

Next Gen Arctic Series

Single Zone Systems





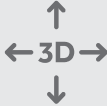











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Our premier Arctic Series inverter heat pumps can effectively reduce your energy costs while maintaining an ideal comfort level. The integration of Haier HeatPlus technology provides exceptional year-round comfort with 100% rated heating capacity at 5°F and comfortably warm air down to -31°F.

Key Features

- 
DC INVERTER
 A-PAM DC INVERTER
 Latest high efficiency DC inverter technology
- 
-31°F HEATING
 Low ambient heating down to -31°F (-35°C).
- 
BASE PAN HEATER
 Prevents condensate water from accumulating in the outdoor unit in extremely cold temperatures
- 
100% HEATING AT 5°F (-15°C)
 Provides 100% heating at low ambient 5°F (-15°C)
- 
3-D AIR FLOW
 Delivers air vertically and horizontally for even distribution throughout the room
- 
SMART SENSOR
 Automatically changes to an energy-saving temperature while you are away, then back to your regular setting when you return.
- 
EASY INSTALLATION CLIP
 Built-in bracket allows more room to install and service
- 
BLUE FIN
 A hydrophilic aluminum fin, ensures condensing water flows smoothly
- 
QUIET MODE
 Minimizes indoor noise while maintaining comfort levels
- 
60+ FT LONG DISTANCE AIR SUPPLY
 Optimized fan motor and blower design enables up to 60 feet of air flow
- 
WARM START
 Ensures the fan will not blow cold air during heating mode startup
- 
2-WAY PIPING DRAIN
 Right or left side drain configuration simplifies installation
- 
TURBO MODE
 Cools or heats the room quickly
- 
AUTO LOUVER
 Adjusts airflow upward when cooling, or downward when heating

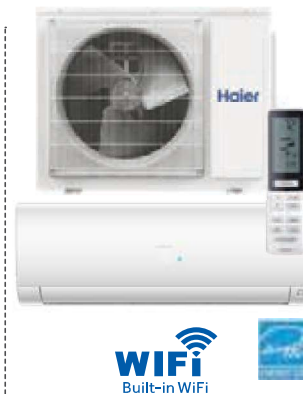
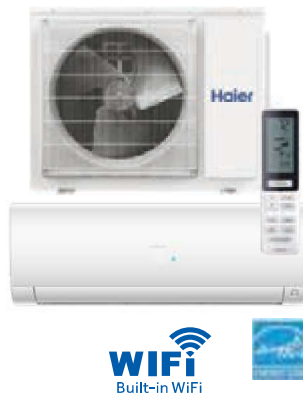
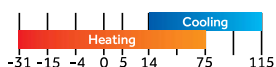
Highwall Systems

Specifications

Compressor Type:
DC Inverter Driven Rotary

Voltage/Cycle/Phase:
208-230/60/1

Operating Range (°F):



