



**SUBMITTAL DH140CAV / UH140CAV**

Medium static, ducted, single zone split system

Job Name	Location		
Purchaser	Engineer		
Submitted to	Reference	Approval	Construction
Unit Designation	Schedule #		

**Specifications**

Performance	Nominal Capacity	Cooling (Btu/h)	48,000
		Heating (Btu/h)	54,600
	Capacity Range	Cooling (Btu/h)	10,000 - 52,600
		Heating (Btu/h)	12,800 - 61,000
	SEER / EER		13.6 / 9.2
	HSPF		9.1
Condensate (pints/hour)		10.8	
Power	Voltage (øV/Hz)		1 / 208-230 / 60
	Rated Current	Cooling/heating (A)	22.0 / 20.7
	Max. Breaker		50 A
	Min. Circuit Ampacity		34 A
Dimensions	W X H X D (inches)	Indoor Unit	47 1/4 X 14 1/8 X 25 5/8
		Outdoor Unit	36 11/16 X 45 3/4 X 14 3/4
	Weight (lbs.)	Indoor Unit	121
		Outdoor Unit	207
	Supply duct connection (inches)		10 X 39 3/8
Condensate Connection		OD 1 1/4", ID 1"	
Heat Exchanger	Indoor & Outdoor Unit	Type	Aluminum Fin - Copper Tube
		FPI	18
		Pipe Diameter	1/4 inch
Sound Pressure Level (dB)	Indoor Unit	Cooling / Heating	49 / 50
	Outdoor Unit		66
Operating Temperatures	Cooling	°F	14 ≤ T ≤ 115
	Heating	°F	-4 ≤ T ≤ 75
Pipe Connections	Indoor & Outdoor	High side (flare)	3/8"
		Low side (flare)	3/4"
	Maximum Line Set Length		246 ft.
	Maximum Vertical Separation		98 ft.
	Oil Trap		Every 32.8' of vertical separation
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge		98.8 oz
	Charged for		25 feet
Additional Refrigerant		0.4 oz/ft over 25'	
Compressor	Manufacturer		Samsung
	Type		DC, Inverter Driven, Twin Rotary
	RLA (A)		24.0
Evaporator Fan	Type		Sirocco (2)
	Air Volume L/MH (CFM)	Cooling	970 / 1,090 / 1,260
		Heating	925 / 1,110 / 1,300
External Static Pressure		Standard/max. (\"WC)	.31 / .47
Condenser Fan	Motor		BLDC With Axial Type Fan (2)
	Output	W	250
	FLA	Amps	2.0
Accessories	Samsung condensate pump		MDP-075SGU2
	Wireless Remote Control*	Wireless remote	MR-BH01U
		Wire from receiver to unit	MRW-10AU
		Wireless signal receiver	MRK-A00U
Wall Bracket (for outdoor unit)		CKN-250	
Safety Certifications		ETL & ETLc	
Warranty	5 Years compressor, 3 Year Parts, 120 Day limited labor		



DH140CAV



UH140CAV

- Low ambient control built in
- Outdoor unit shall provide 208/230V power to indoor unit via 14AWG X 3 interconnect power cable
- Wired controller ships as standard

**Construction**

Indoor unit chassis shall be constructed from galvanized steel

The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability

**Heat Exchanger**

The heat exchanger shall be mechanically bonded fin to copper tube

**Refrigerant System**

The compressor shall be hermetically sealed, inverter controlled, Twin BLDC Rotary

Refrigerant flow shall be controlled by EEV (electronic expansion valve) at outdoor unit

**Indoor Fan**

Indoor fans shall be statically and dynamically balanced, sirocco type with a single BLDC motor

Three fan speed settings and auto setting

**Controls**

Control signal shall be DDC type signal

Interconnect control wiring shall be 16AWG X 2 shielded wire between outdoor and indoor units

Unit shall be operated via wired or wireless controller

System shall connect to Samsung centralized control systems via interface module

Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB.

Nominal heating capacities are based on: Indoor temperature: 70°F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB.

Quietside maintains a policy of ongoing development, specifications are subject to change without notice. Refer to www.AHRIdirectory.org for current reference numbers.





