



Specifications & Submittal Data

EMI 
Comfort Where It Counts.

Single-Zone 12,000 Btuh Universal Variable-Speed Heat Pump Split System

Indoor Air Handler Model:

U	N	H	V	1	2	D	*
Type: [UNH=Universal Air Handler]			Revision: [V=Variable Speed (Inverter) R-410A]	Capacity: [12=12,000 Btuh]		Voltage: [D=208-230v/60Hz/1ph]	E-Boost Heater: [0=no electric heat] [3=3 kW heat]

Note: A Handheld Infrared Remote Control comes with each, standard



Outdoor Condenser Model:

S	1	H	V	2	0	0	0	D	0	0
Type: [S=Side Discharge]			Operation: [H=Heat Pump]	Zone Capacity: [2= Zone 1 is 12,000 Btuh]			Control: [0=Standard]			
Zones: [1=Single zone]			Revision: [V=Variable Speed (Inverter) R-410A]	Voltage: [D=208-230v/60Hz/1ph]			Coil Option: [0=Aluminum/Copper, Std]			

Order Quantity of System

Single-Zone 12,000Btuh Universal Variable-Speed Heat Pump Split System

* Select Electric Heat option, exclusively available through dual point power.



Please indicate quantity of optional accessories for each system (max allowed)

Wired OEM Wall Control for indoor air handler (1) *Comes with a single 15' Interconnecting Cord Extension	Wind baffles / hail guard, architectural louver kit (required for cooling operation to 0°F (-18°C) (1)
15' Interconnecting Cord Extension for Wired OEM Wall Control (10)	Bi-flow Filter Drier (1)
208/230V Condensate Pump Kit, 48" lift (1)	Refrigerant line set, 25-feet (Both Tubes Insulated) (Max of 100 EQUIVALENT feet)
208/230V Condensate Pump Kit, 144" lift (External Mount Only) (1)	Refrigerant line set, 50-feet (Both Tubes Insulated) (Max of 100 EQUIVALENT feet)
Floor Mount Toe-kick/Trim Kit (Required to Internally Mount Condensate Pump in Floor Mounted Applications) (1)	Painted Metal Return Air Grille & Filter Kit (1)
Drain Pan Extension Kit (Req'd for Ceiling Mount Applications) (1)	MERV 11 High Efficiency Filter Kit (Comes with Painted Metal Return Air Grille) (1)
Boost Transformer for 115V Installation. (Not compatible with electric heat) (2-Dual Point Power, 1-Single Point Power)	Spare Handheld Infrared Remote Control, one already comes with every air handler

Electrical Specifications

Model #	Volts/Hz/Ph	Fan Motor		Elec Heat		Compressor		Total Amps	Min Volt.	MCA	HACR BRKR
		Amps	HP	Amps	kW	RLA	LRA				
S1HV2000D00	208/230/60/1	0.65	0.11	-	-	7.9	12	8.95	197	10.9	15
UNHV12D0	208/230/60/1	0.4	0.02	-	-	-	-	0.34	197	0.4	15
UNHV12D3	208/230/60/1	0.4	0.02	13.04	3	-	-	13.38	197	16.7	20



To: _____
Date: _____
From: _____
Contact: _____

Project: _____
Customer: _____
Location: _____
Engineer: _____
Unit Tag# _____

For Your:

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Reference

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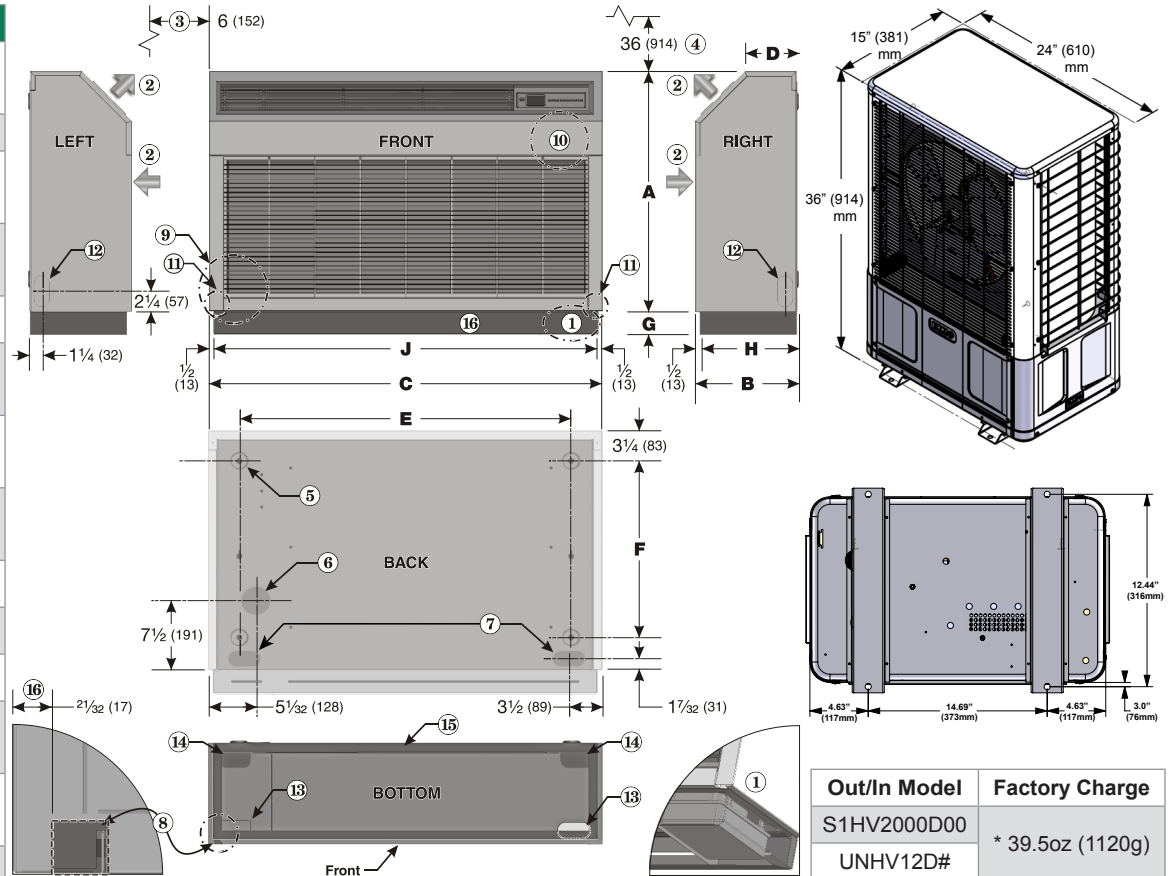
Approval

