



Submittal Sheet

Submitted for:

☐ Approval

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Job Name: _____

Date: _____

Contractor: _____

Location: _____

Engineer: _____

Tag: _____

SERENE SERIES DC INVERTER

Outdoor Units: ASRCI4H4S09

Indoor Units: ASREM4H4S09

ASRCI4H4S12

ASREM4H4S12

ASRCI4H4S18

ASREM4H4S18

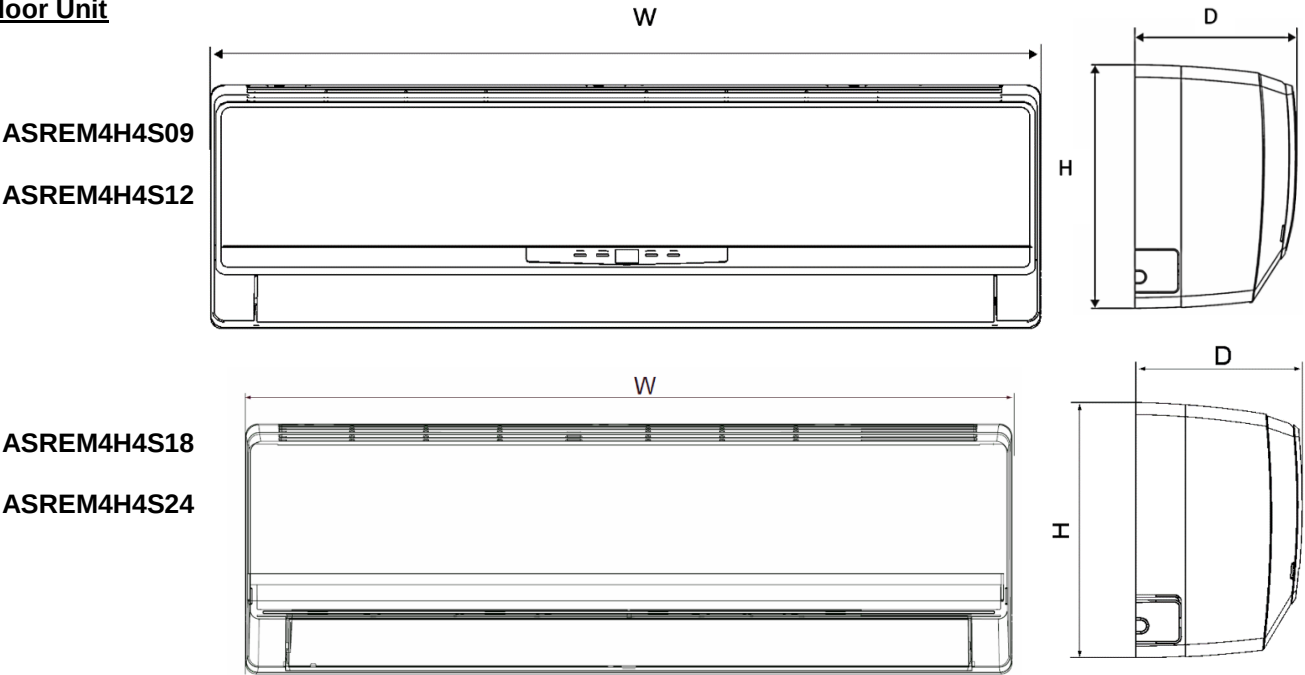
ASRCI4H4S24

ASREM4H4S24

Notes: _____

Summary, Features, and Construction Views

Indoor Unit



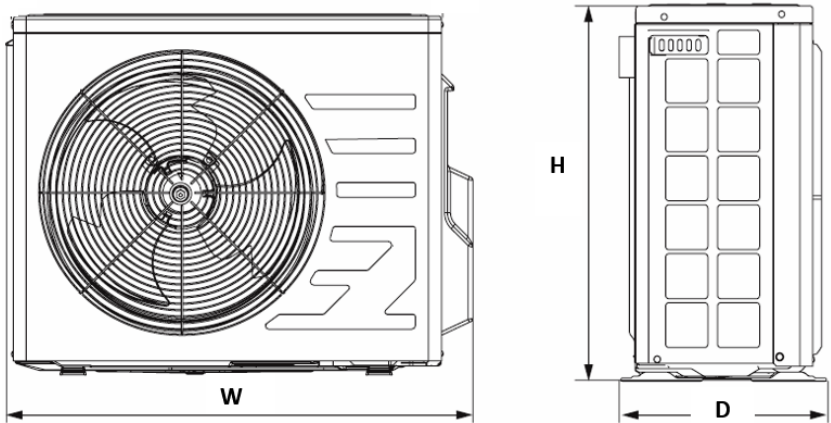
Model	W	H	D
Units:mm			
ASREM4H4S09	745	270	214
ASREM4H4S12	815	270	214
