

COOLING PERFORMANCE DATA

MR COOL Model	Cooling																				
	Indoor Conditions			-4°F	0°F	5°F	17°F	25°F	35°F	47°F	55°F	65°F	75°F	80°F	85°F	95°F	105°F	110°F	115°F	122°F	
	DB	WB		-25° C	-20°C	-17.8° C	-15°C	-8.3°C	-3.9°C	1.7°C	8.3°C	12.8°C	18.3°C	24°C	26.7°C	29.4°C	35°C	40.5°C	43.3°C	46°C	50°C
O-09-HP-WMAH-230B O-ES-09-HP-C-230B	65°F (18.3°C)	54°F(12.2°C)	TC	9.85	10.76	11.06	11.29	11.56	11.32	11.35	11.34	11.16	11.19	11.31	11.15	10.77	10.37	10.05	9.53	9.12	8.56
			SC	6.51	7.02	7.56	7.70	8.08	8.20	8.12	8.57	8.28	8.64	8.64	8.80	8.71	8.49	8.29	8.63	8.51	8.54
			Input	0.68	0.76	0.78	0.83	0.88	0.86	0.87	0.90	0.93	0.93	0.98	0.97	0.96	0.98	1.02	1.01	1.12	1.23
	70°F (21.1°C)	59°F (15°C)	TC	10.46	11.39	11.74	11.90	12.13	11.97	11.90	11.84	11.78	11.79	11.89	11.74	11.35	10.84	10.57	10.08	9.65	9.06
			SC	6.87	7.38	7.98	8.07	8.44	8.63	8.45	8.90	8.69	9.05	9.04	9.21	9.13	8.84	8.67	9.09	8.95	9.00
			Input	0.68	0.76	0.79	0.83	0.87	0.86	0.87	0.90	0.92	0.94	0.98	0.97	0.96	0.97	1.01	1.01	1.13	1.22
	75°F (23.9°C)	63°F(17.2°C)	TC	11.00	12.00	12.29	12.42	12.75	12.74	12.56	12.45	12.34	12.51	12.50	12.29	11.86	11.50	11.10	10.67	10.23	9.54
			SC	7.19	7.73	8.30	8.38	8.81	9.13	8.87	9.30	9.06	9.55	9.46	9.59	9.48	9.31	9.06	9.56	9.44	9.45
			Input	0.68	0.76	0.79	0.83	0.87	0.87	0.87	0.90	0.91	0.95	0.97	0.96	0.96	0.98	1.01	1.02	1.14	1.22
	80°F (26.7°C)	67°F(19.4°C)	TC	11.67	12.55	12.87	13.21	13.32	13.31	13.30	13.16	13.12	13.09	13.06	13.04	12.61	12.22	11.73	11.24	10.66	9.99
			SC	7.59	8.05	8.65	8.87	9.15	9.49	9.33	9.77	9.58	9.95	9.82	10.10	10.04	9.85	9.53	10.02	9.78	9.85
			Input	0.69	0.76	0.79	0.83	0.86	0.87	0.88	0.91	0.93	0.94	0.96	0.98	0.98	0.99	1.01	1.02	1.11	1.14
O-12-HP-WMAH-230B O-ES-12-HP-C-230B	65°F (18.3°C)	54°F(12.2°C)	TC	10.40	11.11	11.56	11.64	11.43	11.73	11.60	11.55	11.40	11.66	11.39	11.53	11.33	11.48	11.05	10.52	10.24	9.29
			SC	6.45	7.32	7.62	7.92	7.97	8.38	8.62	8.76	8.67	9.26	8.83	8.94	9.13	9.18	9.45	9.42	9.71	9.30
