

M21 Single Zone Heat Pump Performance -20°C

COOLING					-4°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		
Model	Indoor Conditions				-20°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		
	DB	WB																				
DMA09HIW21115S1 DMA09HOS21115S1 (115 Volts)	65°F (18.3°C)	54°F (12.2°C)	TC	9.03	8.92	9.50	9.76	10.02	9.73	9.80	9.17	9.10	9.23	8.80	8.55	7.93	7.81	7.48	6.86			
			SC	5.85	6.28	6.86	6.91	7.14	7.28	7.31	7.25	7.10	7.28	6.96	7.12	6.84	6.93	6.99	6.84			
			Input	0.45	0.48	0.51	0.53	0.54	0.56	0.57	0.59	0.60	0.66	0.77	0.93	0.90	0.94	1.07	1.16			
	70°F (21.1°C)	59°F (15°C)	TC	9.43	9.46	9.97	10.29	10.66	10.20	10.22	9.68	9.65	9.66	9.30	9.00	8.42	8.18	7.82	7.28			
			SC	6.07	6.62	7.16	7.24	7.56	7.59	7.58	7.62	7.49	7.58	7.31	7.46	7.22	7.23	7.26	7.22			
			Input	0.45	0.48	0.51	0.54	0.55	0.56	0.57	0.58	0.61	0.66	0.78	0.93	0.91	0.95	1.06	1.16			
	75°F (23.9°C)	63°F (17.2°C)	TC	9.99	9.97	10.54	10.72	11.12	10.78	10.67	10.30	10.09	10.06	9.74	9.44	8.91	8.65	8.21	7.61			
			SC	6.40	6.94	7.53	7.50	7.84	7.98	7.87	8.06	7.79	7.84	7.61	7.78	7.60	7.61	7.57	7.52			
			Input	0.45	0.48	0.52	0.53	0.55	0.56	0.57	0.59	0.60	0.65	0.76	0.93	0.92	0.96	1.05	1.16			
	80°F (26.7°C)	67°F (19.4°C)	TC	10.62	10.47	10.98	11.28	11.60	11.39	11.16	10.93	10.70	10.48	10.19	9.90	9.47	9.11	8.58	8.00			
			SC	6.77	7.26	7.79	7.85	8.14	8.38	8.19	8.51	8.22	8.13	7.92	8.12	8.04	7.97	7.87	7.87			
			Input	0.45	0.48	0.51	0.53	0.54	0.56	0.57	0.59	0.61	0.64	0.88	0.92	0.93	0.95	1.04	1.10			
DMA12HIW21115S1 DMA12HOS21115S1 (115 Volts)	65°F (18.3°C)	54°F (12.2°C)	TC	10.23	11.06	11.13	11.35	11.43	11.14	11.02	11.04	11.02	11.11	11.01	11.01	10.47	9.79	9.54	8.77			
			SC	6.70	7.60	7.91	8.08	8.33	8.16	8.40	8.37	8.63	8.91	8.65	8.95	8.76	8.97	9.06	8.74			
			Input	0.70	0.81	0.81	0.83	0.86	0.89	0.91	0.96	0.98	1.04	1.13	1.35	1.35	1.38	1.70	1.88			
	70°F (21.1°C)	59°F (15°C)	TC	10.67	11.52	11.67	11.92	12.02	11.62	11.63	11.65	11.65	11.74	11.49	11.49	11.04	10.40	10.11	9.28			
			SC	6.94	7.88	8.26	8.44	8.71	8.45	8.82	8.79	9.08	9.37	8.97	9.29	9.19	9.46	9.54	9.21			
			Input	0.70	0.80	0.81	0.83	0.85	0.89	0.91	0.96	0.99	1.05	1.13	1.32	1.35	1.40	1.70	1.88			
	75°F (23.9°C)	63°F (17.2°C)	TC	11.25	12.00	12.41	12.59	12.71	12.17	12.31	12.34	12.19	12.31	12.06	12.06	11.53	11.05	10.54	9.69			
			SC	7.28	8.16	8.74	8.86	9.16	8.81	9.29	9.26	9.46	9.76	9.36	9.69	9.54	9.99	9.89	9.58			
			Input	0.70	0.79	0.82	0.83	0.86	0.88	0.92	0.96	0.98	1.03	1.12	1.31	1.35	1.42	1.67	1.88			
	80°F (26.7°C)	67°F (19.4°C)	TC	11.88	12.77	13.16	13.32	13.45	12.90	12.92	12.93	12.94	12.96	12.79	12.57	12.05	11.57	10.99	10.11			
			SC	7.64	8.64	9.21	9.32	9.64	9.28	9.70	9.65	9.98	10.21	9.87	10.05	9.92	10.41	10.25	9.94			
			Input	0.70	0.80	0.82	0.84	0.86	0.89	0.92	0.95	0.99	1.03	1.26	1.31	1.35	1.42	1.65	1.49			
DMA18HIW21230S1 DMA18HOS21230S1	65°F (18.3°C)	54°F (12.2°C)	TC	14.37	14.73	14.89	14.97	15.90	16.09	16.37	16.43	16.97	17.11	16.82	16.48	16.02	15.19	14.42	13.11			
			SC	9.35	10.34	10.53	10.82	11.36	12.22	12.77	12.98	13.08	13.45	13.69	13.55	13.31	13.58	13.33	13.07			
			Input	0.82	0.89	0.92	0.95	1.03	1.09	1.16	1.21	1.35	1.39	1.58	1.78	1.70	1.71	1.60	1.52			
	70°F (21.1°C)	59°F (15°C)	TC	15.13	15.39	15.60	15.76	16.61	16.90	17.05	17.41	17.77	17.94	17.88	17.45	16.77	16.16	15.23	13.87			
			SC	9.79	10.74	10.96	11.31	11.81	12.77	13.23	13.66	13.62	14.04	14.47	14.28	13.86	14.37	14.00	13.76			
			Input	0.81	0.89	0.91	0.94	1.02	1.09	1.14	1.22	1.33	1.38	1.59	1.79	1.71	1.71	1.60	1.53			
	75°F (23.9°C)	63°F (17.2°C)	TC	16.02	16.20	16.56	16.67	17.34	17.63	17.97	18.48	18.83	19.02	18.90	18.47	17.60	16.92	15.93	14.69			
			SC	10.31	11.25	11.58	11.91	12.26	13.25	13.88	14.43	14.34	14.81	15.20	15.04	14.47	14.96	14.56	14.53			
			Input	0.81	0.88	0.92	0.96	1.01	1.09	1.14	1.24	1.32	1.38	1.58	1.79	1.72	1.69	1.59	1.54			
	80°F (26.7°C)	67°F (19.4°C)	TC	16.81	17.20	17.36	17.72	18.14	18.75	19.09	19.45	19.80	20.17	19.73	19.30	18.60	17.76	16.59	15.33			
			SC	10.76	11.87	12.08	12.60	12.77	14.01	14.68	15.10	14.98	15.61	15.78	15.63	15.20	15.62	15.10	15.10			
			Input	0.81	0.89	0.92	0.96	1.01	1.10	1.16	1.24	1.31	1.40	1.70	1.80	1.74	1.68	1.59	1.51			

