



Floating Air™ | **ACHIEVER®** Series **DUCTLESS MINI-SPLIT SYSTEMS**

WALL-MOUNTED, SINGLE ZONE HEAT PUMPS

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

ITEM	PLAN DESIGNATION	QUANTITY	COOLING BTU/H	VOLTAGE	RUUD MODEL

Key Features

Indicates sustainability feature

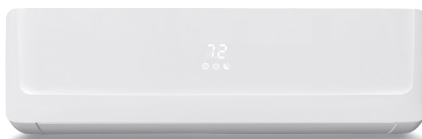
- **FastPro®** design for the fastest access for maintenance of any wall-mounted ductless systems
- ENERGY STAR®** certified models available
- Precision Inverter®** technology (variable speed compressor)
- Soft-Start™ compressor
- BLDC motor
- Built-in Wi-Fi
- Sleep mode
 - Ultra quiet operation
 - Easy-to-read temperature display
 - Wireless remote control included
 - Efficiencies of up to 21.0 SEER2

FEATURING **FastPro®** DESIGN

115 VOLT MODELS



FAHSW09A1C, FAHSW12A1C

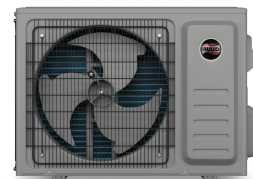


FAHFW18A3D, FAHFW24A3D

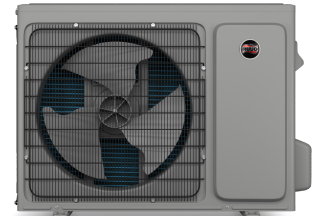
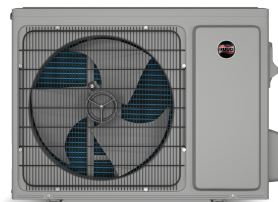


FAHSW36A3D

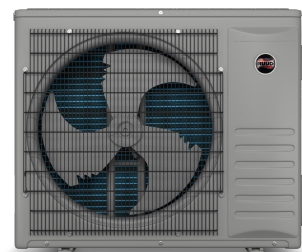
(FastPro® not applicable on this model)



FSHSR09B1C, FSHSR12B1C



FSHSR18B3D, FSHSR24B3D



FSHSR36B3D



*Applies to FSHW091C and FSHW183D model sets.