ASREM4H4S18	915	315	236
ASREM4H4S24	1085	315	236
Units:in			
ASREM4H4S09	29-5/16	10-5/8	8-7/16
ASREM4H4S12	32-1/16	10-5/8	8-7/16
ASREM4H4S18	36	12-3/8	9-5/16
ASREM4H4S24	42-3/4	12-3/8	9-5/16

*True dimensions in inches

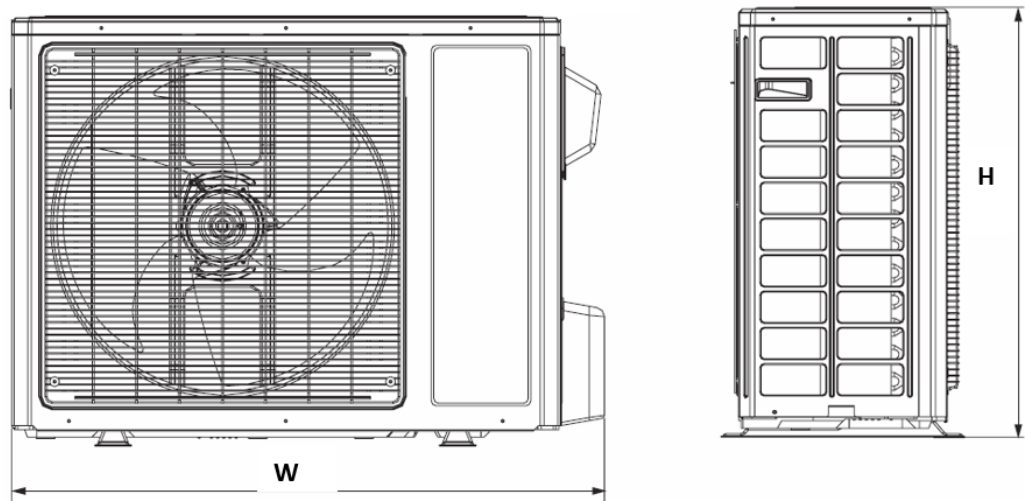
Summary, Features, and Construction Views

Outdoor Unit

ASRCI4H4S09 & ASRCI4H4S12



ASRCI4H4S18 & ASRCI4H4S24



Model	W	H	D
Units:mm			
ASRCI4H4S09 ASRCI4H4S12	715	482	240
ASRCI4H4S18	810	585	280
ASRCI4H4S24	860	650	310
Units:in			
ASRCI4H4S09 ASRCI4H4S12	28-1/8	19	9-7/16
ASRCI4H4S18	31-7/8	23	11
ASRCI4H4S24	33-7/8	25-9/16	12-3/16

