

Haier

Submittals

Next Gen Arctic Series

Rev. April 2020



1U09EH2VHD / AW09EH2VHD

1U12EH2VHD / AW12EH2VHD

1U18EH2VHD / AW18EH2VHD



For more information visit us:
www.Haierductless.com
www.Haierductlesshelp.com

Revision History

Rev. April 2020 - *Submittal edition release.*

Haier Next Gen Arctic Series Submittal

9000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U09EH2VHD / AW09EH2VHD

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with YR-HQ

Wired Controller

Compatible with wired controllers YR-E17, YR-E16B, and QACT17A.

Wind Baffle

Uses wind baffle QAWB37A

Built-in Features

- WK-B wired controller adapter
- WiFi
- Occupancy sensor



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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	13A

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	-31~75°F (-35~24°C)

Cooling Performance

Rated Cooling Capacity	9,000 BTU
Cooling Capacity Range	3,100~12,000 BTU
Rated Power input	550 W
SEER	30.0
EER	16.0
Moisture Removal	2.5 Pt./h

Heating Performance

Rated Heating Capacity	10,000 BTU
Heating Capacity Range	3,100~20,000 BTU
Rated Power Input	845 W
HSPF	15.2

Pipe Length

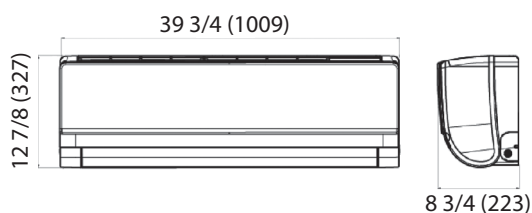
Minimum Pipe Length	6 ft
Maximum Pipe Length	50 ft
Maximum Pipe Height Difference	33 ft
Flare Connection	1/4" (Discharge) 1/2" (Suction)



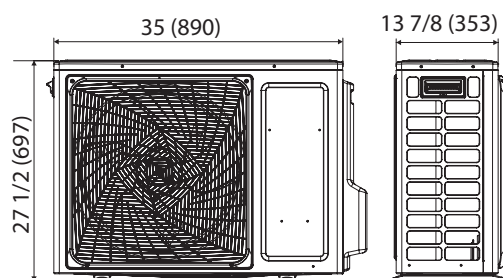
Haier Next Gen Arctic Series Submittal

9000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U09EH2VHD / AW09EH2VHD

Indoor Unit	
Uncrated Dimension (HxWxD)	12 7/8 x 39 3/4 x 8 3/4 in (327 x 1009 x 223 mm)
Crated (HxWxD)	16 x 42 3/4 x 11 5/8 in (405 x 1085 x 296 mm)
Airflow CFM (Turbo/High/Med/Low/Quiet)	583/383/324/264/240
Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	45/37/34/31/28
Motor Rating (HP)	0.04
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	35.7/27.8 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)	31 1/2 x 41 1/8 x 18 1/8 in (800 x 1046 x 460 mm)
Outdoor Sound Rating dB	54
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	115.5/98.3 lbs
Factory Refrigerant Charge	R-410A (56.8 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)
-31° (-35°)	3,050	1,180	3,200	1,300	3,250	1,370
-22° (-30°)	7,100	1,230	7,400	1,350	7,530	1,410
-15° (-26°)	8,260	1,380	8,600	1,480	8,750	1,520
-4° (-20°)	10,100	1,570	10,500	1,660	10,700	1,710
5° (-15°)	11,500	1,590	12,000	1,670	12,250	1,740
17° (-8°)	12,900	1,500	13,500	1,550	13,750	1,610
47° (8°)	15,400	1,480	16,000	1,520	16,300	1,570

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)
14° (-10°)	6,700	610	6,500	540	6,200	480
65° (18°)	8,000	700	7,740	670	7,380	620
75° (24°)	9,450	830	9,150	800	8,940	780
85° (29°)	11,650	950	11,050	910	10,500	860
95° (35°)	13,000	1,080	12,200	1,000	11,500	960
105° (41°)	11,700	1,120	11,100	1,060	10,600	1,010
115° (46°)	10,060	1,050	9,600	990	9,150	930

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

Haier Next Gen Arctic Series Submittal

12000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U12EH2VHD / AW12EH2VHD

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with YR-HQ

Wired Controller

Compatible with wired controllers YR-E17, YR-E16B, and QACT17A.