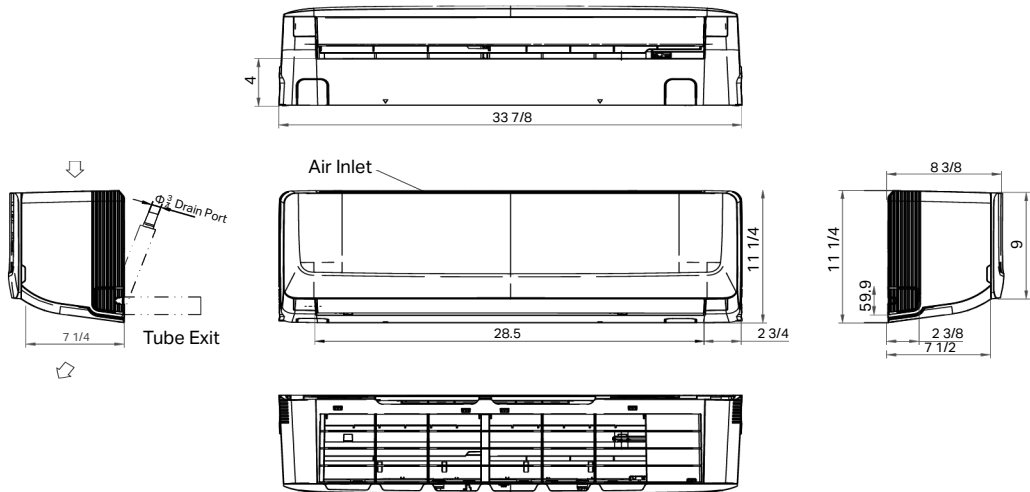
FLOATING AIR™ **ACHIEVER®** SERIES | SINGLE-ZONE | WALL-MOUNTED HEAT PUMPS

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		115V~,60Hz,1P		208V/230V~,60Hz,1P		
	ENERGY STAR® Standard		Y/N	Y	N	Y	N
COOLING	ENERGY STAR® – Cold Climate	Y/N	N	N	N	N	N
	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	9.50
	SEER2	Btu/h/W	20.00	18.00	21.00	19.50	20.00
HEATING	Cooling Operating Range	°F	5-118	5-118	5-118	5-118	5-118
	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	3.91	3.30	3.25
	COP @ 5°F	W/W	2.00	1.90	2.40	1.90	1.95
INDOOR AIRFLOW	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
	Heating Operating Range	°F	-5-75	-5-75	-5-75	-5-75	-5-75
	Air Circulation (Max./H/M/L)	ft3 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./H/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	36	36	60	102	102
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	ft3 CFM	1,295	1,295	1,471	1,942	2,590
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
	Rated Current	Cooling (A)	6.7	10.7	6.4	10.0	16.0
		Cooling (W)	720	1,176	1,506	2,264	3,660
		Heating (A)	6.2	9.6	8.1	9.5	14.2
		Heating (W)	679	1,034	1,349	2,132	3,160
REFRIGERATION (R-32)	MOP (Rating of Overcurrent Protective Device)	A	25	25	20	35	40
	MCA (Minimum Circuit Ampacity)	A	14.6	15.6	14.5	21.0	25.8
	Communication Wire Size and Type		4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
INDOOR UNIT	Moisture Removal	pints/hr	1.9	2.5	3.8	4.2	7.9
	Refrigerant Charge Volume	oz.	21.2	21.9	45.9	47.7	72.4
	Liquid Pipe	in.	1/4	1/4	1/4	3/8	3/8
	Gas Pipe	in.	3/8	3/8	1/2	5/8	5/8
	Max. Pipe Length (Total)	ft.	65.6	65.6	98.4	98.4	98.4
	Max. Elevation (Indoor Units Higher Than Outdoor Unit)	ft.	49.2	49.2	49.2	49.2	49.2
	Pre-charge Pipe Length	ft.	24.6	24.6	24.6	24.6	24.6
	Additional Refrigerant Charge per Foot after 25 ft.	oz./ft.	0.22	0.22	0.22	0.32	0.43
OUTDOOR UNIT	Dimension (W×H×D)	in.	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	45 2/8 ×13 2/8 ×10	52 3/8 ×14 2/8 ×10 6/8
		mm	860×285×216	860×285×216	1 1/8 1,148×336×256	1 1/8 1,148×336×256	1,330×363×274
	Packing (L×H×W)	in.	36 5/8 ×15 ×11 2/8	36 5/8 ×15 ×11 2/8	47 7/8 ×16 1/8 ×13	47 7/8 ×16 1/8 ×13	56 1/8 ×15 4/8 ×18 1/8
		mm	930x285x380	930x285x380	1,215 x 330 x 410	1,215x330x410	1,425×395x460
	Net Weight	lbs.	22.1	22.05	32.0	34.2	40.8
		kg	10.0	10.0	15.0	16.0	19.0
OUTDOOR UNIT	Shipping Weight	lbs.	26.5	26.5	37.5	39.7	50.3
		kg	12.0	12.0	17.0	18.0	23.0
	Dimension (W×H×D)	in.	28 1/8 ×21 2/8 ×9 4/8	28 1/8 ×21 2/8 ×9 4/8	31 7/8 ×23 ×11	33 7/8 ×25 5/8 ×12 2/8	35 3/8 ×29 4/8 ×13 3/8
		mm	715x540x240	715x540x240	810x585x280	860x650x310	900×750×340
	Packing (L×H×W)	in.	32 5/8 ×23 1/8 ×13 3/8	32 5/8 ×23 1/8 ×13 3/8	37 ×25 2/8 ×15 1/8	39 1/8 ×28 3/8 ×16 4/8	41 6/8 ×32 2/8 ×17 6/8
		mm	830x588x340	830x588x340	940x640x385	995×720×420	1,060x820x450
OUTDOOR UNIT	Net Weight	lbs.	52.9	57.3	86.0	101.4	121.3
		kg	24.0	26.0	39.0	46.0	55.0
	Shipping Weight	lbs.	57.3	61.7	92.6	110.3	132.3
OUTDOOR UNIT		kg	26.0	28.0	42.0	50.0	60.0