			Input	0.68	0.76	0.84	0.96	0.95	1.00	0.98	0.99	0.98	1.02	1.02	1.03	1.08	1.19	1.18	1.18	1.27	1.28
	70°F (21.1°C)	59°F (15°C)	TC	11.03	11.61	12.11	12.34	12.13	12.40	12.25	12.07	12.05	12.20	12.01	12.02	11.96	12.11	11.65	11.17	10.69	9.72
			SC	6.80	7.60	7.92	8.35	8.40	8.82	9.06	9.11	9.11	9.62	9.26	9.26	9.58	9.64	9.90	9.91	10.07	9.69
			Input	0.69	0.75	0.84	0.96	0.96	0.99	0.98	0.99	0.99	1.02	1.01	1.02	1.08	1.18	1.19	1.18	1.28	1.27
	75°F (23.9°C)	63°F(17.2°C)	TC	11.62	12.30	12.77	13.04	12.89	12.93	12.88	12.79	12.68	12.79	12.67	12.71	12.63	12.75	12.20	11.79	11.18	10.23
			SC	7.13	8.02	8.32	8.78	8.89	9.15	9.47	9.60	9.55	10.04	9.72	9.74	10.07	10.08	10.30	10.39	10.47	10.16
			Input	0.68	0.75	0.84	0.96	0.96	0.98	0.98	0.99	1.00	1.01	1.03	1.04	1.08	1.18	1.17	1.20	1.26	1.28
	80°F (26.7°C)	67°F(19.4°C)	TC	12.27	13.05	13.30	13.60	13.52	13.47	13.41	13.40	13.40	13.40	13.40	13.40	13.39	13.39	12.81	12.32	11.72	10.80
			SC	7.48	8.47	8.62	9.10	9.28	9.48	9.82	10.01	10.04	10.46	10.23	10.23	10.62	10.54	10.77	10.80	10.92	10.67
			Input	0.69	0.76	0.84	0.96	0.96	0.97	0.97	0.98	0.99	1.01	1.02	1.04	1.15	1.18	1.18	1.19	1.25	1.24
O-18-HP-WMAH-230B O-ES-18-HP-C-230B	65°F (18.3°C)	54°F(12.2°C)	TC	16.24	16.01	16.48	16.36	16.84	17.21	16.89	17.53	17.82	18.27	18.52	18.71	17.53	16.66	16.07	15.64	14.38	13.05
			SC	10.57	10.88	11.21	11.12	11.70	12.48	12.59	12.88	13.69	14.10	14.86	14.96	13.63	13.41	13.70	13.92	13.72	13.00
			Input	0.82	0.79	0.83	0.83	0.86	0.89	0.90	0.95	1.01	1.08	1.14	1.23	1.40	1.71	1.69	1.70	1.71	1.78
	70°F (21.1°C)	59°F (15°C)	TC	16.97	17.01	17.24	17.24	17.78	18.12	17.97	18.26	18.72	19.27	19.50	19.61	18.65	17.50	16.86	16.43	15.20	13.77
			SC	11.00	11.50	11.66	11.65	12.28	13.07	13.33	13.35	14.31	14.78	15.56	15.61	14.41	14.00	14.29	14.55	14.42	13.65
			Input	0.81	0.81	0.82	0.83	0.86	0.90	0.92	0.94	1.01	1.07	1.15	1.22	1.41	1.69	1.67	1.70	1.72	1.77
	75°F (23.9°C)	63°F(17.2°C)	TC	18.04	17.89	18.16	18.22	18.86	18.89	18.71	19.18	19.60	20.14	20.48	20.60	19.63	18.62	17.64	17.13	15.92	14.58
