MMNC-HE-B

Ceiling 1-Way Cassette Heat Pump System

R454b Model

High Efficiency 1-Way Cassette Mini Split System, with Inverter Technology

0.75 Ton - 1.5 Ton, with Efficiencies up to 22.10 SEER2 and 14.4 EER2

ENERGY STAR

INVERTER

R454b

Multi Manufacturing |33380 Zeiders Rd., Ste 101 |Menifee, CA 92584 | Phone 888-741-9775 | Fax 760-480-8904 | www.multimfg-usa.com

The MMNC-HE is a highly efficient split system, with a 1-way cassette fan coil and an outdoor side discharge heat pump unit. The indoor fan coil can be installed in various locations. This system supplies comfortable cooling and heating performance at low sound levels.

Typical installations for the MMNC-HE include:

- Apartments
- Condominumums
- Independent Care Facilities
- Pre Manufactured Homes
- Single Family Home Additions
- Modular Buildings
- Student Housing
- Offices
- Stores

Features

Highly Efficient / High Performance

- Highly Efficient Inverter Compressor, with Efficiencies up to 22.20 SEER2
- Low Amp Draw DC motor in Outdoor HP

Quiet Operation, Inside and Outside

- Low Sone DC motor in MMNC Fan Coil
- Quiet Inverter Compressor in Outdoor Heat Pump, with low Sound Levels

Heating at Low Ambient Conditions

- Standard Base Pan Heaters
- Low Ambient Kit

Controls

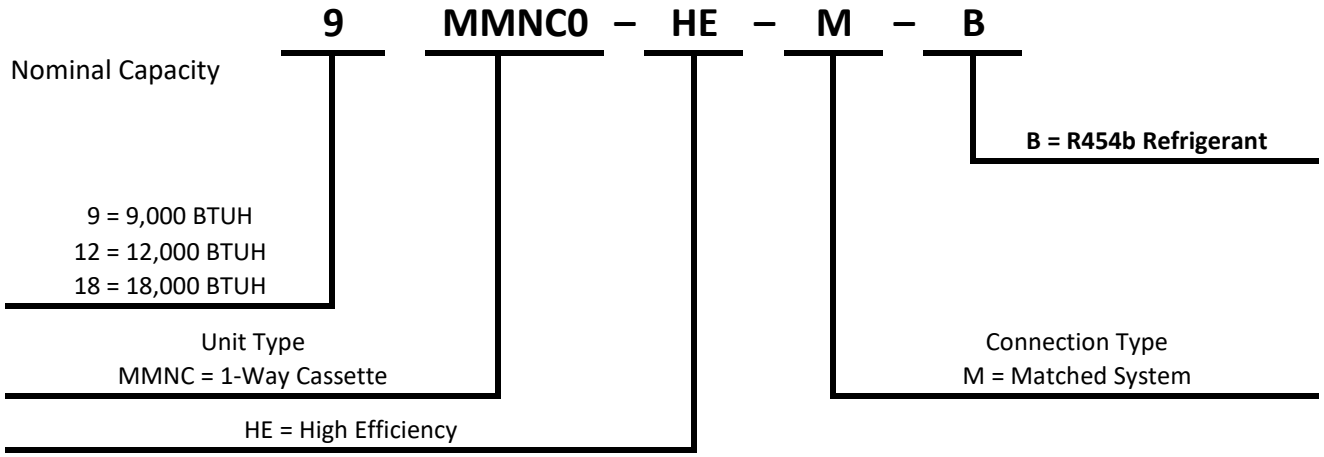
- Standard Wireless Remote or Optional Wired Wall Controller
- Optional WiFi Module available

Design

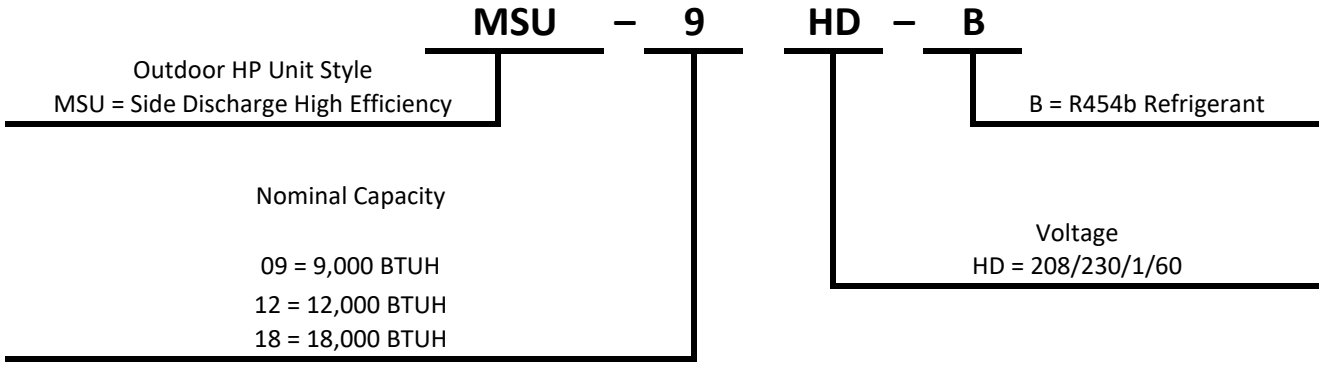
- Gold Fin Coil Protection on Indoor Fan Coil and Outdoor Heat Pump
- Automatic Restart Function
- Follow Me Function with Wireless Remote Control
- Turbo Mode
- Low Refrigerant Pressure Notification
- Environmentally Friendly R454b Refrigerant