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



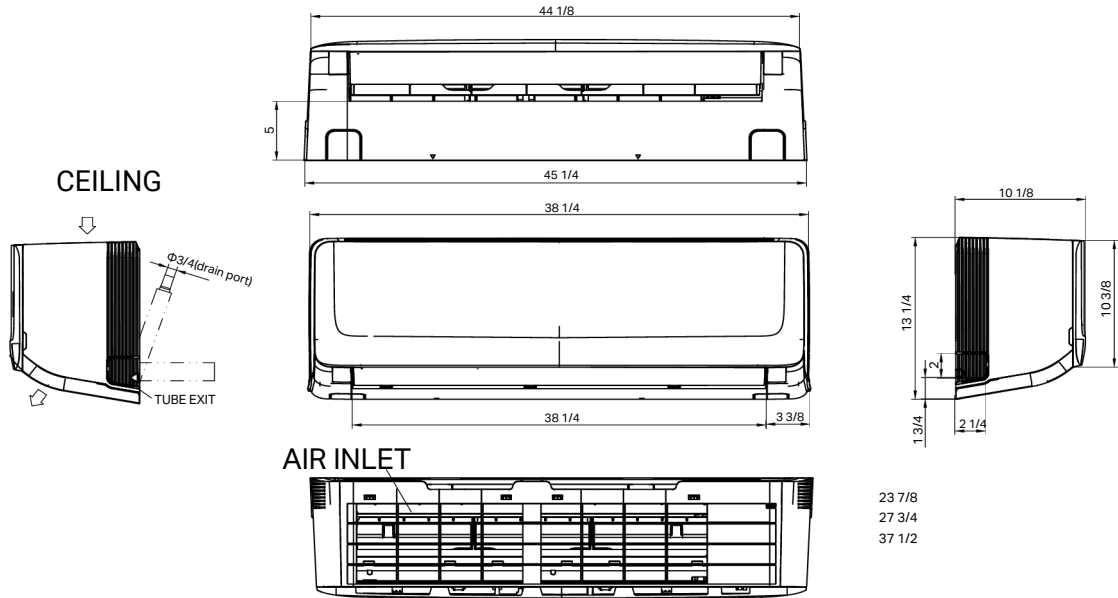
DIMENSIONAL DRAWINGS: WALL-MOUNTED HEAT PUMP
INDOOR UNITS / FAHSW09A1C, FAHSW12A1C



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

UNITS: INCHES (MM)