			SC	11.61	12.02	12.21	12.25	12.96	13.56	13.81	13.95	14.90	15.34	16.24	16.30	15.10	14.81	14.87	15.08	15.03	14.41
			Input	0.81	0.81	0.82	0.84	0.86	0.89	0.92	0.93	1.00	1.07	1.15	1.21	1.41	1.69	1.66	1.69	1.71	1.76
	80°F (26.7°C)	67°F(19.4°C)	TC	18.97	19.01	19.10	19.20	19.79	19.84	19.91	20.12	20.59	21.02	21.45	21.91	20.64	19.56	18.72	18.00	16.94	15.43
			SC	12.14	12.72	12.78	12.83	13.53	14.17	14.61	14.55	15.56	15.91	16.92	17.24	15.79	15.45	15.69	15.76	15.89	15.17
			Input	0.81	0.81	0.82	0.83	0.86	0.89	0.92	0.93	1.00	1.07	1.15	1.24	1.59	1.69	1.67	1.68	1.73	1.76
O-24-HP-WMAH-230B O-ES-24-HP-C-230B	65°F (18.3°C)	54°F(12.2°C)	TC	23.54	23.86	23.77	24.35	24.41	24.27	24.28	23.64	24.25	23.91	23.81	24.25	24.16	24.60	23.65	22.86	20.92	19.81
			SC	14.99	16.20	15.73	17.30	17.29	17.10	17.26	17.51	18.48	18.81	18.19	19.03	19.04	20.06	19.82	19.97	19.38	19.75
			Input	0.61	0.67	0.71	0.76	1.00	1.08	1.13	1.16	1.35	1.49	1.71	2.04	2.22	2.55	2.58	2.59	2.55	2.69
	70°F (21.1°C)	59°F (15°C)	TC	24.65	24.93	25.21	25.36	25.42	25.31	25.64	25.12	25.80	25.38	25.25	25.66	25.43	25.82	24.97	24.04	22.11	21.06
			SC	15.61	16.84	16.60	17.94	17.92	17.73	18.14	18.51	19.57	19.84	19.17	20.03	19.92	20.93	20.80	20.88	20.38	20.91
			Input	0.60	0.67	0.71	0.75	0.99	1.06	1.14	1.18	1.37	1.50	1.70	2.05	2.25	2.56	2.61	2.60	2.58	2.72
	75°F (23.9°C)	63°F(17.2°C)	TC	26.06	26.33	26.34	26.84	26.85	26.87	26.82	26.53	26.99	26.85	26.69	26.95	26.86	27.06	26.20	25.27	23.45	21.93
			SC	16.40	17.67	17.24	18.89	18.82	18.71	18.89	19.45	20.36	20.87	20.17	20.91	20.93	21.81	21.70	21.84	21.50	21.69
			Input	0.61	0.68	0.71	0.76	1.00	1.07	1.13	1.19	1.35	1.53	1.73	2.05	2.23	2.57	2.60	2.58	2.57	2.71
	80°F (26.7°C)	67°F(19.4°C)	TC	27.29	27.89	27.93	27.99	28.02	28.05	28.08	28.10	28.11	28.12	28.13	28.14	28.27	28.40	27.46	26.41	24.87	22.92
			SC	17.08	18.63	18.19	19.59	19.56	19.41	19.68	20.49	21.11	21.74	21.15	21.69	21.91	22.75	22.60	22.71	22.66	22.55
			Input	0.60	0.68	0.72	0.76	1.00	1.06	1.13	1.19	1.33	1.52	1.75	2.04	2.41	2.58	2.59	2.57	2.61	2.69

