

Hotpoint®

Ductless Single Zone Split Systems



Cooling Only:

1H12HN2CAA1 / HW12HN2CAA1

1H18HN2CAA1 / HW18HN2CAA1

1H24HN2CAA1 / HW24HN2CAA1

Heat Pump:

1H09HN2DAA1 / HW09HN2DAA1

1H12HN2DAA1 / HW12HN2DAA1

1H18HN2DAA1 / HW18HN2DAA1

1H24HN2DAA1 / HW24HN2DAA1

Hotpoint®

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Revision History

06/24 - Edition release.

Hotpoint®

COOLING-ONLY MODELS

Compressor Type:
DC Inverter Driven Rotary

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



		12K	18K	24K
	Outdoor Unit	1H12HN2CAA	1H18HN2CAA	1H24HN2CAA
	UPC	084691949534	084691949558	084691949572
	Indoor Unit	HW12HN2CAA	HW18HN2CAA	HW24HN2CAA
	UPC	084691949541	084691949565	084691949589
Cooling	Rated Capacity Btu/hr	12,000	18,000	24,000
	Capacity Range Btu/hr	33,00-13800	4,100-20,000	4,700-25,200
	SEER2	20.0	19.0	18.0
	EER2	12.0	12.0	10.6
	Moisture Removal Pt./hr	1.2	2.2	2.4
Operating Ranges	Cooling °F (°C)	14-115 °F (-10-46 °C)	14-115 °F (-10-46 °C)	14-115 °F (-10-46 °C)
Outdoor Unit	Maximum Fuse Size A	15	20	25
	Minimum Circuit Amp A	12	14	18
	Outdoor Noise Level dB	55	59	60
	Dimension: Height in (mm)	21 3/4 (553)	25 1/4 (642)	25 1/4 (642)
	Dimension: Width in (mm)	31 1/2 (800)	32 1/4 (820)	32 1/4 (820)
	Dimension: Depth in (mm)	11 (280)	12 (306)	12 (306)
	Carton Dimension: Height in (mm)	23 5/8 (600)	26 1/2 (673)	26 1/2 (673)
	Carton Dimension: Width in (mm)	36 (914)	36 5/8 (930)	36 5/8 (930)
	Carton Dimension: Depth in (mm)	15 7/16 (392)	14 13/16 (377)	14 13/16 (377)
	Weight Ship/Net - lbs (kg)	83.11/70.55 (37.7/32.0)	96.78/84.22 (43.9/38.2)	99.87/87.30 (45.3/39.6)
Indoor Unit	Fan Speed Stages	5 + Auto	5 + Auto	5 + Auto
	Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	46/44/39/33/29	49/46/43/40/31	52/49/46/43/38
	Dimension: Height in (mm)	11 (292)	12 1/8 (307)	13 5/8 (345)
	Dimension: Width in (mm)	31 3/4 (805)	34 1/2 (875)	43 1/2 (1105)
	Dimension: Depth in (mm)	7 7/8 (200)	8 1/2 (217)	9 1/2 (240)
	Carton Dimension: Height in (mm)	10 (254)	11 (278)	12 5/16 (313)
	Carton Dimension: Width in (mm)	33 7/8 (861)	36 5/8 (930)	46 1/16 (1170)
	Carton Dimension: Depth in (mm)	13 3/4 (350)	14 3/4 (375)	16 1/4 (413)
	Weight Ship/Net - lbs (kg)	24.47/18.74(11.1/8.5)	28.22/21.83(12.8/9.9)	41.67/32.63(18.9/14.8)
Refrigerant Lines	Connections	Flare	Flare	Flare
	Liquid O.D. in	1/4	1/4	1/4
	Suction O.D. in	3/8	1/2	1/2
	R32 Factory Charge Oz	25.75	38.8	45.86
	Maximum Line Length Ft/m	66/20	83/25	83/25
	Maximum Height Ft/m	33/10	50/15	50/15

¹ OPERATING RANGE:

- Cooling performance rating shall be verified following AHRI 210/240 standards of 80°F (27°C) DB / 67°F (19°C) WB indoor temperature and 95°F (35°C) DB / 75°F (24°C) WB outdoor temperature.
- Heating performance rating shall be verified following AHRI 210/240 standards of 70°F (21°C) DB / 60°F (16°C) WB indoor temperature and 47°F (8°C) DB / 43°F (6°C) WB outdoor temperature.

² CAPACITY CORRECTION:

- Please refer to the submittal documents for specific Capacity Correction tables available at www.GEAppliancesAirAndWater.com

1. SPECIFICATIONS

Hotpoint®

HEAT PUMP MODELS

Compressor Type:
DC Inverter Driven Rotary

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



		09K	12K	18K	24K
	Outdoor Unit	1H09HN2DAA	1H12HN2DAA	1H18HN2DAA	1H24HN2DAA
	UPC	084691944430	084691949473	084691949497	084691949510
	Indoor Unit	HW09HN2DAA	HW12HN2DAA	HW18HN2DAA	HW24HN2DAA
	UPC	084691949466	084691949480	084691949503	084691949527
Cooling	Rated Capacity Btu/hr	9,000	12,000	18,000	24,000
	Capacity Range Btu/hr	3,100-11,000	3,300-13,800	4,100-20,000	4,700-25,200
	SEER2	18.0	18.0	18.0	18.0
	EER2	12.0	12.0	12.0	10.6
	Moisture Removal Pt./hr	1.0	1.2	2.2	2.4
Heating	Heating Capacity Range Btu/hr	2,100-11,000	2,800-13,300	3,800-20,000	4,300-25,600
	Rated Heating Capacity 47°F Btu/hr	10,000	13,000	19,000	25,000
	COP @ 47°F	3.7	3.5	3.1	3.0
	Max. Heating Capacity 5°F Btu/hr	7,000	9,100	13,300	17,500
	COP @ 5°F	1.8	1.8	1.8	1.8
	HSPF2 (IV)/HSPF2 (V)	9.5/7.2	9.5/7.1	9.5/7.2	9.5/7.1
Operating Ranges	Cooling °F (°C)	14-115 °F (-10-46 °C)	14-115 °F (-10-46 °C)	14-115 °F (-10-46 °C)	14-115 °F (-10-46 °C)
	Heating °F(°C)	-15-75 °F (-26-24 °C)	-15-75 °F (-26-24 °C)	-15-75 °F (-26-24 °C)	-15-75 °F (-26-24 °C)
Outdoor Unit	Maximum Fuse Size A	15	15	20	25
	Minimum Circuit Amp A	12	12	14	18
	Outdoor Noise Level dB	55	55	59	60
	Dimension: Height in (mm)	21 3/4 (553)	21 3/4 (553)	25 1/4 (642)	25 1/4 (642)
	Dimension: Width in (mm)	31 1/2 (800)	31 1/2 (800)	32 1/4 (820)	32 1/4 (820)
	Dimension: Depth in (mm)	11 (280)	11 (280)	12 (306)	12 (306)
	Carton Dimension: Height in (mm)	23 5/8 (600)	23 5/8 (600)	26 1/2 (673)	26 1/2 (673)
	Carton Dimension: Width in (mm)	36 (914)	36 (914)	36 5/8 (930)	36 5/8 (930)
	Carton Dimension: Depth in (mm)	15 7/16 (392)	15 7/16 (392)	14 13/16 (377)	14 13/16 (377)
	Weight Ship/Net - lbs (kg)	80.47/67.9 (36.5/30.8)	80.47/67.9 (36.5/30.8)	93.26/80.69 (42.3/36.6)	96.34/83.78 (43.7/38)
Indoor Unit	Fan Speed Stages	5 + Auto	5 + Auto	5 + Auto	5 + Auto
	Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	45/43/38/32/28	46/44/39/33/29	49/46/43/40/31	52/49/46/43/38
	Dimension: Height in (mm)	11(292)	11 (292)	12 1/8 (307)	13 5/8 (345)
	Dimension: Width in (mm)	31 3/4 (805)	31 3/4 (805)	34 1/2 (875)	43 1/2 (1105)
	Dimension: Depth in (mm)	7 7/8 (200)	7 7/8 (200)	8 1/2 (217)	9 1/2 (240)
	Carton Dimension: Height in (mm)	10 (254)	10 (254)	11 (278)	12 5/16 (313)
	Carton Dimension: Width in (mm)	33 7/8 (861)	33 7/8 (861)	36 5/8 (930)	46 1/16 (1170)
	Carton Dimension: Depth in (mm)	13 3/4 (350)	13 3/4 (350)	14 3/4 (375)	16 1/4 (413)
	Weight Ship/Net - lbs (kg)	24.47/18.74(11.1/8.5)	24.47/18.74(11.1/8.5)	28.22/21.83(12.8/9.9)	41.67/32.63(18.9/14.8)
	Connections	Flare	Flare	Flare	Flare
Refrigerant Lines	Liquid O.D. in	1/4	1/4	1/4	1/4
	Suction O.D. in	3/8	3/8	1/2	1/2
	R32 Factory Charge Oz	25.75	25.75	38.8	45.86
	Maximum Line Length Ft/m	66/20	66/20	83/25	83/25
	Maximum Height Ft/m	33/10	33/10	50/15	50/15

