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SUBMITTAL

M5MHWUN09A1N0AA / M5THS1909A11NAA 19 Series Split System (R-454B) Single-Zone, Inverter System, 9,000 BTU/Hr

Specifications - General Data IP

Cooling @95F	Rated Capacity	9000	BTUH
	Capacity Range	2000~11100	BTUH
	Rated Power Input	680	W
	Dehumidying Volume	1.1	Pints/h
Heating @47F	Rated Capacity	10000	BTUH
	Capacity Range	2500~12500	BTUH
	Rated Power Input	730	W
Heating @17F	Rated Capacity	5800	BTUH
	Capacity Range	4000~9100	BTUH
	Rated Power Input	640	W
Heating @5F	Rated Capacity	7100	BTUH
	Capacity Range	3400~7600	BTUH
	Rated Power Input	1020	W
Heating @ -13F	Rated Capacity	N/A	BTUH
	Capacity Range	N/A	BTUH
	Rated Power Input	N/A	W
Efficiency	SEER2	24	
	EER2	13	
	HSPF2 [Region I, II, III, or IV etc.]	10(Region IV) 8.6(Region V)	
	COP @ 47F	3.81	
	Energy Star Certified	Yes	
Electrical	Voltage	208/230	V
	Phase	1	PH
	Frequency	60	Hz
	Maximum Fuse Size	15	A
Indoor Unit	Model Number	M5MHWUN09A1N0AA	
	MCA	0.6	A
	Fan Motor FLA	0.3	A
	Fan Motor Type	DC	Motor Type
	Motor Speed	1270	RPM
	Motor Horsepower	0.094	HP
	Airflow	326	CFM
	Refrigerant Control	Capillary Tube	
	Sound Pressure Level	43	dB(A)
	Unit Dimensions	32.28×12.05×7.68	Inch
	Package Dimensions	35.04×14.96×10.43	Inch
	Unit Weight	20.7	lbs
	Shipping Weight	25.1	lbs
	Evaporator Coil Type	copper	
	Heat Exchanger Coatin	Hydrophilic grilled hole Fin	

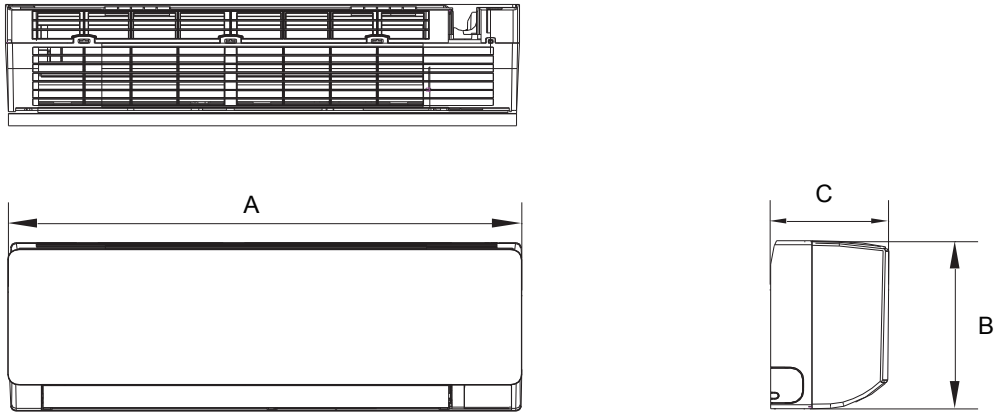
Outdoor Unit	Model Number	M5THS1909A11NAA	
	MCA	10	A
	MOP	15	A
	Fan Motor Output	33	W
	Motor Speed	1000	RPM
	Airflow	326	CFM
	Refrigerant Control	Capillary Tube	
	Defrost Method	Automatic Defrosting	
	Sound Pressure Level	50	dB(A)
	Compressor Type	Inverter Rotery	
	Compressor Oil	VG74 280ml	
	Condenser Coil Type	copper	
	Unit Dimensions	28.66x12.01x21.65	Inch
	Package Dimensions	33.07x13.39x23.82	Inch
	Unit Weight	52.7	lbs
	Shipping Weight	57.1	lbs
Operating Temparture Range	Operating Temperature Range - Cooling	5~131/-15~55	F / C
	Operating Temperature Range - Heating	-13~86/-25~30	F / C
Refrigerant	Type	R454B	
	Charge	1.57/25.04	lbs, oz
	Gas Line Size	3/8"	Inch
	Liquid Line Size	1/4"	Inch

NOTES:

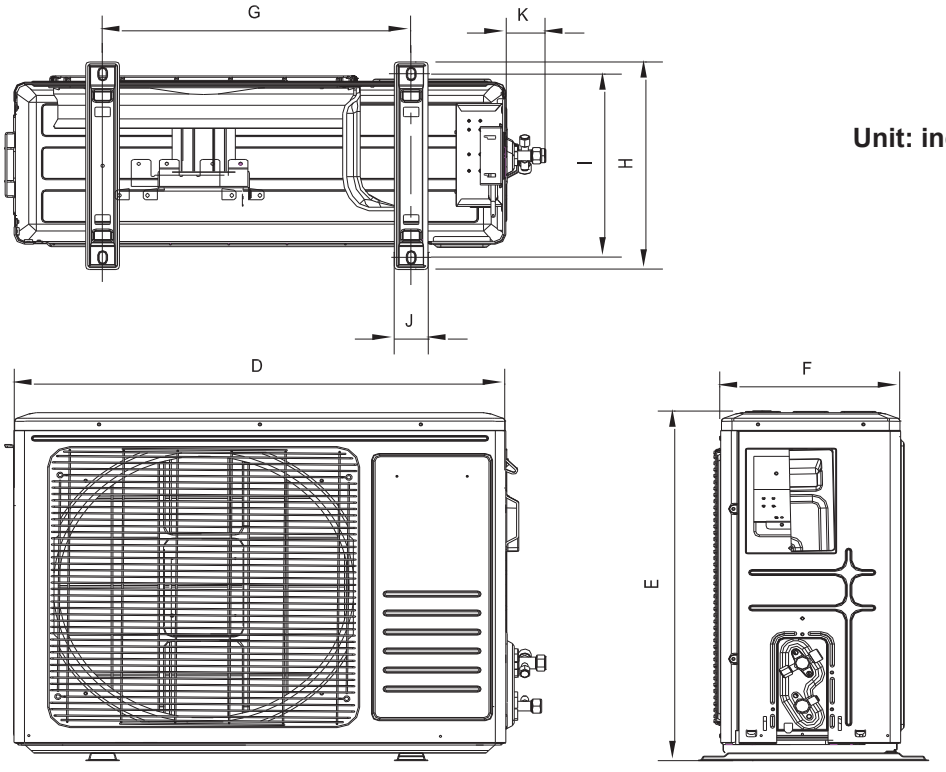
- The refrigerant charge mentioned in the technical data does not include additional charge required for the indoor unit and refrigerant pipe.
- The amount of the additional refrigerant charge depends on the length of the liquid refrigerant pipe installed.
- Record the additional refrigerant charge for future maintenance.

Unit Dimensions

Indoor Unit:



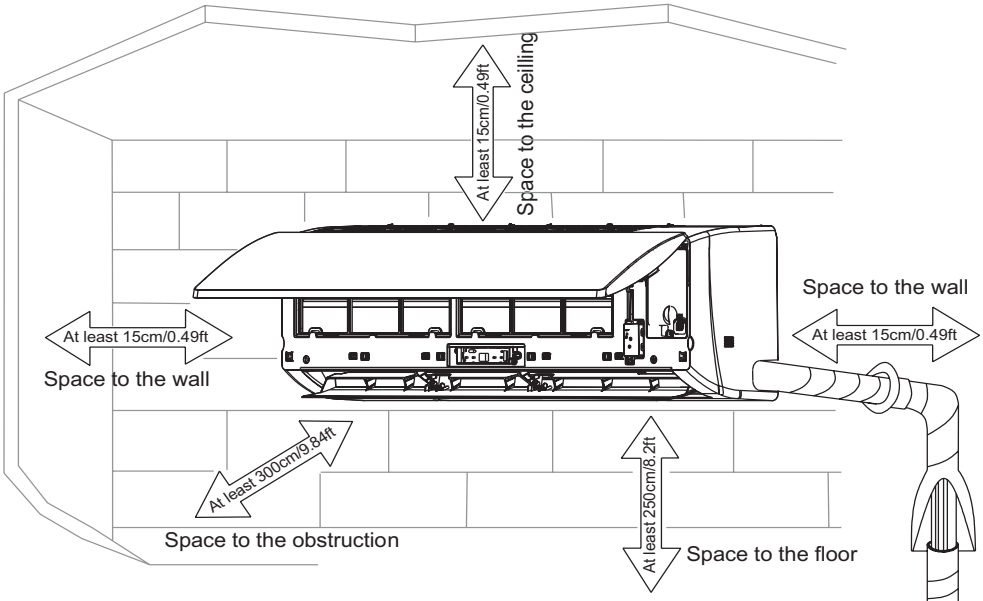
Outdoor Unit:



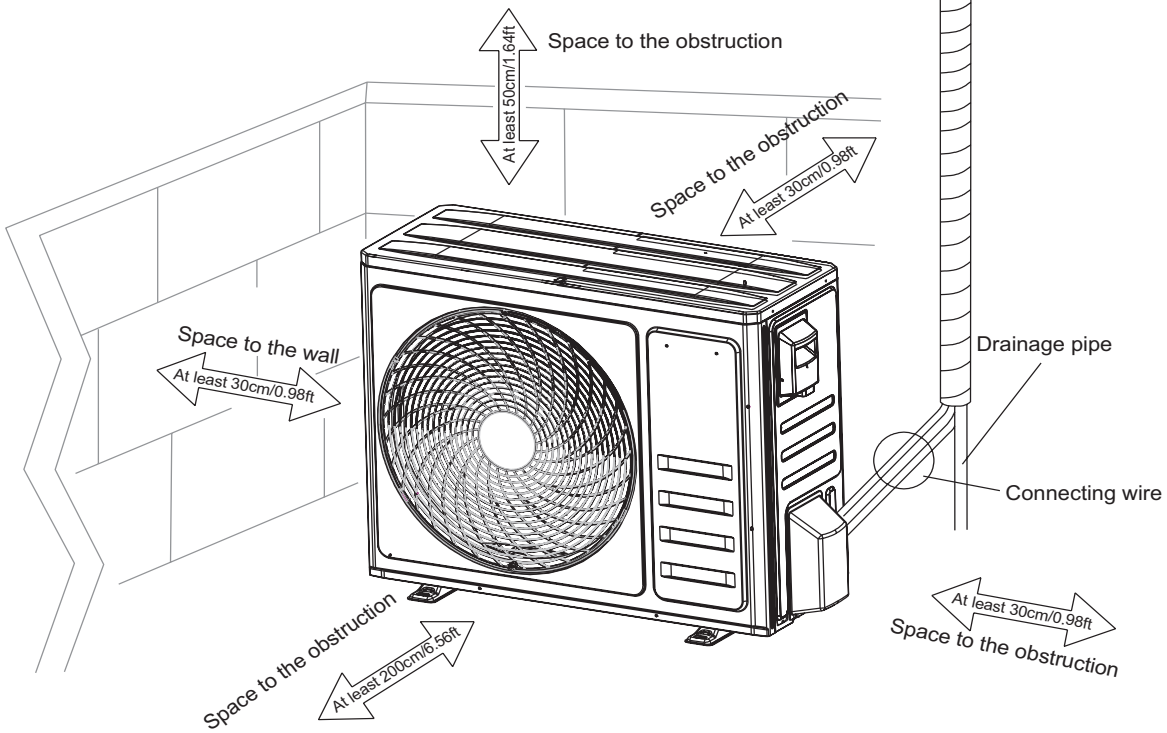
Unit: inch/mm

Model	Indoor unit (inch/mm)			Outdoor unit (inch/mm)							
	A	B	C	D	E	F	G	H	I	J	K
9000BTU	32.28/ 820	12.05/ 306	7.68/ 195	28.66/ 728	21.61/ 549	9.92/ 252	17.08/ 433.8	12.01/ 305	10.94/ 278	1.89/ 48	2.05/ 52

Clearance Requirements



The dimensions of the space necessary for correct installation of the appliance including the minimum permissible distances to adjacent structures.



Note:
The maximum recommended height from the floor to the bottom of the indoor unit is 11.5 ft. (3.5 m).

Performance Data

M5MHWUN09A1N0AA / M5THS1909A11NAA - Cooling Mode Performance Data

Outdoor		70F DB (21C)		75F DB (24C)		80F DB (27C)		90F DB (32C)	
Coil air		59F WB (15C)		63F WB (17C)		67F WB (19C)		73F WB (23C)	
DB F	DB C	TC*	SHC**	TC	SHC	TC	SHC	TC	SHC
5	-15	5768	4499	6221	4790	6345	4962	7834	4779
14	-10	5396	4209	5828	4546	5828	4610	7377	4500
23	-5	5135	4005	5567	4287	5289	4162	7051	4301
34	1	5911	4610	6351	4890	5970	4704	8067	4921
54	12	6149	4735	6653	5123	8117	6088	8455	5158
68	20	8725	5846	9410	6210	9598	6498	11849	6162
77	25	9876	6617	10658	7034	10765	7288	13456	6997
86	30	10425	8131	11227	7410	11676	7905	14239	7404
95	35	9135	6120	9843	6497	11418	7730	12411	6454
109	43	6976	5232	7504	5553	9906	7489	9525	5620
118	48	7053	5290	7604	5703	9733	7397	9637	5686
131	55	4038	3998	4354	4267	5007	5002	5502	4292
*Total Capacity (BtuH) **Sensible Heat Capacity (BtuH)									

M5MHWUN09A1N0AA / M5THS1909A11NAA - Heating Mode Performance Data

Outdoor		70F DB (21C)	75F DB (24C)	80F DB (27C)
Coil air		59F WB (15C)	63F WB (17C)	67F WB (19C)
DB F	DB C	TC*	TC	TC
-13	-25	5044	4489	4439
-4	-20	6048	5254	5190
0	-18	7141	6070	5927
5	-15	7633	6793	6717
17	-8	8445	7178	7094
25	-4	8939	7599	7420
32	0	9502	7982	7887
35	2	9717	8260	8065
39	4	10659	8740	8527
47	8	11850	10072	9835
54	12	12703	10670	10416
57	14	12897	10576	10318
*Total Capacity (BtuH)				

Capacities in these performance tables reflect normal operation at the temperatures indicated. See specification tables above for certified values under prescribed test conditions.

About Trane and American Standard Heating and Air Conditioning
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The manufacturer has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

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Supersedes (New)
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