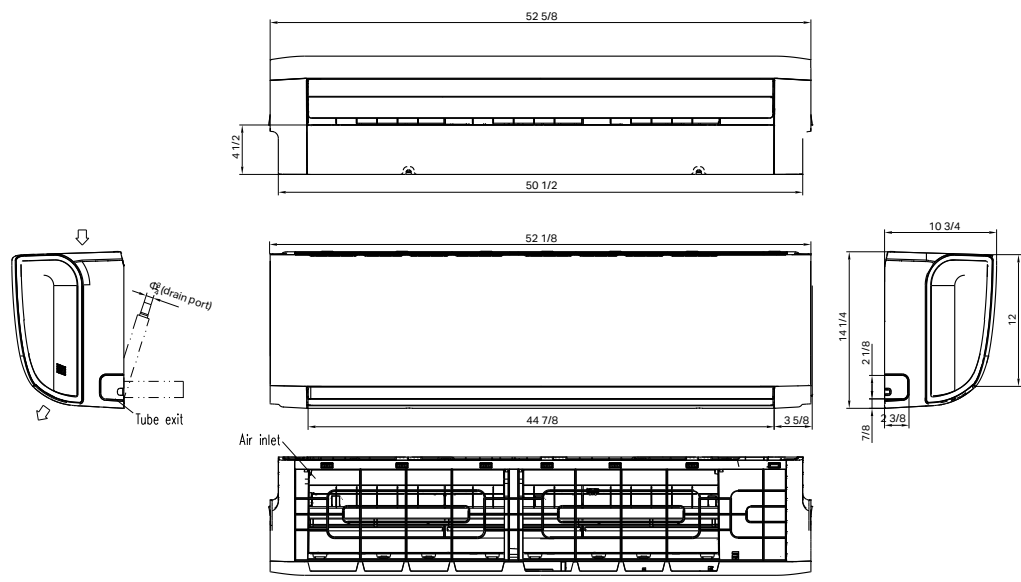
INDOOR UNITS / FAHFW18A3D, FAHFW24A3D



Model	W	H	D
FAHFW18A3D, FAHFW24A3D	45 2/8"	13 2/8"	10 1/8"

UNITS: INCHES (MM)

DIMENSIONAL DRAWINGS: WALL-MOUNTED HEAT PUMP
INDOOR UNIT / FAHSW36A3D

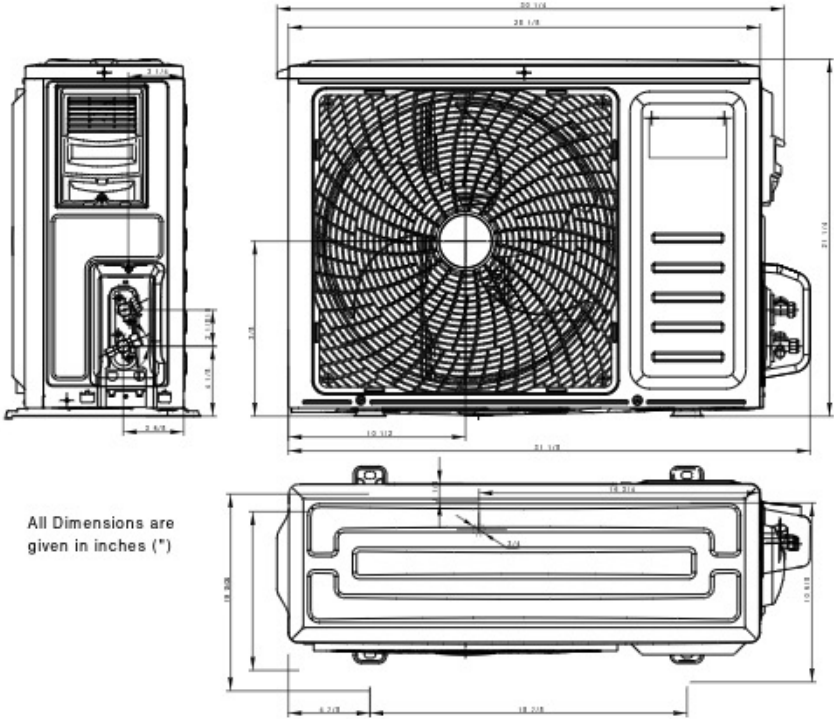


Model	W	H	D
FAHSW36A3D	52 3/8"	14 2/8"	10 6/8"

UNITS: INCHES (MM)