*True dimensions in inches

Specifications

Specifications

9000 and 12000 BTU units

Parameter		Unit	Value	
Model			ASREM4H4S09/ASRCI4H4S09	ASREM4H4S12/ASRCI4H4S12
Power Supply	Rated Voltage	V~	208/230	208/230
	Rated Frequency	Hz	60	60
	Phases		1	1
Power Supply Mode			Outdoor	Outdoor
Cooling Capacity (Min~Max)		Btu/h	9000(4500~10000)	12000(5500~13500)
Heating Capacity (Min~Max)		Btu/h	1000(4500~10000)	13000(5500~13500)
Cooling Power Input		W	820	1120
Heating Power Input		W	860	1110
Cooling Current Input		A	3.7(1.3~7.0)	5.0(1.5~7.5)
Heating Current Input		A	3.9(1.3~7.0)	5.0(1.5~7.5)
Air Flow Volume (SH/H/M/L/SL)		CFM	324	365
		m ³ /h	550	620
Dehumidifying Volume		Pint/h	1.9	2.5
		L/h	0.9	1.2
EER		Btu/Wh	10.98	10.71
COP		Btu/Wh	11.63	11.71
SEER			16.3	16.7
HSPF			9.1	9.0
Indoor Unit	Indoor Unit Model		ASREM4H4S09	ASREM4H4S12
	Fan Type		Cross-flow	Cross-flow
	Motor Speed (H/M/L)	r/min	1250/1100/950	1250/1100/950
	DC Motor Manufacturer		Weiling	Weiling
	Motor Model		DG13G1-21	DG13G1-21
	Fan Motor Power Input	W	14	14
	Evaporator Form		Aluminum Fin-copper tube	Aluminum Fin-copper tube
	Evaporator Row-fin Gap	Inch	1/18	1/18
		mm	1.41	1.41
	Evaporator Coil Length (LXDXW)	Inch	21.7X1.1X11.6	24.4X1.1X11.6
		mm	550X27.2X294	620X27.2X294
	Sound Pressure Level (SH/H/M/L/SL)	dB(A)	39/36/33/26/-	40/36/33/26/-
	Dimension (WXHDXD)	inch	29-5/16X10-5/8X8-7/16	32-1/16X10-5/8X8-7/16
		mm	745X270X214	815X270X214
	Dimension of Package (LXWXH)	Inch	31-1/2X13-3/16X10-7/16	34-1/4X13-3/16X10-7/16
		mm	800X335X265	870X335X265

	Net Weight	lb	18.74	19.84
		kg	8.5	9.0
	Gross Weight	lb	22.05	24.25
		kg	10.0	11.0
Outdoor Unit	Outdoor Unit Model		ASRCI4H4S09	ASRCI4H4S12
	Compressor Manufacturer		GMCC	GMCC
	Compressor Model		ASK89D53UEZ1	ASN108D32UFZ
	Compressor Type		Rotary	Rotary
	Fan motor manufacturer		Weiling	Weiling
	Fan motor model		DG22Z1-33	DG13Z1-59
	Fan Motor Power Input	W	28	28
	Fan Motor Speed (H/M/L)	RPM	850	880
	Throttling Method		Capillary tube	Capillary tube
	Set Temperature Range (Cooling)	°F	61~86	61~86
		°C	16~30	16~30
	Set Temperature Range (Heating)	°F	61~86	61~86
		°C	16~30	16~30
	Ambient Temperature (Cooling)	°F	32~115	32~115
		°C	0~46	0~46
	Ambient Temperature (Heating)	°F	-4~75	-4~75
		°C	-20~24	-20~24
	Condenser Form		Aluminum fin-copper tube	Aluminum fin-copper tube
	Sound Pressure Level	dB(A)	54	54
	Dimension (WXHxD)	mm	715X482X240	715X482X240
		in	28-1/8X19X9-7/16	28-1/8X19X9-7/16
	Dimension of Package (L/W/H)	mm	830X530X340	830X530X340
		in	32-11/16X20-7/8X13-3/8	32-11/16X20-7/8X13-3/8
	Net Weight	kg	25.0	27.0
		Lbs	55.1	59.5
	Gross Weight	kg	27.0	30.0
		Lbs	59.5	66.1
	Refrigerant		R410A	R410A
	Refrigerant Charge	grams	830	1000
		oz	29.3	35.3
	Outer Diameter Liquid Pipe	mm	6.35	6.35
		in	¼	¼
	Outer Diameter Gas Pipe	mm	9.53	9.53
		in	3/8	3/8

Note: The connection pipe applies metric diameter.