1 PERFORMANCE:

- Cooling performance rating shall be verified following AHRI 210/240 standards of 80°F (27°C) DB / 67°F (19°C) WB indoor temperature and 95°F (35°C) DB / 75°F (24°C) WB outdoor temperature.
- Heating performance rating shall be verified following AHRI 210/240 standards of 70°F (21°C) DB / 60°F (16°C) WB indoor temperature and 47°F (8°C) DB / 43°F (6°C) WB outdoor temperature.

2 CAPACITY CORRECTION:

- Please refer to the submittal documents for specific Capacity Correction tables available at www.GEAppliancesAirAndWater.com

2.1 General

(2.1.1) Description

- A. The heat pump and cooling-only air conditioner shall be a variable capacity, mini-split type system comprised of a single outdoor and a single wall-mounted indoor unit.

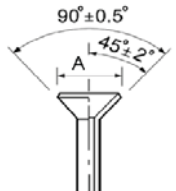
(2.1.2) Toxicity

- A. The heat pump system shall participate in RoHS compliance and listed in the directory.

2.2 Installation Requirements

(2.2.1) Lineset

- A. The connecting refrigerant lines between the indoor and outdoor units are to be supplied by the installer.
- B. The tubing must be annealed ACR-type copper, meeting ASTM B280 standards.
- C. The connecting tubing between the outdoor and indoor units shall be continuous in all possible situations.
- D. The tubing ends must be reamed inside and out, and must be flared using a 45° flaring tool approved for R-410A.
- E. Connections to the indoor and outdoor units shall be made with flare nuts that are supplied with the individual units.
- F. The flare nuts must be attached to indoor and outdoor units using a torque wrench and back- up wrench.

PIPE SIZE	TORQUE	A (INCH)	FLARE SHAPE
1/4	12 lb/ft 16.3 Nm	0.327-0.343	
3/8	27 lb/ft 36.6 Nm	0.472-0.488	
1/2	40 lb/ft 54.2 Nm	0.488-0.654	
5/8	50 lb/ft 67.8 Nm	0.732-0.748	
3/4	80 lb/ft 108.5 Nm	0.902-0.917	

- G. Each tube must be insulated with a minimum of 1/2 inch (12.7mm) closed-foam insulation that is UV resistant and meets ASTM Standard E84 25/50 flame spread/smoke development.
- H. The lineset between the indoor and outdoor must not exceed the listed maximum length and maximum height difference (See section **1. Specifications**).

2.3 Electrical Requirements

(2.3.1) Electrical Supply

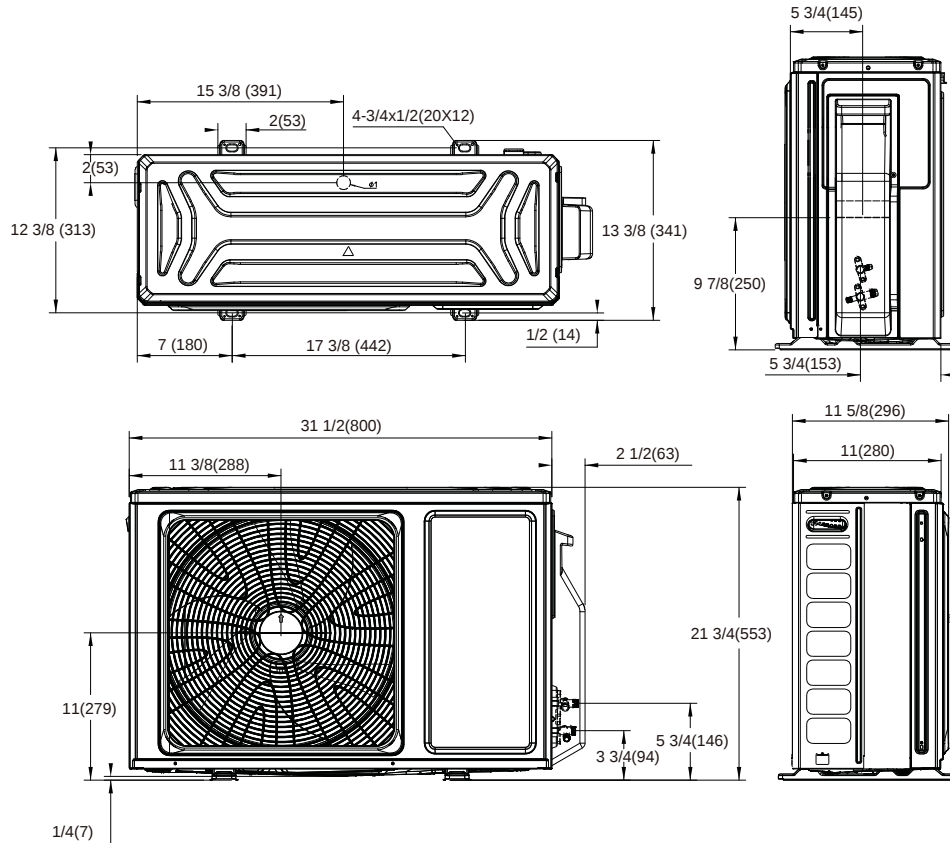
- A. Models shall be 208/230 volts AC, single-phase, 60 hertz. Voltage limitation supplied to the outdoor shall be between 187-253 volts.
- B. Power supply must be installed in accordance to local building and electrical code.

