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SUBMITTAL

M5MHWUN24A1N0AA / M5THS2324A11NAA — 23 Series Split System (R-454B) Single-Zone, Inverter System, 24,000 BTU/Hr

Specifications - General Data IP

Cooling @95F	Rated Capacity	23000	BTUH
	Capacity Range	7550~24700	BTUH
	Rated Power Input	1860	W
	Dehumidying Volume	2.6	Pints/h
Heating @47F	Rated Capacity	25000	BTUH
	Capacity Range	8700~31000	BTUH
	Rated Power Input	2000	W
Heating @17F	Rated Capacity	20800	BTUH
	Capacity Range	9700~22000	BTUH
	Rated Power Input	2960	W
Heating @5F	Rated Capacity	18900	BTUH
	Capacity Range	10100~19500	BTUH
	Rated Power Input	2870	W
Heating @ -13F	Rated Capacity	N/A	BTUH
	Capacity Range	N/A	BTUH
	Rated Power Input	N/A	W
Efficiency	SEER2	23	
	EER2	12	
	HSPF2 [Region I, II, III, or IV etc.]	9.5(Region IV) 8.2(Region V)	
	COP @ 47F	3.41	
	Energy Star Certified	Yes	
Electrical	Voltage	208/230	V
	Phase	1	PH
	Frequency	60	Hz
	Maximum Fuse Size	25	A
Indoor Unit	Model Number	M5MHWUN24A1N0AA	
	MCA	0.6	A
	Fan Motor FLA	0.3	A
	Fan Motor Type	DC	Motor Type
	Motor Speed	1250	RPM
	Motor Horsepower	0.094	HP
	Airflow	735	CFM
	Refrigerant Control	Capillary Tube	
	Sound Pressure Level	50	dB(A)
	Unit Dimensions	43.31×13.11×8.74	Inch
	Package Dimensions	45.87×15.95×11.61	Inch
	Unit Weight	30.9	lbs
	Shipping Weight	35.3	lbs
	Evaporator Coil Type	copper	
	Heat Exchanger Coating	Hydrophilic grilled hole Fin	

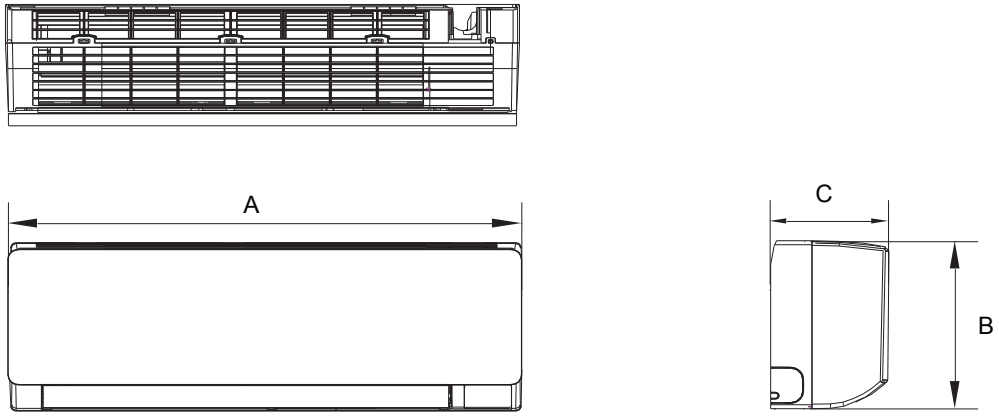
Outdoor Unit	Model Number	M5THS2324A11NAA	
	MCA	17	A
	MOP	25	A
	Fan Motor Output	85	W
	Motor Speed	850	RPM
	Airflow	735	CFM
	Refrigerant Control	Capillary Tube	
	Defrost Method	Automatic Defrosting	
	Sound Pressure Level	54	dB(A)
	Compressor Type	Inverter Rotery	
	Compressor Oil	FV68S 600ml	
	Condenser Coil Type	copper	
	Unit Dimensions	35.83x16.54x31.50	Inch
	Package Dimensions	40.47x19.09x33.46	Inch
	Unit Weight	104.7	lbs
	Shipping Weight	119	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	3.44/55.03	lbs, oz
	Gas Line Size	1/2"	Inch
	Liquid Line Size	1/4"	Inch

NOTES:

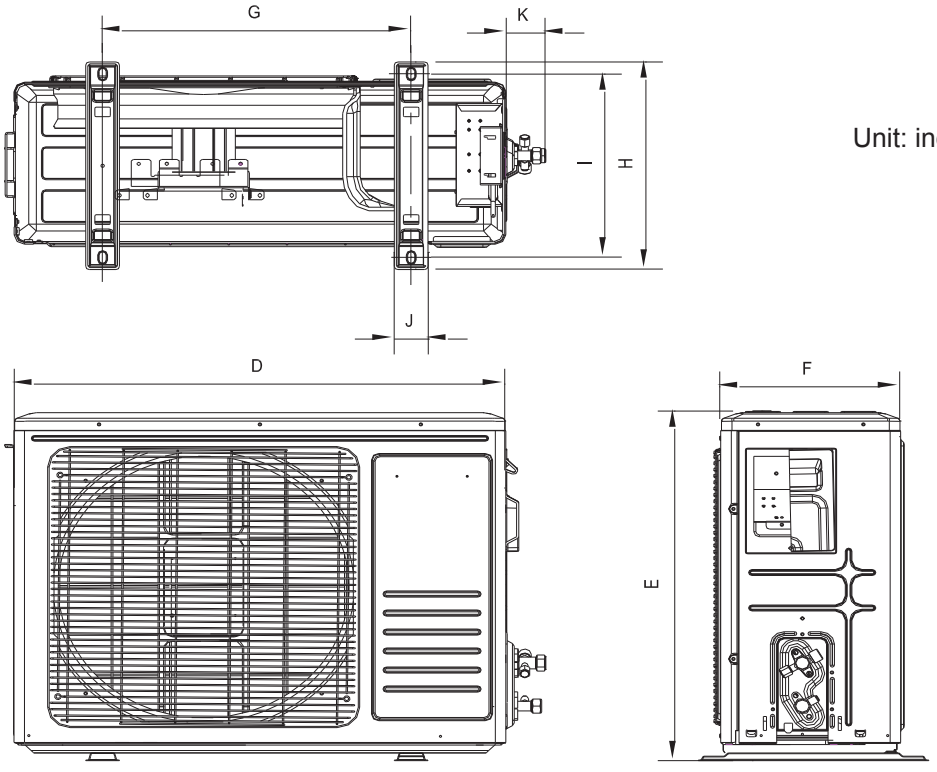
- The refrigerant charge mentioned in the technical data does not include additional charge required for the indoor unit and refrigerant pipe.
- The amount of the additional refrigerant charge depends on the length of the liquid refrigerant pipe installed.
- Record the additional refrigerant charge for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

Unit Dimensions

Indoor Unit:



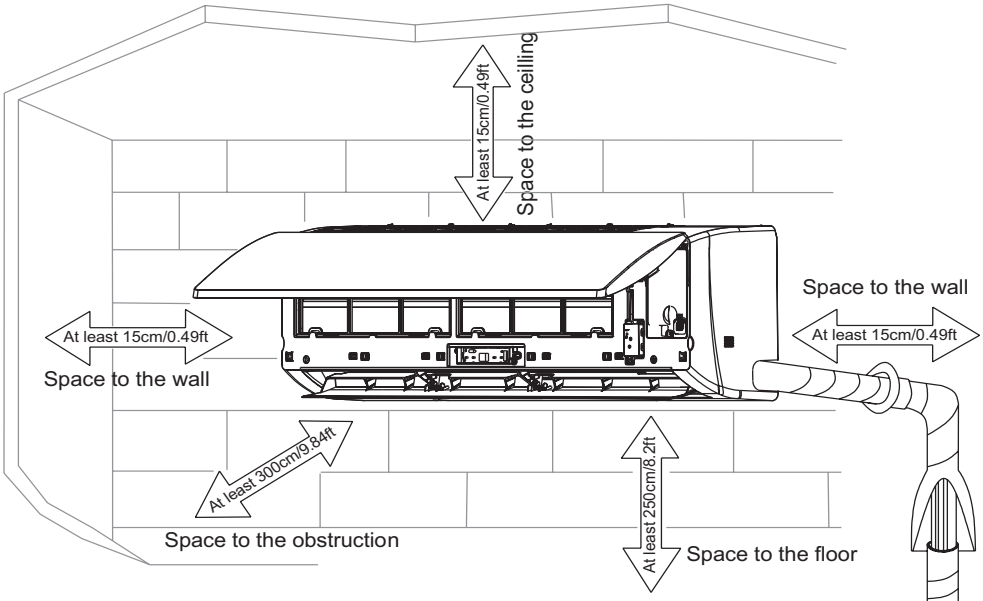
Outdoor Unit:



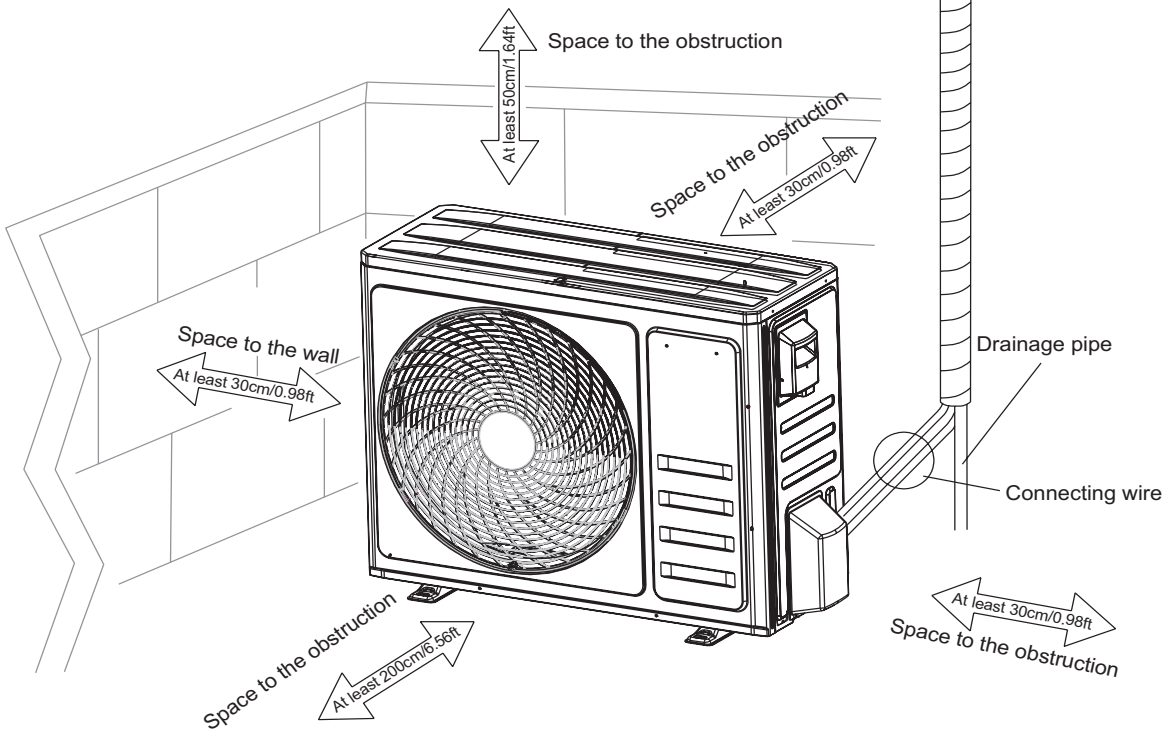
Unit: inch/mm

Model	Indoor unit (inch/mm)			Outdoor unit (inch/mm)							
	A	B	C	D	E	F	G	H	I	J	K
24000BTU	43.19/ 1097	13.07/ 332	8.74/ 222	35.59/ 904	31.61/ 803	13.90/ 353	23.90/ 607	16.57/ 421	15.35/ 390	2.48/ 63	2.44/ 62

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

M5MHWUN24A1N0AA / M5THS2324A11NAA - 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	3717	2629	3996	2799	4495	3199	5061	2805
14	-10	4470	3161	4805	3365	5405	3846	6085	3373
23	-5	5169	3656	5556	3892	6250	4448	7038	3901
34	1	5420	3834	5827	4081	6554	4664	7380	4090
54	12	4511	3191	4849	3397	5455	3882	6142	3404
68	20	4736	3350	5091	3566	5727	4075	6448	3574
77	25	4943	3496	5313	3721	5977	4253	6730	3730
86	30	5248	3712	5642	3952	6346	4516	7146	3961
95	35	5414	3829	5820	4076	6546	4658	7371	4085
109	43	5638	3988	6061	4245	6818	4852	7677	4255
118	48	5440	3848	5848	4096	6578	4681	7407	4105
131	55	2872	2032	3087	2162	3473	2471	3911	2167
*Total Capacity (BtuH) **Sensible Heat Capacity (BtuH)									

M5MHWUN24A1N0AA / M5THS2324A11NAA - 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	4190	4127	4050
-4	-20	4835	4762	4673
0	-18	5225	5146	5050
5	-15	5655	5570	5466
17	-8	6249	6155	6040
25	-4	6368	6272	6155
32	0	6767	6665	6540
35	2	6767	6665	6540
39	4	7828	7710	7566
47	8	9312	9171	9000
54	12	9312	9171	9000
57	14	9369	9227	9055
*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
Trane and American Standard create comfortable, energy efficient indoor environments for residential applications. For more information, please visit www.trane.com or www.americanstandardair.com

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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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