	1/4	1/4	3/8	3/8
OUTDOOR UNIT	Gas Pipe	in.	3/8	3/8	1/2	5/8	5/8
	Max. Pipe Length (Total)	ft.	66	66	98	98	98
	Max. Elevation (Indoor Units Higher Than Outdoor Unit)	ft.	49	49	49	49	49
	Pre-charge Pipe Length	ft.	25	25	25	25	25
	Additional Refrigerant Charge per Foot After 25 ft.	oz./ft.	0.22	0.22	0.22	0.32	0.43
	Dimension (W×H×D)	Inches	33-7/8 × 11-2/8 × 8-4/8	33-7/8 × 11-2/8 × 8-4/8	45-2/8 × 13-2/8 × 10-1/8	45-2/8 × 13-2/8 × 10-1/8	52-3/8 × 14-2/8 × 10-6/8
	mm		860×285×216	860×285×216	1,148×336×256	1,148×336×256	1,330×363×274
INDOOR UNIT	Packing (W×H×D)	Inches	36-5/8 × 11 2/8 × 15	36-5/8 × 15 × 11-2/8	47-7/8 × 13 × 16-1/8	47-7/8 × 13 × 16-1/8	56 1/8 × 18-1/8 × 15-4/8
	mm		930x285x380	930x285x380	1,215 x 330 x 410	1,215 x 330 x 410	1,425×395x460
	Net Weight	lbs.	22	22	32	34	41
	kg		10	10	15	16	19
	Shipping Weight	lbs.	26	26	38	40	50
	kg in.		12	12	17	18	23
	Dimension (W×H×D)	Inches	31 71/8 × 23 x 11	31 71/8 × 23 x 11	33-7/8 × 25-5/8 × 12-2/8	33-7/8 × 25-5/8 × 12-2/8	35-3/8 × 29-4/8 × 13-3/8
OUTDOOR UNIT	mm in.		810x585x280	810x585x280	860x650x310	860x650x310	900×750×340
	Packing (W×H×D)	Inches	37 × 15 1/8 × 24 6/8	37 × 15 1/8 × 24 6/8	39 1/8 × 16 4/8 × 28 3/8	41 6/8 × 13 × 16 1/8	41 6/8 × 13 × 16 1/8
	mm		940x385x630	940x385x630	940x640x385	1,060x450x820	1,060x450x820
	Net Weight	lbs.	53	57	86	101	121
	kg		24	26	39	46	55
	Shipping Weight	lbs.	57	62	93	110	132
	kg		26	28	42	50	60