(2.3.2) Connecting Wire to Indoor

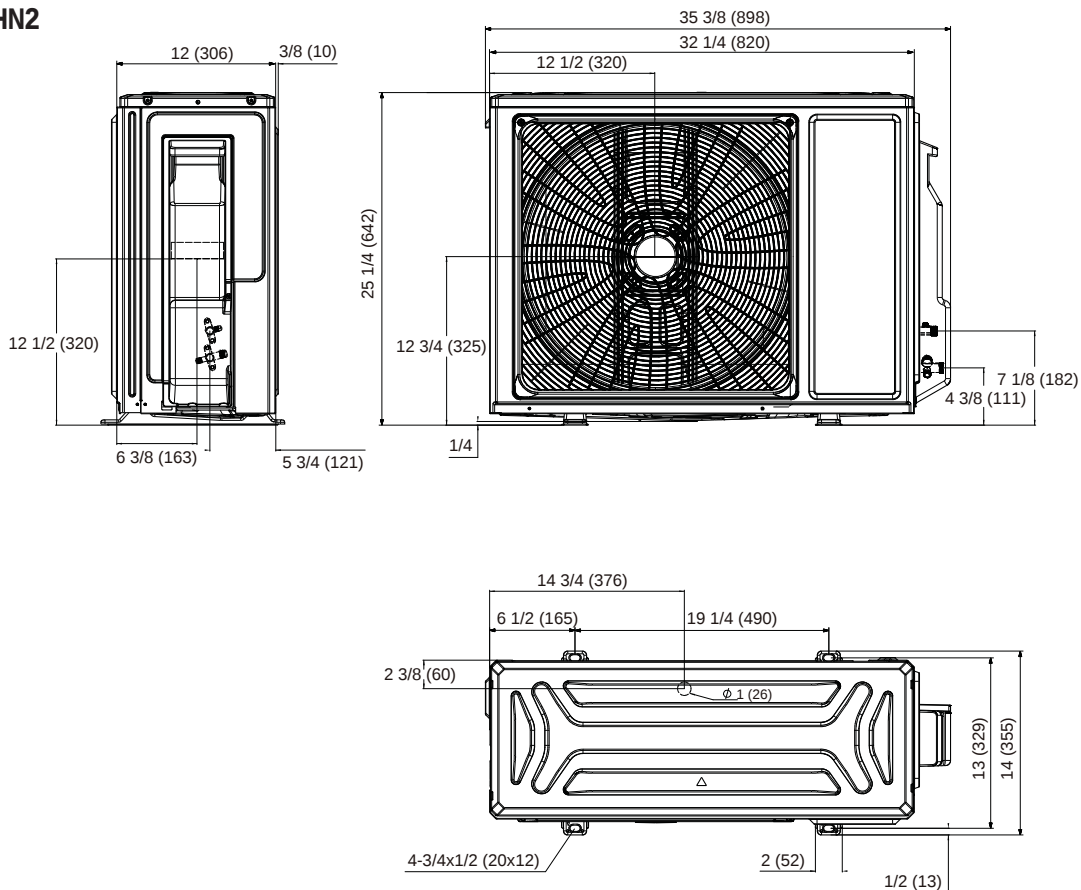
- A. Connecting cable between the indoor unit(s) must be made with 4 conductor - 14 AWG stranded copper wire.
- B. Connecting wire must be continuous (without break) unless local code requires power disconnect next to indoor unit. See section **4.4 Electrical Requirements**.

3.1 Dimensions

1H09HN2, 1H12HN2



1H18HN2, 1H24HN2



3.2 General

(3.2.1) Outdoor Unit Description

- A. The outdoor unit shall be comprised of a condenser coil with all components and controls necessary to perform the rated operation.

(3.2.2) Sound Pressure Rating

- A. Sound pressure rating as measured according to test standard JIS C 961.

(3.2.3) Warranty

- A. The outdoor unit shall be covered by a manufacturer's parts warranty (See Section **6. Limited Warranty**)

MODEL	SOUND PRESSURE RATING DB (A)
1H12HN2CAA	55
1H18HN2CAA	59
1H24HN2CAA	60
1H09HN2DAA	55
1H12HN2DAA	55
1H18HN2DAA	59
1H24HN2DAA	60

3.3 Installation

(3.3.1) Condensate

- A. The installer must adhere to local building codes for managing condensate water produced by the outdoor unit.

(3.3.2) Clearances

- A. The installer must follow the recommended clearances provided in the Installation Manual.

3.4 Components

(3.4.1) Coil

- A. The outdoor coil shall be made with a blue colored hydrophilic coating on the aluminum fins and packed with internally grooved copper tubing, to increase the effective heat exchange surface area by 25%, resulting in higher efficiencies and shorter defrost cycles (approx. 29%).
- B. Coils shall be helium pressure tested at the factory within a range of 600 - 650 PSI.
- C. Outdoor unit shall be factory charged with R-410A refrigerant for 25 feet of lineset.

(3.4.2) Fan Motor

- A. The outdoor fan motor shall be a brushless, variable speed DCV motor type.
- B. The fan motor shall be molded with heat-hardened resin.
- C. The fan motor shall have permanently lubricated SRC bearings.

(3.4.3) Fan Blade

- A. The outdoor fan blade shall be a UL flame rated plastic-resin design.
- B. The fan blade shall be factory balanced in quiet performance and enhanced velocity.

(3.4.4) Compressor

- A. The compressor shall be a DC rotary type and A-PAM inverter-driven for stable operation in lower and higher frequency.
- B. The compressor shall be variable speed, variable capacity.
- C. The compressor shall have an internal overload protection device.
- D. The compressor shall use PVE (FV50S) refrigerant oil for better anti-wear effectiveness, superior resistance to capillary tube blockage and no hydrolysis compared to POE oil.

(3.4.5) 4WV

- A. Heat pump outdoor units shall contain a four-way reversing valve (4WV) to change system mode from cool to heat.

(3.4.6) EEV

- A. The refrigerant flow shall be regulated by an electronic expansion valve (EEV).
- B. The outdoor control shall monitor the refrigerant flow through the EEV using a pulse-operated coil.
- C. The EEV shall maintain the target of 10°F (5.5°C) of superheat.

(3.4.7) Base Pan

- A. The base pan shall be constructed of commercial grade DC51/DC52 hot-dip galvanized steel with coating.
- B. The outdoor unit shall ship with a drain port adapter sized for 1/2 inch tubing to manage condensate run off.

(3.4.8) Copper Piping

- A. All internally connected copper tubing shall conform to ASTM B280 tubing tolerances.

(3.4.9) Outdoor Enclosure Materials

- A. The outdoor cabinet shall be constructed of commercial grade DC51/DC52 hot-dip galvanized steel with coating.

(3.4.10) Defrost

- A. Heat pump outdoor units shall have a reverse-cycle (hot gas) defrost system to maximize heat pump operation and minimize energy consumption.