Nomenclature

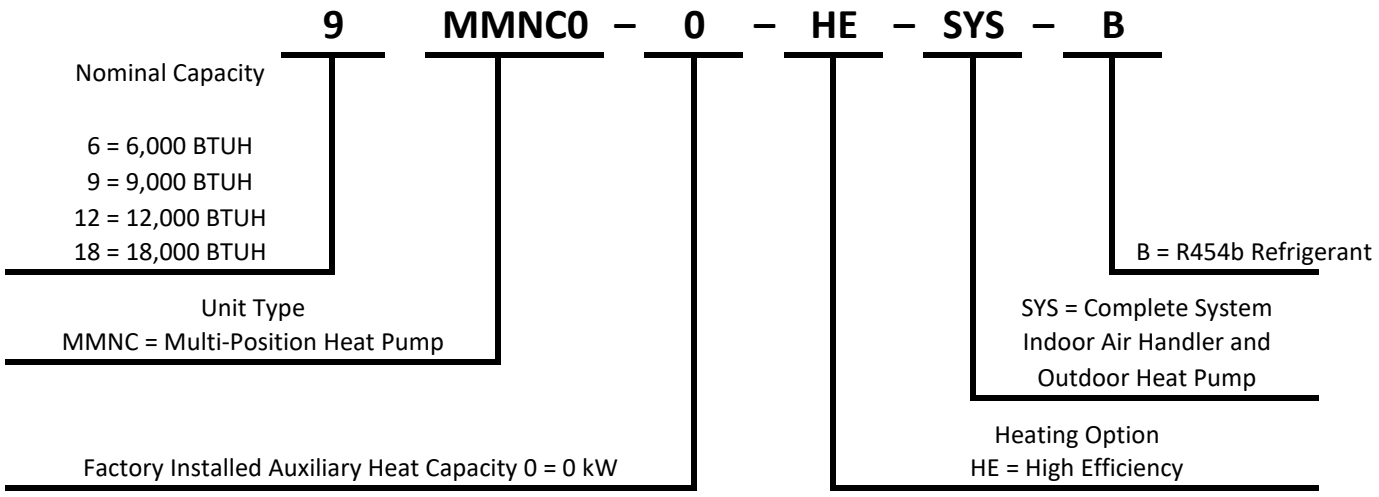
Indoor Unit



Outdoor Unit



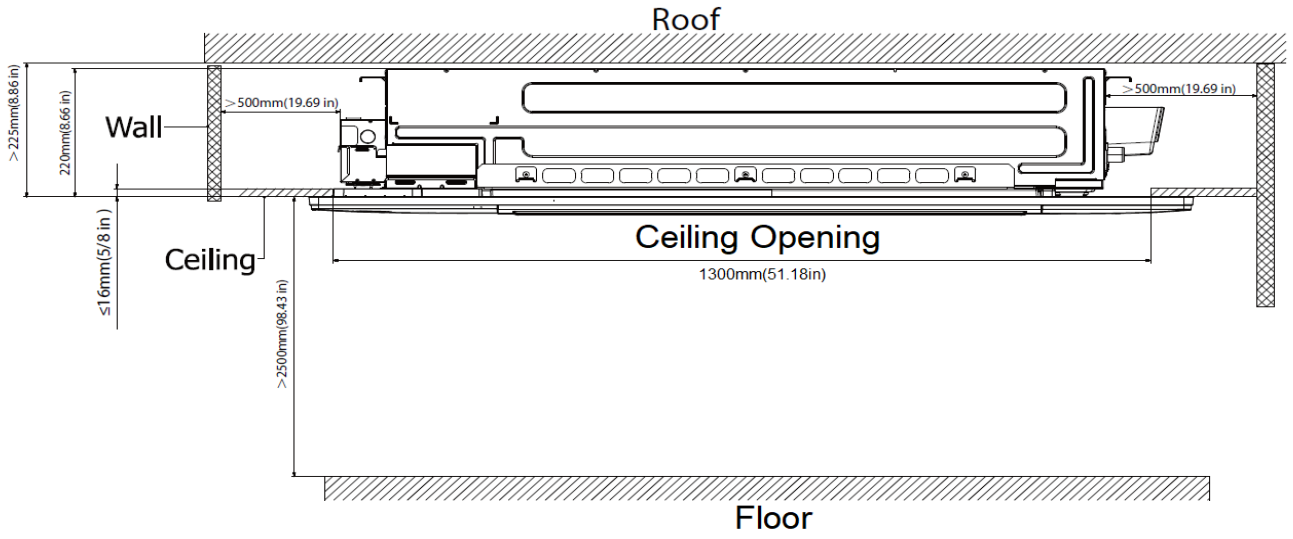
System

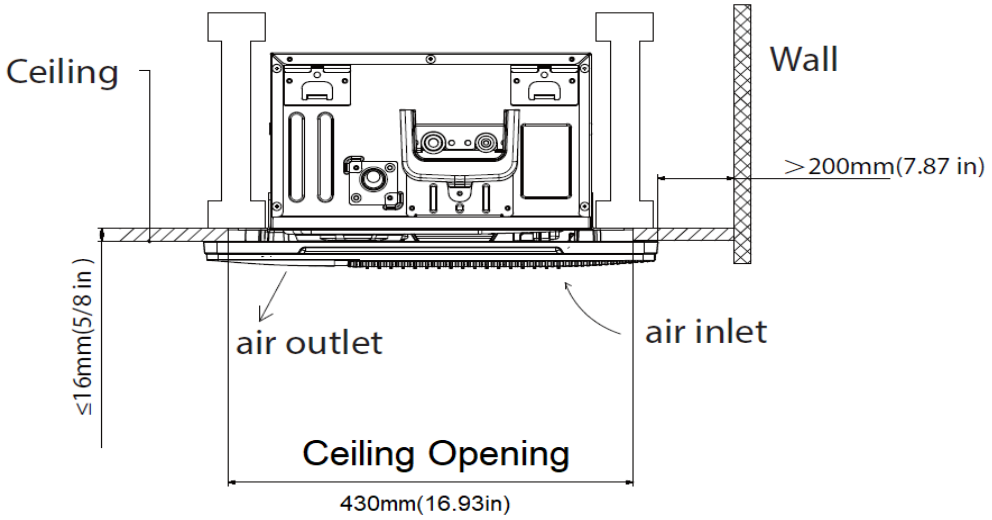


MMNC

3/4 ton - 1 1/2 ton High Wall Fan Coil

Dimensional Data



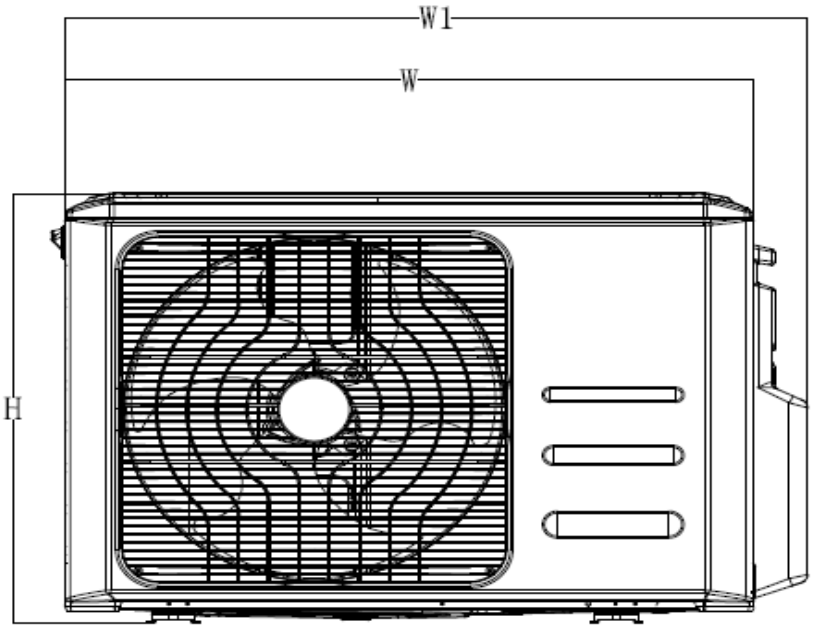


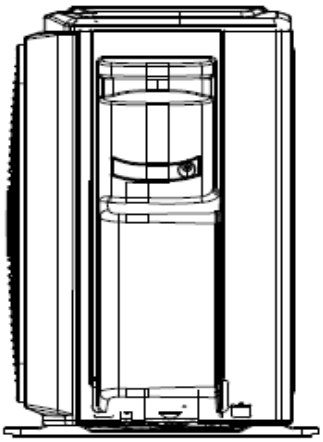
Model Name		9MMNC0-HP-M-B	12MMNC0-HP-M-B	18MMNC0-HP-M-B
Net Dimensions (WxDxH)	inch	50.31x13.19x8.98	50.31x13.19x8.98	50.31x13.19x8.98
Ceiling Opening Dimensions (WxD)	inch	51.18x16.93	51.18x16.93	51.18x16.93

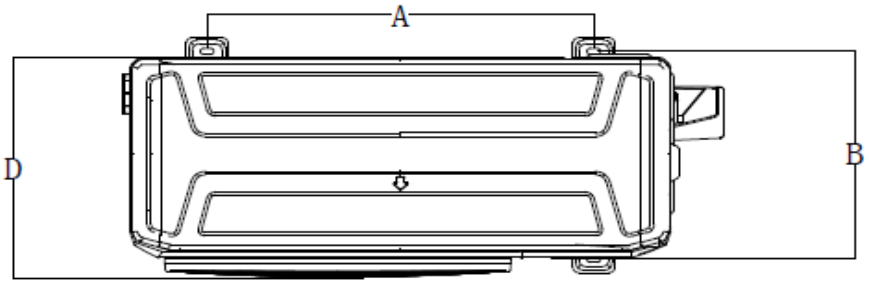
MSU

3/4 ton - 1 1/2 ton High Efficiency Outdoor Units

Dimensional Data







Unit	Unit Width (W)	Unit Depth (D)	Unit Height (H)	W1	Bracket Width (A)	Bracket Depth (B)	Weight
MSU-09HD-B	30.13	12.38	21.88	32.88	17.75	11.25	68
MSU-12HD-B	30.13	12.38	21.88	32.88	17.75	11.25	68
MSU-18HD-B	35.00	12.75	26.50	37.63	26.13	13.75	83
Dimensions shown are in Inches							
Weights shown are in lbs							

MMNC-HE-B

3/4 ton - 1 1/2 tonHigh Efficiency HP

System Specifications

System Model			9MMNC0-HE-SYS-B	12MMNC0-HE-SYS-B	18MMNC0-HE-SYS-B
Indoor Model			9MMNC0-HP-M-B	12MMNC0-HP-M-B	18MMNC0-HP-M-B
Outdoor Model			MSU-09HD-B	MSU-12HD-B	MSU-18HD-B