18000 and 24000 BTU units

Parameter		Unit	Value	
Model			ASREM4H4S18/ASRCI4H4S18	ASREM4H4S24/ASRCI4H4S24
Power Supply	Rated Voltage	V~	208/230	208/230
	Rated Frequency	Hz	60	60
	Phases		1	1
Power Supply Mode			Outdoor	Outdoor
Cooling Capacity (Min~Max)		Btu/h	18000(6500~19500)	24000(8000~26500)
Heating Capacity (Min~Max)		Btu/h	20000(6000~21500)	24500(8000~26500)
Cooling Power Input		W	1700	2290
Heating Power Input		W	2000	2280
Cooling Current Input		A	7.6(1.8~12)	10.5(2.0~13.0)
Heating Current Input		A	9.0(1.8~12.0)	10.4(2.0~13.0)
Air Flow Volume (SH/H/M/L/SL)		CFM	588.6	676.9
		m³/h	1000	1150
Dehumidifying Volume		Pint/h	4.23	5.07
		L/h	2.0	2.4
EER		Btu/Wh	10.59	10.48
COP		Btu/Wh	10.00	10.75
SEER			17.6	17.6
HSPF			10.1	9.8
Indoor Unit	Indoor Unit Model		ASREM4H4S18	ASREM4H4S24
	Fan Type		Cross-flow	Cross-flow
	Motor Speed (H/M/L)	r/min	1150/990/830	1100/960/800
	DC Motor Manufacturer		Broad-Ocean	Broad-Ocean
	Motor Model		DG13G2-08	K1B310497
	Fan Motor Power Input	W	35	35
	Evaporator Form		Aluminum Fin-copper tube	Aluminum Fin-copper tube
	Evaporator Row-fin Gap	Inch	1/18	1/18
		mm	1.41	1.41
	Evaporator Coil Length (LXDXW)	Inch	27.8X1.1X14.9	33.2X1.1X14.9
		mm	705X27.2X378	842X27.2X378
	Sound Pressure Level (SH/H/M/L/SL)	dB(A)	45/43/38/35/-	48/45/40/36/-
	Dimension (WXHDXD)	inch	36X12-3/8X9-5/16	42-3/4X12-3/8X9-5/16
		mm	915X315X236	1085X315X236
	Dimension of Package (LXWXH)	Inch	39-3/8X15-3/8X12-3/8	46-1/16X15-3/8X12-7/16
		mm	1000X390X315	1170X390X315
	Net Weight	lb	27.6	33.1
		kg	12.5	15.0

	Gross Weight	lb	31.9	37.47
		kg	14.5	17.0
Outdoor Unit	Outdoor Unit Model		ASRCI4H4S18	ASRCI4H4S24
	Compressor Manufacturer		GMCC	GMCC
	Compressor Model		ATM150D43UFZ	ATF235D22UMT
	Compressor Type		Rotary	Rotary
	Fan motor manufacturer		Broad-Ocean	Broad-Ocean
	Fan motor model		DG13Z1-77	DG13Z2-21
	Fan Motor Power Input	W	41	61
	Fan Motor Speed (H/M/L)	RPM	910	840
	Throttling Method		Capillary tube	Capillary tube
	Set Temperature Range (Cooling)	°F	61~86	61~86
		°C	16~30	16~30
	Set Temperature Range (Cooling)	°F	61~86	61~86
		°C	16~30	16~30
	Ambient Temperature (Cooling)	°F	32~115	32~115
		°C	0~46	0~46
	Ambient Temperature (Heating)	°F	-4~75	-4~75
		°C	-20~24	-20~24
	Condenser Form		Aluminum fin-copper tube	Aluminum fin-copper tube
	Sound Pressure Level	dB(A)	56	58
	Dimension (WXHxD)	mm	810X585X280	860X650X310
		in	31-7/8X23X11	33-7/8X25-9/16X12-3/16
	Dimension of Package (L/W/H)	mm	940X640X385	995X730X445
		in	37X25-3/16X15-3/16	39-3/16X28-3/4X17-1/2
	Net Weight	kg	39	50
		Lbs	85.9	110.2
	Gross Weight	kg	42	54
		Lbs	92.6	119.1
	Refrigerant		R410A	R410A
	Refrigerant Charge	grams	1400	1630
		oz	49.4	57.5
	Outer Diameter Liquid Pipe	mm	6.35	9.53
		in	1/4	3/8
	Outer Diameter Gas Pipe	mm	12.7	15.88
		in	1/2	5/8

Note: The connection pipe applies metric diameter.

AHRI Certifications and SEER Rating

Indoor unit model	Outdoor unit model	AHRI Certification Reference Number	Rated Capacity (Btu/h)	SEER (Cooling) Btu/Wh	EER (Cooling) Btu/Wh	Heating Capacity (Btuh @ 47°F)	HSPF
ASREM4H4S09	ASRCI4H4S09	10272488	9000	16.3	10.5	10000	9.1
ASREM4H4S12	ASRCI4H4S12	10272490	12000	16.7	10.7	13000	9.0
ASREM4H4S18	ASRCI4H4S18	10272492	18000	17.6	10.9	20000	10.1
ASREM4H4S24	ASRCI4H4S24	10272494	24000	17.6	10.5	24400	9.8