Wind Baffle

Uses wind baffle QAWB37A

Built-in Features

- WK-B wired controller adapter
- WiFi
- Occupancy sensor



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Electrical Requirement

Power Supply	208/230V, 1 Phase, 60 HZ
Operating Voltage Range	187~253 VAC
Recommended Fuse/Breaker Size	20A
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	-31~75°F (-35~24°C)

Cooling Performance

Rated Cooling Capacity	12,000 BTU
Cooling Capacity Range	3,100~15,000 BTU
Rated Power input	1,400 W
SEER	27.0
EER	15.0
Moisture Removal	3.4 Pt./h

Heating Performance

Rated Heating Capacity	14,500 BTU
Heating Capacity Range	3,100~22,000 BTU
Rated Power Input	845 W
HSPF	13.0

Pipe Length

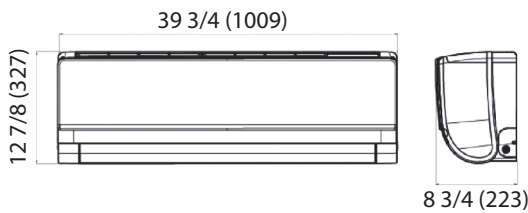
Minimum Pipe Length	6 ft
Maximum Pipe Length	50 ft
Maximum Pipe Height Difference	33 ft
Flare Connection	1/4" (Discharge) 1/2" (Suction)



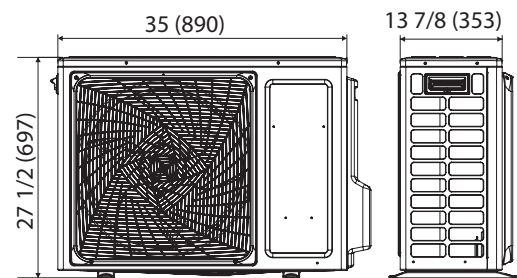
Haier Next Gen Arctic Series Submittal

12000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U12EH2VHD / AW12EH2VHD

Indoor Unit	
Uncrated Dimension (HxWxD)	12 7/8 x 39 3/4 x 8 3/4 in (327 x 1009 x 223 mm)
Crated (HxWxD)	16 x 42 3/4 x 11 5/8 in (405 x 1085 x 296 mm)
Airflow CFM (Turbo/High/Med/Low/Quiet)	597/524/430/344/324
Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	47/41/38/35/29
Motor Rating (HP)	0.04
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	35.7/27.8 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)	31 1/2 x 41 1/8 x 18 1/8 in (800 x 1046 x 460 mm)
Outdoor Sound Rating dB	54
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	124.8/107.6 lbs
Factory Refrigerant Charge	R-410A (62.1 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)
-31° (-35°)	5,150	1,900	5,400	1,950	5,500	2,020
-22° (-30°)	11,850	1,980	12,400	2,030	12,650	2,140
-15° (-26°)	13,900	2,190	14,500	2,280	14,800	2,340
-4° (-20°)	14,850	2,770	15,500	2,840	15,800	2,910
5° (-15°)	16,350	2,080	17,000	2,160	17,400	2,200
17° (-8°)	18,500	1,560	19,300	1,690	19,700	1,760
47° (8°)	22,100	1,520	23,000	1,600	23,450	1,670

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)
14° (-10°)	7,300	530	450	7,050	6,650	420
65° (18°)	9,600	980	9,250	930	8,750	880
75° (24°)	10,650	1,030	10,350	990	10,000	950
85° (29°)	12,250	1,210	12,450	1,170	11,650	1,130
95° (35°)	14,000	1,500	13,300	1,460	12,650	1,400
105° (41°)	12,750	1,550	12,150	1,490	11,600	1,410
115° (46°)	10,650	1,410	10,150	1,380	9,650	1,320

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

Haier Next Gen Arctic Series Submittal

18000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U18EH2VHD / AW18EH2VHD

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with YR-HQ

Wired Controller

Compatible with wired controllers YR-E17, YR-E16B, and QACT17A.

