



MMNC-HH-B

Ceiling 1-Way Cassette Heat Pump System

R454b Model



Hyper Heat 1-Way Cassette Mini Split System, with Inverter Technology

1/2 Ton - 1.5 Ton, with Efficiencies up to 24.00 SEER2 and 15.0 EER2



The MMNC-HH 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-HH include:

- Apartments
- Condominiums
- 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 24.00 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
- Hyper Heat (100% Heating Capacity down to 5° F)
- Low Ambient Kit

Controls

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

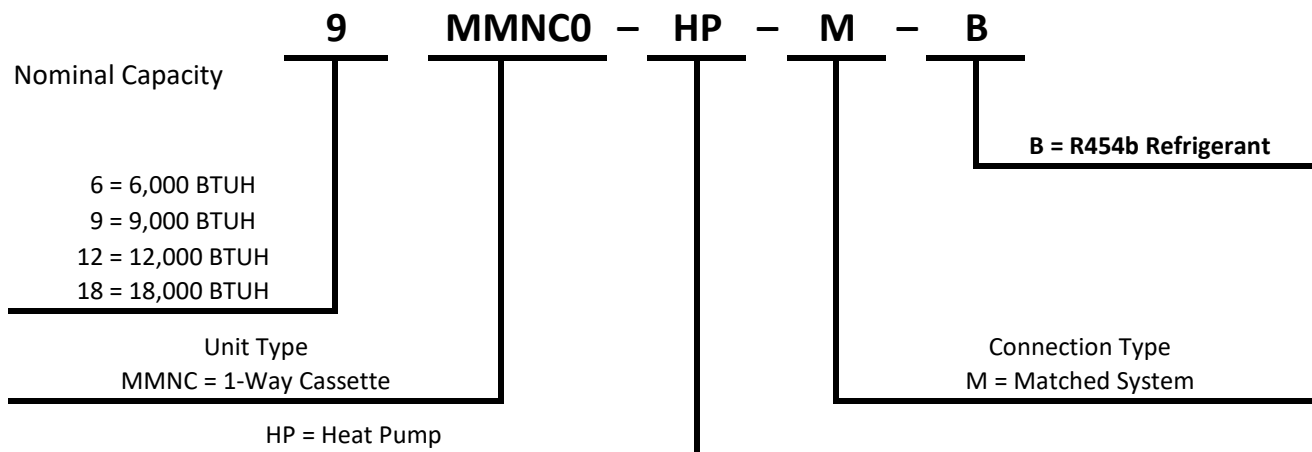
Design

- 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

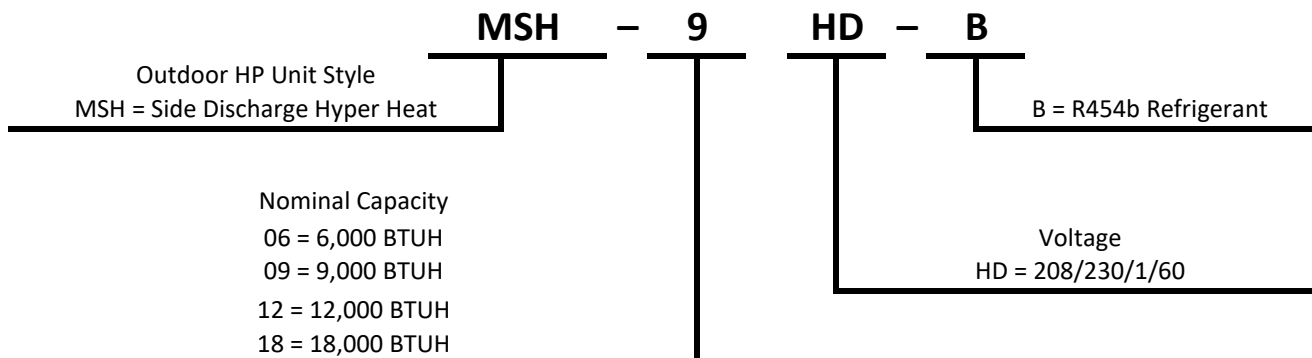


Nomenclature

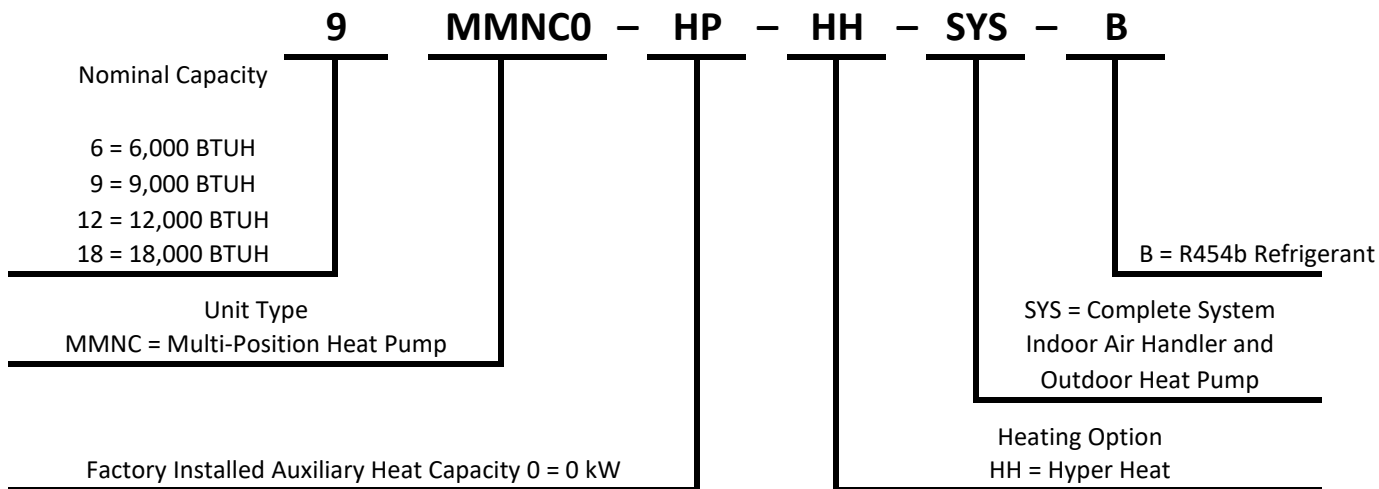
Indoor Unit



Outdoor Unit

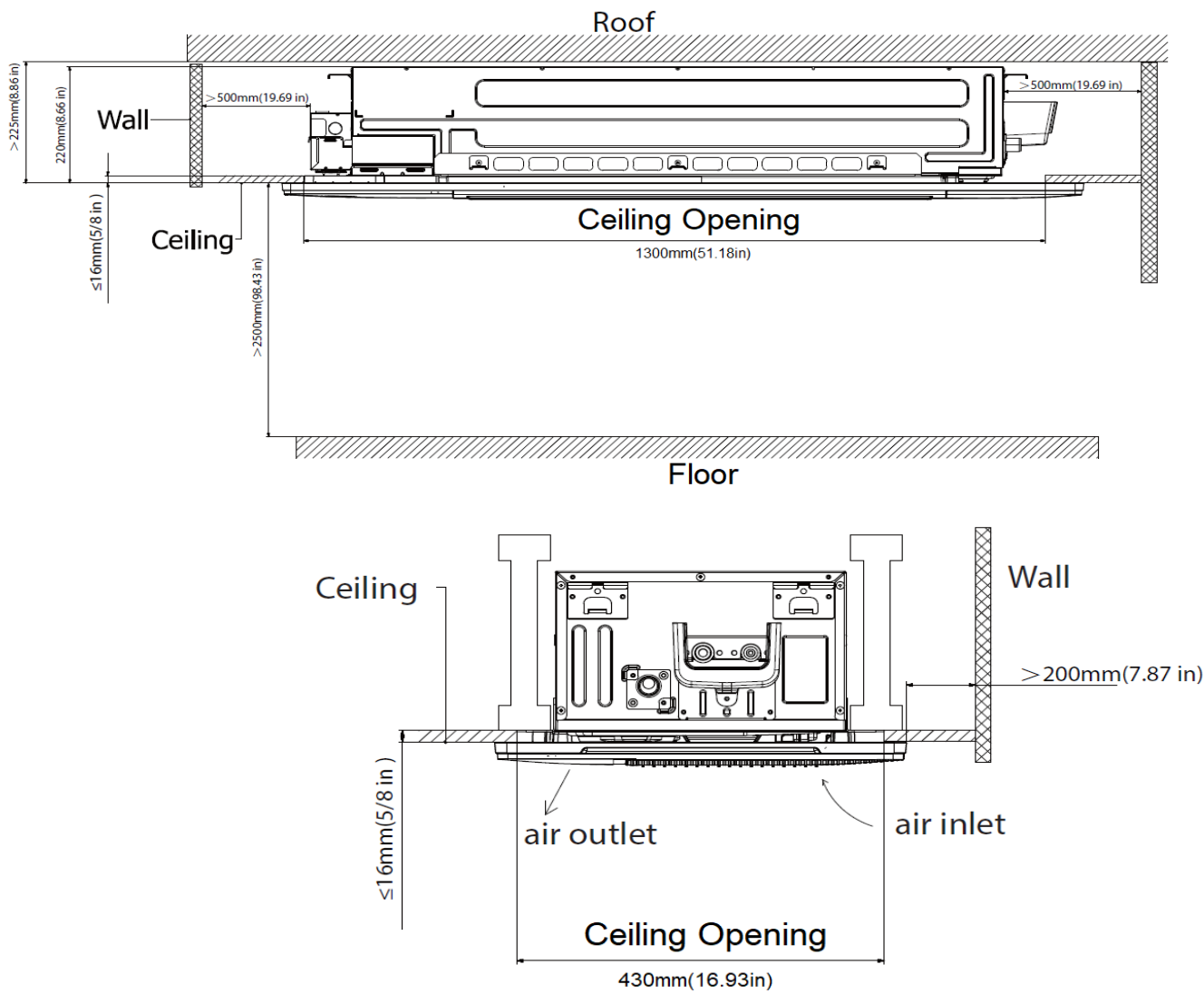


System



MMNC

Dimensional Data



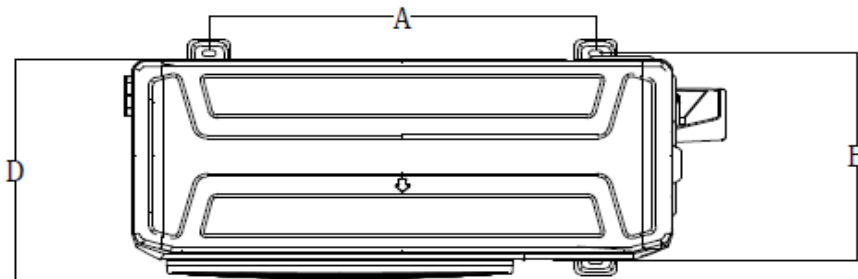
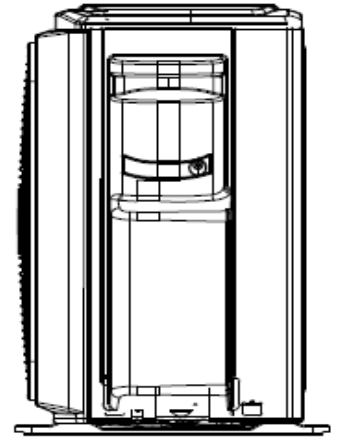
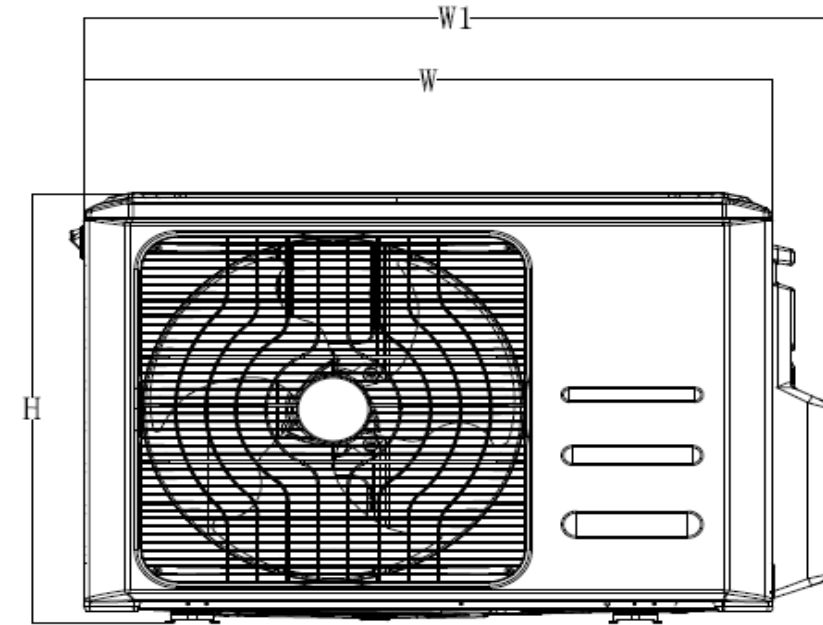
Model Name		6MMNC0-HP-M-B	9MMNC0-HP-M-B	12MMNC0-HP-M-B	18MMNC0-HP-M-B
Net Dimensions (WxDxH)	inch	50.31x13.19x8.98	50.31x13.19x8.98	50.31x13.19x8.98	50.31x13.19x8.98
Ceiling Opening Dimensions (WxD)	inch	51.18x16.93	51.18x16.93	51.18x16.93	51.18x16.93



MSH

1/2 ton - 1 1/2ton Hyper Heat HP Outdoor Units

Dimensional Data



Unit	Unit Width (W)	Unit Depth (D)	Unit Height (H)	W1	Bracket Width (A)	Bracket Depth (B)	Weight
MSH-06HD-B	30.12	11.88	21.88	32.88	17.75	11.25	62
MSH-09HD-B	32.13	13.00	21.75	34.38	20.13	12.50	73
MSH-12HD-B	32.13	13.00	21.75	34.38	20.13	12.50	73
MSH-18HD-B	35.25	13.50	26.50	37.63	26.13	13.25	100
Dimensions shown are in Inches							
Weights shown are in lbs							

