

Haier

Submittals

Advanced Series

Rev. Feb. 2017



1U09ES2VHA / AW09ES2VH*

1U12ES2VHA / AW12ES2VH*

1U18ES2VHA / AW18ES2VH*

1U24ES2VHA / AW24ES2VH*



HaierAmerica

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Revision History

Rev. Jan. 2017 - *Submittal edition release.*

Rev. Feb. 2017 - *Adapted for B model versions.*

Haier Advanced Series Submittal

9000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U09ES2VHA / AW09ES2VH*

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ship with YR-HG

Wired Thermostat

Compatible with YR-E17[‡]

Compatible with YR-16b[‡]

[‡]AW09ES2VHA requires interface kit WK-A

[‡]AW09ES2VHB requires interface kit WK-B

Electrical Requirement

Power Supply	208/230V, 1 Phase, 60 HZ
Operating Voltage Range	187~253 VAC
Recommended Fuse/Breaker Size	15A
MCA	12A

Operating Range

Cooling	14~115°F (-10~46°C)
Heating	-4~75°F (-20~24°C)

Cooling Performance

Rated Cooling Capacity	9,000 BTU
Cooling Capacity Range	3,800~12,100 BTU
Rated Power input	610 W
SEER	23.5
EER	14.5

Heating Performance

Rated Heating Capacity	10,000 BTU
Heating Capacity Range	4,100~15,000 BTU
HSPF	12.0

Pipe Length

Maximum Pipe Length	50 ft
Maximum Pipe Height Difference	33 ft
Connection	1/4" (Discharge) 3/8" (Suction) Flare

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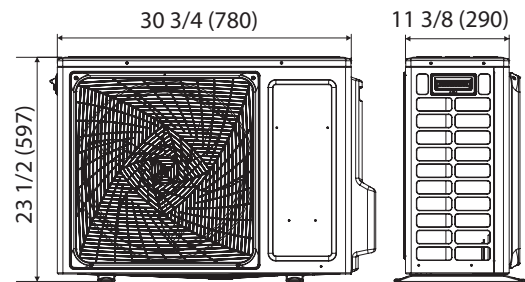
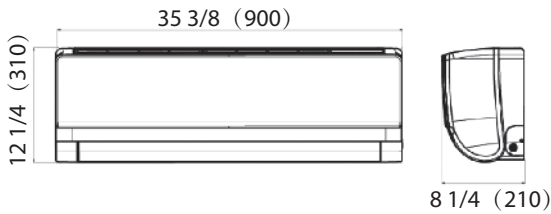


Haier Advanced Series Submittal

9000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U09ES2VHA / AW09ES2VH*

Indoor Unit	
Uncrated Dimension (HxWxD)	12 1/4 x 35 3/8 x 8 1/4 in (310 x 900 x 210 mm)
Crated (HxWxD)	15 3/4 x 39 x 12 3/8 in (399 x 991 x 313 mm)
Airflow CFM (Turbo/High/Med/Low/Quiet)	440/410/350/290/265
Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	44/40/35/31/23
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	30.9/25.4 lbs

Outdoor Unit	
Compressor	DC inverter Driven Rotary
Uncrated Dimension (HxWxD)	23 1/2 x 30 3/4 x 11 3/8 in (597 x 780 x 290 mm)
Crated (HxWxD)	26 3/4 x 36 3/8 x 15 1/2 in (680 x 923 x 393 mm)
Outdoor Sound Rating dB	51
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	84.9/78.3 lbs
Factory Refrigerant Charge	R-410A (38.8 oz)



Heating Capacity Data

Outdoor Air Temp DB	Indoor Set Temperature					
	60°F (16°C)		70°F (21°C)		77°F (25°C)	
	Maximum Heating Capacity (Btu/h)	Power Usage (w)	Max Heating Capacity (Btu/h)	Power Usage (w)	Max Heating Capacity (Btu/h)	Power Usage (w)
-4°F (-20°C)	8,950	1,030	8,850	1,120	7,530	1,210
5°F (-15°C)	10,530	1,080	10,030	1,170	8,950	1,250
17°F (-8°C)	12,600	1,190	11,530	1,220	10,400	1,280
47°F (8°C)	13,920	880	13,130	920	11,710	1,000