DIMENSIONAL DRAWINGS: OUTDOOR HEAT PUMP

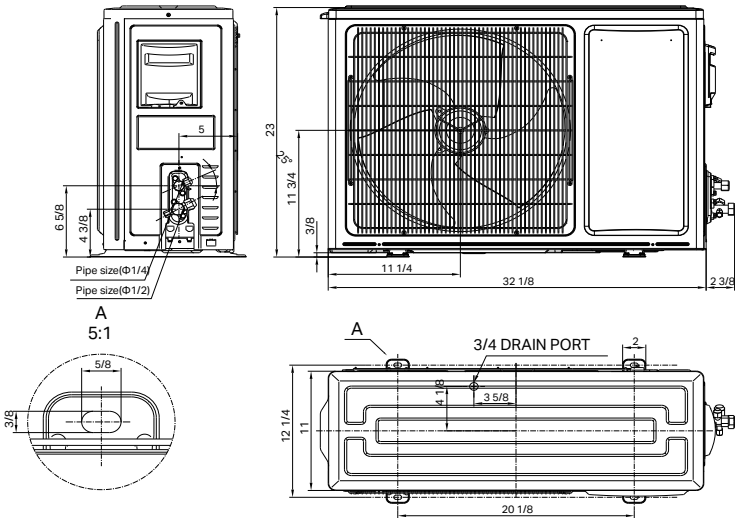
OUTDOOR UNITS / FSHSR09B1C, FSHSR12B1C



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

UNITS: INCHES (MM)

OUTDOOR UNITS / FSHSR18B3D

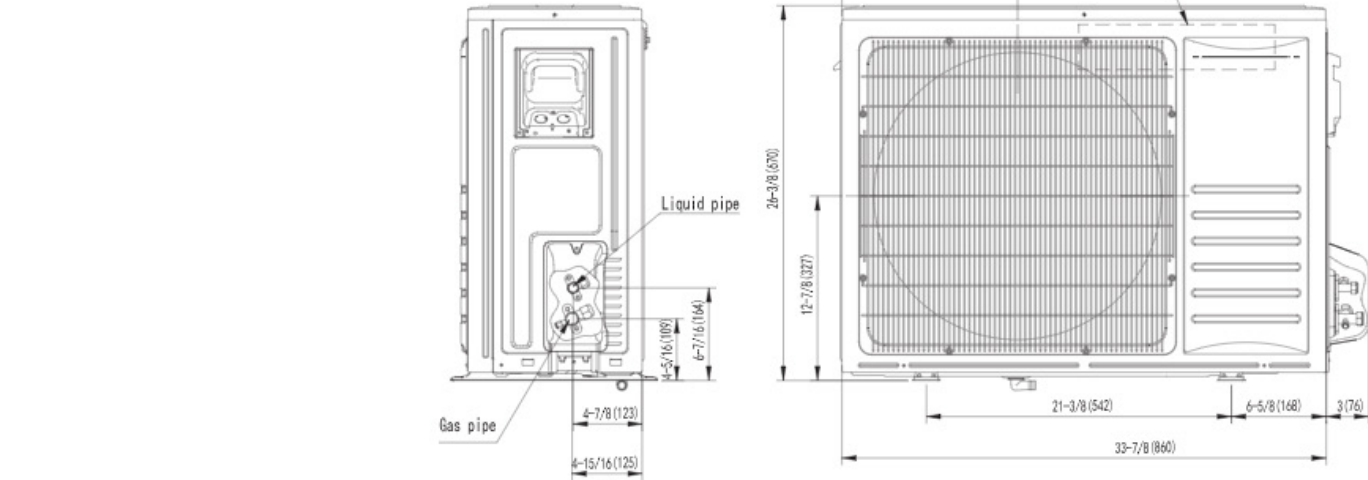


Model	W	H	D
FSHSR18B3D	31 7/8"	23	11

UNITS: INCHES (MM)

