

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)	54,500
	Capacity Range	Cooling (Btu/h)	13,800 - 52,500
		Heating (Btu/h)	11,500 - 59,000
	SEER / EER		15.5 / 9.4
	HSPF		8.4
	Condensate (pints/hour)		11.84
Power	Voltage (øV/Hz)		1 / 208-230 / 60
	Rated Current	Cooling/heating (A)	22 / 23
	Max. Breaker		50 A
	Min. Circuit Ampacity		34 A
Dimensions	W X H X D (inches)	Indoor Unit	33 1/16 X 33 1/16 X 11 3/4
		Outdoor Unit	36 11/16 X 44 7/16 X 14 3/4
		Fascia Panel	37 1/2 X 37 1/2 X 1 1/8
	Weight (lbs.)	Indoor Unit	64
		Outdoor Unit	209
		Fascia Panel	15
	Condensate Connection		OD 1 1/8"
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 (high)	49 / 50
	Outdoor Unit (high)		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 26' 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		Turbo
	Air Volume L/M/H (CFM)	Cooling	703 / 788 / 879
		Heating	869 / 978 / 1070
Condenser Fan	Motor		BLDC With Axial Type Fan (2)
	Output	W	250
	FLA	Amps	2.0
Accessories	Wireless Controller		MR-BH01U
	Wall Bracket (for outdoor unit)		CKN-250 (or larger)
Safety Certifications			ETL & ETLc
Warranty	5 Years compressor, 3 Year Parts, 120 Day limited labor		



CH140CAV
(with P4SMA panel)



UH140CAV

- Low ambient control built in
- Outdoor unit shall provide 208/230V power to indoor unit via 14AWG X 3 interconnect power cable
- Electro-static, washable, pleated filter as standard
- Built in condensate pump with check valve, maximum 29" lift (to gravity drain)
- Knock-out for outside air capability (≈4.2% of total CFM with use of booster fan. High voltage fan relay available to operate booster fan, max 1 Amp)
- Unit can facilitate a sub duct to condition a smaller space nearby (≈12% of capacity)
- The fascia panel shall have four motorized, auto-swing louvers that can be fixed in a single position

Construction

Indoor unit chassis shall be insulated, galvanized steel

Fascia panel shall be UL94 V0

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, turbo 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 (included)

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.



