Specifications & Submittal Data

Comfort Where It Counts.

Single-Zone 18,000 Btuh Ceiling Cassette Variable-Speed Heat Pump Split System

Indoor Air Handler Model:

C	A	H		V		1	8		D		*

- C A H — Type: [CAH=Cassette Air Handler]
- V — Revison: [V=Variable Speed (Inverter) R-410A]
- 1 8 — Capacity: [18=18,000 Btuh]
- D — 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		8	0	0	0		D		0		0

- S — Type: [S=Side Discharge]
- 1 — Zones: [1=Single zone]
- H — Operation: [H=Heat Pump]
- V — Revison: [V=Variable Speed (Inverter) R-410A]
- 8 0 0 0 — Zone Capacity: [8= Zone 1 is 18,000 Btuh]
- D — Voltage: [D=208-230v/60Hz/1ph]
- 0 — Control: [0=Standard]
- 0 — Coil Option: [0=Aluminum/Copper, Std]

AHRI CERTIFIED™ www.ahridirectory.org
Unitary Small HP
AHRI Standard 210/240
Certification applies only when the complete system is listed with AHRI.

Order Quantity of System	
	Single-Zone 18,000Btuh Ceiling Cassette Variable-Speed Heat Pump Split System

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

ETL LISTED c US Intertek

Please indicate quantity of optional accessories for <u>each</u> 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)**
	5¼"Ø Discharge Air Duct Collar (see knockout locations on pg2) **(2, non-adjacent sides)**		Refrigerant line set, 25-feet (Both Tubes Insulated) **(Max of 100 EQUIVALENT feet)**
	Boost Transformer for 115V Installation. (Not compaitble with electric heat) **(2-Dual Point Power, 1-Single Point Power)**		Refrigerant line set, 50-feet (Both Tubes Insulated) **(Max of 100 EQUIVALENT feet)**

Electrical Specifications

Model #	Volts/Hz/Ph	Fan Motor		Elec Heat		Compressor		Total Amps	Min Volt.	MCA	HACR BRKR
		Amps	HP	Amps	kW	RLA	LRA				
S1HV8000D00	208/230/60/1	0.65	0.11	-	-	9.9	15	11.15	197	13.6	20
CAHV18D0	208/230/60/1	0.6	0.125	-	-	-	-				
CAHV18D3	208/230/60/1	0.6	0.125	13.04	3	-	-	13.6	197	17	20

Performance — Heat Pump System With Cassette Units

Condenser	Air Handler	Cooling Btuh(kW)	Heating Btuh(kW)	SEER	HSPF	SHR	EER	COP	Ref.
S1HV8000D00	CAHV18D0	18,000 (5.3)	17,000 (4.98)	17.0	9.0	0.74	13.0	3.1	R-410A

Operating Range

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

*With optional wind baffles kit, otherwise the minimum temp will be 32ºF (0ºC)