	09EHAW	12EHAW	18EHAW
Outdoor	1U09EH2VHD/1U09EH2VHE		
UPC	0-84691-85044-1/0-84691-85903-1	0-84691-85046-5/0-84691-85904-8	0-84691-85048-9/0-84691-85905-5
Indoor	AW09EH2VHD		
UPC	0-84691-85043-4	0-84691-85045-8	0-84691-85047-2
Cooling			
Rated Capacity Btu/hr	9,000	12,000	18,000
Capacity Range Btu/hr	3,100 - 12,000	3,100 - 15,000	8,500 - 21,000
Rated Power Input W	560	800	1,385
SEER/EER	30/16.0	27/15.0	23/13.0
Moisture Removal Pt./hr	2.50	3.40	4.20
Heating			
Heating Capacity Range Btu/hr	3,100 - 20,000	3,100 - 22,000	8,700 - 27,000
Rated Heating Capacity 47°F Btu/hr	10,000	14,500	20,000
COP	3.7	4.3	3.7
Max. Heating Capacity 5°F Btu/hr	12,000	17,000	20,000
Max. Heating Capacity -4°F Btu/hr	10,500	15,500	18,000
Max. Heating Capacity -15°F Btu/hr	8,600	14,500	16,000
Max. Heating Capacity -22°F Btu/hr	7,400	12,400	14,000
Rated Power Input W	845	1,400	1,920
HSPF	15.2	13.0	12.0
Outdoor Unit			
Maximum Fuse Size A	15	20	30
Minimum Circuit Amp A	13	14	20
Outdoor Noise Level dB	54	54	52
Dimension: Height in (mm)	27 1/2 (697)	27 1/2 (697)	30 (762)
Dimension: Width in (mm)	35 (890)	35 (890)	36 1/4 (920)
Dimension: Depth in (mm)	13 7/8 (353)	13 7/8 (353)	15 1/8 (385)
Weight Ship/Net - lbs (kg)	115.5/98.3 (52.4/44.6)	124.8/107.6 (56.6/48.8)	154.3/133.4 (70/60.5)
Indoor Unit			
Fan Speed Stages	5 + Auto	5 + Auto	5 + Auto
Indoor Sound Level dB (Turbo/High/ Med/Low/Quiet)	45/37/34/31/25	46/42/37/31/27	47/41/38/35/29
Dimension: Height in (mm)	12 7/8 (327)	12 7/8 (327)	13 1/4 (337)
Dimension: Width in (mm)	39 3/4 (1009)	39 3/4 (1009)	44 3/8 (1126)
Dimension: Depth in (mm)	8 3/4 (223)	8 3/4 (223)	9 1/16 (230)
Weight Ship/Net - lbs (kg)	35.7/27.8 (16.2/12.6)	35.7/27.8 (16.2/12.6)	45.2/36.6 (20.5/16.6)
Refrigerant Lines			
Connections	Flare	Flare	Flare
Liquid O.D. in	1/4	1/4	1/4
Suction O.D. in	1/2	1/2	1/2
Factory Charge Oz	56.8	62.1	82.9
Maximum Line Length Ft / m	50/15	50/15	83/25
Maximum Height Ft / m	33/10	33/10	50/15

*The Next Gen Arctic Series will continuously operate at -31°F(-35°C).

Next Gen Arctic Series

Single Zone Systems



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Key Features

DC INVERTER
A-PAM DC INVERTER
Latest high efficiency DC inverter technology



-31°F HEATING
Low ambient heating down to -31°F (-35°C).



BASE PAN HEATER
Prevents condensate water from accumulating in the outdoor unit in extremely cold temperatures



100% HEATING AT 5°F (-15°C)
Provides 100% heating at low ambient 5°F (-15°C)



COMPACT DESIGN
Less than 10" height saves ceiling space



CONDENSATE PUMP
Built-in condensate pump included standard



0.6" wg EXTERNAL STATIC
Designed for static pressure up to 0.6" wg



BLUE FIN
A hydrophilic aluminum fin, ensures condensing water flows smoothly



OPTIONAL MERV FILTER BOX AND SUPPLY PLENUM
Accessories available for MSP duct model for easy installation



AUX HEATER COMPATIBLE
Compatible with 3rd party auxiliary heaters



WARM START
Ensures the fan will not blow cold air during heating mode startup



FRESH AIR
Unit design includes 4" round fresh air knock-out



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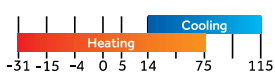
Mid-Static Ducted Systems

Specifications

Compressor Type:
DC Inverter Driven Rotary

Voltage/Cycle/Phase:
208-230/60/1

Operating Range (°F):