MMNC-HH-B

1/2 ton - 1 1/2 ton Hyper Heat HP

System Specifications

System Model			6MMNC0-HH-SYS-B	9MMNC0-HH-SYS-B	12MMNC0-HH-SYS-B	18MMNC0-HH-SYS-B
Indoor Model			6MMNC0-HP-M-B	9MMNC0-HP-M-B	12MMNC0-HP-M-B	18MMNC0-HP-M-B
Outdoor Model			MSH-06HD-B	MSH-09HD-B	MSH-12HD-B	MSH-18HD-B
Power supply		V/Hz/Ph	208/230/60/1	208/230/60/1	208/230/60/1	208/230/60/1
Cooling	Capacity	Btu/h	6500	9000	12000	16700
	Input	W	427	610	923	1337
	Rated current	A	3.0	4.5	4.3	8.3
	EER2	Btu/W	15.0	14.6	13.0	12.5
	SEER2		22.00	24.00	23.00	20.60
Heating	Capacity	Btu/h	7400	10900	12000	20000
	Input	W	578	860	1030	1950
	Rated current	A	4.00	3.80	4.60	12.00
	COP	W/W	3.8	3.7	3.6	3.0
	HSPF2		12.0	12.1	10.0	12.2
Fan Coil Power Supply			Fan Coil Powered from Outdoor Heat Pump			
Min Circuit Ampacity		A	12.0	15.0	15.0	19.0
MAX.FUSE		A	15.0	15.0	15.0	20.0
Indoor air flow (Turbo/Hi/Med/Lo)		CFM	341/294/259/235	341/294/259/235	353/312/283/247	400/352/300/207
Indoor noise level (Hi/Med/Lo)		dB(A)	37.5/35.5/26.0	37.5/35.5/26.0	41.0/37.0/33.0/24.0	44.0/41.5/31.0/26.0
Outdoor air flow		CFM	1236	1236	1472	1766
Outdoor noise level		dB(A)	53.5	53.5	56.0	59.0
Refrigerant		Type	R454B	R454B	R454B	R454B
Ref Precharge		oz	32.45	32.45	35.27	55.38
Refrigerant precharge		ft	25	25	25	25
Additional charge / ft		oz	0.16	0.16	0.16	0.16
Design pressure		PSIG	550 / 340	550 / 340	550 / 340	550 / 340
Drain Line Diameter		inch	ODΦ1	ODΦ1	ODΦ1	ODΦ1
Ref Piping	Liquid / Suction	inch	1/4 / 3/8	1/4 / 3/8	1/4 / 3/8	1/4 / 1/2
	Max. Pipe Length	ft	82	82	82	98
	Max. Pipe Lift	ft	49	49	49	66
Connection wiring			14AWG*4 Stranded, Shielded			
Thermostat Type			Wireless Remote Control or Wired Wall Controller			
Room Temp	Indoor Cooling	°F	60~90	60~90	60~90	60~90
	Indoor Heating	°F	32~86	32~86	32~86	32~86
	Outdoor Cooling	°F	-22~122	-22~122	-22~122	-22~122
	Outdoor Heating	°F	-22~75	-22~75	-22~75	-22~75

6MMNC0-HH-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	10302	10316	10327	10327	10341	10923	10936	10947	10949	10962	11575	11591	11603	11606	11619	12273	12286	12300	12302	12317
	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	0.40	0.40	0.40	0.40	0.40	0.42	0.42	0.43	0.43	0.43	0.45	0.45	0.45	0.45	0.45	0.48	0.48	0.48	0.48	0.48
59°F	TC	10700	10714	10726	10726	10741	11345	11358	11369	11372	11385	12022	12038	12052	12054	12067	12747	12761	12775	12777	12793
	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	0.43	0.43	0.43	0.43	0.43	0.46	0.46	0.46	0.46	0.46	0.49	0.49	0.49	0.49	0.49	0.51	0.52	0.52	0.52	0.52
68°F	TC	11098	11113	11125	11125	11140	11766	11780	11792	11794	11808	12469	12486	12500	12502	12516	13221	13235	13250	13252	13268
	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	0.46	0.46	0.46	0.46	0.47	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
77°F	TC	11496	11511	11523	11524	11539	12188	12203	12215	12217	12232	12916	12933	12948	12950	12965	13695	13710	13725	13727	13744
	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	0.50	0.50	0.50	0.50	0.50	0.53	0.53	0.53	0.53	0.53	0.56	0.56	0.56	0.56	0.56	0.59	0.59	0.59	0.59	0.59
80°F	TC	11585	11600	11613	11613	11629	12283	12297	12309	12312	12327	13017	13034	13048	13050	13065	13801	13816	13831	13833	13850
	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	0.55	0.55	0.55	0.55	0.55	0.58	0.58	0.59	0.59	0.59	0.62	0.62	0.62	0.62	0.62	0.66	0.66	0.66	0.66	0.66
86°F	TC	11490	11505	11517	11518	11533	12182	12196	12208	12211	12225	12910	12927	12941	12943	12958	13688	13703	13717	13720	13737
	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	0.64	0.64	0.65	0.65	0.65	0.68	0.68	0.68	0.68	0.68	0.72	0.72	0.73	0.73	0.73	0.77	0.77	0.77	0.77	0.77
95°F	TC	11276	11291	11303	11303	11319	11955	11969	11981	11983	11998	12669	12686	12700	12702	12717	13433	13447	13462	13464	13481
	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	0.85	0.85	0.85	0.85	0.86	0.90	0.90	0.91	0.91	0.91	0.96	0.96	0.96	0.96	0.96	1.02	1.02	1.02	1.02	1.02
104°F	TC	10443	10457	10469	10469	10483	11073	11086	11097	11099	11112	11734	11749	11763	11765	11778	12441	12455	12468	12470	12486
	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	0.89	0.89	0.89	0.89	0.90	0.95	0.95	0.95	0.95	0.95	1.00	1.00	1.01	1.01	1.01	1.06	1.06	1.07	1.07	1.07
110°F	TC	9944	9957	9968	9968	9982	10543	10556	10566	10568	10581	11173	11188	11200	11202	11215	11846	11859	11872	11874	11889
	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	0.92	0.92	0.92	0.92	0.92	0.97	0.97	0.97	0.97	0.98	1.03	1.03	1.03	1.03	1.03	1.09	1.09	1.09	1.09	1.10
115°F	TC	8149	8160	8169	8169	8180	8640	8650	8659	8661	8671	9156	9168	9178	9180	9190	9708	9718	9729	9731	9743
	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	0.81	0.81	0.81	0.81	0.81	0.86	0.86	0.86	0.86	0.86	0.91	0.91	0.91	0.91	0.91	0.96	0.97	0.97	0.97	0.97
122°F	TC	5756	5763	5770	5770	5778	6103	6110	6116	6117	6124	6467	6476	6483	6484	6491	6857	6864	6872	6873	6881
	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	0.67	0.67	0.67	0.67	0.67	0.71	0.71	0.71	0.71	0.71	0.75	0.75	0.75	0.75	0.75	0.79	0.79	0.80	0.80	0.80

