# **SAMSUNG**

US Code

Model Number

Nominal Capacity

# SUBMITTAL AR18TSFABWKNCV / AR18TSFACWKXCV

Samsung "Max Heat 2.0", wall mounted evaporator, split system

Approval

Job	Name

Purchaser

Submitted to

Unit Designation

Model

Location Engineer

Reference

Construction

Schedule #

	RNS18ABT
SAMESHIS	RXS18ACT
	AR18TSFABWKNCV
	AR18TSFACWKXCV
	18,000 / 20,600
	7,500 - 23,884
(actual equipment appearance may vary)	7,000 - 37,000
(actual equipment appearance may vary)	21 / 13
	3.7
	10
General Information	205132635



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•The Samsung Max Heat system shall provide 100% heating capacity at 5°F outdoor temperature and high heating capacity at -13°F outdoor temperature. •The outdoor unit shall have a base pan heater as standard to ensure

optimal defrost cycle water drainage.

• The indoor unit shall feature "Wind-Free™" 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 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) and horizontal swing (left/right) louvers

#### 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)
- Interconnect control wire between outdoor and indoor unit shall be 16AWG X 2

### Convenience

- •System energy consumption can be viewed using the Samsung SmartThings mobile app or on the indoor unit display using the included wireless controller\*\*
- AI (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
- Drv 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

	Capacity Range	Cooling (Btu/h)	7,500 - 23,884
	. , ,	Heating (Btu/h)	7,000 - 37,000
Performance	SEER / EER	•••••	21 / 13
	COP	Nominal Heating	3.7
	HSPF		10
	AHRI Reference Nu	mber	205132635
	Voltage	Ø / V / Hz	1 / 208-230 / 60
	Working Voltage Ra	nge (VAC)	176 - 254
Deurer	Operating Current	Cooling (A)	2.5 / 6.2 / 11.2
Power	(Min./Std./Max.)	Heating (A)	2.3 / 7.3 / 17.1
	Max. Breaker	Amps	30
	Min. Circuit Ampacit	y (A)	20
		Indoor Unit	41 17/32 X 11 3/4 X 8 7/16
	W X H X D (in.)	Outdoor Unit	34 5/8 X 31 7/16 X 12 3/16
Dimensions		Indoor Unit	27.6
	Weight (lbs.)	Outdoor Unit	122.6
	Condensate Connection		11/16" OD
Sound Pressure	Indoor Unit	Low / High (dB)	25 / 42
Level	Outdoor Unit	High (dB)	51
		Cooling	0° ~ 115°F (-17.7° ~ 46.1°C)
Operating	Outdoor	Heating	-13° ~ 75°F (-25° ~ 23.9°C)
Temperatures		Cooling	61° ~ 90°F (16° ~ 32°C)
romporataroo	Indoor	Heating	81°F (27°C) or less
	Indoor & Outdoor	High side (flare)	1/4"
		Low side (flare)	1/2"
Pipe Connections	Maximum / Minimun	n Line Set Length (ft.)	98 / 9.8
	Maximum Vertical Separation (ft.)		66
	Type		R410A
	Control Method		Electronic Expansion Valve
Refrigerant	Factory Charge	OZ.	63.5
Reingerant	Charged for	02.	25 feet
	Additional Refrigerant		0.16 oz. / ft. over 25 ft.
	Additional Retrigerant Manufacturer		Samsung
Compressor	Туре		BLDC Rotary
Compressor	RLA A		15.2
	Type	A	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
Evaporator Fan	Consumption	Watts	424 / 491 / 554 / 600 27 X 1
	FLA		0.12
	Motor	Amps	0.12 BLDC motor with axial fan (1)
Condenser Fan		Matta	
	Output	Watts	125
	FLA Air Valuma	Amps	0.48
	Air Volume	CFM (max.)	2,225
	Certifications	EIL (U	JL 1995)
Safety	Devices	PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing	

Specifications

Indoor Unit

Outdoor Unit

Indoor Unit

Outdoor Unit

Cooling / Heating (Btu/h)

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.

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 for details or visit www.energystar.gov

\*The Wind-Free™ unit delivers an air current that is under 0.15 m/s while in Wind-Free™ mode. Air velocity that is below 0.15 m/s is considered "still air" as defined by ASHRAE (American Society of Heating, Refrigerating, 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.