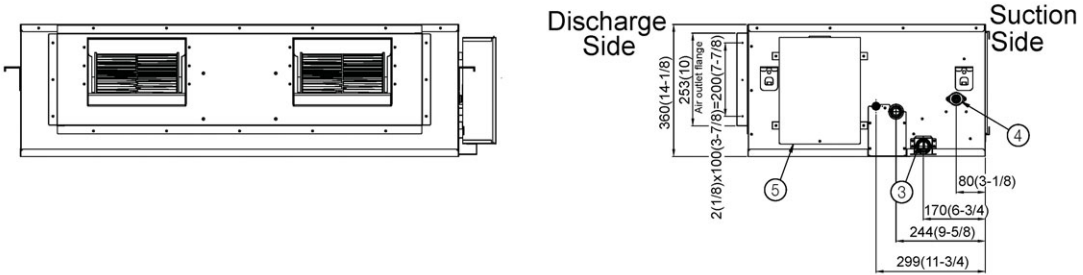
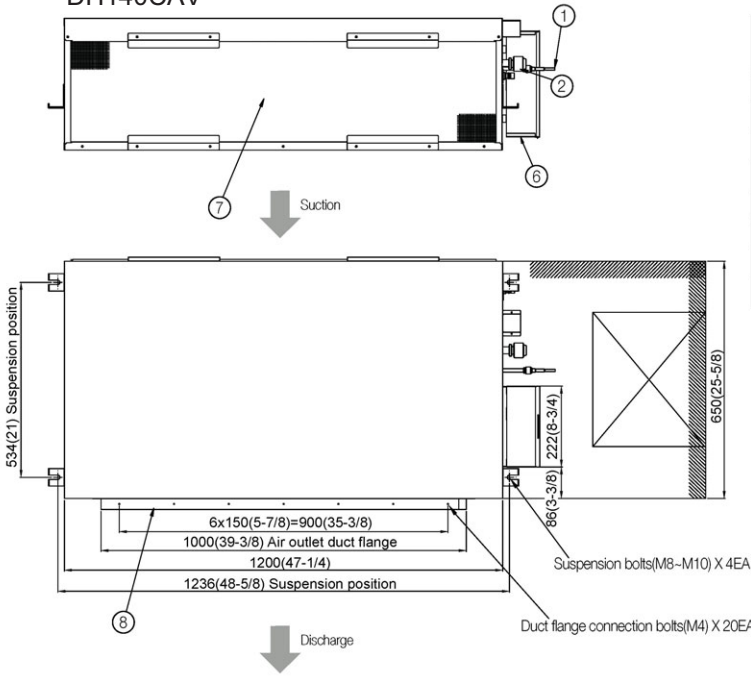
**SUBMITTAL DH140CAV / UH140CAV**

**Medium static, ducted, single zone split system**

Unit: mm (Inches)