Capacity and power usage are measured under the assumption of indoor humidity of 46%

Cooling Capacity Data

Outdoor Air Temp DB	Indoor Set Temperature					
	70°F (21°C)		75°F (24°C)		80°F (27°C)	
	Total Capacity (Btu/h)	Power Usage (w)	Total Capacity (Btu/h)	Power Usage (w)	Total Capacity (Btu/h)	Power Usage (w)
65°F (18°C)	6,150	370	6,350	380	6,550	410
75°F (24°C)	7,530	470	7,750	490	7,900	520
85°F (29°C)	8,640	660	8,850	760	9,130	800
95°F (35°C)	10,230	960	10,540	970	10,770	1,000
105°F (41°C)	7,560	1,060	7,890	1,110	8,150	1,150
115°F (46°C)	6,120	740	6,480	770	6,630	830

Capacity and power usage are measured under the assumption of indoor humidity of 46%

Haier Advanced Series Submittal

12000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U12ES2VHA / AW12ES2VH*

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ship with YR-HG

Wired Thermostat

Compatible with YR-E17[‡]

Compatible with YR-16b[‡]

[‡]AW12ES2VHA requires interface kit WK-A

[‡]AW12ES2VHB requires interface kit WK-B

Electrical Requirement

Power Supply	208/230V, 1 Phase, 60 HZ
Operating Voltage Range	187~253 VAC
Recommended Fuse/Breaker Size	15A
MCA	14A

Operating Range

Cooling	14~115°F (-10~46°C)
Heating	-4~75°F (-20~24°C)

Cooling Performance

Rated Cooling Capacity	12,000 BTU
Cooling Capacity Range	4,100~14,680 BTU
Rated Power input	910 W
SEER	23.0
EER	12.5

Heating Performance

Rated Heating Capacity	16,000 BTU
Heating Capacity Range	4,430~19,800 BTU
HSPF	11.0

Pipe Length

Maximum Pipe Length	50 ft
Maximum Pipe Height Difference	33 ft
Connection	1/4" (Discharge) 3/8" (Suction) Flare

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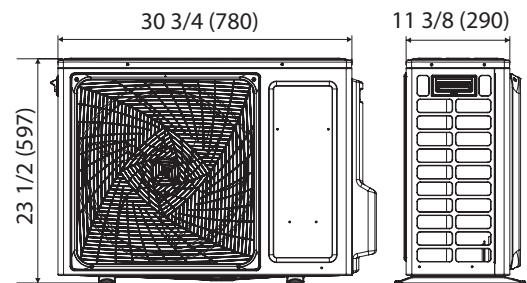
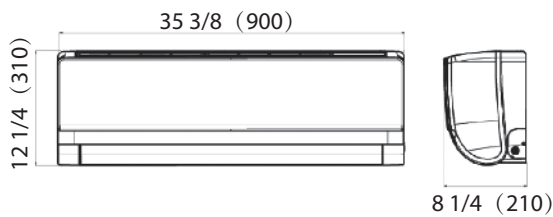


Haier Advanced Series Submittal

12000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U12ES2VHA / AW12ES2VH*

Indoor Unit	
Uncrated Dimension (HxWxD)	12 1/4 x 35 3/8 x 8 1/4 in (310 x 900 x 210 mm)
Crated (HxWxD)	15 3/4 x 39 x 12 3/8 in (399 x 991 x 313 mm)
Airflow CFM (Turbo/High/Med/Low/Quiet)	610/530/440/410/350
Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	45/41/36/32/23
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	30.9/25.4 lbs