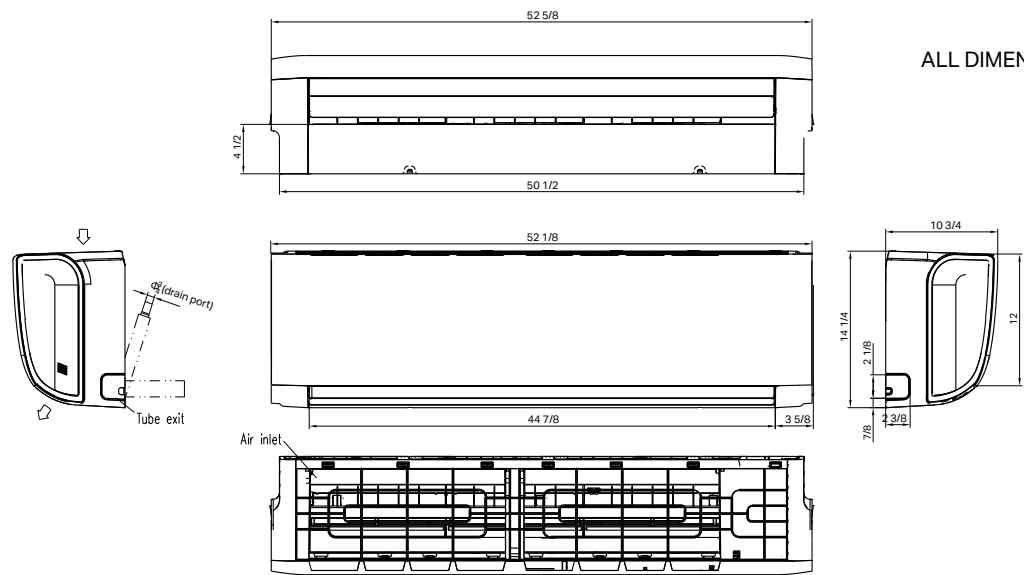
DIMENSIONAL DRAWINGS
INDOOR UNIT / FAHSW09A1C, FAHSW12A1C



INDOOR UNIT / FAHFW18A3D, FAHFW24A3D

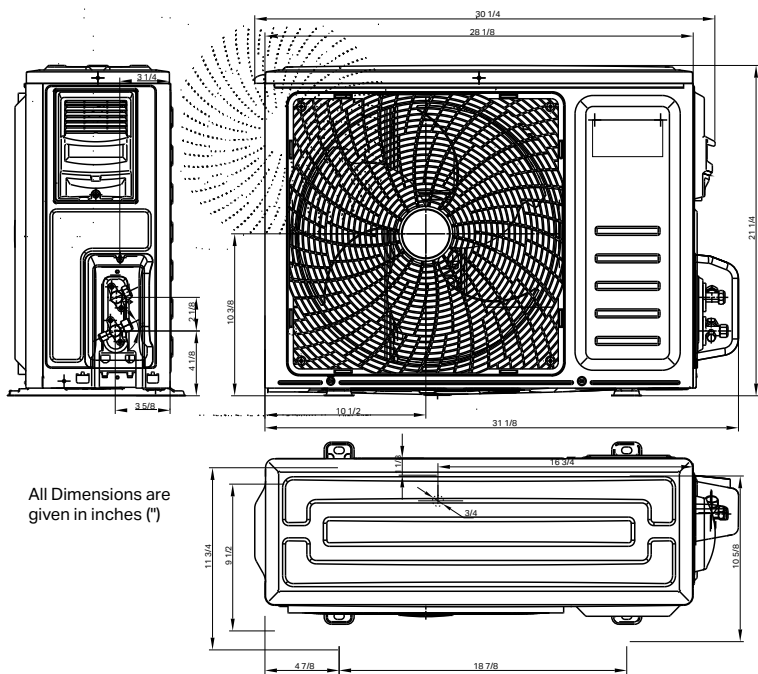


DIMENSIONAL DRAWINGS
INDOOR UNIT /FAHSW36A3D



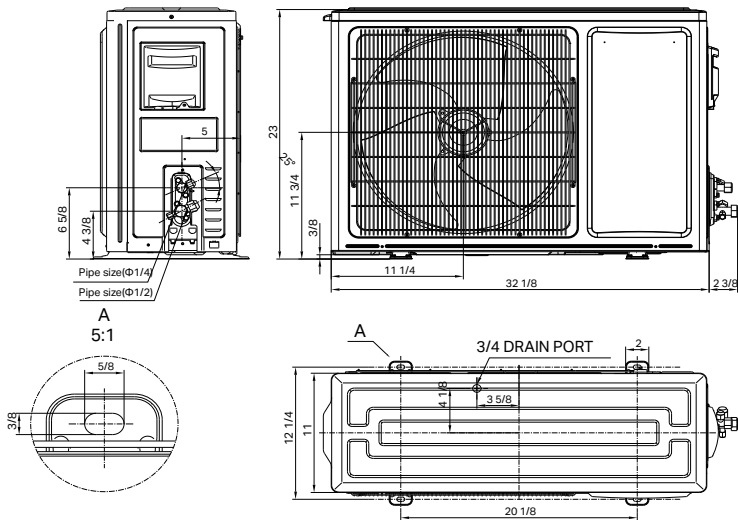
Model	W	H	D
FAHSW36A3D	52 3/8"	14 2/8"	10 6/8"

DIMENSIONAL DRAWINGS
OUTDOOR UNITS / FSHSR09B1C, FSHSR12B1C



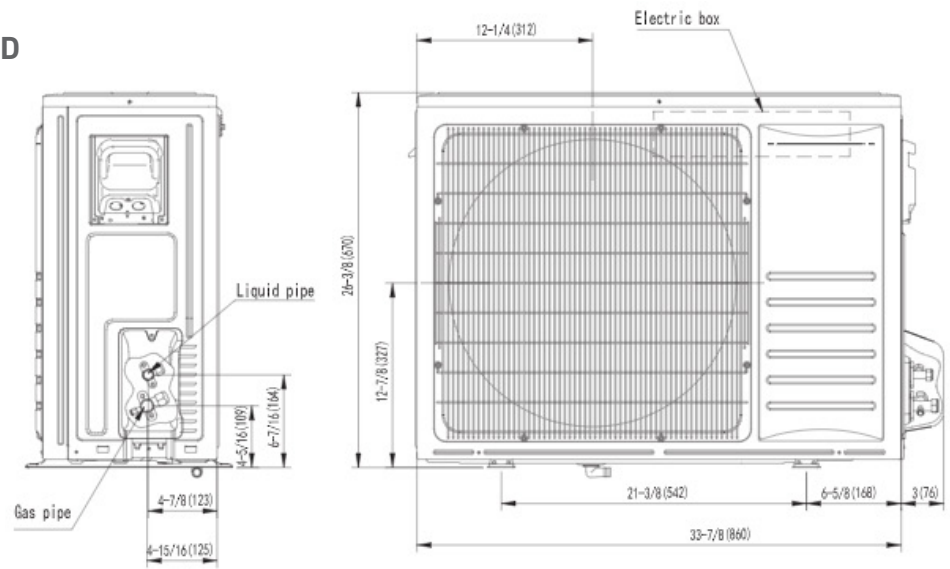
Model	W	H	D
FSHSR09B1C	28 1/8"	21 2/8"	8 4/8"
FSHSR12B1C			

