SAMSUNG

SUBMITTAL AR18TSFYBWKNCV / AR18TSFYBWKXCV

Samsung "Quantum 2.0", wall mounted evaporator, split system

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

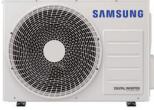
Specifications

		Specifications		
Model	US Code	Indoor Unit	RNS18YBT	
	US Code	Outdoor Unit	RXS18YBT	
	Maralat Niversham	Indoor Unit	AR18TSFYBWKNCV	
	Model Number	Outdoor Unit	AR18TSFYBWKXCV	
Performance	Nominal Capacity 1	Cooling / Heating (Btu/h)	18,000 / 21,000	
	Oit. D	Cooling (Btu/h)	5,500 - 22,000	
	Capacity Range	Heating (Btu/h)	4,000 - 24,500	
	SEER / EER		20 / 11.05	
	COP Nominal Heating		3.35	
	HSPF		11	
	AHRI Reference Number		205132671	
	Voltage Ø / V / Hz		1 / 208-230 / 60	
	Working Voltage Range (VAC)		176 - 254	
_	Operating Current	Cooling (A)	2.0 / 7.4 / 9.2	
Power	(Min./Std./Max.)	Heating (A)	2.2 / 8.2 / 9.0	
	Max. Breaker	Amps	25	
	Min. Circuit Ampac		16	
	· ·	Indoor Unit	41 1/2 X 11 13/16 X 8 7/16	
	WXHXD(in.)	Outdoor Unit	34 5/8 X 25 1/8 X 12 3/16	
Dimensions		Indoor Unit	25.4	
Difficitsions	Weight (lbs.)	Outdoor Unit	87.1	
	Condensate Conn		-	
Sound Pressure	Condensate Conne		11/16" OD	
	Indoor Unit	Low / High (dB)	28 / 41	
Level	Outdoor Unit	High (dB)	51	
0 "	Outdoor	Cooling	14° ~ 115°F (-10° ~ 46.1°C)	
Operating		Heating	-5° ~ 75°F (-20.5° ~ 23.9°C)	
Temperatures	Indoor	Cooling	61° ~ 90°F (16° ~ 32°C)	
		Heating	81°F (27°C) or less	
	Indoor & Outdoor	High side (flare)	1/4"	
Pipe Connections		Low side (flare)	1/2"	
i ipe connections	Maximum / Minimum Line Set Length (ft.)		98 / 9.8	
	Maximum Vertical	Separation (ft.)	66	
	Type		R410A	
	Control Method		Electronic Expansion Valve	
Refrigerant	Factory Charge	oz.	45.9	
	Charged for		25 feet	
	Additional Refriger	ant	0.16 oz. / ft. over 25 feet	
	Manufacturer		Samsung	
Compressor	Type		BLDC Rotary	
	RLA	A	12	
	Туре		BLDC motor with cross-flow far	
	Air Volume	Cooling (CFM)	459 / 509 / 558 / 583	
Evaporator Fan	(L/M/H/Turbo)	Heating (CFM)	459 / 509 / 558 / 583	
_ rapolato. r a.i.	Consumption	Watts	27 X 1	
	FLA	Amps	0.12	
Condenser Fan	Motor		BLDC motor with axial fan (1)	
	Output	Watts	40	
	FLA	Amps	0.18	
	Air Volume	CFM (max.)	1,766	
	Certifications			
Safety		PCB fuses, indoor unit termina	ETL (UL 1995) PCB fuses, indoor unit terminal block thermal fuse, current	
Jaioty	Devices	transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing		

¹ Certified 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.

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 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 cable

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) louver

Controls

- 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)

Convenience

- System energy consumption can be viewed using the Samsung SmartThings mobile app or on the indoor unit display using the included wireless controller**
- Al (artificial intelligence) Auto Mode technology monitors factors such as indoor temperature, outdoor temperature, set temperature, and operating time to learn the patterns within your home to automatically adjust system operation to maximize occupant comfort and efficiency (Wi-Fi connection required)
- •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
- •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 "Quantum 2.0", wall mounted evaporator, split system Optional Accessories