Outdoor Unit	
Compressor	DC inverter Driven Rotary
Uncrated Dimension (HxWxD)	23 1/2 x 30 3/4 x 11 3/8 in (597 x 780 x 290 mm)
Crated (HxWxD)	26 3/4 x 36 3/8 x 15 1/2 in (680 x 923 x 393 mm)
Outdoor Sound Rating dB	51
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	84.9/78.3 lbs
Factory Refrigerant Charge	R-410A (38.8 oz)



Heating Capacity Data

Outdoor Air Temp DB	Indoor Set Temperature					
	60°F (16°C)		70°F (21°C)		77°F (25°C)	
	Maximum Heating Capacity (Btu/h)	Power Usage (w)	Max Heating Capacity (Btu/h)	Power Usage (w)	Max Heating Capacity (Btu/h)	Power Usage (w)
-4°F (-20°C)	9,350	1,150	9,560	1,190	8,840	1,280
5°F (-15°C)	11,210	1,200	10,360	1,270	9,780	1,320
17°F (-8°C)	13,250	1,270	12,120	1,350	10,900	1,400
47°F (8°C)	19,770	1,360	18,920	1,450	17,040	1,540

Capacity and power usage are measured under the assumption of indoor humidity of 46%

Cooling Capacity Data

Outdoor Air Temp DB	Indoor Set Temperature					
	70°F (21°C)		75°F (24°C)		80°F (27°C)	
	Total Capacity (Btu/h)	Power Usage (w)	Total Capacity (Btu/h)	Power Usage (w)	Total Capacity (Btu/h)	Power Usage (w)
65°F (18°C)	8,230	510	8,470	530	8,650	550
75°F (24°C)	9,040	580	9,330	610	9,850	630
85°F (29°C)	10,820	920	11,010	960	11,540	1,000
95°F (35°C)	11,960	1,120	12,620	1,170	13,020	1,220
105°F (41°C)	8,830	1,170	9,160	1,220	9,500	1,250
115°F (46°C)	7,320	970	7,460	990	7,750	1,000

Capacity and power usage are measured under the assumption of indoor humidity of 46%

Haier Advanced Series Submittal

18000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U18ES2VHA / AW18ES2VH*

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ship with YR-HG

Wired Thermostat

Compatible with YR-E17[‡]

Compatible with YR-16b[‡]

[‡]AW18ES2VHA requires interface kit WK-A

[‡]AW18ES2VHB requires interface kit WK-B

Electrical Requirement

Power Supply	208/230V, 1 Phase, 60 HZ
Operating Voltage Range	187~253 VAC
Recommended Fuse/Breaker Size	20A
MCA	18A

Operating Range

Cooling	14~115°F (-10~46°C)
Heating	-4~75°F (-20~24°C)

Cooling Performance

Rated Cooling Capacity	17,000 BTU
Cooling Capacity Range	7,000~23,000 BTU
Rated Power input	1,630 W
SEER	21.0
EER	12.6

Heating Performance

Rated Heating Capacity	22,000 BTU
Heating Capacity Range	5,400~26,400 BTU
HSPF	11.0

Pipe Length

Maximum Pipe Length	83 ft
Maximum Pipe Height Difference	50 ft
Connection	1/4" (Discharge) 1/2" (Suction) Flare

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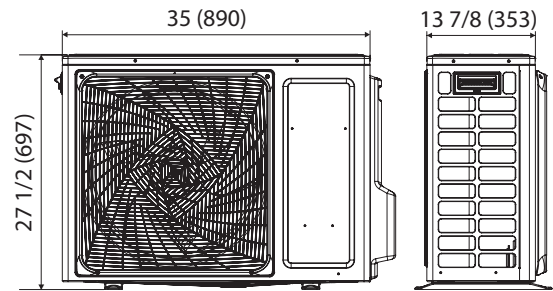
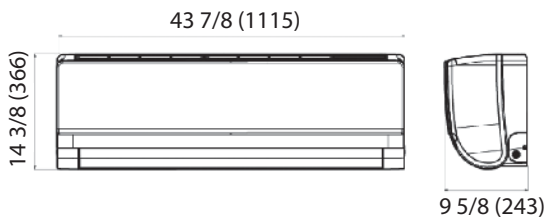