	09EHYM	12EHYM	18EHYM	
Outdoor	1U09EH2VHE	1U12EH2VHE	1U18EH2VHE	
UPC	0-84691-85903-1	0-84691-85904-8	0-84691-85905-5	
Indoor	USYM09UCDSA	USYM12UCDSA	USYM18UCDSA	
UPC	0-84691-85155-4	0-84691-85156-1	0-84691-85157-8	
Cooling	Rated Capacity Btu/hr	9,000	12,000	18,000
	Capacity Range Btu/hr	3,100 - 12,000	3,100 - 13,600	6,500 - 23,200
	Rated Power Input W	710	950	1,560
	SEER/EER	21/12.5	20/12.5	19/11.5
	Moisture Removal Pt./hr	2.50	3.20	3.80
Heating	Heating Capacity Range Btu/hr	3,100 - 18,000	3,100 - 21,000	5,100 - 24,000
	Rated Heating Capacity 47°F Btu/hr	10,000	14,500	20,000
	COP	2.95	3.3	3.5
	Max. Heating Capacity 5°F Btu/hr	10,000	12,000	19,000
	Max. Heating Capacity -22°F Btu/hr	5,000	6,000	13,000
	Rated Power Input W	910	1,500	1,900
	HSPF	11.0	10.5	10.0
Outdoor Unit	Maximum Fuse Size A	15	20	30
	Minimum Circuit Amp A	13	14	20
	Outdoor Noise Level dB	54	54	52
	Dimension: Height in (mm)	27 1/2 (697)	27 1/2 (697)	30 (762)
	Dimension: Width in (mm)	35 (890)	35 (890)	36 1/4 (920)
	Dimension: Depth in (mm)	13 7/8 (353)	13 7/8 (353)	15 1/8 (385)
	Weight Ship/Net - lbs (kg)	115.5/98.3 (52.4/44.6)	124.8/107.6 (56.6/48.8)	154.3/133.4 (70/60.5)
Indoor Unit	Airflow CFM (Turbo/High/Med/Low/Quiet)	424/353/294/235/176	494/424/353/294/235	735/635/541/470/400
	Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	44/41/38/35/32	47/44/41/38/35	48/45/42/39/36
	Drain Pipe Size O.D in	1 1/4	1 1/4	1 1/4
	Dimension: Height in (mm)	9.7 (248)	9.7 (248)	9.7 (248)
	Dimension: Width in (mm)	27.5 (700)	27.5 (700)	43.3 (1100)
	Dimension: Depth in (mm)	27.5 (700)	27.5 (700)	27.5 (700)
	Weight Ship/Net - lbs (kg)	90.4/63.1 (41/28.6)	90.4/63.1 (41/28.6)	121.3/89.3 (55/40.5)
	Max. External Static Pressure in.WG (Pa)	0.6 (150)	0.6 (150)	0.6 (150)
	Condensate Pump	Standard	Standard	Standard
	Max. Drain-lift height in (mm)	39 (1000)	39 (1000)	39 (1000)
Refrigerant Lines	Connections	Flare	Flare	Flare
	Liquid O.D. in	1/4	1/4	1/4
	Suction O.D. in	3/8 (Use 1/2 x 3/8 adapter shipped with outdoor unit)	3/8 (Use 1/2 x 3/8 adapter shipped with outdoor unit)	1/2
	Factory Charge Oz	56.8	62.1	82.9
	Maximum Line Length Ft / m	50/15	50/15	83/25
	Maximum Height Ft / m	33/10	33/10	50/15

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Key Features

- 
DC INVERTER
A-PAM DC INVERTER
 Latest high efficiency DC inverter technology
- 
-31°F HEATING
 Low ambient heating down to -31°F (-35°C).
- 
BASE PAN HEATER
 Prevents condensate water from accumulating in the outdoor unit in extremely cold temperatures
- 
100% HEATING AT 5°F (-15°C)
 Provides 100% heating at low ambient 5°F (-15°C)
- 
ULTRA QUIET
 Operating noise levels as low as 20dB(A)
- 
AIRFLOW DIRECTION CONTROL
 Allows user to select preferred airflow direction
- 
WARM START
 Ensures the fan will not blow cold air during heating mode startup
- 
BLUE FIN
 A hydrophilic aluminum fin, ensures condensing water flows smoothly
- 
TURBO MODE
 Cools or heats the room quickly
- 
ROOM TEMPERATURE DISPLAY
 Easy-to-read dual seven segment display on the front panel



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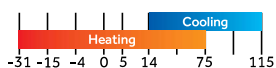
Console Systems

Specifications

Compressor Type:
DC Inverter Driven Rotary

Voltage/Cycle/Phase:
208-230/60/1

Operating Range (°F):