# SAMSUNG

## SUBMITTAL AR18TSFABWKNCV / AR18TSFACWKXCV Page Samsung "Max Heat 2.0", wall mounted evaporator, split system Optional Accessories

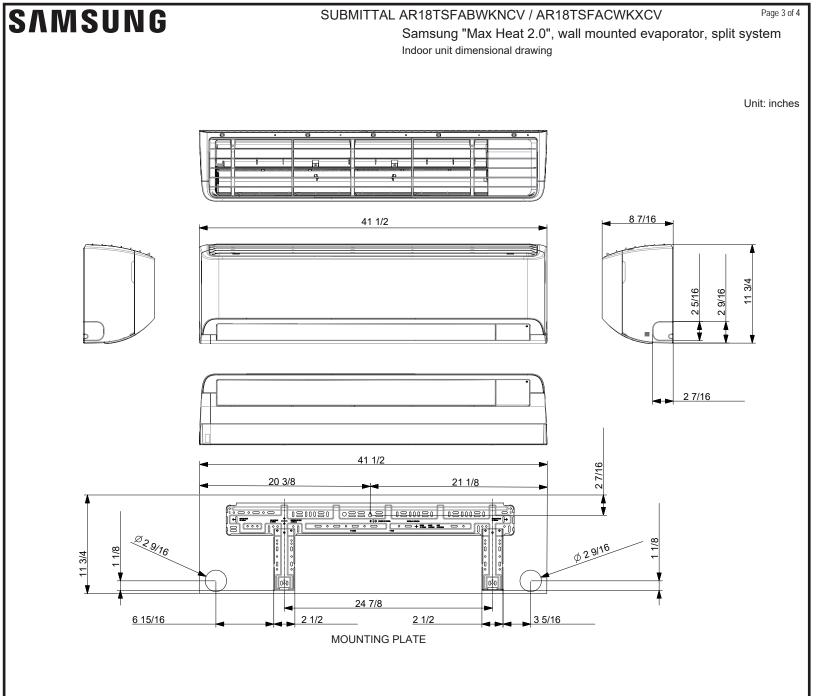
### **Optional Accessories**

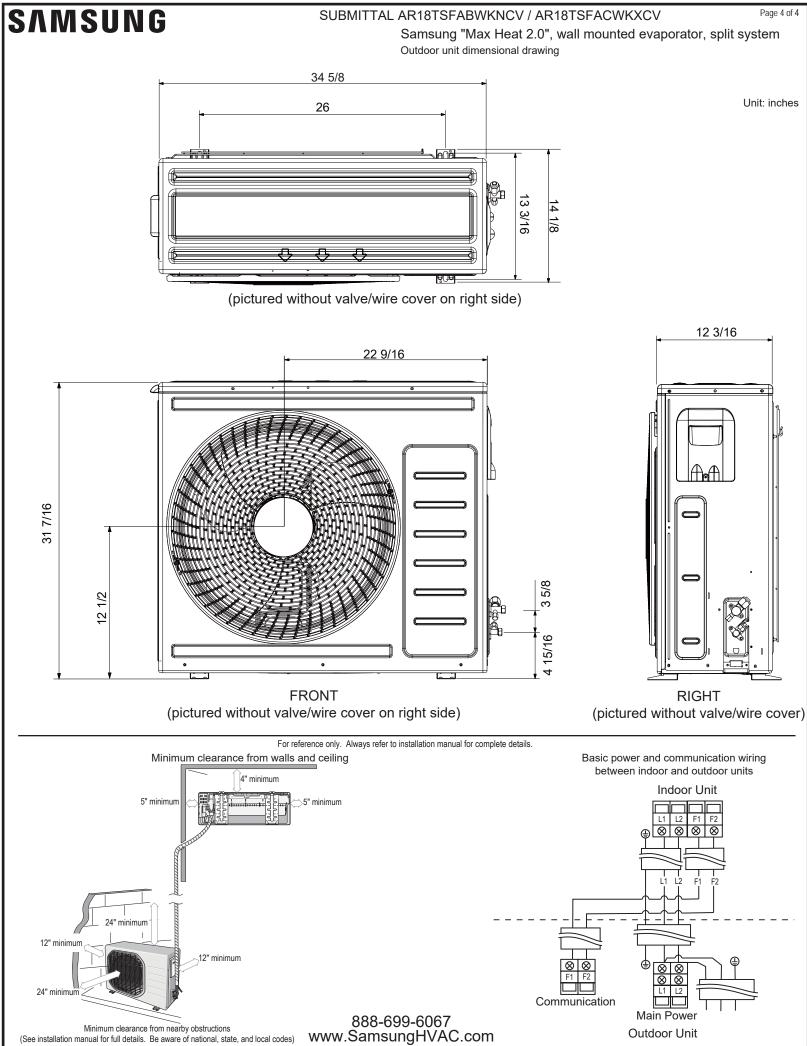
Condensate pump	Aspen Mini Orange	ASP-MO-UNIV 110-250
	Blue Diamond	BD-BLUE-230
Wired controller <sup>1</sup>	Advanced	MWR-WG00UN
	Simple Touch	MWR-SH11UN
Wired controller sub-PCB		MIM-A00UN
24 VAC thermostat adapter <sup>1</sup>		MIM-A60UN
External temperature sensor		MRW-TA
Central control interface module		MIM-R10UN
External contact control interface module <sup>2</sup>		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-7M
	Back	WBB-7M-B

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

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

## 888-699-6067 www.SamsungHVAC.com





(See installation manual for full details. Be aware of national, state, and local codes)