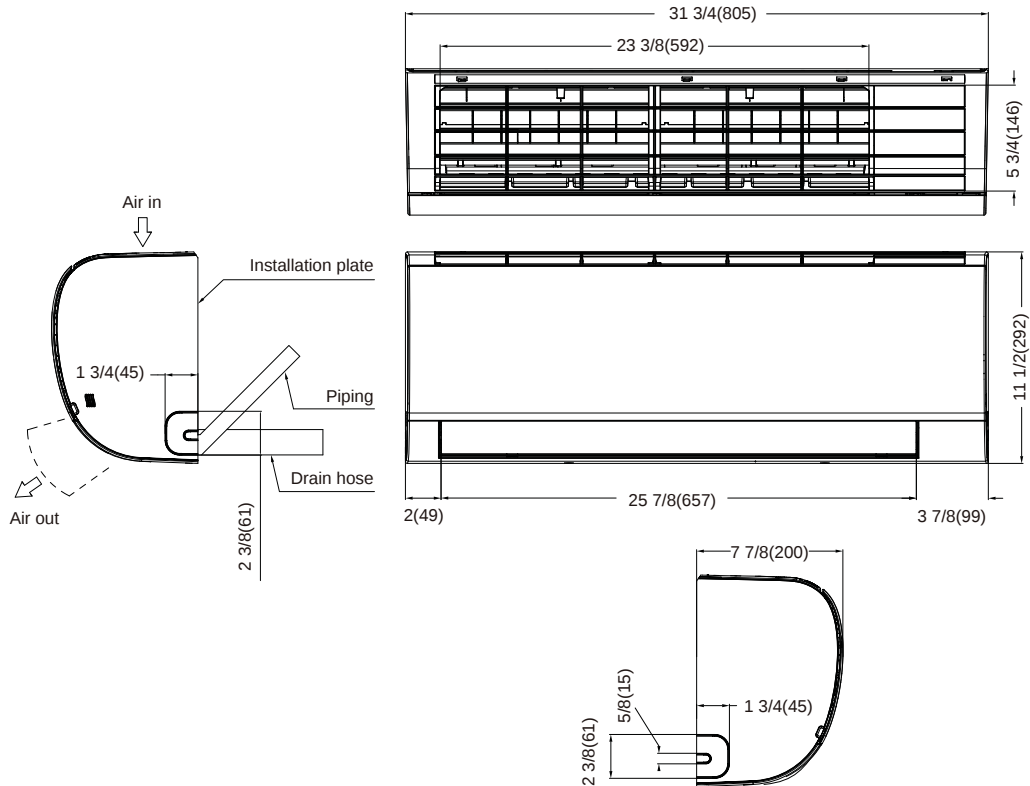
(3.4.11) Accumulator

- A. The accumulator shall be connected to the compressor return line to prevent liquid refrigerant from entering the compressor during operation.

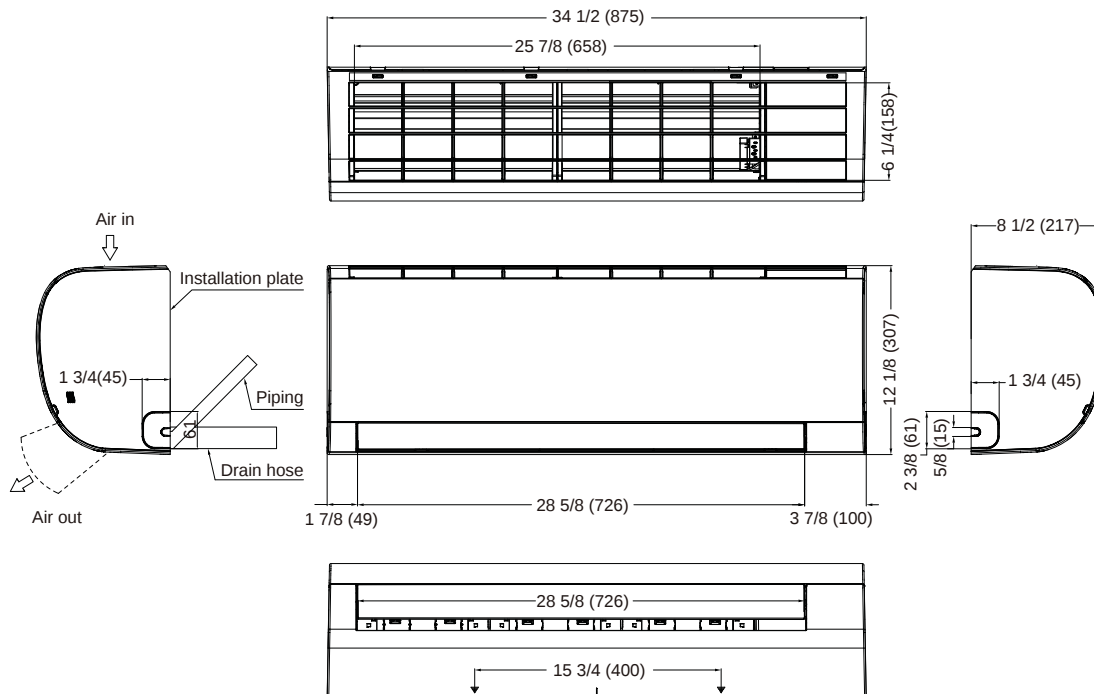
4. INDOOR UNITS

4.1 Dimensions

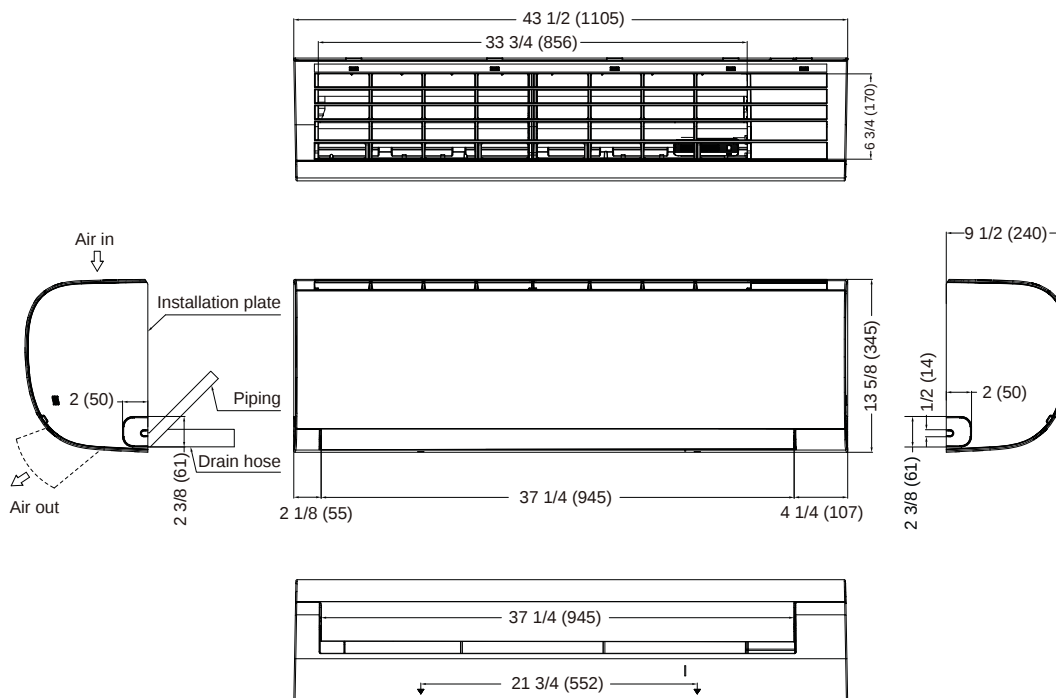
HW09HN2, HW12HN2



HW18HN2



HW24HN2



4.2 General

(4.2.1) Indoor Unit Description

- A. The wall mounted indoor section completes the system when connected to the matching outdoor unit and field-supplied piping and wiring.