Wind Baffle

Uses wind baffle QAWB45A

Built-in Features

- WK-B wired controller adapter
- WiFi
- Occupancy sensor



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Electrical Requirement

Power Supply	208/230V, 1 Phase, 60 HZ
Operating Voltage Range	187~253 VAC
Recommended Fuse/Breaker Size	30A
MCA	20A

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	-31~75°F (-35~24°C)

Cooling Performance

Rated Cooling Capacity	18,000 BTU
Cooling Capacity Range	8,500~21,000 BTU
Rated Power input	1,358 W
SEER	23.0
EER	13.0
Moisture Removal	4.2 Pt./h

Heating Performance

Rated Heating Capacity	20,000 BTU
Heating Capacity Range	8,700~27,000 BTU
Rated Power Input	1,920 W
HSPF	12.0

Pipe Length

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

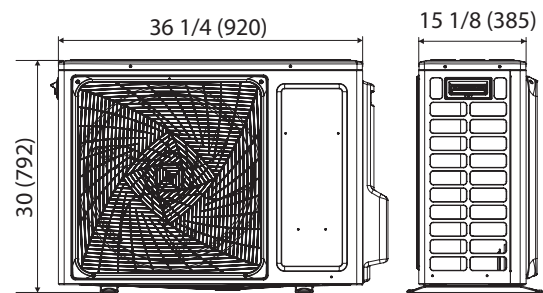
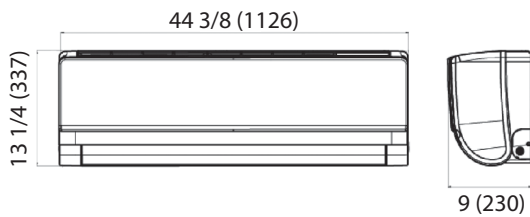


Haier Next Gen Arctic Series Submittal

18000 BTU/HR WALL MOUNTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U18EH2VHD / AW18EH2VHD

Indoor Unit	
Uncrated Dimension (HxWxD)	13 1/4 x 44 3/8 x 9 in (337 x 1126 x 230 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)	636/541/436/330/259
Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	47/41/38/35/29
Motor Rating (HP)	0.07
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	45.2/36.6 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)	34 x 42 3/4 x 19 1/8 in (863 x 1085 x 487 mm)
Outdoor Sound Rating dB	52
Heat Exchanger Fin Type	Blue Fin
Weight (Ship/Net)	154.3/133.4 lbs
Factory Refrigerant Charge	R-410A (82.9 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)
-31° (-35°)	7,050	3,010	7,400	3,070	7,500	3,310
-22° (-30°)	16,450	2,870	17,200	2,950	17,450	3,200
-15° (-26°)	19,150	3,580	20,000	3,760	20,300	3,820
-4° (-20°)	21,000	3,880	22,000	3,980	22,450	4,010
5° (-15°)	23,950	3,150	25,000	3,230	25,400	3,260
17° (-8°)	20,110	2,260	21,000	2,320	21,450	2,360
47° (8°)	24,950	2,490	26,000	2,580	26,500	2,640

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)
14° (-10°)	17,800	1,490	17,000	1,420	16,650	1,390
65° (18°)	15,300	1,010	14,600	950	14,300	890
75° (24°)	18,000	1,260	17,200	1,210	16,400	1,160
85° (29°)	21,000	1,630	20,000	1,570	19,100	1,510
95° (35°)	23,000	1,860	21,850	1,800	20,850	1,740
105° (41°)	20,750	1,740	19,750	1,680	18,650	1,620
115° (46°)	17,600	1,670	16,700	1,590	15,900	1,520

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