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SUBMITTAL

M5MHWUN12A1N0AA / M5THS2312A11NAA — 23 Series Split System (R-454B) Single-Zone, Inverter System, 12,000 BTU/Hr

Specifications - General Data IP

Cooling @95F	Rated Capacity	12000	BTUH
	Capacity Range	2000~13100	BTUH
	Rated Power Input	970	W
	Dehumidying Volume	1.6	Pints/h
Heating @47F	Rated Capacity	12600	BTUH
	Capacity Range	3100~13800	BTUH
	Rated Power Input	925	W
Heating @17F	Rated Capacity	8100	BTUH
	Capacity Range	4100~9700	BTUH
	Rated Power Input	769	W
Heating @5F	Rated Capacity	9100	BTUH
	Capacity Range	4300~9100	BTUH
	Rated Power Input	760	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	M5MHWUN12A1N0AA	
	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	471	CFM
	Refrigerant Control	Capillary Tube	
	Sound Pressure Level	46	dB(A)
	Unit Dimensions	36.22×12.05×7.68	Inch
	Package Dimensions	38.98×14.96×10.43	Inch
	Unit Weight	23.1	lbs
	Shipping Weight	30.9	lbs
	Evaporator Coil Type	copper	
	Heat Exchanger Coating	Hydrophilic grilled hole Fin	

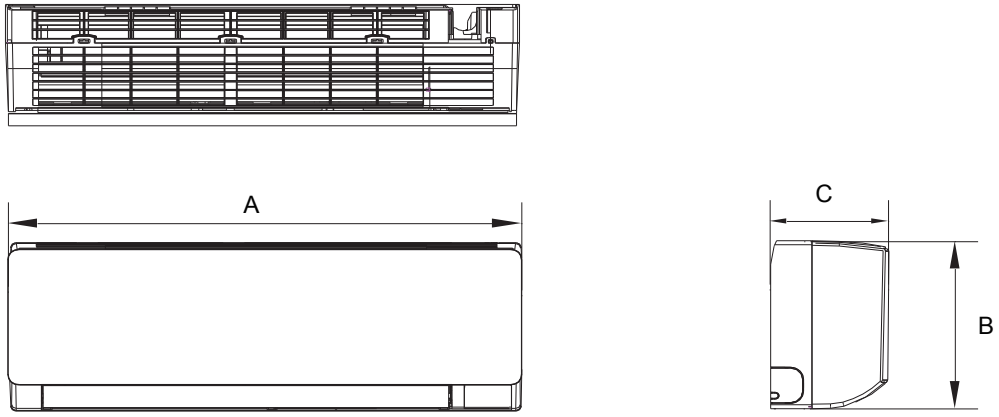
Outdoor Unit	Model Number	M5THS2312A11NAA	
	MCA	11	A
	MOP	15	A
	Fan Motor Output	33	W
	Motor Speed	1000	RPM
	Airflow	471	CFM
	Refrigerant Control	Capillary Tube	
	Defrost Method	Automatic Defrosting	
	Sound Pressure Level	52	dB(A)
	Compressor Type	Inverter Rotery	
	Compressor Oil	VG74 280ml	
	Condenser Coil Type	copper	
	Unit Dimensions	28.66x12.01x21.65	Inch
	Package Dimensions	33.07x13.39x23.82	Inch
	Unit Weight	58.4	lbs
	Shipping Weight	65	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	2.20/35.27	lbs, oz
	Gas Line Size	3/8"	Inch
	Liquid Line Size	1/4"	Inch

NOTES:

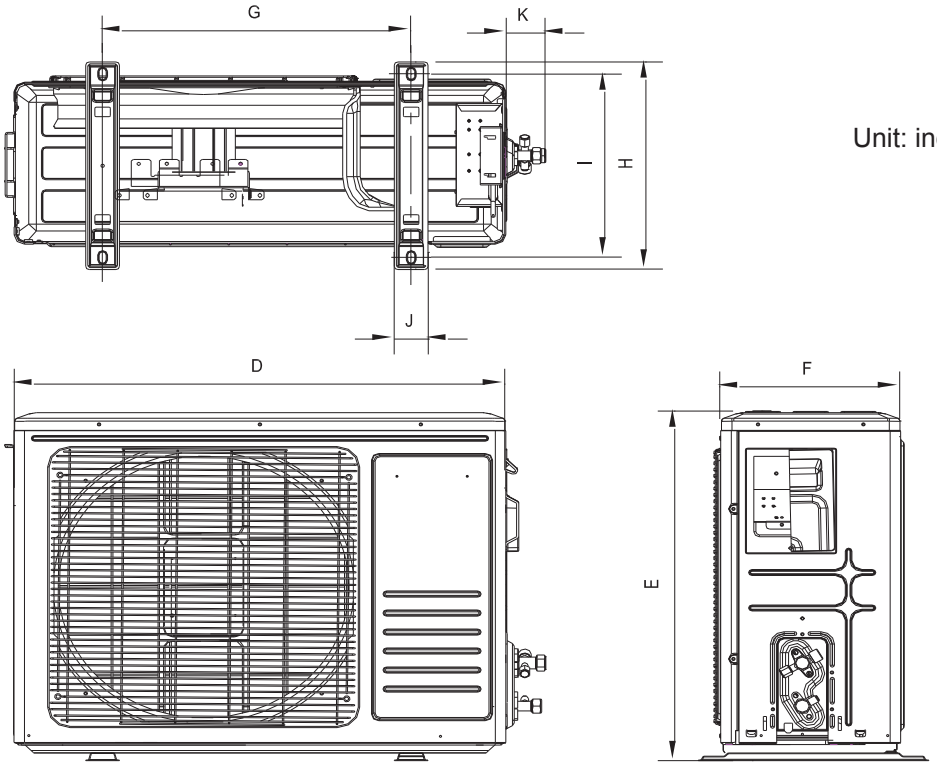
- The refrigerant charge mentioned in the technical data does not include additional charge required for the indoor unit and refrigerant pipe.
- The amount of the additional refrigerant charge depends on the length of the liquid refrigerant pipe installed.
- Record the additional refrigerant charge for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

Unit Dimensions

Indoor Unit:



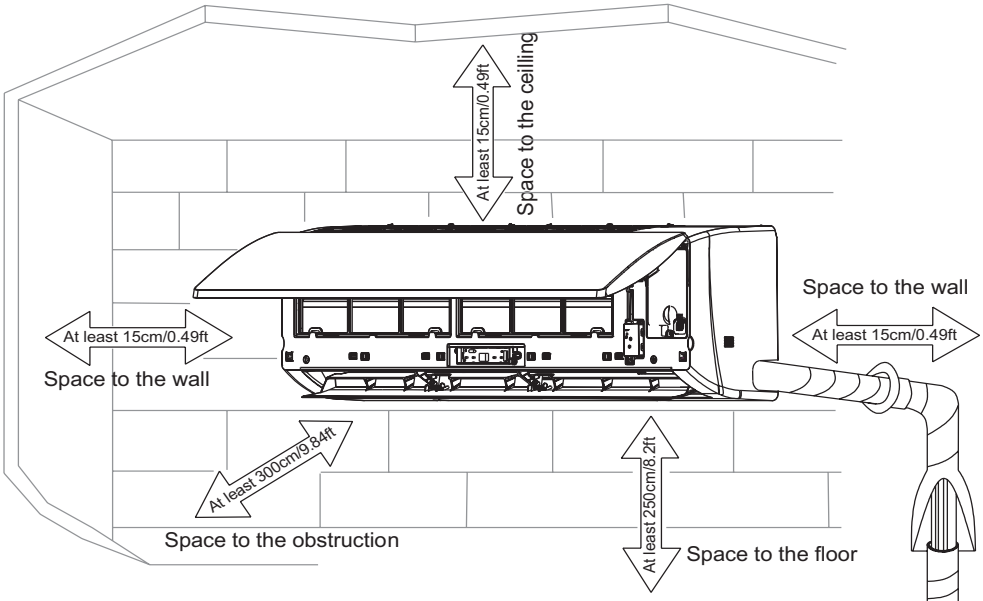
Outdoor Unit:



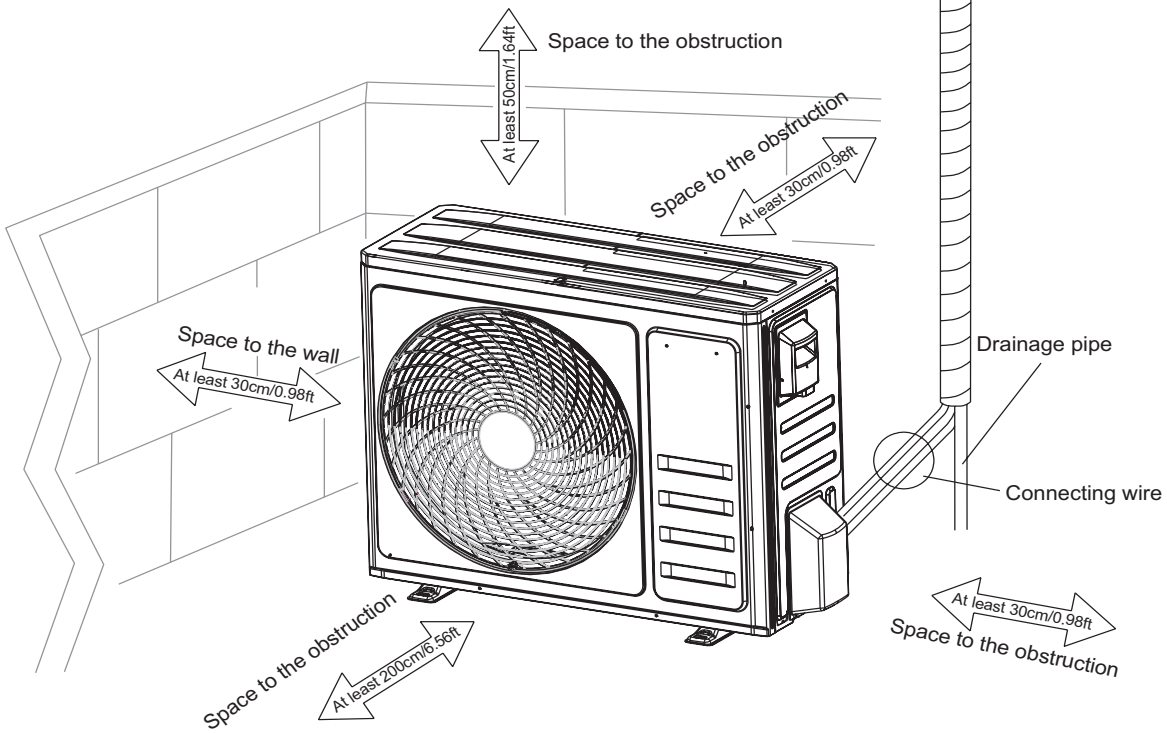
Unit: inch/mm

Model	Indoor unit (inch/mm)			Outdoor unit (inch/mm)							
	A	B	C	D	E	F	G	H	I	J	K
12000BTU	36.22/ 920	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

M5MHWUN12A1N0AA / M5THS2312A11NAA - 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	2000	1685	2148	1793	2395	2031	2716	1797
14	-10	1966	1657	2112	1763	2355	1997	2671	1767
23	-5	1900	1601	2041	1703	2275	1929	2580	1707
34	1	1981	1669	2128	1776	2372	2011	2690	1790
54	12	2601	2192	2794	2332	3115	2641	3532	2337
68	20	2717	2290	2919	2436	3254	2759	3690	2442
77	25	2841	2394	3052	2547	3402	2884	3858	2553
86	30	3014	2541	3238	2703	3610	3061	4094	2709
95	35	3105	2617	3335	2784	3718	3153	4216	2790
109	43	3212	2707	3451	2880	3847	3262	4362	2887
118	48	3091	2605	3321	2772	3702	3139	4198	2778
131	55	1470	1239	1580	1318	1761	1493	1997	1321
*Total Capacity (BtuH) **Sensible Heat Capacity (BtuH)									

M5MHWUN12A1N0AA / M5THS2312A11NAA - 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	2001	1971	1932
-4	-20	2470	2433	2385
0	-18	2638	2598	2547
5	-15	2882	2839	2783
17	-8	3335	3285	3220
25	-4	3563	3509	3440
32	0	3769	3712	3639
35	2	3854	3796	3721
39	4	4407	4340	4255
47	8	5199	5121	5020
54	12	5361	5280	5176
57	14	5420	5338	5233
*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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