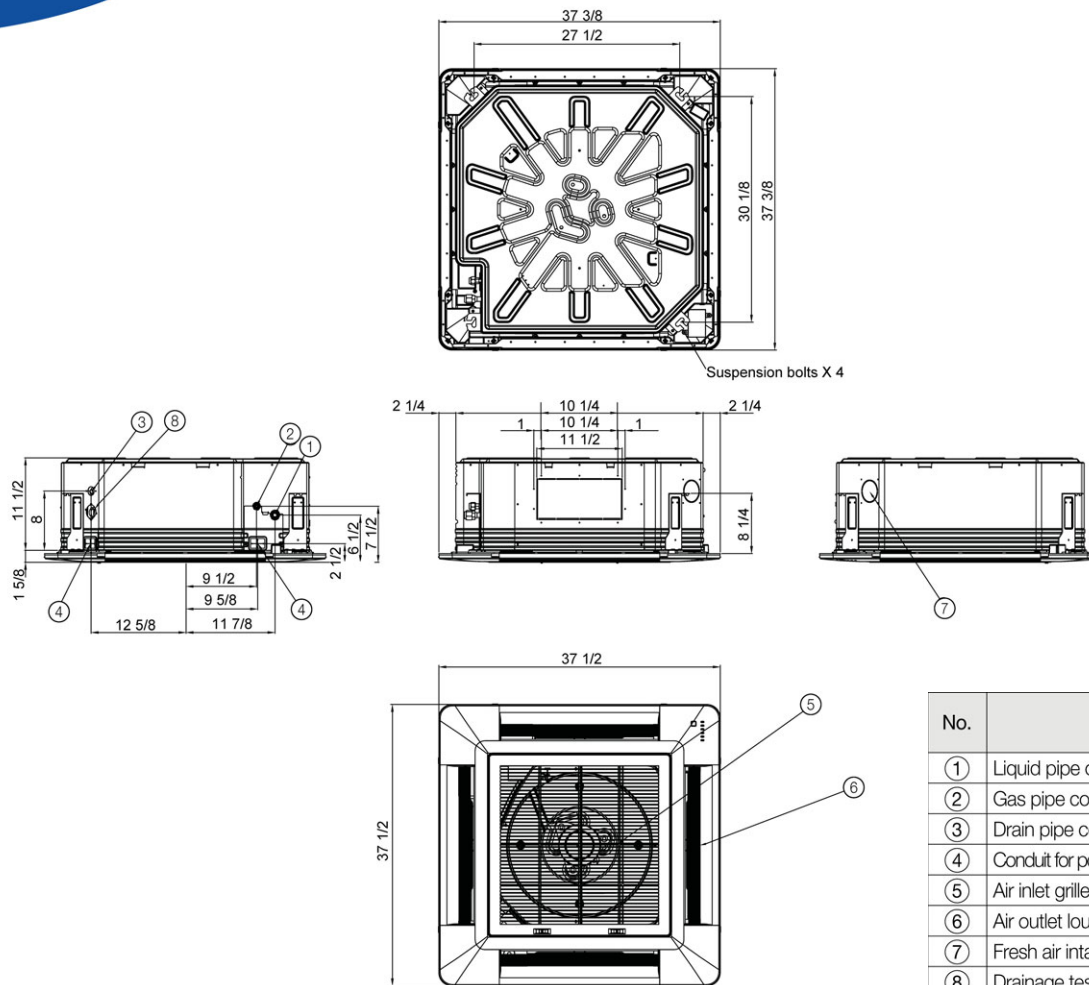


SUBMITTAL CH140CAV / UH140CAV
4 Way Cassette, ducted, single zone split system

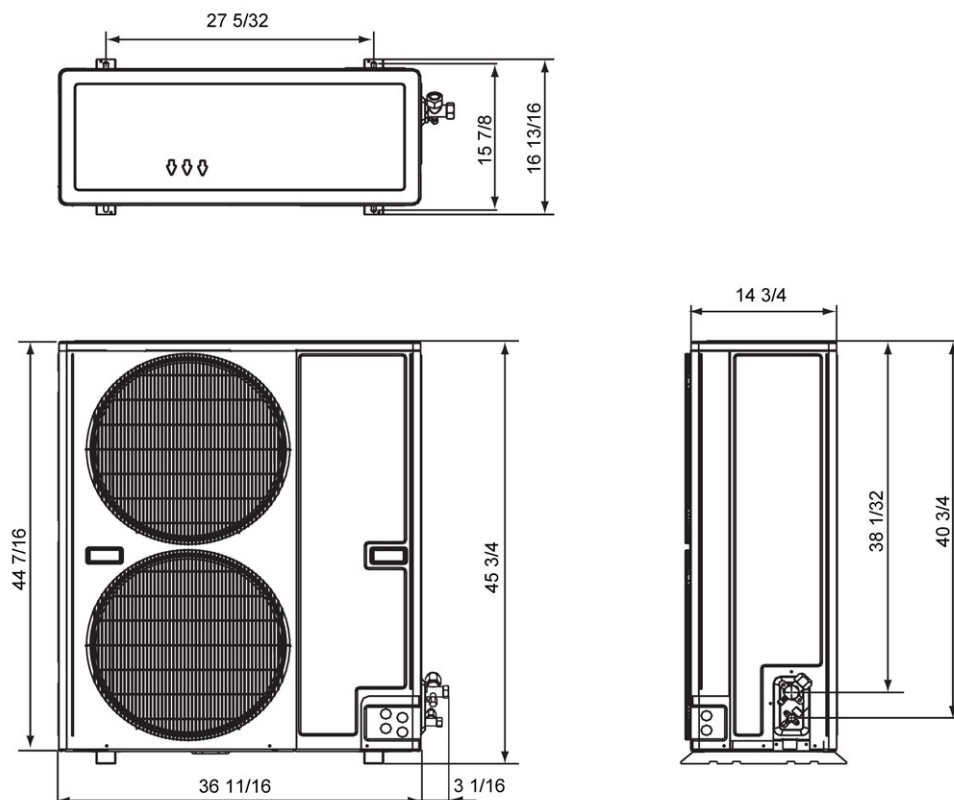
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Unit: inch

CH140CAV



UH140CAV



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SUBMITTAL CH140CAV / UH140CAV 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

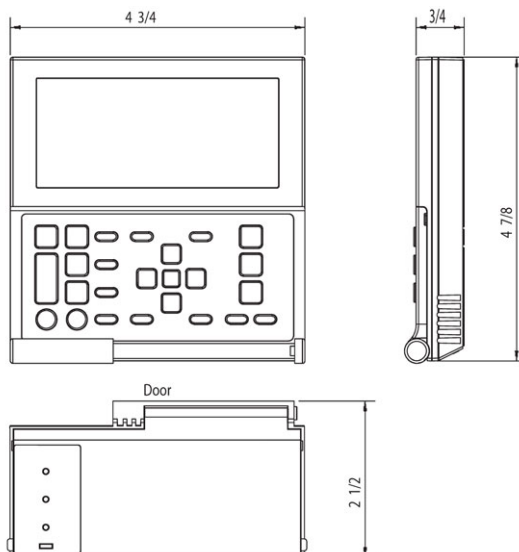
Other features

- 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)

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



- 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



Unit: inches



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