Power supply		V/Hz/Ph	208/230/60/1	208/230/60/1	208/230/60/1
Cooling	Capacity	Btu/h	9000	12000	16700
	Input	W	625	976	1337
	Rated current	A	4.2	4.4	8.3
	EER2	Btu/W	14.4	12.3	12.5
	SEER2		22.10	22.10	20.60
Heating	Capacity	Btu/h	11000	12000	18000
	Input	W	1007	1034	1600
	Rated current	A	4.40	4.70	7.10
	COP	W/W	3.2	3.4	3.3
	HSPF2		11.8	10.0	12.2
Fan Coil Power Supply					
Min Circuit Ampacity		A	12.0	12.0	18.0
MAX.FUSE		A	15.0	15.0	20.0
Indoor air flow (Turbo/Hi/Med/Lo)		CFM	580/500/440/400	353/312/283/247	400/352/300/207
Indoor noise level (Hi/Med/Lo)		dB(A)	38.5/34.0/24.0	43.0/38.0/26.0	44.0/41.0/29.5/24.0
Outdoor air flow		CFM	1236	1236	1766
Outdoor noise level		dB(A)	54.5	54.5	57.5
Refrigerant		Type	R454B	R454B	R454B
Ref Precharge		oz	32.45	32.45	55.38
Refrigerant precharge		ft	25	25	25
Additional charge / ft		oz	0.16	0.16	0.16
Design pressure		PSIG	550 / 340	550 / 340	550 / 340
Drain Line Diameter		inch	ODΦ1	ODΦ1	ODΦ1
Ref Piping	Liquid / Suction	inch	1/4 / 3/8	1/4 / 3/8	1/4 / 1/2
	Max. Pipe Length	ft	82	82	98
	Max. Pipe Lift	ft	49	49	66
Connection wiring					
Thermostat Type					
Room Temp	Indoor Cooling	°F	60～90	60～90	60～90
	Indoor Heating	°F	32～86	32～86	32～86
	Outdoor Cooling	°F	-13～122	-13～122	-13～122
	Outdoor Heating	°F	-13～75	-13～75	-13～75