(4.2.2) Sound Pressure Ratings

- A. Sound pressure ratings as measured according to test standard JIS C 9612:

Model	Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)
HW12HN2CAA	46/44/39/33/29
HW18HN2CAA	49/46/43/40/31
HW24HN2CAA	52/49/46/43/38
HW09HN2DAA	45/43/38/32/28
HW12HN2DAA	46/44/39/33/29
HW18HN2DAA	49/46/43/40/31
HW24HN2DAA	52/49/46/43/38

(4.2.3) Warranty

- A. The outdoor unit shall be covered by a manufacturer's parts warranty (See Section **6. Limited Warranty**)

4.3 Installation

(4.3.1) Condensate

- A. The wall mounted indoor shall be shipped with a insulated polyethylene condensate tubing (5/8" ID) attached from the factory.
- B. The wall mounted indoor unit shall ship with a 6.5 ft (2m) corrugated drain tube that connects to the insulated drain tube.
- C. The wall mounted indoor unit shall be a gravity drain.

(4.3.2) Clearances

- A. The installer must follow the minimum clearances illustrated in the Installation Manual when installing the indoor unit.

(4.3.3) Mounting

- A. The wall mounted indoor unit shall ship with a galvanized metal wall bracket.
- B. The wall bracket shall have multiple anchor points to provide the installer with many options to firmly attach the wall mounted indoor unit to the wall.
- C. The field-supplied mounting hardware must be sufficient to adequately support the indoor unit.
- D. See also section **4.6 Mounting Bracket Dimensions**

4.4 Electrical Requirements

(4.4.1) Electrical Disconnect

- A. Connecting wire must be continuous (without break) unless local code requires a disconnect at the indoor unit.

MODEL	FAN MOTOR RATING (HP)
HW12HN2CAA	0.03
HW18HN2CAA	0.03
HW24HN2CAA	0.07
HW09HN2DAA	0.03
HW12HN2DAA	0.03
HW18HN2DAA	0.03
HW24HN2DAA	0.07

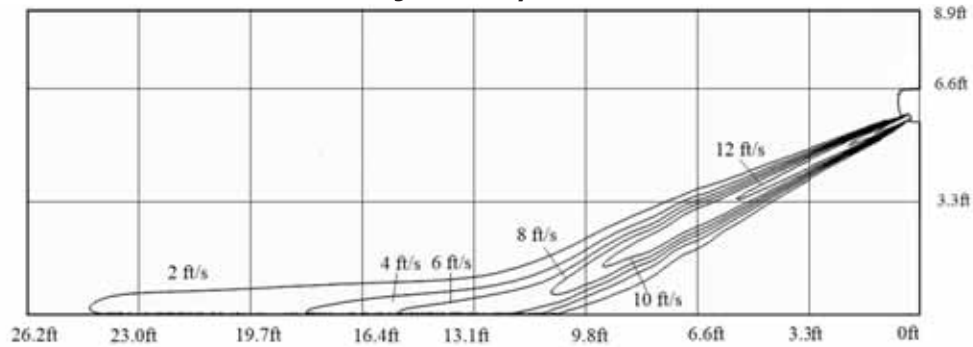
- B. If a disconnect is required by local code, it must be a 3-pole, single-throw type.

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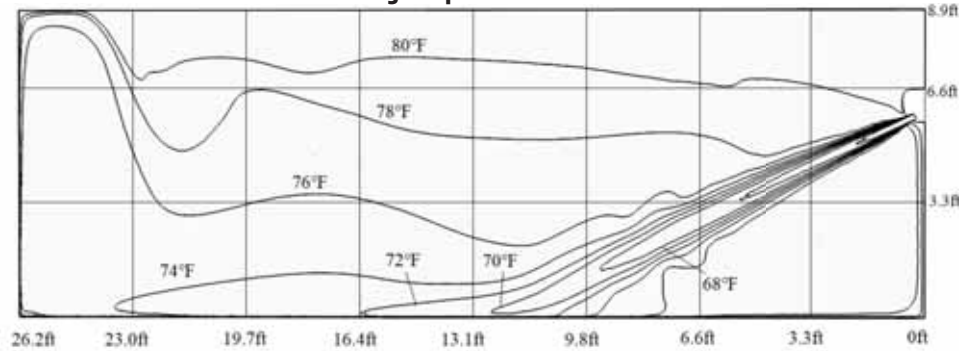
4.5 Temperature And Air Flow Distribution