9MMNC0-HH-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	11266	11281	11293	11294	11309	11945	11959	11971	11973	11987	12658	12675	12689	12691	12706	13421	13436	13450	13452	13469
	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	0.49	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	0.59	0.59	0.59	0.59
59°F	TC	11402	11417	11429	11430	11445	12089	12103	12115	12118	12132	12811	12828	12842	12844	12859	13583	13598	13613	13615	13632
	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	0.51	0.51	0.51	0.51	0.51	0.54	0.54	0.54	0.54	0.54	0.57	0.57	0.57	0.57	0.57	0.60	0.60	0.60	0.60	0.60
68°F	TC	11538	11553	11566	11566	11582	12233	12247	12259	12262	12276	12964	12981	12995	12997	13012	13745	13760	13775	13777	13794
	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	0.52	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
77°F	TC	11673	11689	11702	11702	11718	12377	12392	12404	12406	12421	13116	13133	13148	13150	13165	13907	13922	13937	13939	13956
	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	0.54	0.54	0.54	0.54	0.54	0.57	0.57	0.57	0.57	0.57	0.60	0.60	0.60	0.60	0.60	0.64	0.64	0.64	0.64	0.64
80°F	TC	11685	11701	11713	11714	11730	12389	12404	12416	12419	12433	13129	13146	13161	13163	13178	13920	13936	13951	13953	13970
	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	0.61	0.61	0.61	0.64	0.64	0.64	0.64	0.64	0.68	0.68	0.68	0.68	0.68	0.72	0.72	0.72	0.72	0.72
86°F	TC	11614	11629	11642	11642	11658	12314	12328	12340	12343	12357	13049	13066	13081	13083	13098	13835	13850	13866	13868	13885
	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	0.73	0.73	0.73	0.73	0.74	0.78	0.78	0.78	0.78	0.78	0.82	0.82	0.82	0.82	0.83	0.87	0.87	0.87	0.87	0.88
95°F	TC	11453	11469	11481	11481	11497	12143	12158	12170	12172	12187	12869	12886	12900	12902	12917	13644	13659	13674	13676	13693
	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	1.02	1.02	1.02	1.02	1.02	1.08	1.08	1.08	1.09	1.09	1.15	1.15	1.15	1.15	1.15	1.22	1.22	1.22	1.22	1.22
104°F	TC	10510	10524	10535	10536	10550	11143	11156	11167	11170	11183	11809	11824	11838	11840	11853	12520	12534	12548	12550	12565
	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	1.01	1.01	1.01	1.01	1.01	1.07	1.07	1.07	1.07	1.07	1.13	1.13	1.13	1.13	1.14	1.20	1.20	1.20	1.20	1.20
110°F	TC	9944	9957	9968	9968	9982	10543	10556	10566	10568	10581	11173	11188	11200	11202	11215	11846	11859	11872	11874	11889
	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	1.00	1.00	1.00	1.00	1.00	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
115°F	TC	8149	8160	8169	8169	8180	8640	8650	8659	8661	8671	9156	9168	9178	9180	9190	9708	9718	9729	9731	9743
	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	0.83	0.83	0.83	0.83	0.83	0.88	0.88	0.88	0.88	0.88	0.93	0.93	0.94	0.94	0.94	0.99	0.99	0.99	0.99	0.99
122°F	TC	5756	5763	5770	5770	5778	6103	6110	6116	6117	6124	6467	6476	6483	6484	6491	6857	6864	6872	6873	6881
	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	0.61	0.61	0.61	0.61	0.61	0.64	0.64	0.64	0.64	0.65	0.68	0.68	0.68	0.68	0.68	0.72	0.72	0.72	0.72	0.73

