

Haier

Submittals

Arctic Series

Rev. May 2019



1U09EH2VHA / AW09EH2VHA

1U12EH2VHA / AW12EH2VHA

1U18EH2VHA / AW18EH2VHA



GE APPLIANCES
a Haier company

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www.Haierductless.com
www.Haierductlesshelp.com



Revision History

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

Rev. April 2018 - *Minimum pipe length, motor rating added.*

Rev. May 2019 - *Accessories & electrical requirement update.*

Haier Arctic Series Submittal

9000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U09EH2VHA / AW09EH2VHA

Job Name: _____
 Purchaser: _____
 Submitted To: _____
 Construction: _____
 Reference: _____

Approval: _____
 Date: _____
 Submitted By: _____
 Unit: _____
 Drawing #: _____



Accessories

Remote Controller

Ships with YR-HG

Wired Controller

Compatible with wired controllers YR-E17, YR-E16B, and QACT17A. All wired controllers require interface kit WK-B

WiFi

Compatible with WiFi adapter QAWF01A

Wind Baffle

Uses wind baffle QAWB39A

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

Connecting cable to indoor units must be 14/4 AWG unshielded stranded copper. Cable must be ran continuous, without splicing.

Operating Range	
Cooling	14~115°F (-10~46°C)
Heating	-22~75°F (-30~25°C)

Cooling Performance	
Rated Cooling Capacity	9,000 BTU
Cooling Capacity Range	3,100~12,000 BTU
Rated Power input	595 W
SEER	28.0
EER	15.5

Heating Performance	
Rated Heating Capacity	12,000 BTU
Heating Capacity Range	3,100~22,000 BTU
HSPF	13.0

Pipe Length	
Minimum Pipe Length	6 ft
Maximum Pipe Length	66 ft
Maximum Pipe Height Difference	50 ft
Connection	1/4" (Discharge) 3/8" (Suction) Flare



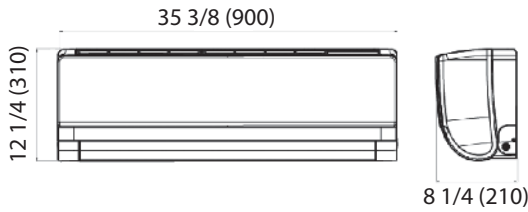
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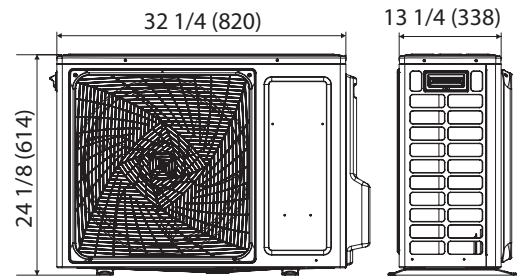
Haier Arctic Series Submittal

9000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U09EH2VHA / AW09EH2VHA

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)	470/410/350/290/230
Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	42/39/37/28/23
Motor Rating (HP)	0.054
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	30.9/ 25.4 lbs



Outdoor Unit	
Compressor	DC inverter Driven Rotary
Uncrated Dimension (HxWxD)	24 1/8 x 32 1/4 x 13 1/4 in (614 x 820 x 338 mm)
Crated (HxWxD)	30 3/8 x 39 x 16 3/8 in (770 x 992 x 415 mm)
Outdoor Sound Rating dB	53
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	94.8/84.9 lbs
Factory Refrigerant Charge	R-410A (51.5 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)
-22°F (-30°C)	10,910	1,630	10,800	1,750	10,040	1,820
-15°F (-26°C)	11,420	1,650	11,200	1,760	10,300	1,830
-4°F (-20°C)	12,710	1,670	12,220	1,780	11,490	1,870
5°F (-15°C)	12,990	1,700	12,370	1,810	11,750	1,920
17°F (-8°C)	13,200	1,420	12,450	1,510	11,950	1,600
47°F (8°C)	13,520	930	12,520	1,010	11,520	1,090

