SAMSUNG

SUBMITTAL AR18CSDABWKNCV / AR18CSDAEWKXCV

Samsung Max Heat® 3.0, wall mounted evaporator, split system

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

Specifications

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Madal	Indoor Unit Model No	umber (US Code)	AR18CSDABWKNCV (RNS18ABC)	
Model	Outdoor Unit Model I	Number (US Code)	AR18CSDAEWKXCV (RXS18AEC)	
	Nominal Capacity	Cooling / Heating (Btu/h)	18,000 / 20,000	
Performance	Capacity Range	Cooling (Btu/h)	7,500 - 25,000	
		Heating (Btu/h)	7,500 - 41,000	
	SEER2 / EER2		21 / 13.15	
	HSPF2 (Region IV)		9.7	
Power	Voltage	ø / V / Hz	1 / 208-230 / 60	
	Working Voltage Rar	nge (VAC)	187 - 253	
	Operating Current (min. / std. / max.)	Cooling (A)	2.5 / 6.2 / 11.2	
		Heating (A)	2.6 / 7.0 / 18.0	
	Max. Breaker	Amps	30	
	Min. Circuit Ampacity	/ (A)	21	
	W X H X D (in.)	Indoor Unit	41-9/16 x 11-3/4 x 8-7/16	
		Outdoor Unit	37 x 39-5/16 x 13	
Dimensions		Indoor Unit	27.6	
	Weight (lbs.)	Outdoor Unit	150.4	
	Indoor Unit dB(A)	H / Silent	42 / 25	
Sound Pressure Level	Outdoor Unit dB(A)	High	51	
	` '	Cooling	0 ~ 115°F (-18 ~ 46°C)	
	Outdoor	Heating	-22 ~ 75°F (-30 ~ 24°C)	
Operating Temperatures		Cooling	61 ~ 90°F (16 ~ 32°C)	
	Indoor	Heating	50 ~ 86°F (27 ~ 30°C)	
	Indoor & Outdoor	High side (flare)	1/4"	
		Low side (flare)	1/2"	
Pipe Connections	Maximum (ft.)		98	
	Maximum Vertical Se	eparation (ft.)	66	
	Condensate Connection		11/16" OD	
	Туре		R410A	
	Control Method		Electronic Expansion Valve	
Refrigerant	Factory Charge	lbs.	5.51	
	Charge for	100.	25 ft.	
	Additional Refrigerant Charge		0.16 oz. / ft. over 25 ft.	
	Manufacturer	9-	Samsung	
Compressor	Туре		BLDC Rotary	
	RLA	Amps	15.2	
	Type	, unpo	BLDC motor with cross-flow fan	
	Air Volume	Cooling (CFM)	399 / 466 / 533 / 579	
Evaporator Fan	(L/M/H/Turbo)	Heating (CFM)	424 / 491 / 554 / 600	
	Output	Watts	27	
	FLA	Watts	0.12	
Condenser Fan	Motor		BLDC With Axial Type Fan (1)	
	Output Watts		125	
	FLA	Amps	0.48	
	Air Volume	· '	2,825	
		CFM (max.)	· ·	
Safety	Certifications Devices	UL 60335-2-40 PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing		

¹Certified in accordance with the AHRI Unitary Small Air-Source Heat Pumps (USHP) Certification Program which is based on the latest edition of AHRI Standard 210/240.

Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your contractor or visit www.energystar.gov

*The WindFree™ unit delivers an air current that is under 0.15 m/s while in WindFree™ mode. Air velocity that is below 0.15 m/s is considered "still air" as defined by ASHRAE (American Society of Heating, Refrigeranting, and Air Conditioning Engineers).

Samsung HVAC maintains a policy of ongoing development. Specifications are subject to change without notice. Refer to www.AHRIdirectory.org for current reference numbers.





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(actual equipment appearance may vary)

General Information

- The Samsung Max Heat system shall provide 100% heating capacity at -4°F outdoor temperature and high heating capacity at -22°F outdoor temperature.
- The outdoor unit shall include a base pan heater as standard to ensure optimal defrost cycle water drainage
- The indoor unit shall feature WindFree™* mode. In cooling mode, as room temperature nears set temperature, the unit will close its louver and will disperse air into the space through thousands of micro-holes on the front of the indoor unit preventing cold air drafts on occupants.
- The indoor unit shall have Wi-Fi capability as standard.
- Outdoor unit shall provide 208/230V power to indoor unit via 14 AWG X 3 interconnect power
- Built-in motion sensor for airflow direction control and energy saving operation.