12MMNC0-HH-SYS-B Expanded Cooling @ 488 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	11234	11249	11261	11261	11276	11911	11925	11936	11939	11953	12622	12639	12653	12655	12669	13383	13397	13412	13414	13431
	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	0.57	0.57	0.57	0.57	0.57	0.60	0.61	0.61	0.61	0.61	0.64	0.64	0.64	0.64	0.64	0.68	0.68	0.68	0.68	0.68
59°F	TC	11645	11661	11673	11674	11689	12347	12361	12373	12376	12391	13084	13101	13116	13118	13133	13873	13888	13903	13905	13922
	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	0.58	0.58	0.58	0.58	0.58	0.61	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
68°F	TC	12056	12072	12085	12086	12102	12783	12798	12811	12813	12828	13546	13564	13579	13582	13597	14363	14378	14394	14396	14414
	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	0.59	0.59	0.59	0.59	0.59	0.62	0.62	0.63	0.63	0.63	0.66	0.66	0.66	0.66	0.66	0.70	0.70	0.70	0.70	0.70
77°F	TC	12468	12484	12498	12498	12515	13219	13235	13248	13250	13266	14009	14027	14042	14045	14061	14853	14869	14885	14887	14906
	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	0.60	0.60	0.60	0.60	0.60	0.63	0.63	0.63	0.63	0.64	0.67	0.67	0.67	0.67	0.67	0.71	0.71	0.71	0.71	0.71
80°F	TC	12573	12590	12603	12604	12621	13331	13346	13359	13362	13378	14127	14145	14161	14164	14179	14978	14994	15011	15013	15032
	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	0.66	0.66	0.67	0.67	0.67	0.70	0.70	0.71	0.71	0.71	0.75	0.75	0.75	0.75	0.75	0.79	0.79	0.79	0.79	0.79
86°F	TC	12501	12518	12532	12532	12549	13255	13271	13284	13286	13302	14047	14065	14081	14083	14099	14893	14909	14926	14928	14946
	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	0.80	0.80	0.80	0.80	0.80	0.84	0.84	0.85	0.85	0.85	0.89	0.90	0.90	0.90	0.90	0.95	0.95	0.95	0.95	0.95
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	1.09	1.09	1.09	1.09	1.10	1.16	1.16	1.16	1.16	1.16	1.23	1.23	1.23	1.23	1.23	1.30	1.30	1.30	1.30	1.31
104°F	TC	11231	11246	11258	11259	11274	11908	11922	11934	11936	11950	12620	12636	12650	12652	12666	13380	13394	13409	13411	13428
	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	1.07	1.07	1.07	1.07	1.08	1.14	1.14	1.14	1.14	1.14	1.20	1.21	1.21	1.21	1.21	1.28	1.28	1.28	1.28	1.28
110°F	TC	10565	10580	10591	10591	10606	11202	11215	11226	11229	11242	11871	11887	11900	11902	11915	12587	12600	12614	12616	12632
	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	1.06	1.06	1.06	1.06	1.12	1.13	1.13	1.13	1.13	1.19	1.19	1.19	1.19	1.20	1.26	1.26	1.27	1.27	1.27
115°F	TC	8533	8544	8553	8554	8565	9047	9058	9067	9068	9079	9587	9600	9611	9612	9623	10165	10176	10187	10189	10201
	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	0.86	0.86	0.86	0.86	0.87	0.91	0.92	0.92	0.92	0.92	0.97	0.97	0.97	0.97	0.97	1.03	1.03	1.03	1.03	1.03
122°F	TC	5822	5830	5836	5837	5845	6173	6181	6187	6188	6195	6542	6551	6558	6559	6566	6936	6944	6951	6952	6961
	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	0.60	0.60	0.60	0.60	0.60	0.63	0.64	0.64	0.64	0.64	0.67	0.67	0.67	0.67	0.68	0.71	0.71	0.71	0.71	0.72

18MMNC0-HH-SYS-B Expanded Cooling @ 488 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	18171	18195	18215	18216	18240	19266	19289	19308	19311	19334	20417	20443	20466	20470	20493	21647	21670	21694	21697	21724
	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	0.83	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	0.99	0.99	0.99	0.99	0.99
59°F	TC	18791	18816	18837	18837	18863	19924	19947	19967	19971	19995	21114	21141	21165	21169	21192	22386	22410	22435	22438	22466
	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	0.90	0.90	0.90	0.90	0.90	0.95	0.95	0.95	0.95	0.95	1.01	1.01	1.01	1.01	1.01	1.07	1.07	1.07	1.07	1.07
68°F	TC	19412	19438	19459	19459	19486	20581	20606	20626	20630	20655	21811	21839	21864	21868	21892	23125	23150	23175	23179	23208
	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	0.96	0.97	0.97	0.97	0.97	1.02	1.02	1.03	1.03	1.03	1.08	1.09	1.09	1.09	1.09	1.15	1.15	1.15	1.15	1.15
77°F	TC	20032	20059	20080	20081	20108	21239	21264	21285	21290	21315	22508	22537	22562	22567	22592	23864	23890	23916	23920	23950
	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	1.03	1.03	1.04	1.04	1.04	1.10	1.10	1.10	1.10	1.10	1.16	1.16	1.16	1.16	1.17	1.23	1.23	1.23	1.23	1.24
80°F	TC	19805	19831	19853	19854	19880	20998	21023	21044	21048	21073	22253	22282	22307	22311	22336	23594	23619	23645	23649	23678
	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	1.12	1.12	1.12	1.12	1.12	1.18	1.18	1.19	1.19	1.19	1.25	1.25	1.26	1.26	1.26	1.33	1.33	1.33	1.33	1.33
86°F	TC	18901	18927	18947	18948	18974	20041	20064	20084	20088	20112	21238	21265	21289	21293	21317	22517	22542	22567	22570	22598
	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	1.24	1.24	1.24	1.24	1.24	1.31	1.31	1.31	1.31	1.32	1.39	1.39	1.39	1.39	1.39	1.47	1.47	1.48	1.48	1.48
95°F	TC	16869	16892	16910	16911	16933	17886	17907	17925	17928	17949	18954	18979	19000	19004	19025	20096	20118	20140	20143	20168
	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	1.51	1.51	1.51	1.51	1.52	1.60	1.60	1.60	1.60	1.61	1.70	1.70	1.70	1.70	1.70	1.80	1.80	1.80	1.80	1.80
104°F	TC	14372	14391	14407	14407	14427	15238	15256	15271	15274	15292	16149	16169	16188	16191	16209	17121	17140	17159	17161	17183
	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	1.42	1.42	1.42	1.42	1.42	1.50	1.50	1.51	1.51	1.51	1.59	1.59	1.60	1.60	1.60	1.69	1.69	1.69	1.69	1.69
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	1.36	1.36	1.37	1.37	1.37	1.44	1.45	1.45	1.45	1.45	1.53	1.53	1.53	1.53	1.54	1.62	1.62	1.63	1.63	1.63
115°F	TC	11272	11287	11299	11299	11315	11951	11965	11977	11979	11993	12665	12681	12695	12698	12712	13428	13442	13457	13459	13476
	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	1.28	1.29	1.29	1.29	1.29	1.36	1.36	1.36	1.36	1.37	1.44	1.44	1.45	1.45	1.45	1.53	1.53	1.53	1.53	1.53
122°F	TC	9135	9148	9157	9158	9170	9686	9697	9707	9709	9720	10264	10278	10289	10291	10303	10883	10895	10907	10908	10922
	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	1.18	1.18	1.18	1.18	1.18	1.25	1.25	1.25	1.25	1.25	1.33	1.33	1.33	1.33	1.33	1.41	1.41	1.41	1.41	1.41