	09EHYF	12EHYF	18EHYF
Outdoor	1U09EH2VHE	1U12EH2VHE	1U18EH2VHE
UPC	0-84691-85903-1	0-84691-85904-8	0-84691-85905-5
Indoor	USYF09UCDWA	USYF12UCDWA	USYF18UCDWA
UPC	0-84691-85152-3	0-84691-85153-0	0-84691-85154-7
Cooling			
Rated Capacity Btu/hr	9,000	11,500	14,800
Capacity Range Btu/hr	3,100 - 12,000	3,100 - 13,600	6,500 - 18,000
Rated Power Input W	810	910	1,470
SEER/EER	20/11.0	20/12.5	18/10.0
Moisture Removal Pt./hr	2.50	3.20	3.80
Heating			
Heating Capacity Range Btu/hr	3,100 - 18,000	3,100 - 21,000	5,100 - 20,000
Rated Heating Capacity 47°F Btu/hr	10,000	12,500	17,800
COP	2.46	2.86	2.18
Max. Heating Capacity 5°F Btu/hr	9,000	10,000	15,000
Max. Heating Capacity -22°F Btu/hr	4,000	4,000	9,000
Rated Power Input W	1,010	1,480	2,400
HSPF	10.0	10.0	9.0
Outdoor Unit			
Maximum Fuse Size A	15	20	30
Minimum Circuit Amp A	13	14	20
Outdoor Noise Level dB	54	54	52
Dimension: Height in (mm)	27 1/2 (697)	27 1/2 (697)	30 (762)
Dimension: Width in (mm)	35 (890)	35 (890)	36 1/4 (920)
Dimension: Depth in (mm)	13 7/8 (353)	13 7/8 (353)	15 1/8 (385)
Weight Ship/Net - lbs (kg)	115.5/98.3 (52.4/44.6)	124.8/107.6 (56.6/48.8)	154.3/133.4 (70/60.5)
Indoor Unit			
Airflow CFM (Turbo/High/Med/Low/Quiet)	264/235/205/176/147	294/264/235/205/176	341/311/282/252/223
Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	40/36/32/25/20	42/38/34/26/21	46/42/37/33/28
Drain Pipe Size O,D in	5/8	5/8	5/8
Dimension: Height in (mm)	23.6 (600)	23.6 (600)	23.6 (600)
Dimension: Width in (mm)	27.5 (700)	27.5 (700)	27.5 (700)
Dimension: Depth in (mm)	8.3 (210)	8.3 (210)	8.3 (210)
Weight Ship/Net - lbs (kg)	43.4/36.4 (19.7/16.5)	43.4/36.4 (19.7/16.5)	43.4/36.4 (19.7/16.5)
Refrigerant Lines			
Connections	Flare	Flare	Flare
Liquid O.D. in	1/4	1/4	1/4
Suction O.D. in	3/8 (Use 1/2 x 3/8 adapter shipped with outdoor unit)	3/8 (Use 1/2 x 3/8 adapter shipped with outdoor unit)	1/2
Factory Charge Oz	56.8	62.1	82.9
Maximum Line Length Ft / m	50/15	50/15	83/25
Maximum Height Ft / m	33/10	33/10	50/15

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Next Gen Arctic Series

Single Zone Systems



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Key Features

- | | |
|---|---|
| <p>DC INVERTER</p> <p>A-PAM DC INVERTER
Latest high efficiency DC inverter technology</p> | <p>-31°F HEATING</p> <p>Low ambient heating down to -31°F (-35°C).</p> |
| <p>BASE PAN HEATER</p> <p>Prevents condensate water from accumulating in the outdoor unit in extremely cold temperatures</p> | <p>100% HEATING AT 5°F (-15°C)</p> <p>Provides 100% heating at low ambient 5°F (-15°C)</p> |
| <p>CONDENSATE PUMP</p> <p>Built-in condensate pump included standard</p> | <p>FRESH AIR</p> <p>Unit design includes 4" round fresh air knock-out</p> |
| <p>QUIET MODE</p> <p>Minimizes indoor noise while maintaining comfort levels</p> | <p>BLUE FIN</p> <p>A hydrophilic aluminum fin, ensures condensing water flows smoothly</p> |
| <p>WARM START</p> <p>Ensures the fan will not blow cold air during heating mode startup</p> | <p>TURBO MODE</p> <p>Cools or heats the room quickly</p> |