HW09HN2

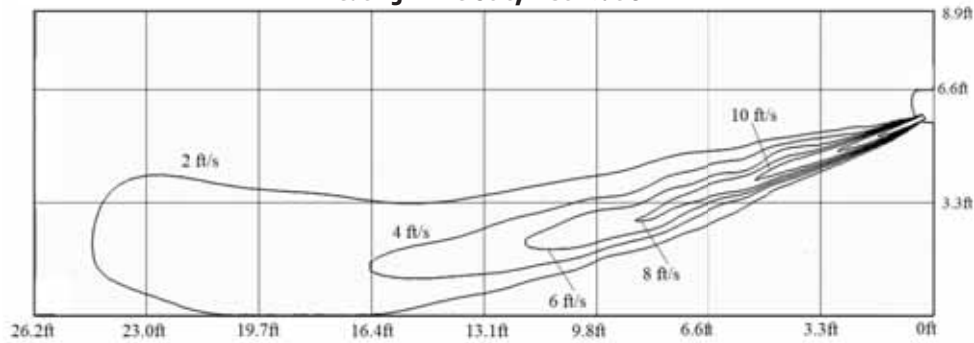
Cooling Air Velocity Distribution



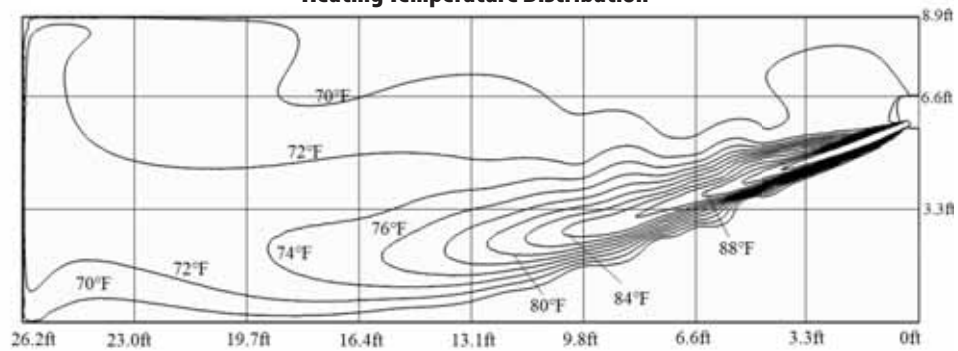
Cooling Temperature Distribution



Heating Air Velocity Distribution



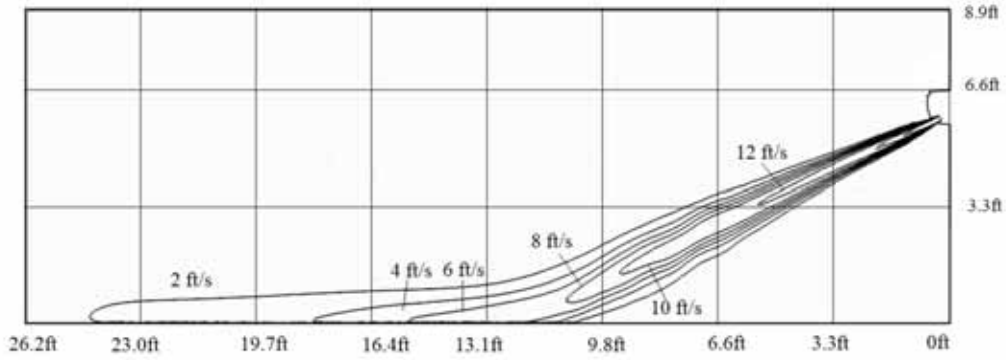
Heating Temperature Distribution



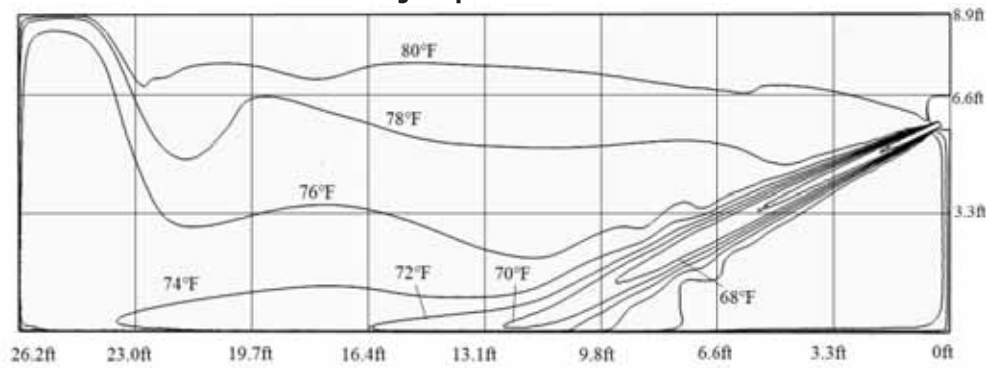
4. INDOOR UNITS

HW12HN2

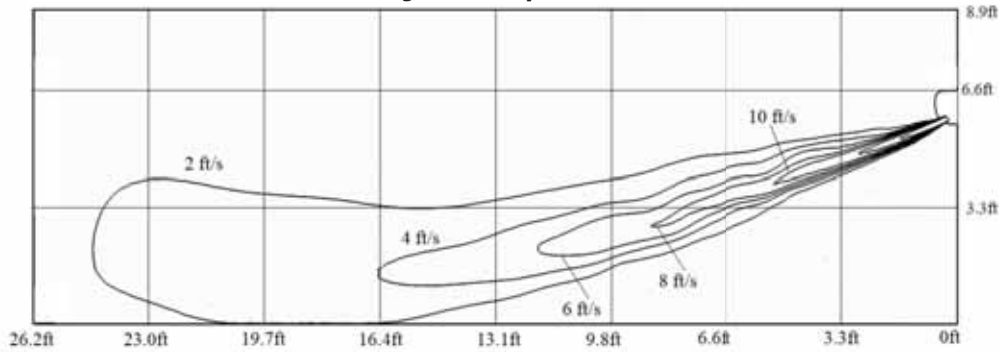
Cooling Air Velocity Distribution



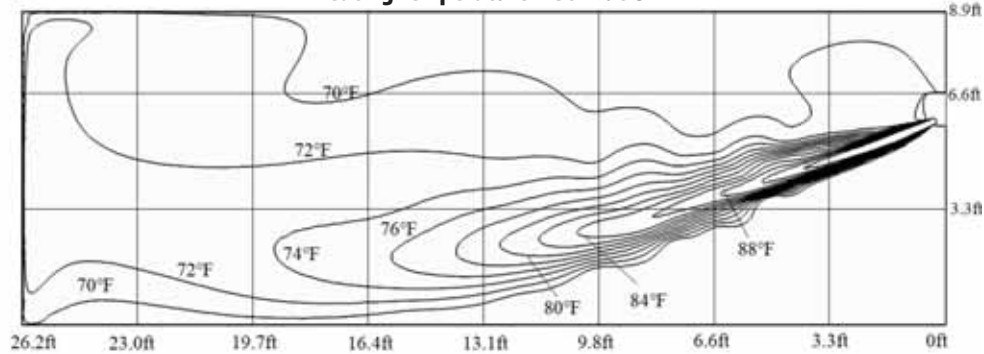
Cooling Temperature Distribution



Heating Air Velocity Distribution

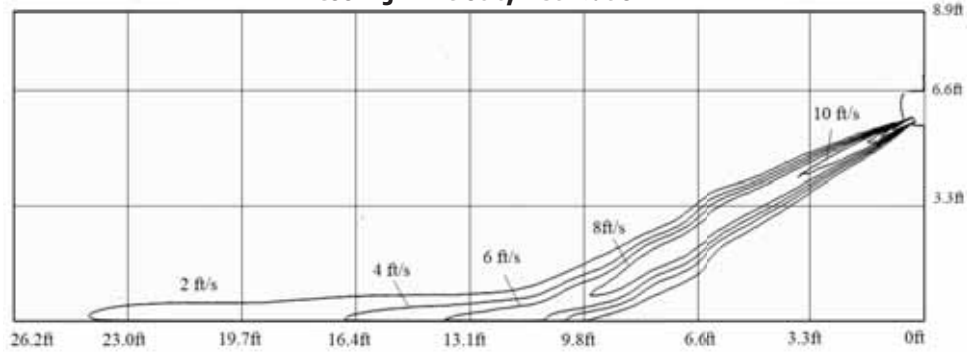


Heating Temperature Distribution

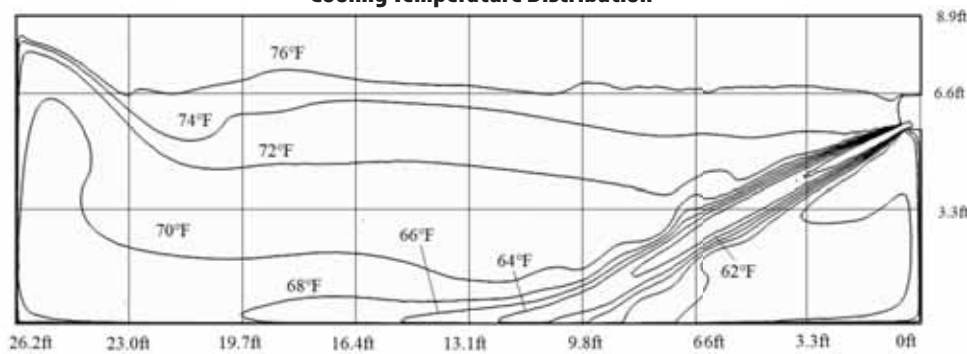


HW18HN2

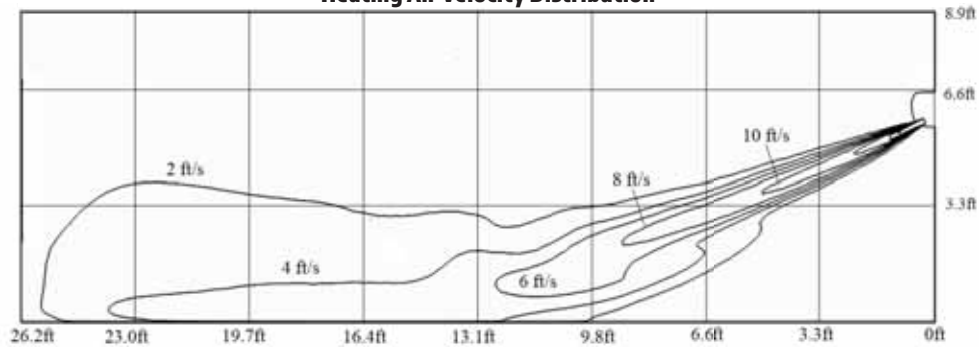
Cooling Air Velocity Distribution



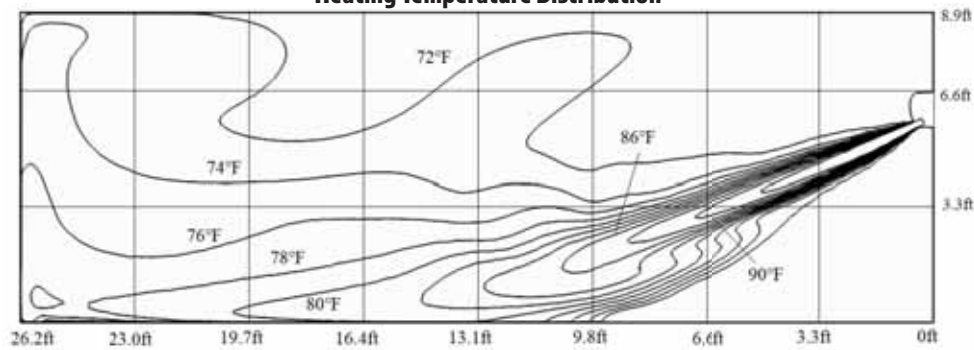
Cooling Temperature Distribution



Heating Air Velocity Distribution



Heating Temperature Distribution

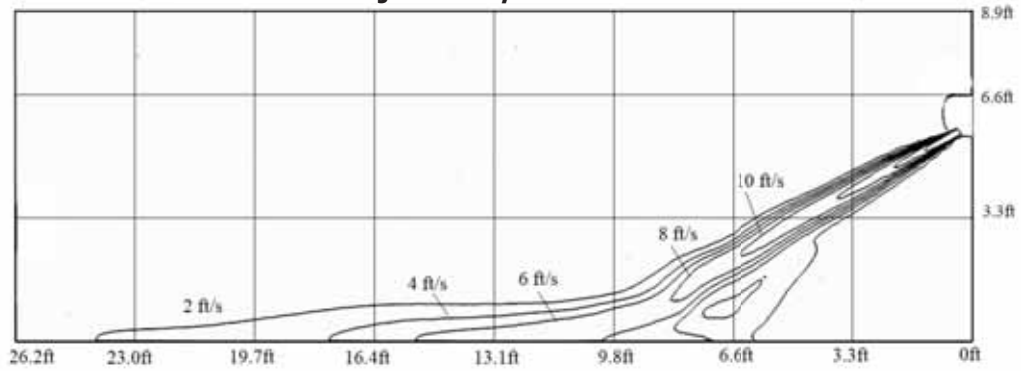


4. INDOOR UNITS

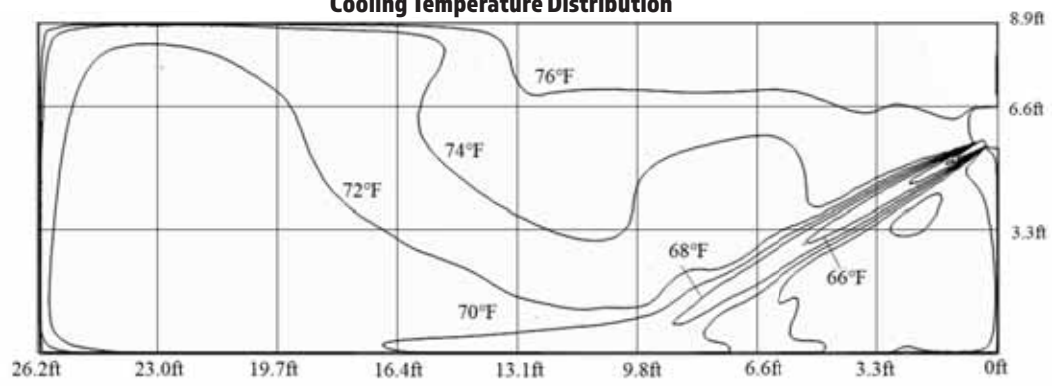
HW24HN2

ENGLISH

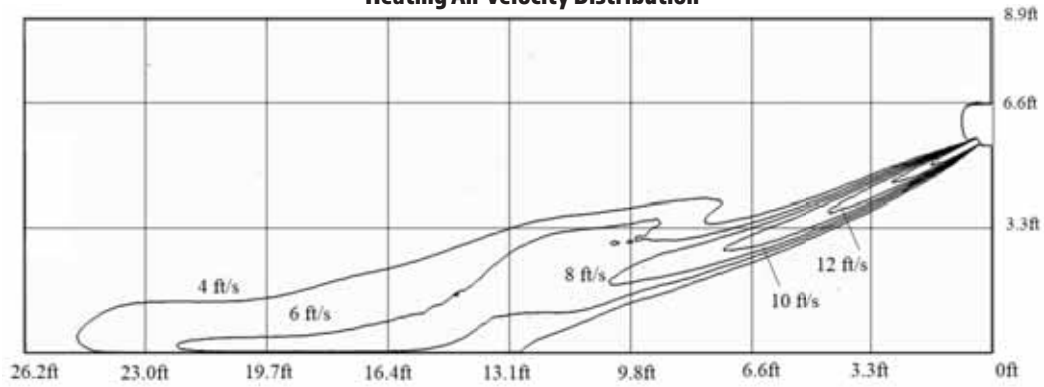