9MMNC0-HE-SYS-B Expanded Cooling @ 341 CFM

OD DB	ID WB (°F)	60.8 °F					64.4°F					67.0°F					71.6°F				
	ID DB (°F)	73.4 °F	77.0 °F	80.0 °F	80.6 °F	84.2 °F	73.4 °F	77.0 °F	80.0 °F	80.6 °F	84.2 °F	73.4 °F	77.0 °F	80.0 °F	80.6 °F	84.2 °F	73.4 °F	77.0 °F	80.0 °F	80.6 °F	84.2 °F
50°F	TC	7965	7976	7984	7985	7996	8445	8455	8464	8465	8475	8950	8961	8971	8973	8983	9489	9499	9510	9511	9523
	S/T	0.35	0.41	0.46	0.47	0.53	0.37	0.43	0.49	0.49	0.56	0.39	0.46	0.52	0.52	0.60	0.42	0.49	0.55	0.55	0.63
	PI	0.30	0.30	0.30	0.30	0.30	0.32	0.32	0.32	0.32	0.32	0.34	0.34	0.34	0.34	0.34	0.36	0.36	0.36	0.36	0.36
59°F	TC	7832	7843	7851	7851	7862	8304	8314	8322	8324	8334	8800	8812	8821	8823	8833	9330	9341	9351	9352	9364
	S/T	0.35	0.41	0.47	0.47	0.53	0.37	0.44	0.50	0.50	0.56	0.39	0.46	0.53	0.53	0.60	0.42	0.49	0.56	0.56	0.63
	PI	0.32	0.32	0.32	0.32	0.32	0.34	0.34	0.34	0.34	0.34	0.36	0.36	0.36	0.36	0.36	0.38	0.38	0.38	0.38	0.38
68°F	TC	7699	7709	7718	7718	7728	8163	8173	8181	8182	8192	8651	8662	8672	8673	8683	9172	9182	9192	9193	9205
	S/T	0.36	0.42	0.48	0.48	0.55	0.38	0.45	0.51	0.51	0.58	0.40	0.47	0.54	0.54	0.61	0.43	0.50	0.57	0.57	0.65
	PI	0.34	0.34	0.34	0.34	0.34	0.36	0.36	0.36	0.36	0.36	0.38	0.38	0.38	0.38	0.38	0.40	0.40	0.40	0.40	0.40
77°F	TC	7566	7576	7584	7585	7595	8022	8031	8039	8041	8050	8501	8512	8522	8523	8533	9013	9023	9033	9034	9046
	S/T	0.36	0.43	0.49	0.49	0.55	0.39	0.45	0.52	0.52	0.59	0.41	0.48	0.55	0.55	0.62	0.43	0.51	0.58	0.58	0.66
	PI	0.35	0.35	0.36	0.36	0.36	0.38	0.38	0.38	0.38	0.38	0.40	0.40	0.40	0.40	0.40	0.42	0.42	0.42	0.42	0.42
80°F	TC	7464	7474	7482	7483	7493	7914	7923	7931	7933	7942	8387	8398	8407	8409	8418	8892	8902	8912	8913	8924
	S/T	0.37	0.43	0.49	0.49	0.56	0.39	0.46	0.52	0.52	0.59	0.41	0.49	0.55	0.55	0.63	0.44	0.52	0.59	0.59	0.67
	PI	0.39	0.39	0.39	0.39	0.40	0.42	0.42	0.42	0.42	0.42	0.44	0.44	0.44	0.44	0.44	0.47	0.47	0.47	0.47	0.47
86°F	TC	7348	7358	7366	7366	7376	7791	7800	7807	7809	7818	8256	8267	8276	8277	8287	8753	8763	8772	8774	8785
	S/T	0.37	0.44	0.50	0.50	0.57	0.40	0.46	0.53	0.53	0.60	0.42	0.49	0.56	0.56	0.64	0.45	0.52	0.59	0.59	0.68
	PI	0.46	0.46	0.46	0.46	0.46	0.49	0.49	0.49	0.49	0.49	0.52	0.52	0.52	0.52	0.52	0.55	0.55	0.55	0.55	0.55
95°F	TC	7086	7095	7103	7103	7113	7513	7522	7529	7530	7539	7962	7972	7981	7982	7991	8441	8450	8460	8461	8471
	S/T	0.37	0.44	0.50	0.50	0.57	0.40	0.46	0.53	0.53	0.60	0.42	0.49	0.56	0.56	0.64	0.45	0.52	0.59	0.59	0.68
	PI	0.62	0.62	0.62	0.62	0.62	0.65	0.65	0.65	0.65	0.65	0.69	0.69	0.69	0.69	0.69	0.73	0.73	0.73	0.73	0.74
104°F	TC	6581	6589	6597	6597	6606	6977	6985	6992	6994	7002	7394	7404	7412	7413	7422	7840	7848	7857	7858	7868
	S/T	0.38	0.45	0.51	0.51	0.58	0.41	0.48	0.54	0.54	0.62	0.43	0.51	0.57	0.57	0.65	0.46	0.54	0.61	0.61	0.69
	PI	0.65	0.65	0.65	0.65	0.65	0.69	0.69	0.69	0.69	0.69	0.73	0.73	0.73	0.73	0.74	0.78	0.78	0.78	0.78	0.78
110°F	TC	6278	6286	6293	6293	6302	6656	6664	6670	6672	6680	7054	7063	7071	7072	7080	7479	7487	7495	7496	7505
	S/T	0.40	0.47	0.53	0.53	0.60	0.42	0.49	0.56	0.56	0.64	0.45	0.52	0.60	0.60	0.68	0.47	0.56	0.63	0.63	0.72
	PI	0.67	0.68	0.68	0.68	0.68	0.72	0.72	0.72	0.72	0.72	0.76	0.76	0.76	0.76	0.76	0.80	0.80	0.81	0.81	0.81
115°F	TC	5496	5503	5509	5509	5517	5827	5834	5840	5841	5848	6175	6183	6190	6191	6198	6547	6554	6562	6563	6571
	S/T	0.40	0.47	0.54	0.54	0.61	0.43	0.50	0.57	0.57	0.65	0.45	0.53	0.60	0.60	0.69	0.48	0.56	0.64	0.64	0.73
	PI	0.62	0.62	0.62	0.62	0.62	0.65	0.66	0.66	0.66	0.66	0.69	0.69	0.70	0.70	0.70	0.74	0.74	0.74	0.74	0.74
122°F	TC	4454	4460	4464	4465	4471	4722	4727	4732	4733	4739	5004	5011	5016	5017	5023	5306	5311	5317	5318	5325
	S/T	0.41	0.48	0.55	0.55	0.63	0.44	0.51	0.58	0.58	0.66	0.46	0.54	0.62	0.62	0.70	0.49	0.57	0.65	0.65	0.74
	PI	0.54	0.54	0.54	0.54	0.54	0.57	0.57	0.58	0.58	0.58	0.61	0.61	0.61	0.61	0.61	0.65	0.65	0.65	0.65	0.65