Construction

- Indoor unit chassis shall be UL94 V0 with a galvanized steel mounting bracket
- The indoor unit shall have easy-access to wire, pipe, and drain connections via access panel on the bottom of the unit for simple installation and service
- The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability

Heat Exchanger

The heat exchangers shall be mechanically bonded fin to copper tube

Refrigerant System

- The compressor shall be hermetically sealed, inverter controlled, BLDC Rotary
- · Refrigerant flow shall be controlled by an electronic expansion valve at the outdoor unit

Indoor Fan

- The indoor fan shall be a single, antibacterial cross-flow type
- Three fan speed settings and auto setting
- Automatic (motorized) vertical swing (up/down) and horizontal swing (left/right) louvers

- The system shall have a built in Wi-Fi adapter as standard to allow control and monitoring using the Samsung SmartThings app (Android, iOS)
- Dual set temperature support when connected to MWR-WG00UN Advanced Wired Controller.
- The indoor unit shall have a simple connection for overflow detection devices or any other normally closed contact for simple unit shutdown
- The indoor unit shall ship with a wireless controller, holder, and batteries
- Wired controller options available
- Samsung central control compatible (MIM-R10UN accessory required)
- Interconnect control wire between outdoor and indoor unit shall be 16AWG X 2

- Eco Mode to reduce energy consumption during low demand operation
- Smart install mode startup system diagnostics operation to ensure system readiness during initial operation
- Auto restart
- Auto Clean Function
- Freeze Wash Function
- 7-segment digital display on front of unit to display temperature and unit status
- "Fast" mode to quickly reach set temperature
- Auto changeover
- Good sleep mode Quiet mode
- Dry mode
 - Simple ON/OFF time function Using the wireless controller specify the ON and/or OFF times
- Electro-static, washable, main filter as standard accessible from the top of unit
- Filter cleaning reminder









Samsung Max Heat® 3.0, wall mounted evaporator, split system Optional Accessories

Optional Accessories

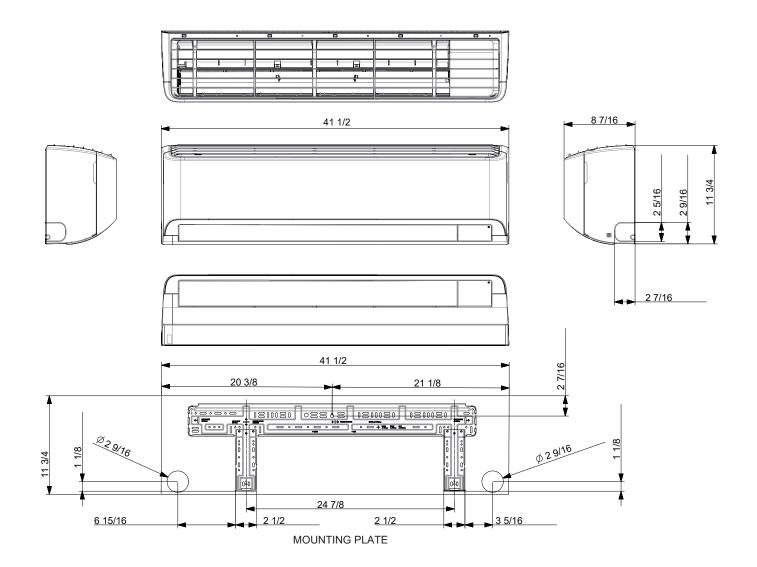
Candanasta numa	Aspen Mini Orange	ASP-MO-UNIV 110-250	
Condensate pump	Blue Diamond	BD-BLUE-230	
Wired controller ¹	Advanced	MWR-WG00UN	
	Simple Touch	MWR-SH11UN	
Wired controller sub-PCB		MIM-A00UN	
24 VAC thermostat adapter ¹		MIM-A60UN	
External temperature sensor		MRW-TA	
Central control interface module		MIM-R10UN	
External contact control interface module ²		MIM-B14	
Line sets - insulated and flared, interconnect cables included		25' - ILS2507	
		50' - ILS5007	
Wall bracket (for outdoor unit)		CKN-250	
Wind Baffle / Guard	Front	WBF-2M-B	
	Back	WBB-3M	

¹ Sub-PCB model MIM-A00UN is required when connecting optional wired controllers or MIM-A60UN 24VAC thermostat adapter.

² When applying MIM-B14 external contact control interface module, MIM-A00UN wired controller sub-PCB is required.

Samsung Max Heat® 3.0, wall mounted evaporator, split system Indoor unit dimensional drawing

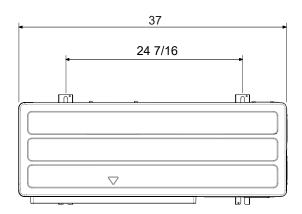
Unit: inches



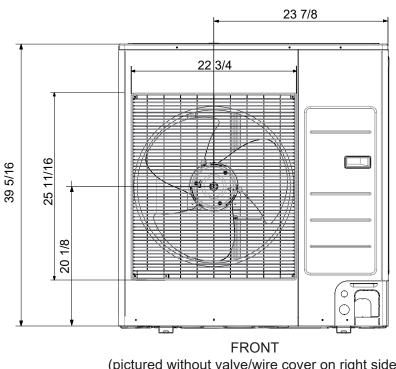
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Unit: inches

Samsung Max Heat® 3.0, wall mounted evaporator, split system Outdoor unit dimensional drawing



(pictured without valve/wire cover on right side)



(pictured without valve/wire cover on right side)