Cooling Air Velocity Distribution



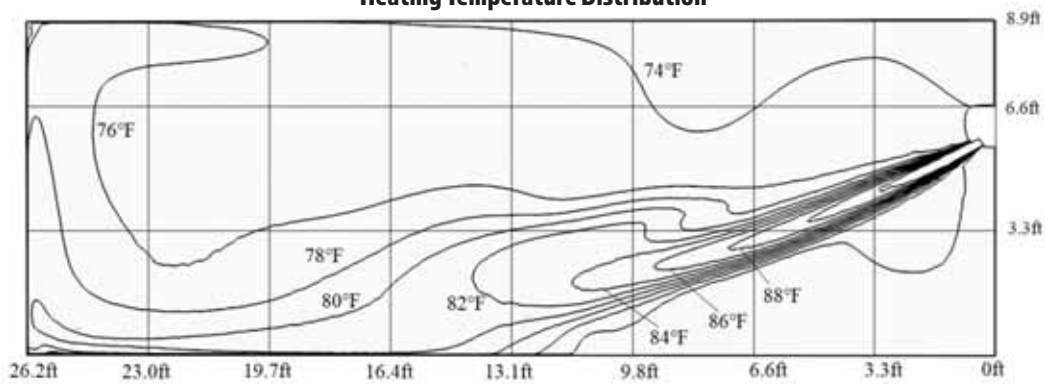
Cooling Temperature Distribution



Heating Air Velocity Distribution



Heating Temperature Distribution



4.6 Components

(4.5.1) Coil

- A. The indoor coil shall be made with a blue colored hydrophilic coating on the aluminum fins and packed with internally grooved copper tubing, to increase the effective heat exchange surface area by 25%.
- B. Copper tubing shall have inner micro-grooves to increase effective heat transfer capabilities.
- C. Coils shall be pressure tested at 600-650 PSI using helium leak detection.
- D. The coil shall be charged with dry nitrogen for shipping at 70-100 PSI.

(4.5.2) Fan Motor

- A. The fan motor shall be a sealed DC multiple-speed resin-packed motor
- B. The fan motor shall have permanently lubricated bearings.

(4.5.3) Fan Blade

- A. The fan blade shall be a corrosion-resistant cross-flow blower.
- B. The fan shall be designed with optimized diameter and surface area to deliver quiet and even air flow.