DIMENSIONAL DRAWINGS: OUTDOOR HEAT PUMPS

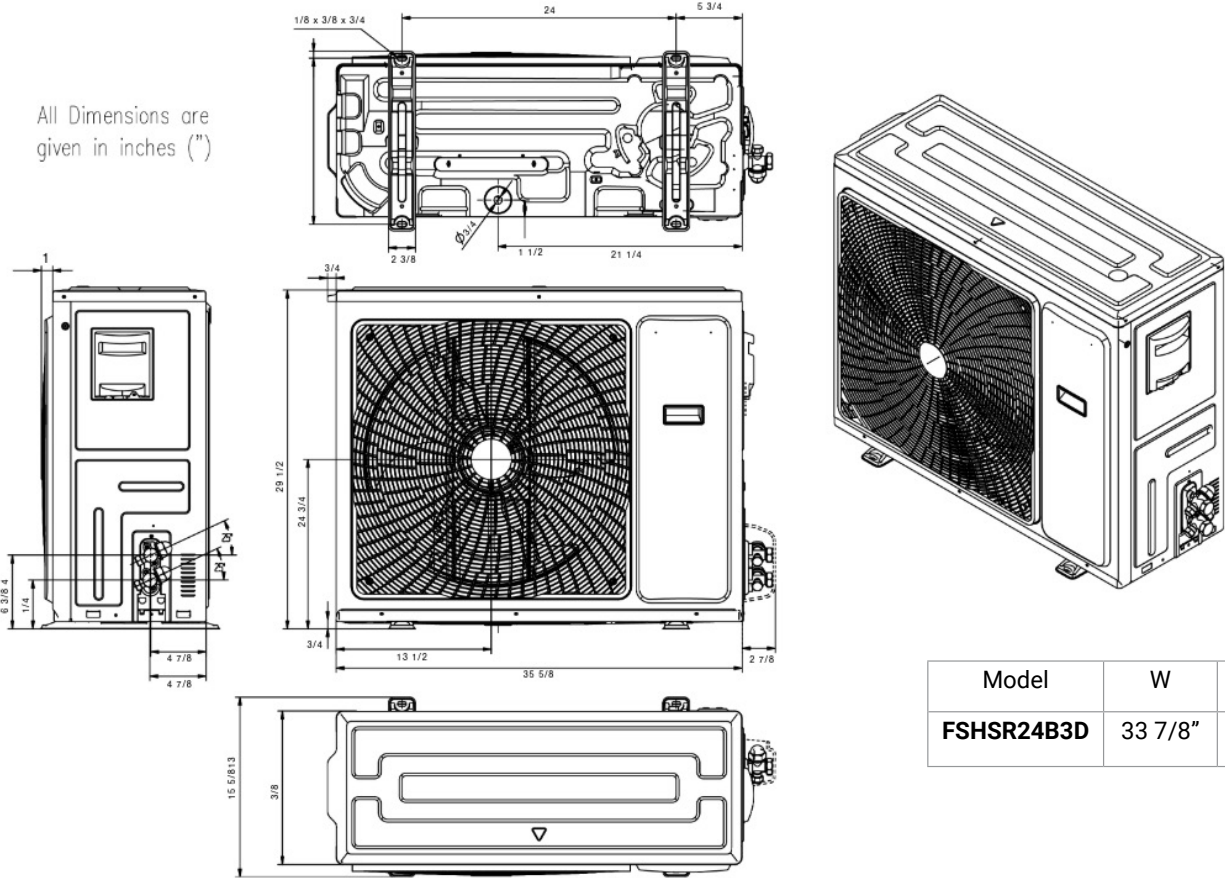
OUTDOOR UNITS / FSHSR24B3D



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

UNITS: INCHES (MM)

OUTDOOR UNITS / FSHSR36B3D



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

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 Ruud 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. (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 hard-wired controller for Floating Air wall-mounted and cassette indoor models. Included with concealed ducted models. Not compatible with AHU indoor models. See your Ruud representative for options.



FreshAire Purifier APWM1 by iWave® – Optional accessory for all wall-mounted ductless models that kills mold, bacteria and viruses—while effectively removing odors and VOCs.