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)	8,590	600	8,870	610	9,540	630
75°F (24°C)	9,250	630	9,560	650	10,280	670
85°F (29°C)	10,160	670	10,500	680	11,290	700
95°F (35°C)	8,790	700	9,080	720	9,770	740
105°F (41°C)	8,340	740	8,620	750	9,270	780
115°F (46°C)	5,970	390	6,170	400	6,630	420

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

Haier Arctic Series Submittal

12000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U12EH2VHA / AW12EH2VHA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with YR-HG

Wired Controller

Compatible with wired controllers YR-E17, YR-E16B, and QACT17A. All wired controllers require interface kit WK-B

WiFi

Compatible with WiFi adapter QAWF01A

Wind Baffle

Uses wind baffle QAWB39A



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Electrical Requirement

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

Connecting cable to indoor units must be 14/4 AWG unshielded stranded copper. Cable must be ran continuous, without splicing.

Operating Range

Cooling	14~115°F (-10~46°C)
Heating	-22~75°F (-30~25°C)

Cooling Performance

Rated Cooling Capacity	12,000 BTU
Cooling Capacity Range	3,100~13,600 BTU
Rated Power input	890 W
SEER	25.0
EER	13.0

Heating Performance

Rated Heating Capacity	16,500 BTU
Heating Capacity Range	3,100~22,000 BTU
HSPF	12.0

Pipe Length

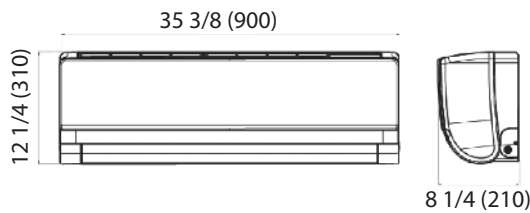
Minimum Pipe Length	6 ft
Maximum Pipe Length	66 ft
Maximum Pipe Height Difference	50 ft
Connection	1/4" (Discharge) 3/8" (Suction) Flare



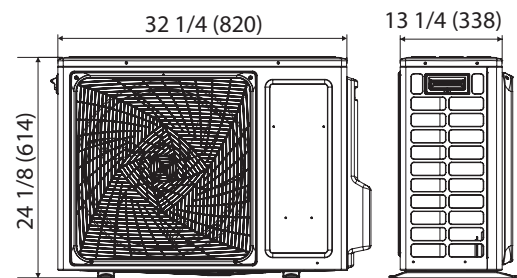
Haier Arctic Series Submittal

12000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U12EH2VHA / AW12EH2VHA

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)	440/410/380/311/260
Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	42/39/37/28/23
Motor Rating (HP)	0.054
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	30.9/25.4 lbs



Outdoor Unit	
Compressor	DC inverter Driven Rotary
Uncrated Dimension (HxWxD)	24 1/8 x 32 1/4 x 13 1/4 in (614 x 820 x 338 mm)
Crated (HxWxD)	30 3/8 x 39 x 16 3/8 in (770 x 992 x 415 mm)
Outdoor Sound Rating dB	53
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	95.9/86.0 lbs
Factory Refrigerant Charge	R-410A (51.5 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)
-22°F (-30°C)	12,320	2,060	12,200	2,210	11,350	2,300
-15°F (-26°C)	14,180	2,270	13,900	2,420	12,790	2,520
-4°F (-20°C)	15,810	2,330	15,200	2,480	14,290	2,600
5°F (-15°C)	17,340	2,070	16,510	2,200	15,680	2,330
17°F (-8°C)	17,850	2,100	16,840	2,230	16,170	2,360
47°F (8°C)	18,170	1,380	16,820	1,500	15,470	1,620

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)	10,250	930	10,590	950	11,390	980
75°F (24°C)	11,740	990	12,130	1,020	13,040	1,050
85°F (29°C)	12,830	050	13,260	1,070	14,260	1,110
95°F (35°C)	11,720	110	12,110	1,130	13,020	1,160
105°F (41°C)	11,120	160	11,490	1,190	12,360	1,220
115°F (46°C)	7,960	620	8,230	630	8,850	650