12MMNC0-HE-SYS-B Expanded Cooling @ 353 CFM

OD DB	ID WB (°F)	60.8 °F					64.4°F					67.0°F					71.6°F				
	ID DB (°F)	73.4 °F	77.0 °F	80.0 °F	80.6 °F	84.2 °F	73.4 °F	77.0 °F	80.0 °F	80.6 °F	84.2 °F	73.4 °F	77.0 °F	80.0 °F	80.6 °F	84.2 °F	73.4 °F	77.0 °F	80.0 °F	80.6 °F	84.2 °F
50°F	TC	11530	11546	11558	11559	11574	12225	12239	12252	12254	12269	12955	12972	12987	12989	13004	13736	13751	13766	13768	13785
	S/T	0.50	0.58	0.66	0.66	0.76	0.53	0.62	0.70	0.70	0.80	0.56	0.66	0.75	0.75	0.85	0.59	0.70	0.79	0.79	0.90
	PI	0.42	0.42	0.42	0.42	0.42	0.44	0.44	0.45	0.45	0.45	0.47	0.47	0.47	0.47	0.47	0.50	0.50	0.50	0.50	0.50
59°F	TC	11640	11656	11668	11669	11684	12341	12356	12368	12371	12385	13079	13096	13110	13113	13127	13867	13882	13897	13899	13917
	S/T	0.50	0.59	0.67	0.67	0.76	0.53	0.62	0.71	0.71	0.81	0.56	0.66	0.75	0.75	0.86	0.60	0.70	0.80	0.80	0.91
	PI	0.45	0.45	0.45	0.45	0.45	0.48	0.48	0.48	0.48	0.48	0.51	0.51	0.51	0.51	0.51	0.54	0.54	0.54	0.54	0.54
68°F	TC	11750	11766	11778	11779	11795	12458	12473	12485	12488	12502	13202	13219	13234	13237	13251	13998	14013	14028	14030	14048
	S/T	0.51	0.60	0.69	0.69	0.78	0.54	0.64	0.73	0.73	0.83	0.58	0.68	0.77	0.77	0.88	0.61	0.72	0.82	0.82	0.93
	PI	0.49	0.49	0.49	0.49	0.49	0.52	0.52	0.52	0.52	0.52	0.55	0.55	0.55	0.55	0.55	0.58	0.58	0.58	0.58	0.58
77°F	TC	11860	11876	11889	11889	11905	12574	12589	12602	12604	12619	13326	13343	13358	13360	13375	14129	14144	14159	14162	14179
	S/T	0.52	0.61	0.69	0.69	0.79	0.55	0.65	0.74	0.74	0.84	0.59	0.69	0.78	0.78	0.89	0.62	0.73	0.83	0.83	0.94
	PI	0.52	0.52	0.52	0.52	0.52	0.55	0.55	0.55	0.55	0.55	0.59	0.59	0.59	0.59	0.59	0.62	0.62	0.62	0.62	0.62
80°F	TC	11955	11971	11984	11984	12000	12675	12690	12703	12705	12720	13432	13450	13465	13467	13482	14242	14257	14273	14275	14293
	S/T	0.53	0.62	0.70	0.70	0.80	0.56	0.66	0.75	0.75	0.85	0.59	0.70	0.79	0.79	0.90	0.63	0.74	0.84	0.84	0.95
	PI	0.60	0.60	0.60	0.60	0.60	0.64	0.64	0.64	0.64	0.64	0.67	0.67	0.68	0.68	0.68	0.71	0.72	0.72	0.72	0.72
86°F	TC	12074	12090	12103	12103	12120	12801	12816	12829	12832	12847	13566	13584	13599	13601	13617	14383	14399	14415	14417	14435
	S/T	0.53	0.63	0.71	0.71	0.81	0.57	0.66	0.75	0.75	0.86	0.60	0.70	0.80	0.80	0.91	0.64	0.75	0.85	0.85	0.97
	PI	0.74	0.74	0.74	0.74	0.74	0.78	0.78	0.78	0.78	0.78	0.83	0.83	0.83	0.83	0.83	0.88	0.88	0.88	0.88	0.88
95°F	TC	12341	12358	12371	12372	12388	13085	13100	13113	13116	13131	13867	13885	13900	13903	13918	14702	14718	14734	14736	14755
	S/T	0.53	0.63	0.71	0.71	0.81	0.57	0.66	0.75	0.75	0.86	0.60	0.70	0.80	0.80	0.91	0.64	0.75	0.85	0.85	0.97
	PI	1.05	1.05	1.05	1.05	1.05	1.11	1.11	1.11	1.11	1.11	1.18	1.18	1.18	1.18	1.18	1.25	1.25	1.25	1.25	1.25
104°F	TC	11509	11524	11537	11537	11553	12202	12217	12229	12231	12246	12931	12948	12963	12965	12979	13710	13725	13740	13742	13760
	S/T	0.55	0.64	0.73	0.73	0.83	0.58	0.68	0.77	0.77	0.88	0.62	0.72	0.82	0.82	0.93	0.65	0.76	0.87	0.87	0.99
	PI	1.06	1.06	1.06	1.06	1.06	1.12	1.12	1.12	1.12	1.13	1.19	1.19	1.19	1.19	1.19	1.26	1.26	1.26	1.26	1.27
110°F	TC	11009	11024	11036	11036	11051	11673	11687	11698	11700	11714	12370	12386	12400	12402	12416	13115	13130	13144	13146	13162
	S/T	0.57	0.67	0.76	0.76	0.86	0.60	0.71	0.80	0.80	0.91	0.64	0.75	0.85	0.85	0.97	0.68	0.79	0.90	0.90	1.00
	PI	1.06	1.07	1.07	1.07	1.07	1.13	1.13	1.13	1.13	1.13	1.20	1.20	1.20	1.20	1.20	1.27	1.27	1.27	1.27	1.27
115°F	TC	9017	9030	9039	9040	9052	9561	9572	9582	9584	9595	10132	10145	10157	10158	10170	10743	10754	10766	10768	10781
	S/T	0.57	0.67	0.77	0.77	0.87	0.61	0.71	0.81	0.81	0.92	0.65	0.76	0.86	0.86	0.98	0.68	0.80	0.91	0.91	1.00
	PI	0.94	0.94	0.94	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.06	1.06	1.06	1.06	1.06	1.12	1.12	1.13	1.13	1.13
122°F	TC	6362	6370	6377	6377	6386	6745	6753	6760	6761	6769	7148	7157	7165	7167	7175	7579	7587	7595	7596	7606
	S/T	0.59	0.69	0.78	0.78	0.89	0.62	0.73	0.83	0.83	0.95	0.66	0.77	0.88	0.88	1.00	0.70	0.82	0.93	0.93	1.00
	PI	0.78	0.78	0.78	0.78	0.78	0.83	0.83	0.83	0.83	0.83	0.88	0.88	0.88	0.88	0.88	0.93	0.93	0.93	0.93	0.93