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NextGen
Arctic
SERIES

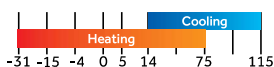
Compact Cassette Systems

Specifications

Compressor Type:
DC Inverter Driven Rotary

Voltage/Cycle/Phase:
208-230/60/1

Operating Range (°F):



	09EHAB	12EHAB	18EHAB
Outdoor	1U09EH2VHE	1U12EH2VHE	1U18EH2VHE
UPC	0-84691-85903-1	0-84691-85904-8	0-84691-85905-5
Indoor	AB09SC2VHA	AB12SC2VHA	AB18SC2VHA
UPC	6-88057-40546-9	6-88057-40547-6	6-88057-40548-3
Cooling			
Rated Capacity Btu/hr	9,000	12,000	17,000
Capacity Range Btu/hr	3,100 - 12,000	3,100 - 13,600	6,500 - 20,000
Rated Power Input W	850	950	1,600
SEER/EER	20/10.5	20/12.5	16/10.5
Moisture Removal Pt./hr	2.50	3.20	3.80
Heating			
Heating Capacity Range Btu/hr	3,100 - 18,000	3,100 - 21,000	5,100 - 22,000
Rated Heating Capacity 47°F Btu/hr	10,000	13,000	18,000
COP	2.97	2.64	2.23
Max. Heating Capacity 5°F Btu/hr	9,000	11,000	17,000
Max. Heating Capacity -22°F Btu/hr	4,000	5,000	11,000
Rated Power Input W	1,100	1,460	2,300
HSPF	9.0	10.0	9.0
Outdoor Unit			
Maximum Fuse Size A	15	20	30
Minimum Circuit Amp A	13	14	20
Outdoor Noise Level dB	54	54	52
Dimension: Height in (mm)	27 1/2 (697)	27 1/2 (697)	30 (762)
Dimension: Width in (mm)	35 (890)	35 (890)	36 1/4 (920)
Dimension: Depth in (mm)	13 7/8 (353)	13 7/8 (353)	15 1/8 (385)
Weight Ship/Net - lbs (kg)	115.5/98.3 (52.4/44.6)	124.8/107.6 (56.6/48.8)	154.3/133.4 (70/60.5)
Indoor Unit			
Airflow CFM (Turbo/High/Med/Low/Quiet)	410/365/305/265/205	410/365/305/265/205	470/410/365/295/252
Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	43/40/37/34/31	45/42/39/36/33	45/42/39/36/33
Drain Pipe Size O.D in	1 1/4	1 1/4	1 1/4
Dimension: Height in (mm)	10 1/4 (260)	10 1/4 (260)	10 1/4 (260)
Dimension: Width in (mm)	22 7/16 (570)	22 7/16 (570)	22 7/16 (570)
Dimension: Depth in (mm)	22 7/16 (570)	22 7/16 (570)	22 7/16 (570)
Weight Ship/Net - lbs (kg)	43.9/34 (19.9/15.4)	48.5/40.8 (22/18.5)	48.5/40.8 (22/18.5)
Condensate Pump	Standard	Standard	Standard
Max. Drain-Lift height in(mm)	27 9/16 (700)	27 9/16 (700)	27 9/16 (700)
Grille Model (Sold Separately)			
Model Number	PB-700KB	PB-700KB	PB-700KB
Dimension: Height in (mm)	2 3/8 (60)	2 3/8 (60)	2 3/8 (60)
Dimension: Width in (mm)	27 9/16 (700)	27 9/16 (700)	27 9/16 (700)
Dimension: Depth in (mm)	27 9/16 (700)	27 9/16 (700)	27 9/16 (700)
Weight Ship/Net - lbs (kg)	10.6/6.2 (4.8/2.8)	10.6/6.2 (4.8/2.8)	10.6/6.2 (4.8/2.8)
Refrigerant Lines			
Connections	Flare	Flare	Flare
Liquid O.D. in	1/4	1/4	1/4
Suction O.D. in	3/8 (Use 1/2 x 3/8 adapter shipped with outdoor unit)	3/8 (Use 1/2 x 3/8 adapter shipped with outdoor unit)	1/2
Factory Charge Oz	56.8	62.1	82.9
Maximum Line Length Ft / m	50/15	50/15	83/25
Maximum Height Ft / m	33/10	33/10	50/15

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