Optional Accessories

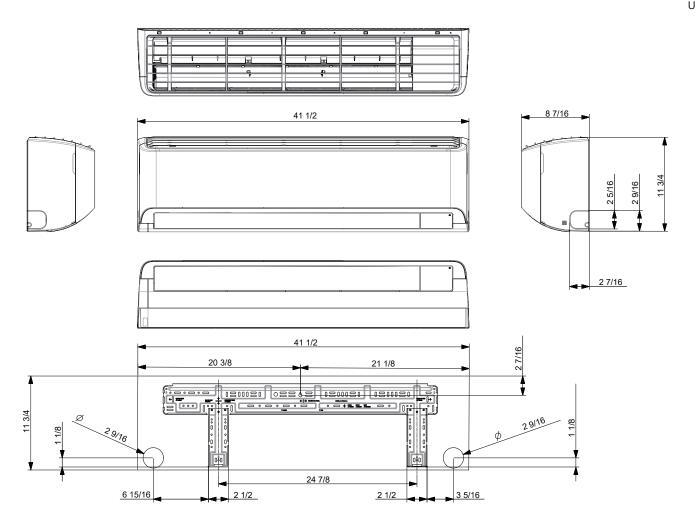
Condensate pump	Aspen Mini Orange	ASP-MO-UNIV 110-250
	Blue Diamond	BD-BLUE-230
Wired controller ¹	Advanced	MWR-WG00UN
	Simple Touch	MWR-SH11UN
Wired controller sub-PCB		MIM-A00UN
External temperature sensor		MRW-TA
Central control interface module		MIM-R10UN
External contact control interface module ²		MIM-B14
Line sets - insulated and flared, interconnect cables included		25' - ILS2507
		50' - ILS5007
Wall bracket (for outdoor unit)		CKN-250

¹ Sub-PCB model MIM-A00UN is required when connecting optional wired controllers

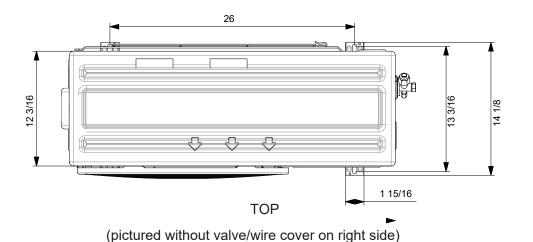
² When applying MIM-B14 external contact control interface module, MIM-A00UN wired controller sub-PCB is required.

Samsung "Quantum 2.0", wall mounted evaporator, split system Indoor unit dimensional drawing

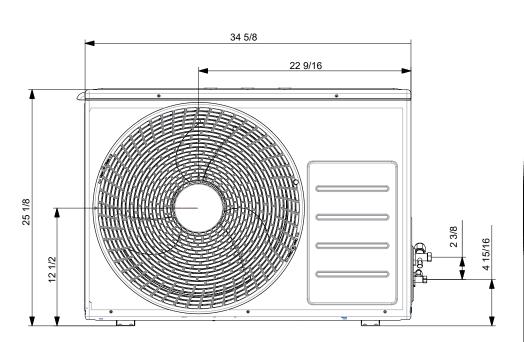
Unit: inches



Samsung "Quantum 2.0", wall mounted evaporator, split system Outdoor unit dimensional drawing



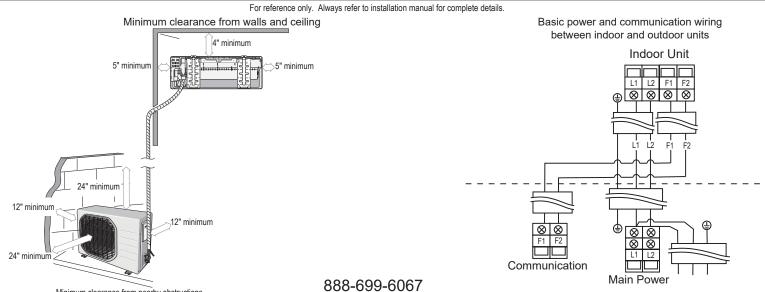
Unit: inches



12 3/16 8/8 Z 13 1/2 RIGHT

(pictured without valve/wire cover)

FRONT (pictured without valve/wire cover on right side)



Minimum clearance from nearby obstructions
(See installation manual for full details. Be aware of national, state, and local codes)

888-699-6067 www.SamsungHVAC.com

Outdoor Unit