Haier Advanced Series Submittal

18000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U18ES2VHA / AW18ES2VH*

Indoor Unit	
Uncrated Dimension (HxWxD)	14 3/8 x 43 7/8 x 9 5/8 in (366 x 1115 x 243 mm)
Crated (HxWxD)	16 1/2 x 47 1/2 x 13 1/2 in (418 x 1206 x 342 mm)
Airflow CFM (Turbo/High/Med/Low/Quiet)	710/650/560/440/410
Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	48/46/42/36/34
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	43.2/35.3 lbs

Outdoor Unit	
Compressor	DC inverter Driven Rotary
Uncrated Dimension (HxWxD)	27 1/2 x 35 x 13 7/8 in (697 x 890 x 353 mm)
Crated (HxWxD)	30 3/4 x 41 1/8 x 18 1/8 in (780 x 1046 x 460 mm)
Outdoor Sound Rating dB	52
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	105.4/96.6 lbs
Factory Refrigerant Charge	R-410A (52.2 oz)



Heating Capacity Data

Outdoor Air Temp DB	Indoor Set Temperature					
	60°F (16°C)		70°F (21°C)		77°F (25°C)	
	Maximum Heating Capacity (Btu/h)	Power Usage (w)	Max Heating Capacity (Btu/h)	Power Usage (w)	Max Heating Capacity (Btu/h)	Power Usage (w)
-4°F (-20°C)	12,630	1,980	12,350	2,020	11,320	2,040
5°F (-15°C)	15,900	2,060	14,900	2,120	13,330	2,190
17°F (-8°C)	20,230	2,740	19,580	2,170	17,220	2,920
47°F (8°C)	27,600	2,860	26,400	2,900	24,560	2,960

Capacity and power usage are measured under the assumption of indoor humidity of 46%

Cooling Capacity Data

Outdoor Air Temp DB	Indoor Set Temperature					
	70°F (21°C)		75°F (24°C)		80°F (27°C)	
	Total Capacity (Btu/h)	Power Usage (w)	Total Capacity (Btu/h)	Power Usage (w)	Total Capacity (Btu/h)	Power Usage (w)
65°F (18°C)	13,010	740	13,450	770	13,880	800
75°F (24°C)	14,460	760	14,880	800	15,740	840
85°F (29°C)	17,100	1,400	17,760	1,480	18,120	1,540
95°F (35°C)	18,300	1,900	19,140	2,000	20,000	1,900
105°F (41°C)	15,860	1,880	16,330	1,940	16,750	2,000
115°F (46°C)	14,530	1,080	15,840	1,200	14,220	1,250

Capacity and power usage are measured under the assumption of indoor humidity of 46%

Haier Advanced Series Submittal

24000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U24ES2VHA / AW24ES2VH*

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ship with YR-HG

Wired Thermostat

Compatible with YR-E17[‡]

Compatible with YR-16b[‡]

[‡]AW24ES2VHA requires interface kit WK-A

[‡]AW24ES2VHB requires interface kit WK-B

Electrical Requirement

Power Supply	208/230V, 1 Phase, 60 HZ
Operating Voltage Range	187~253 VAC
Recommended Fuse/Breaker Size	30A
MCA	18A

Operating Range

Cooling	14~115°F (-10~46°C)
Heating	-4~75°F (-20~24°C)

Cooling Performance

Rated Cooling Capacity	22,000 BTU
Cooling Capacity Range	6,500~28,600 BTU
Rated Power input	1,760 W
SEER	20.0
EER	12.5

Heating Performance

Rated Heating Capacity	27,700 BTU
Heating Capacity Range	6,800~34,800 BTU
HSPF	10.0