To: _____ Project: _____

Date: _____ Customer: _____

From: _____ Location: _____

Contact: _____ Engineer: _____

_____ Unit Tag# _____

For Your: ☐ Reference ☐ Approval ☐ Construction

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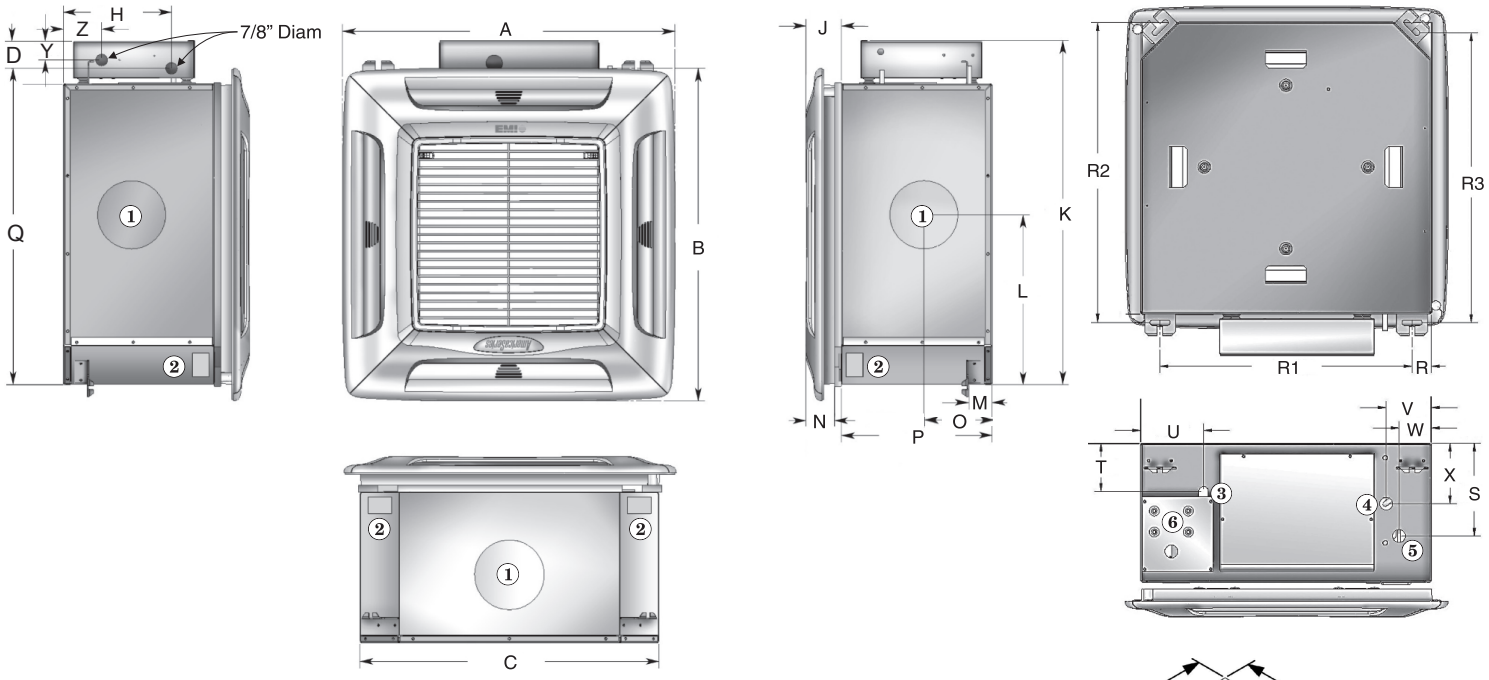
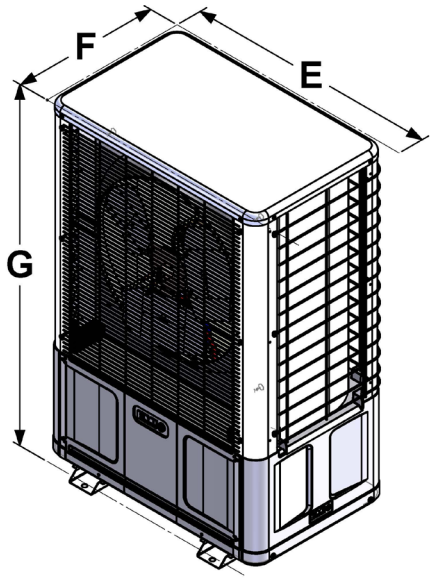
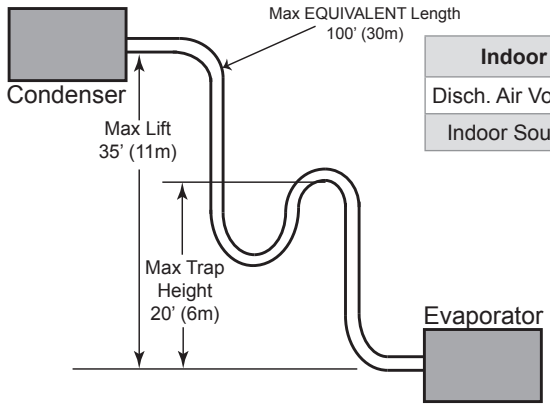
Indoor Air Handler & Outdoor Condenser Dimensions



Dim	Inches	mm	Dim	Inches	mm	Dim	Inches	mm
A	37.00	940	M	1.97	50	U	5.50	140
B	37.00	940	$N_{(ref)}$	2.72	69	V	4.93	125
C	32.44	824	O	5.12	130	W	3.97	101
D	2.00	51	$P_{(ref)}$	12.05	306	X	4.37	111
E	32.00	813	Q	30.40	772	Y	1.41	36
F	15.00	381	$R_{(typ)}$	1.63	41	Z	3.65	93
G	40.00	1016	R1	29.19	741	AA	4.63	117
H	8.90	226	R2	31.20	792	BB	22.69	570
$J_{(ref)}$	3.38	86	R3	30.41	772	CC	3.00	76
K	35.61	904	S	6.87	174	DD	12.44	316
L	18.69	475	T	2.58	66			

①	Optional Discharge knock-outs, 5¼"Ø, 3 available
②	Fresh air inlet knockouts, 3"x3", 2 available
③	Condensate Discharge, ½"Ø
④	Suction Connection: ⅝", bush from ¾" @ CAHV
⑤	Liquid Connection: ⅜"
⑥	Condensate Pump Access Panel

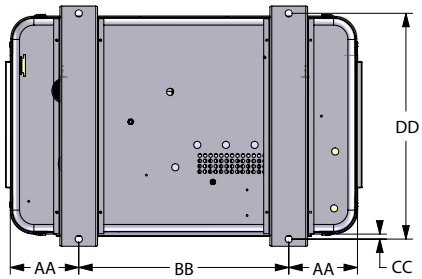




Indoor Fan Details	High	Med	Low
Disch. Air Volume [CMF (L/S)]	700 (330)	660 (312)	620 (293)
Indoor Sound Levels [dBA]	44	43	42

Out/In Model	Factory Charge
S1HV8000D00	* 54.0oz (1531g)
CAHV18D#	
Line Charge	0.64 oz/ft (59 g/m)

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



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Miscellaneous Technical Data			
Condenser Weight	108 lbs (49.1kg)	**Condenser Sound Level** (low/High)	65/68 dBA
Air Handler Weight	156 lbs (70.76kg)	**Condensate Pump Min Flow Rate**	2.5GPH (9.5L/H)
Air Handler Filter	2 washable mesh	**Condensate Pump Max Head**	* 36" (0.9m)

* Measured from bottom of drain pan

NOTICE: Due to ongoing product deveopment; 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.

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