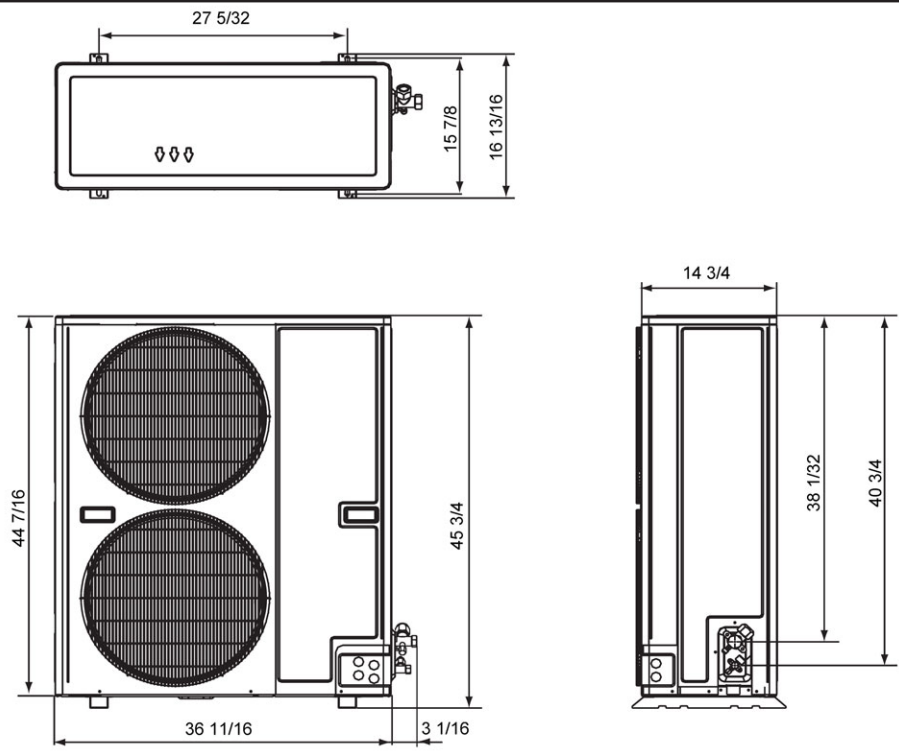
**DH140CAV**

No.	Name	Description
①	Liquid pipe connection	3/8" flare
②	Gas pipe connection	3/4" flare
③	Drain pipe connection without optional drain pump kits	Quick lock
④	Drain pipe connection with optional drain pump kits	
⑤	Control unit	-
⑥	Conduit for power supply & communication wiring	-
⑦	Return air side	-
⑧	Air outlet duct flange	-



**UH140CAV**

Unit: Inches



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**MWR-WE10 Wired Air Handler & ERV Controller**

**Features\***

**Easy air handler and ERV control**

- Air handler and ERV unified controller (can only control Samsung ERV's)
- Air handler operation ON/OFF
- Air handler operation mode, set temperature, air flow direction, fan speed
- Quiet and sleep modes
- Error display
- Filter replacement alarm display and reset
- Single indoor unit control or multiple unit control (maximum 16 units)

**Energy saving operation**

- Upper/lower temperature setting
- Automatic operation stop function
- Energy saving operation mode

**Weekly operating schedule setting**

- Weekly operating schedule (A/C only, ERV only, A/C + ERV)
- Able to set desired A/C operation mode, setting temperature and fan speed to operate based on weekly schedules
- Able to apply schedule exception day

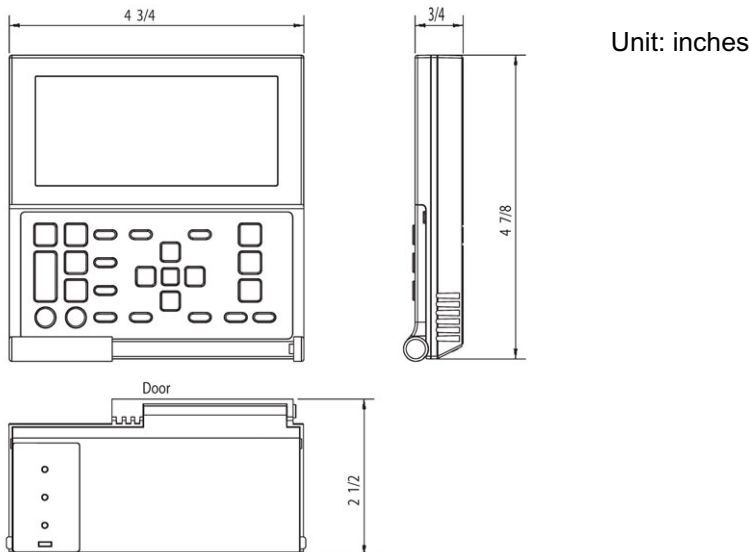
**Other features**

- Partial button lock option (on/off, selection, temperature setting, fan speed, and schedule setting buttons can be locked individually)
- Backlight
- Daylight savings clock advance option
- Temperature limit setting option
- Real-time clock function; current time/day display function
- Built-in room sensor
- Indoor unit operation state display
- Service mode support (indoor unit cycle data monitoring, option code monitoring and setting, and dip switch state monitoring)



- 4 Wire connection
- DC 12V (V1/V2) power supplied by indoor unit
- RS485 communication (F3/F4)
- Can sense temperature via internal sensor, temperature sensor inside the air handler, or use the average temperature between controller and air handler temperature sensors
- MWR-WE10 has screw terminals for all wiring connections, no wire is included
- 16AWG shielded cable is necessary for proper operation

\*Some features may not be available depending on the model of connected air handler(s)



888-699-6067

[www.Quietside.com](http://www.Quietside.com)