LEGEND
 DB --- Dry Bulb
 WB --- Wet Bulb
 TC --- Total Net Capacity (1000 Btu/hour)
 SC --- Sensible Capacity (1000 Btu/hour)
 Input --- Total Power (kW)

HEATING PERFORMANCE DATA

MR COOL Model	Heating		Outdoor conditions (DB)													
	Indoor Conditions DB		-13°F	-4°F	0°F	5°F	10°F	17°F	20°F	25°F	32°F	35°F	40°F	47°F	50°F	57°F
				-20°C		-15°C		-8.3°C	-6.7°C	-3.9°C	0°C	1.7°C	4.4°C	8.3°C	10°C	13.9°C
O-09-HP-WMAH-230B O-ES-09-HP-C-230B	60°F (15.6°C)	TC	5.78	7.77	8.38	9.13	10.16	11.09	11.36	11.61	12.01	12.25	12.68	13.03	13.40	13.82
		Input	0.86	0.88	0.94	1.01	1.07	1.15	1.13	1.12	1.11	1.11	1.07	1.06	1.07	1.10
	65°F (18.3°C)	TC	5.60	7.53	8.15	8.84	9.82	10.76	11.06	11.31	11.69	11.94	12.25	12.69	13.00	13.49
		Input	0.88	0.90	0.97	1.03	1.10	1.18	1.16	1.16	1.14	1.14	1.10	1.08	1.10	1.13
	70°F (21.1°C)	TC	5.45	7.33	7.92	8.62	9.55	10.50	10.77	11.04	11.31	11.56	11.89	12.29	12.67	13.03
		Input	0.91	0.92	0.99	1.06	1.14	1.20	1.19	1.18	1.18	1.17	1.13	1.11	1.13	1.16
O-12-HP-WMAH-230B O-ES-12-HP-C-230B	60°F (15.6°C)	TC	6.13	7.95	8.73	9.40	10.45	11.36	11.68	12.05	12.40	12.83	13.50	14.07	14.48	15.02
		Input	0.89	0.94	1.00	1.04	1.13	1.18	1.22	1.24	1.27	1.30	1.27	1.24	1.26	1.25
	65°F (18.3°C)	TC	5.95	7.76	8.45	9.16	10.16	10.97	11.30	11.76	12.04	12.48	13.17	13.73	14.09	14.57
		Input	0.92	0.96	1.03	1.07	1.16	1.21	1.25	1.28	1.31	1.34	1.31	1.27	1.29	1.29
	70°F (21.1°C)	TC	5.80	7.50	8.24	8.87	9.82	10.61	11.01	11.39	11.75	12.11	12.73	13.29	13.65	14.09
		Input	0.95	0.99	1.05	1.10	1.19	1.25	1.28	1.32	1.34	1.37	1.34	1.31	1.31	1.33
O-18-HP-WMAH-230B O-ES-18-HP-C-230B	60°F (15.6°C)	TC	8.46	10.03	11.39	12.91	14.69	16.97	18.15	19.61	21.03	22.27	22.26	22.44	23.14	23.72
		Input	1.28	1.36	1.45	1.52	1.68	1.88	1.98	2.07	2.17	2.26	2.02	1.82	1.80	1.81
	65°F (18.3°C)	TC	8.25	9.69	11.05	12.55	14.22	16.40	17.71	19.00	20.42	21.60	21.66	21.81	22.56	23.05
		Input	1.32	1.40	1.49	1.55	1.73	1.92	2.03	2.12	2.23	2.31	2.08	1.87	1.85	1.85
	70°F (21.1°C)	TC	8.01	9.39	10.72	12.18	13.87	15.93	17.19	18.50	19.78	21.01	21.11	21.19	21.81	22.46
		Input	1.35	1.43	1.52	1.59	1.77	1.97	2.08	2.18	2.28	2.37	2.14	1.91	1.90	1.90
O-24-HP-WMAH-230B O-ES-24-HP-C-230B	60°F (15.6°C)	TC	12.17	13.43	15.75	18.81	19.90	21.51	21.72	21.95	22.11	22.50	25.97	28.78	29.98	30.65
		Input	2.23	2.27	2.32	2.40	2.50	2.64	2.67	2.67	2.68	2.71	2.88	2.93	2.88	2.84
	65°F (18.3°C)	TC	11.88	12.99	15.33	18.28	19.31	20.85	21.03	21.37	21.57	21.78	25.09	28.05	28.99	29.76
		Input	2.29	2.33	2.39	2.45	2.56	2.71	2.73	2.74	2.75	2.79	2.96	3.01	2.97	2.91
	70°F (21.1°C)	TC	11.54	12.55	14.92	17.66	18.83	20.16	20.41	20.67	20.92	21.23	24.41	27.18	28.04	28.81
		Input	2.36	2.38	2.45	2.51	2.64	2.78	2.80	2.82	2.83	2.85	3.02	3.09	3.05	2.99
	75°F (23.9°C)	TC	11.08	12.04	14.31	16.90	18.04	19.31	19.64	19.90	20.15	20.46	23.46	26.09	26.86	27.60
		Input	2.43	2.46	2.51	2.59	2.73	2.86	2.87	2.90	2.91	2.94	3.10	3.19	3.14	3.08

LEGEND

DB --- Dry Bulb

WB --- Wet Bulb

TC --- Total Net Capacity (1000 Btu/hour)

Input --- Total Power (kW)

COP --- W/W