6MMNC0-HH-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	4205	4121	4100	4084	4047	0.87	0.88	0.88	0.89	0.89
	-13°F	5435	5327	5300	5279	5231	0.93	0.94	0.94	0.94	0.95
	-4°F	6563	6432	6400	6374	6317	1.00	1.01	1.01	1.01	1.01
	0°F	7338	7192	7156	7127	7063	0.99	1.00	1.00	1.00	1.01
	5°F	8307	8141	8100	8068	7995	0.98	0.99	0.99	0.99	1.00
	14°F	9384	9196	9150	9113	9031	1.06	1.07	1.07	1.07	1.08
	17°F	9743	9548	9500	9462	9377	1.09	1.10	1.10	1.10	1.11
	22°F	10191	9988	9938	9898	9809	1.10	1.11	1.11	1.12	1.12
	27°F	10640	10427	10375	10334	10241	1.12	1.13	1.13	1.13	1.14
	32°F	11089	10867	10813	10770	10673	1.13	1.14	1.14	1.14	1.15
	35°F	11358	11131	11075	11031	10932	1.14	1.15	1.15	1.15	1.16
	37°F	11687	11453	11396	11351	11248	1.11	1.12	1.12	1.12	1.12
	42°F	12510	12259	12198	12149	12040	1.02	1.03	1.03	1.04	1.04
	44.6°F	12839	12582	12519	12469	12357	0.99	1.00	1.00	1.00	1.01
	47°F	13332	13065	13000	12948	12831	0.94	0.95	0.95	0.95	0.96
	52°F	13795	13519	13452	13398	13277	0.89	0.90	0.90	0.90	0.90
	57°F	14258	13973	13903	13847	13723	0.84	0.84	0.84	0.85	0.85
	59°F	14443	14154	14084	14027	13901	0.82	0.82	0.82	0.83	0.83
	62°F	14721	14427	14355	14297	14168	0.78	0.79	0.79	0.79	0.80
	64.4°F	14906	14608	14535	14477	14347	0.76	0.77	0.77	0.77	0.78

9MMNC0-HH-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	5230	5126	5100	5080	5034	1.35	1.36	1.36	1.36	1.37
	-13°F	6461	6332	6300	6275	6218	1.41	1.42	1.42	1.42	1.43
	-4°F	8820	8643	8600	8566	8489	1.51	1.52	1.53	1.53	1.54
	0°F	9731	9537	9489	9451	9366	1.59	1.60	1.60	1.61	1.61
	5°F	10871	10653	10600	10558	10463	1.68	1.69	1.70	1.70	1.71
	14°F	11871	11633	11575	11529	11425	1.71	1.72	1.73	1.73	1.74
	17°F	12204	11960	11900	11852	11746	1.72	1.73	1.74	1.74	1.75
	22°F	12694	12440	12378	12328	12218	1.72	1.74	1.74	1.75	1.75
	27°F	13184	12921	12856	12805	12689	1.73	1.74	1.75	1.75	1.76
	32°F	13674	13401	13334	13281	13161	1.74	1.75	1.75	1.76	1.77
	35°F	13969	13689	13621	13566	13444	1.74	1.76	1.76	1.76	1.77
	37°F	14016	13736	13667	13613	13490	1.67	1.69	1.69	1.69	1.70
	42°F	14136	13853	13784	13728	13605	1.51	1.52	1.52	1.52	1.53
	44.6°F	14183	13900	13830	13775	13651	1.44	1.45	1.45	1.46	1.46
	47°F	14255	13970	13900	13844	13720	1.34	1.35	1.35	1.35	1.36
	52°F	14439	14151	14080	14023	13897	1.18	1.19	1.19	1.20	1.20
	57°F	14624	14331	14260	14203	14075	1.03	1.03	1.04	1.04	1.04
	59°F	14697	14403	14331	14274	14146	0.96	0.97	0.97	0.98	0.98
	62°F	14808	14512	14439	14382	14252	0.87	0.88	0.88	0.88	0.89
	64.4°F	14882	14584	14511	14453	14323	0.81	0.82	0.82	0.82	0.82