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

Haier Arctic Series Submittal

18000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U18EH2VHA / AW18EH2VHA

Job Name: _____
 Purchaser: _____
 Submitted To: _____
 Construction: _____
 Reference: _____

Approval: _____
 Date: _____
 Submitted By: _____
 Unit: _____
 Drawing #: _____



Accessories

Remote Controller

Ships with YR-HG

Wired Controller

Compatible with wired controllers YR-E17, YR-E16B, and QACT17A. All wired controllers require interface kit WK-B

WiFi

Compatible with WiFi adapter QAWF01A

Wind Baffle

Uses wind baffle QAWB45A

Electrical Requirement	
Power Supply	208/230V, 1 Phase, 60 HZ
Operating Voltage Range	187~253 VAC
Recommended Fuse/Breaker Size	25A
MCA	18A

Connecting cable to indoor units must be 14/4 AWG unshielded stranded copper. Cable must be ran continuous, without splicing.

Operating Range	
Cooling	14~115°F (-10~46°C)
Heating	-22~75°F (-30~25°C)

Cooling Performance	
Rated Cooling Capacity	19,000 BTU
Cooling Capacity Range	6,500~23,200 BTU
Rated Power input	1,520 W
SEER	20.0
EER	12.5

Heating Performance	
Rated Heating Capacity	20,400 BTU
Heating Capacity Range	5,400~26,400 BTU
HSPF	10.0

Pipe Length	
Minimum Pipe Length	6 ft
Maximum Pipe Length	83 ft
Maximum Pipe Height Difference	50 ft
Connection	1/4"(Discharge) 1/2"(Suction) Flare



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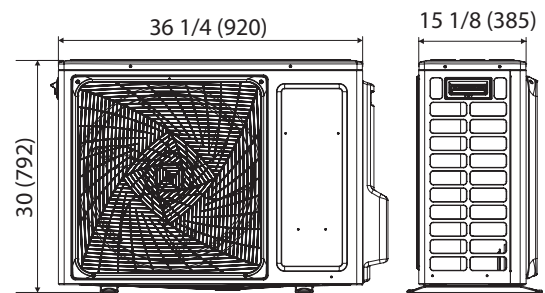
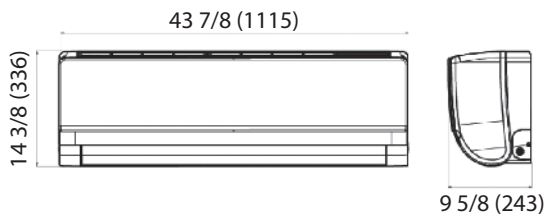


Haier Arctic Series Submittal

18000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U18EH2VHA / AW18EH2VHA

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
Motor Rating (HP)	0.094
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 792 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	54
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	135.6/126.8 lbs
Factory Refrigerant Charge	R-410A (74.1 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)
-22°F (-30°C)	15,350	2,330	15,200	2,500	14,440	2,600
-15°F (-26°C)	17,240	2,720	16,900	2,900	15,550	3,010
-4°F (-20°C)	19,240	2,780	18,500	2,960	17,390	3,100
5°F (-15°C)	21,450	2,420	20,430	2,570	19,410	2,720
17°F (-8°C)	21,780	2,460	20,550	2,620	19,730	2,780
47°F (8°C)	22,410	1,830	20,750	1,990	19,090	2,150

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)	16,950	1,670	17,510	1,710	18,830	1,760
75°F (24°C)	18,370	1,640	18,990	1,680	20,420	1,730
85°F (29°C)	19,650	1,740	20,310	1,770	21,840	1,830
95°F (35°C)	18,550	1,830	19,170	1,870	20,620	1,920
105°F (41°C)	17,610	1,920	18,190	1,960	19,560	2,020
115°F (46°C)	12,610	1,030	13,030	1,050	14,010	1,080

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