18MMNC0-HE-SYS-B Expanded Cooling @ 400 CFM

OD DB	ID WB (°F)	60.8 °F					64.4°F					67.0°F					71.6°F				
	ID DB (°F)	73.4 °F	77.0 °F	80.0 °F	80.6 °F	84.2 °F	73.4 °F	77.0 °F	80.0 °F	80.6 °F	84.2 °F	73.4 °F	77.0 °F	80.0 °F	80.6 °F	84.2 °F	73.4 °F	77.0 °F	80.0 °F	80.6 °F	84.2 °F
50°F	TC	15690	15711	15728	15729	15750	16636	16656	16672	16675	16695	17630	17653	17672	17676	17695	18692	18712	18733	18736	18759
	S/T	0.50	0.58	0.66	0.66	0.76	0.53	0.62	0.70	0.70	0.80	0.56	0.66	0.75	0.75	0.85	0.59	0.70	0.79	0.79	0.90
	PI	0.73	0.73	0.73	0.73	0.74	0.78	0.78	0.78	0.78	0.78	0.82	0.82	0.83	0.83	0.83	0.87	0.87	0.88	0.88	0.88
59°F	TC	16522	16544	16562	16563	16585	17517	17538	17555	17559	17580	18564	18588	18609	18612	18633	19682	19704	19725	19728	19753
	S/T	0.50	0.59	0.67	0.67	0.76	0.53	0.62	0.71	0.71	0.81	0.56	0.66	0.75	0.75	0.86	0.60	0.70	0.80	0.80	0.91
	PI	0.78	0.79	0.79	0.79	0.79	0.83	0.83	0.83	0.83	0.84	0.88	0.88	0.88	0.88	0.89	0.93	0.94	0.94	0.94	0.94
68°F	TC	17353	17376	17395	17396	17419	18399	18421	18439	18443	18464	19498	19523	19545	19549	19571	20673	20695	20718	20721	20747
	S/T	0.51	0.60	0.69	0.69	0.78	0.54	0.64	0.73	0.73	0.83	0.58	0.68	0.77	0.77	0.88	0.61	0.72	0.82	0.82	0.93
	PI	0.84	0.84	0.84	0.84	0.84	0.89	0.89	0.89	0.89	0.89	0.94	0.94	0.94	0.94	0.94	1.00	1.00	1.00	1.00	1.00
77°F	TC	18184	18209	18229	18229	18254	19280	19303	19322	19326	19349	20432	20459	20482	20485	20508	21663	21687	21711	21714	21741
	S/T	0.52	0.61	0.69	0.69	0.79	0.55	0.65	0.74	0.74	0.84	0.59	0.69	0.78	0.78	0.89	0.62	0.73	0.83	0.83	0.94
	PI	0.89	0.89	0.89	0.89	0.89	0.94	0.94	0.94	0.94	0.94	1.00	1.00	1.00	1.00	1.00	1.06	1.06	1.06	1.06	1.06
80°F	TC	18248	18273	18292	18293	18318	19348	19371	19390	19394	19417	20504	20530	20553	20557	20580	21739	21763	21786	21790	21817
	S/T	0.53	0.62	0.70	0.70	0.80	0.56	0.66	0.75	0.75	0.85	0.59	0.70	0.79	0.79	0.90	0.63	0.74	0.84	0.84	0.95
	PI	0.98	0.98	0.98	0.98	0.98	1.04	1.04	1.04	1.04	1.04	1.10	1.10	1.10	1.10	1.10	1.17	1.17	1.17	1.17	1.17
86°F	TC	17796	17820	17840	17840	17864	18869	18891	18910	18914	18936	19996	20022	20045	20048	20071	21201	21224	21247	21251	21277
	S/T	0.53	0.63	0.71	0.71	0.81	0.57	0.66	0.75	0.75	0.86	0.60	0.70	0.80	0.80	0.91	0.64	0.75	0.85	0.85	0.97
	PI	1.13	1.13	1.13	1.13	1.14	1.20	1.20	1.20	1.20	1.20	1.27	1.27	1.27	1.27	1.28	1.35	1.35	1.35	1.35	1.35
95°F	TC	16780	16803	16821	16822	16844	17792	17813	17830	17834	17855	18854	18879	18900	18904	18925	19990	20012	20034	20037	20062
	S/T	0.53	0.63	0.71	0.71	0.81	0.57	0.66	0.75	0.75	0.86	0.60	0.70	0.80	0.80	0.91	0.64	0.75	0.85	0.85	0.97
	PI	1.47	1.48	1.48	1.48	1.48	1.56	1.56	1.57	1.57	1.57	1.66	1.66	1.66	1.66	1.66	1.76	1.76	1.76	1.76	1.76
104°F	TC	14339	14358	14373	14374	14393	15203	15221	15236	15239	15257	16111	16132	16150	16153	16171	17082	17100	17119	17122	17143
	S/T	0.55	0.64	0.73	0.73	0.83	0.58	0.68	0.77	0.77	0.88	0.62	0.72	0.82	0.82	0.93	0.65	0.76	0.87	0.87	0.99
	PI	1.36	1.36	1.36	1.36	1.36	1.44	1.44	1.44	1.44	1.45	1.53	1.53	1.53	1.53	1.53	1.62	1.62	1.62	1.62	1.62
110°F	TC	12874	12891	12905	12906	12923	13650	13666	13679	13682	13698	14465	14484	14500	14503	14519	15337	15353	15370	15372	15392
	S/T	0.57	0.67	0.76	0.76	0.86	0.60	0.71	0.80	0.80	0.91	0.64	0.75	0.85	0.85	0.97	0.68	0.79	0.90	0.90	1.00
	PI	1.29	1.29	1.29	1.29	1.29	1.37	1.37	1.37	1.37	1.37	1.45	1.45	1.45	1.45	1.45	1.54	1.54	1.54	1.54	1.54
115°F	TC	9304	9316	9326	9327	9339	9865	9876	9886	9888	9900	10454	10467	10479	10481	10493	11084	11096	11108	11110	11123
	S/T	0.57	0.67	0.77	0.77	0.87	0.61	0.71	0.81	0.81	0.92	0.65	0.76	0.86	0.86	0.98	0.68	0.80	0.91	0.91	1.00
	PI	1.05	1.05	1.05	1.05	1.05	1.11	1.11	1.11	1.11	1.11	1.18	1.18	1.18	1.18	1.18	1.25	1.25	1.25	1.25	1.25
122°F	TC	4544	4550	4555	4555	4561	4818	4824	4828	4829	4835	5106	5112	5118	5119	5125	5413	5419	5425	5426	5433
	S/T	0.59	0.69	0.78	0.78	0.89	0.62	0.73	0.83	0.83	0.95	0.66	0.77	0.88	0.88	1.00	0.70	0.82	0.93	0.93	1.00
	PI	0.72	0.72	0.73	0.73	0.73	0.77	0.77	0.77	0.77	0.77	0.81	0.81	0.82	0.82	0.82	0.86	0.86	0.86	0.86	0.87