12MMNC0-HH-SYS-B Expanded Heating @ 353 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
353	-22°F	5230	5126	5100	5080	5034	1.36	1.37	1.37	1.37	1.38
	-13°F	6461	6332	6300	6275	6218	1.43	1.44	1.44	1.45	1.45
	-4°F	8820	8643	8600	8566	8489	1.52	1.53	1.54	1.54	1.55
	0°F	9731	9537	9489	9451	9366	1.59	1.61	1.61	1.61	1.62
	5°F	10871	10653	10600	10558	10463	1.68	1.69	1.70	1.70	1.71
	14°F	11871	11633	11575	11529	11425	1.75	1.76	1.77	1.77	1.78
	17°F	12204	11960	11900	11852	11746	1.77	1.78	1.79	1.79	1.80
	22°F	12572	12320	12259	12210	12100	1.76	1.78	1.78	1.78	1.79
	27°F	12939	12681	12617	12567	12454	1.75	1.77	1.77	1.78	1.78
	32°F	13307	13041	12976	12924	12807	1.75	1.76	1.76	1.77	1.77
	35°F	13528	13257	13191	13138	13020	1.74	1.76	1.76	1.76	1.77
	37°F	13871	13594	13526	13472	13350	1.68	1.69	1.69	1.70	1.71
	42°F	14730	14435	14363	14305	14177	1.52	1.53	1.54	1.54	1.55
	44.6°F	15073	14772	14698	14639	14507	1.46	1.47	1.47	1.48	1.48
	47°F	15588	15276	15200	15139	15003	1.36	1.37	1.38	1.38	1.39
	52°F	15652	15339	15262	15201	15064	1.20	1.21	1.21	1.21	1.22
	57°F	15716	15402	15325	15263	15126	1.03	1.04	1.04	1.04	1.05
	59°F	15742	15427	15350	15288	15151	0.96	0.97	0.97	0.98	0.98
	62°F	15780	15464	15387	15326	15188	0.86	0.87	0.87	0.87	0.88
	64.4°F	15806	15489	15412	15350	15212	0.80	0.80	0.81	0.81	0.81

18MMNC0-HH-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	9743	9548	9500	9462	9377	1.90	1.92	1.92	1.92	1.93
	-13°F	11281	11055	11000	10956	10857	2.06	2.08	2.08	2.08	2.09
	-4°F	14870	14573	14500	14442	14312	2.27	2.29	2.30	2.30	2.31
	0°F	16238	15913	15833	15770	15628	2.46	2.48	2.48	2.49	2.50
	5°F	17947	17588	17500	17430	17273	2.69	2.71	2.71	2.72	2.73
	14°F	18947	18568	18475	18401	18235	2.67	2.69	2.69	2.70	2.71
	17°F	19280	18894	18800	18725	18556	2.66	2.68	2.69	2.69	2.70
	22°F	19530	19139	19044	18967	18797	2.50	2.52	2.53	2.53	2.54
	27°F	19780	19384	19287	19210	19037	2.34	2.36	2.36	2.37	2.38
	32°F	20030	19629	19531	19453	19278	2.18	2.20	2.20	2.21	2.22
	35°F	20179	19776	19677	19598	19422	2.08	2.10	2.10	2.11	2.12
	37°F	20611	20198	20098	20017	19837	2.06	2.08	2.09	2.09	2.10
	42°F	21689	21255	21149	21064	20875	2.02	2.03	2.04	2.04	2.05
	44.6°F	22120	21678	21569	21483	21290	2.00	2.01	2.02	2.02	2.03
	47°F	22767	22312	22200	22111	21912	1.97	1.99	1.99	1.99	2.00
	52°F	21685	21252	21145	21061	20871	1.71	1.73	1.73	1.73	1.74
	57°F	20604	20192	20091	20010	19830	1.46	1.47	1.47	1.48	1.48
	59°F	20171	19768	19669	19590	19414	1.35	1.37	1.37	1.37	1.38
	62°F	19522	19132	19036	18960	18789	1.20	1.21	1.21	1.22	1.22
	64.4°F	19090	18708	18614	18540	18373	1.10	1.11	1.11	1.11	1.12

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 functions 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.



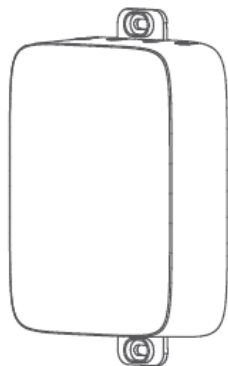
MWRC2
Wireless
Remote
Controller



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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