(4.5.4) Copper Piping

- A. The coil shall be connected to a length of insulated annealed copper.
- B. The ends of the tubing shall have male flare connections.

(4.5.5) Air Louvers

- A. The supply air shall be distributed by horizontal non-motorized and vertical motorized louvers.
- B. Air Louvers shall provide wide angle of operation for both horizontal (120°) and vertical (90° from top to down) airflow movement to provide room comfort for each corner.

(4.5.6) Display

- A. The wall mounted indoor unit shall have a 4.5 x 1.1-inch backlit temperature display capable of showing set or room temperatures.
- B. The display shall also have colored icons representing set mode.
- C. The display can be turned off from the wireless remote control.

(4.5.7) WiFi

- A. The wall mounted indoor units shall come equipped with WiFi capabilities.

(4.5.8) Filter

- A. The wall mounted indoor unit shall have removable air filters.
- B. The air filters shall be washable and reusable.

(4.5.9) Control

- A. The wall mounted indoor unit shall ship with the standard hand-held remote control.
- B. The wall mounted indoor unit shall be compatible with the simple wired controller and the programmable wired.

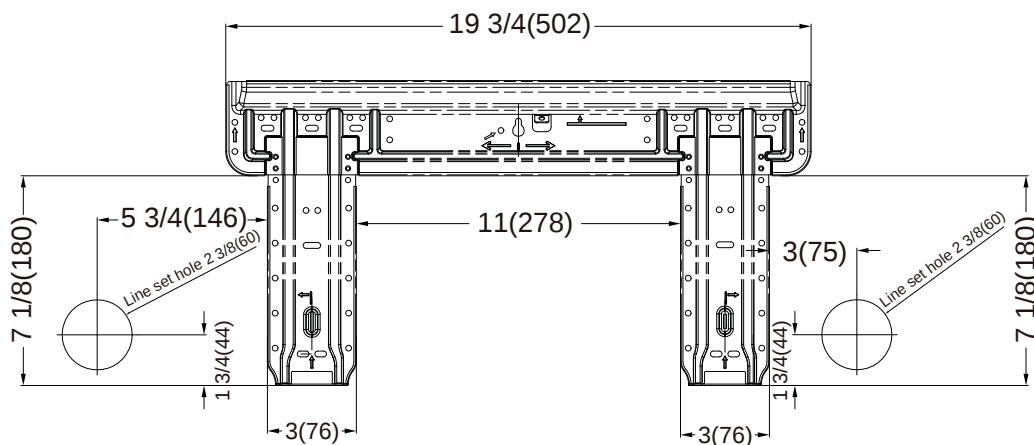
(4.5.10) Installation Clip

- A. The wall mounted indoor unit shall have a built-in clip that swings out and acts as a kick stand to allow for easier access to the rear of the unit during installation and repair.

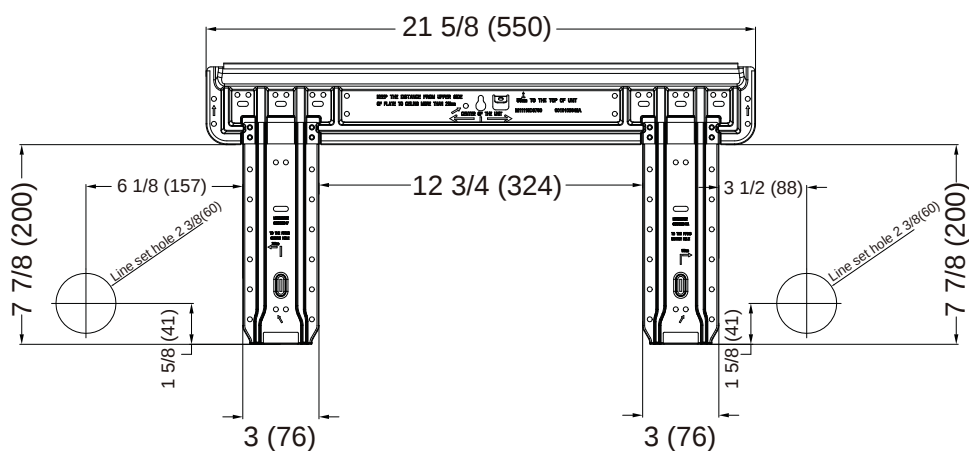
4. INDOOR UNITS

4.7 Mounting Bracket Dimensions

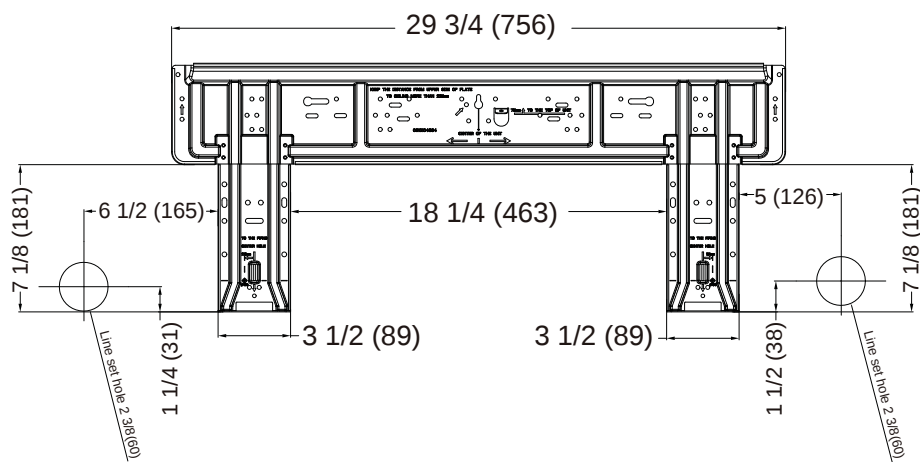
HW09HN2, HW12HN2



HW18HN2



HW24HN2



5.1 Standard Remote Control

(5.1.1) General

- A. Standard remote control shall be compatible with wall mounted indoor units.
- B. Standard remote control shall come packaged with wall mounted indoor units

(5.1.2) Connection

- A. Standard remote control shall be infrared.

(5.1.3) Warranty

- A. The warranty shall cover all defects in workmanship or material for a period of 1 year. A new or refurbished controller will provide with sole discretion.

(5.1.4) Features

- A. The wireless control shall have a power button, individual mode buttons (Heat, Cool, Dry), temperature +/-, fan speed, vertical and horizontal louver adjustments.
 - B. The wireless control shall be capable of setting a precise temperature of $\pm 1^{\circ}\text{F}$ ($\pm 0.5^{\circ}\text{C}$).
 - C. The wireless control shall have a child lock function.
 - D. The wireless control shall have the ability to turn on/off the indoor unit display.
 - E. The wireless control shall display either Fahrenheit or Celsius.
-

5.2 WiFi

(5.2.1) General

- A. Units to come complete with WiFi Built in.

(5.2.2) Connection

- A. WiFi shall have an app that is compatible with both iOS and Android.
- B. WiFi shall be paired with existing 2.4GHz network
- C. WiFi shall comply with Part 15 of the FCC rules.

(5.2.3) Warranty

- A. The warranty shall cover all defects in workmanship or material for a period of 1 year. A new or refurbished controller will provide with sole discretion.

(5.2.4) Features

- A. The WiFi shall be Google Home compatible.
- B. The WiFi shall be Amazon Alexa compatible.
- C. The homeowner shall have the ability to configure the WiFi.

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