9MMNC0-HE-SYS-B Expanded Heating @ 341 CFM

CFM	HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE										
	OD DB (°F)	TC：Total Heating Capacity(BTU/hr)					PI：Power Input(kW)				
		Indoor Conditions (DB °F)					Indoor Conditions (DB °F)				
		60.8°F	68°F	70°F	71.6°F	75.2°F	60.8°F	68°F	70°F	71.6°F	75.2°F
341	-22°F	/	/	/	/	/	/	/	/	/	/
	-13°F	5128	5025	5000	4980	4935	0.92	0.93	0.93	0.93	0.93
	-4°F	6256	6131	6100	6076	6021	0.96	0.97	0.97	0.97	0.98
	0°F	7122	6979	6944	6917	6854	1.01	1.02	1.02	1.02	1.02
	5°F	8204	8040	8000	7968	7896	1.06	1.07	1.08	1.08	1.08
	14°F	9666	9472	9425	9387	9303	1.10	1.11	1.11	1.11	1.12
	17°F	10153	9950	9900	9860	9772	1.11	1.12	1.12	1.13	1.13
	22°F	10306	10100	10049	10009	9919	1.13	1.13	1.14	1.14	1.14
	27°F	10459	10250	10199	10158	10066	1.14	1.15	1.15	1.15	1.16
	32°F	10612	10400	10348	10306	10214	1.15	1.16	1.16	1.16	1.17
	35°F	10704	10490	10437	10396	10302	1.16	1.17	1.17	1.17	1.17
	37°F	11364	11137	11081	11037	10937	1.18	1.19	1.19	1.19	1.20
	42°F	13015	12754	12691	12640	12526	1.24	1.25	1.25	1.25	1.26
	44.6°F	13675	13401	13334	13281	13161	1.26	1.27	1.27	1.28	1.28
	47°F	14665	14372	14300	14243	14115	1.30	1.31	1.31	1.31	1.32
	52°F	14505	14215	14144	14087	13961	1.15	1.16	1.16	1.16	1.17
	57°F	14345	14058	13988	13932	13807	1.00	1.01	1.01	1.01	1.01
	59°F	14281	13995	13925	13870	13745	0.94	0.95	0.95	0.95	0.95
	62°F	14185	13901	13832	13776	13652	0.85	0.85	0.86	0.86	0.86
	64.4°F	14121	13839	13769	13714	13591	0.79	0.79	0.80	0.80	0.80