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Construction

Indoor Air Handler & Outdoor Condenser Dimensions

#	Description
1	Optional condensate pump floor-mount location (requires toe-kick/trim kit)
2	Discharge & return air flows
3	Minimum clearance for air flow and service access on both sides of cabinet
4	Minimum clearance (36") from discharge air outlet & return air intake, see #2
5	Holes (4) for mounting unit to wall or ceiling (11/16" Ø)
6	Optional knockout for customer supplied/installed fresh air intake (3" Ø)
7	1 5/8" x 3 3/8" knockouts for refrigerant tubing, condensate drainage and/or power
8	7/8" x 7/8" clearance hole for condensate drain tubing when ceiling mounted
9	Refrigeration line sets & condensate draining connections
10	Control & power electrical connections
11	Front proximity of #7-back knockout locations
12	1 5/8" x 3 3/8" side panel knockouts for tubing, condensate drainage and/or power
13	1 5/8" x 3 3/8" bottom, front knockouts for tubing, drainage and/or power
14	1 5/8" x 3 3/8" bottom, back knockouts for tubing, drainage and/or power
15	Optional toe-kick/trim: 1" bottom flanged, front & sides recessed 1/2", rear flush
16	Distance from cabinet side to 7/8"x7/8" clearance hole (#8)



Dim	Inches	mm	Dim	Inches	mm	Dim	Inches	mm
A	26.00	660	D	5.50	140	G	2.50	64
B	11.00	279	E	35.00	887	H	10.44	265
C	41.50	1054	F	19.19	487	J	40.50	1029

Out/In Model	Factory Charge
S1HV2000D00	* 39.5oz (1120g)
UNHV12D#	
Line Charge	0.25 oz/ft (23 g/m)

* Total charge for the condenser & air handler; condenser shipped from factory with that total charge

Suction Connection: 1/2"
Liquid Connection: 1/4"

Performance — Heat Pump System With Universal Units

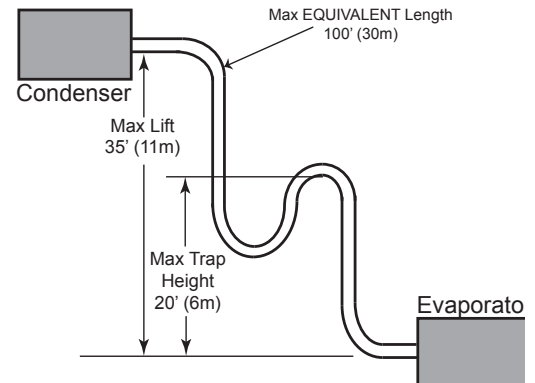
Condenser	Air Handler	Cooling Btuh(kW)	Heating Btuh(kW)	SEER	HSPF	SHR	EER	COP	Ref.
S1HV2000D00	UNHV12D0	12,000 (3.5)	10,000 (2.9)	17.0	8.5	0.75	12.0	3.0	R-410A

Indoor Fan Details	High	Med	Low
Disch. Air Volume [CMF (L/S)]	425 (200)	400 (188)	375 (175)
Indoor Sound Levels [dBA]	45	42	40

Operating Range

		Outdoor Ambient Temp	Indoor Ambient Temp
Cooling	Max	115°F (46°C) DB	90°F (32°C) DB
	Min	*0°F (-18°C) DB	66°F (19°C) DB
Heating	Max	70°F (21°C) DB	83°F (28°C) DB
	Min	-13°F (-25°C) DB	63°F (17°C) DB

*With optional wind baffles kit, otherwise the minimum temp will be 32°F (0°C)



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Miscellaneous Technical Data

Condenser Weight	98 lbs (44.5 kg)	Condenser Sound Level (low/high)	61/64 dBA
Air Handler Weight	95 lbs (43.0 kg)	Condensate Pump Max Lift	*48" (1.2m) or
Air Handler Filter	1 washable mesh	* Measured from bottom of drain pan	*144" (3.7m)

NOTICE: Due to ongoing product development; design, specification and performance data listed within this submittal document are subject to change without notice. For the most current unit/system performance data, please refer to the ECR International listing of certified products in the AHRI directory, at www.ahridirectory.org. Please consult the factory for further information.