Pipe Length

Maximum Pipe Length	83 ft
Maximum Pipe Height Difference	50 ft
Connection	1/4" (Discharge) 1/2" (Suction) Flare

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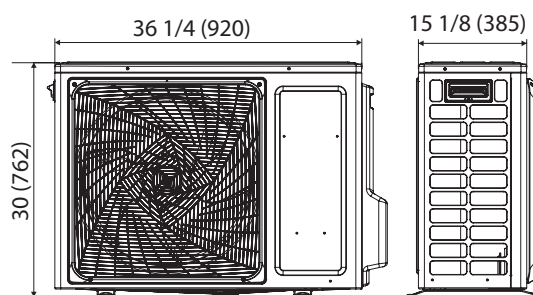
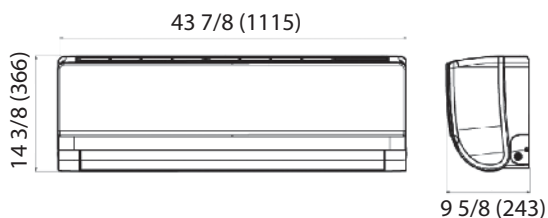


Haier Advanced Series Submittal

24000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U24ES2VHA / AW24ES2VH*

Indoor Unit	
Uncrated Dimension (HxWxD)	14 3/8 x 43 7/8 x 9 5/8 in (366 x 1115 x 243 mm)
Crated (HxWxD)	16 1/2 x 47 1/2 x 13 1/2 in (418 x 1206 x 342 mm)
Airflow CFM (Turbo/High/Med/Low/Quiet)	710/650/560/440/410
Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	49/47/42/36/34
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	45.4/37.5 lbs

Outdoor Unit	
Compressor	DC inverter Driven Rotary
Uncrated Dimension (HxWxD)	30 x 36 1/4 x 15 1/8 in (762 x 920 x 385 mm)
Crated (HxWxD)	33 1/4 x 42 3/4 x 19 1/8 in (843 x 1085 x 487 mm)
Outdoor Sound Rating dB	53
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	134.5/125.7 lbs
Factory Refrigerant Charge	R-410A (74.07 oz)



Heating Capacity Data

Outdoor Air Temp DB	Indoor Set Temperature					
	60°F (16°C)		70°F (21°C)		77°F (25°C)	
	Maximum Heating Capacity (Btu/h)	Power Usage (w)	Max Heating Capacity (Btu/h)	Power Usage (w)	Max Heating Capacity (Btu/h)	Power Usage (w)
-4°F (-20°C)	16,760	2,460	15,350	2,480	14,320	2,510
5°F (-15°C)	21,630	2,660	20,570	2,810	19,260	2,980
17°F (-8°C)	27,570	3,250	26,130	3,400	25,100	3,550
47°F (8°C)	34,490	2,770	32,900	2,920	30,290	3,070

Capacity and power usage are measured under the assumption of indoor humidity of 46%

Cooling Capacity Data

Outdoor Air Temp DB	Indoor Set Temperature					
	70°F (21°C)		75°F (24°C)		80°F (27°C)	
	Total Capacity (Btu/h)	Power Usage (w)	Total Capacity (Btu/h)	Power Usage (w)	Total Capacity (Btu/h)	Power Usage (w)
65°F (18°C)	16,630	960	17,670	1,010	18,190	1,060
75°F (24°C)	16,560	1,100	16,980	1,160	17,370	1,190
85°F (29°C)	18,920	1,580	19,750	1,650	20,320	1,700
95°F (35°C)	21,860	2,300	22,800	2,410	23,700	2,500
105°F (41°C)	14,960	2,410	15,840	2,530	16,370	2,680
115°F (46°C)	12,900	1,810	14,260	1,820	14,600	1,840

Capacity and power usage are measured under the assumption of indoor humidity of 46%