12MMNC0-HE-SYS-B Expanded Heating @ 341 CFM

CFM	HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE										
	OD DB (°F)	TC：Total Heating Capacity(BTU/hr)					PI：Power Input(kW)				
		Indoor Conditions (DB °F)					Indoor Conditions (DB °F)				
		60.8°F	68°F	70°F	71.6°F	75.2°F	60.8°F	68°F	70°F	71.6°F	75.2°F
341	-22°F	/	/	/	/	/	/	/	/	/	/
	-13°F	5128	5025	5000	4980	4935	0.88	0.89	0.89	0.90	0.90
	-4°F	6974	6834	6800	6773	6712	0.95	0.96	0.96	0.96	0.97
	0°F	7794	7638	7600	7570	7501	0.98	0.98	0.99	0.99	0.99
	5°F	8820	8643	8600	8566	8489	1.01	1.01	1.02	1.02	1.02
	14°F	9896	9698	9650	9611	9525	1.09	1.10	1.10	1.10	1.11
	17°F	10255	10050	10000	9960	9870	1.12	1.13	1.13	1.13	1.14
	22°F	10374	10167	10116	10075	9985	1.11	1.12	1.13	1.13	1.13
	27°F	10493	10283	10231	10191	10099	1.11	1.12	1.12	1.12	1.13
	32°F	10611	10399	10347	10306	10213	1.10	1.11	1.11	1.12	1.12
	35°F	10683	10469	10417	10375	10282	1.10	1.11	1.11	1.11	1.12
	37°F	11534	11304	11247	11202	11101	1.13	1.14	1.14	1.15	1.15
	42°F	13664	13391	13324	13270	13151	1.21	1.22	1.23	1.23	1.23
	44.6°F	14516	14225	14154	14098	13971	1.25	1.26	1.26	1.26	1.27
	47°F	15793	15477	15400	15338	15200	1.30	1.31	1.31	1.31	1.32
	52°F	15302	14996	14921	14861	14727	1.18	1.19	1.19	1.19	1.20
	57°F	14810	14514	14442	14384	14254	1.06	1.07	1.07	1.07	1.07
	59°F	14614	14322	14250	14193	14065	1.01	1.02	1.02	1.02	1.03
	62°F	14319	14033	13962	13907	13781	0.94	0.95	0.95	0.95	0.95
	64.4°F	14122	13840	13771	13716	13592	0.89	0.90	0.90	0.90	0.90

18MMNC0-HE-SYS-B Expanded Heating @ 400 CFM

CFM	HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE										
	OD DB (°F)	TC：Total Heating Capacity(BTU/hr)					PI：Power Input(kW)				
		Indoor Conditions (DB °F)					Indoor Conditions (DB °F)				
		60.8°F	68°F	70°F	71.6°F	75.2°F	60.8°F	68°F	70°F	71.6°F	75.2°F
400	-22°F	/	/	/	/	/	/	/	/	/	/
	-13°F	8307	8141	8100	8068	7995	1.48	1.49	1.49	1.50	1.50
	-4°F	10563	10352	10300	10259	10166	1.55	1.56	1.56	1.57	1.57
	0°F	11839	11602	11544	11498	11395	1.61	1.63	1.63	1.63	1.64
	5°F	13435	13166	13100	13048	12930	1.70	1.71	1.71	1.72	1.72
	14°F	15050	14749	14675	14616	14485	1.76	1.77	1.78	1.78	1.79
	17°F	15588	15276	15200	15139	15003	1.78	1.79	1.80	1.80	1.81
	22°F	16432	16103	16023	15959	15815	1.82	1.83	1.84	1.84	1.85
	27°F	17276	16930	16846	16778	16627	1.86	1.87	1.88	1.88	1.89
	32°F	18120	17757	17669	17598	17440	1.90	1.91	1.92	1.92	1.93
	35°F	18626	18254	18162	18090	17927	1.92	1.94	1.94	1.95	1.95
	37°F	19419	19031	18935	18860	18690	1.91	1.93	1.93	1.94	1.94
	42°F	21401	20973	20868	20784	20597	1.89	1.90	1.91	1.91	1.92
	44.6°F	22193	21749	21641	21554	21360	1.88	1.89	1.90	1.90	1.91
	47°F	23382	22915	22800	22709	22504	1.86	1.88	1.88	1.88	1.89
	52°F	22337	21891	21781	21694	21499	1.64	1.65	1.66	1.66	1.67
	57°F	21292	20867	20762	20679	20493	1.42	1.43	1.43	1.44	1.44
	59°F	20874	20457	20355	20273	20091	1.33	1.34	1.34	1.35	1.35
	62°F	20248	19843	19743	19664	19487	1.20	1.21	1.21	1.21	1.22
	64.4°F	19830	19433	19336	19258	19085	1.11	1.12	1.12	1.12	1.13

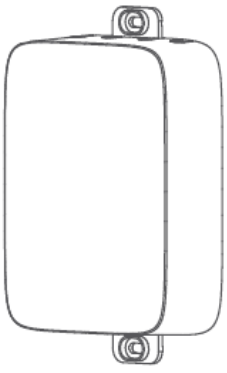
Control Options

Part Number	Description
MWRC2	Wireless infrared remote controller with timer, sleep function, follow me and turbo function.
SWC120LR	Standard wired wall controller with operation mode control, timer and follow me functions.
DWC120X2	Deluxe wired wall controller with programmable weekly timer, auto-restart, child lock, and follow me functions. The DWC120X2 also funtions as a receiver for the MWRC remote controller.
WIFI-DWC120X2	Deluxe wired wall controller with WFI and app, with programmable weekly timer, auto-restart, child lock, Turbo function, follow me function and more. The WIFI-DWC120X2 also functions as a receiver for the MWRC remote controller.
24VMI-B	Mini 24V interface, to allow the use of many 24V thermostats. This interface requires a field install 24V fan center.
WFI-C	Wifi Smart Kit that will allow the system to connect to WiFi.

MWRC2
Wireless
Remote
Controller

SWC120LR
Standard Wired
Wall Controller

WIFI-DWC120X2
WIFI Deluxe Wired
Wall Controller



24VMI-B
Mini 24V
Interface

WFI-C
WiFi Interface
Module

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