OUTDOOR UNITS / FSHSR18B3D



Model	W	H	D
FSHSR18B3D	31 7/8"	23	11

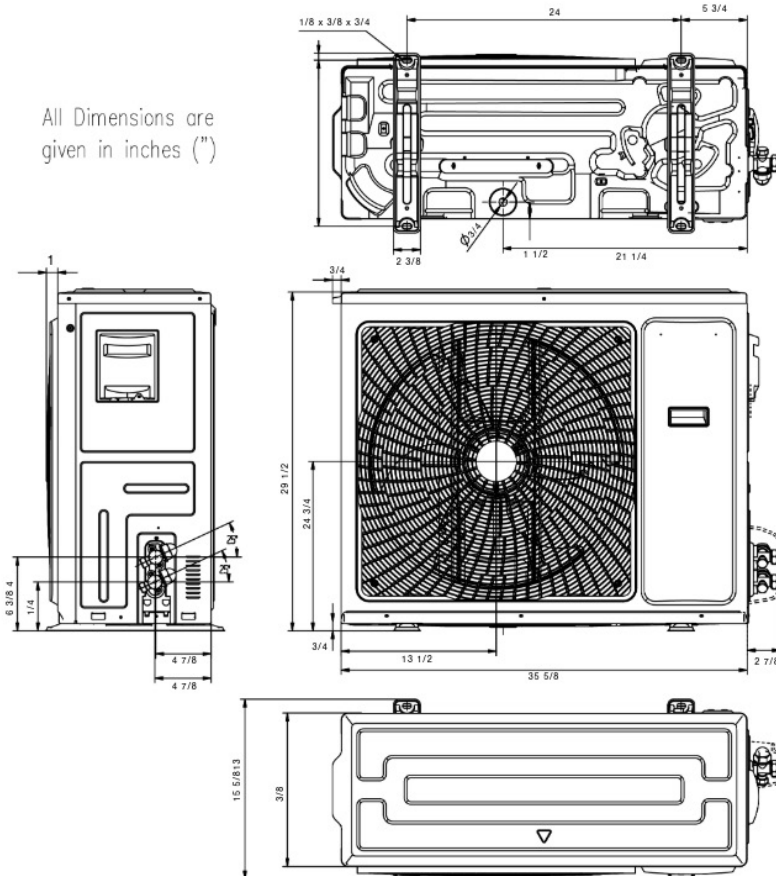
DIMENSIONAL DRAWINGS OUTDOOR UNITS / FSHSR24B3D



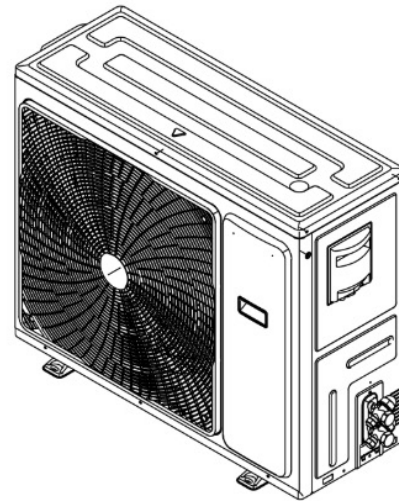
Model	W	H	D
FSHSR24B3D	33 7/8"	27 5/8"	12 2/8"

DIMENSIONS GIVEN IN INCHES (MM)

OUTDOOR UNITS / FSHSR36B3D



All Dimensions are
given in inches (")



Model	W	H	D
FSHSR36B3D	35 3/8"	29 4/8"	13 3/8"

REFRIGERATION LINE SETS*

Kit#	Length (ft.)	Liquid	Suction	System Model
T32150	15'	1/4"	3/8"	FSHW091C, FSHW121C
T32350	35'	1/4"	3/8"	

Kit#	Length (ft.)	Liquid	Suction	System Model
T42150	15'	1/4"	1/2"	FSHW183D
T53250	25'	3/8"	5/8"	FSHW243D, FSHW363D

*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 Select		
System Model	Min. (ft.)	Max. (ft.)
FSHW091C, FSHW121C	10	66
FSHW183D, FSHW243D	10	98
FSHW363D	15	98

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.



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.