DMA24HIW21230S1 DMA24HOS21230S1	65°F (18.3°C)	54°F (12.2°C)	TC	19.71	20.55	21.20	21.47	22.71	21.85	22.22	22.10	22.93	23.53	21.85	20.88	20.21	19.38	18.64	17.33
			SC	13.29	14.54	15.08	15.78	16.55	15.79	17.04	16.71	18.26	18.81	17.23	16.61	16.92	17.26	17.64	17.19
			Input	0.88	1.15	1.42	1.55	1.78	1.88	1.95	1.98	2.05	2.20	2.37	2.79	2.68	2.54	2.41	2.29
	70°F (21.1°C)	59°F (15°C)	TC	20.90	21.75	22.15	22.84	23.66	23.13	23.52	23.51	24.24	24.98	23.02	22.05	21.34	20.49	19.58	18.28
			SC	14.02	15.30	15.68	16.68	17.15	16.61	17.96	17.69	19.20	19.86	18.07	17.43	17.77	18.16	18.42	18.06
			Input	0.88	1.15	1.39	1.57	1.76	1.89	1.94	1.98	2.07	2.21	2.40	2.82	2.70	2.57	2.41	2.28
	75°F (23.9°C)	63°F (17.2°C)	TC	22.18	23.04	23.15	23.89	24.64	24.37	24.50	24.90	25.38	26.26	24.41	23.33	22.33	21.61	20.39	19.13
			SC	14.80	16.12	16.29	17.37	17.78	17.39	18.60	18.65	20.00	20.77	19.07	18.36	18.47	19.04	19.10	18.81
			Input	0.89	1.17	1.39	1.55	1.73	1.88	1.94	2.00	2.06	2.19	2.40	2.81	2.67	2.56	2.38	2.24
	80°F (26.7°C)	67°F (19.4°C)	TC	23.30	24.28	24.50	25.07	25.72	25.57	26.00	26.46	26.89	27.36	25.94	24.61	23.73	22.89	21.63	20.22
			SC	15.45	16.87	17.15	18.13	18.44	18.16	19.63	19.69	21.08	21.50	20.13	19.25	19.53	20.08	20.16	19.81
			Input	0.89	1.17	1.41	1.54	1.70	1.88	1.94	2.01	2.07	2.14	2.65	2.80	2.68	2.57	2.41	2.27
DMA30HIW21230S1 DMA30HOS21230S1	65°F (18.3°C)	54°F (12.2°C)	TC	24.01	25.01	25.47	25.75	26.24	26.87	27.25	26.86	27.16	27.03	27.66	27.29	26.16	25.68	24.14	22.29
			SC	15.61	17.23	18.05	18.69	19.42	20.29	20.30	20.61	21.33	21.49	21.96	22.16	21.87	23.52	22.25	22.12
			Input	1.46	1.57	1.60	1.62	1.67	1.78	1.98	2.10	2.29	2.51	2.88	3.17	3.15	3.29	3.46	3.63
	70°F (21.1°C)	59°F (15°C)	TC	25.12	26.44	26.87	27.08	27.50	28.19	28.51	28.07	28.62	28.31	29.20	29.03	27.78	27.23	25.38	23.27
			SC	16.23	18.12	18.95	19.55	20.26	21.17	21.11	21.40	22.34	22.36	23.08	23.46	23.09	24.79	23.27	22.99
			Input	1.46	1.57	1.60	1.62	1.67	1.78	1.98	2.09	2.31	2.52	2.88	3.17	3.19	3.31	3.44	3.56
	75°F (23.9°C)	63°F (17.2°C)	TC	26.44	27.86	28.43	28.66	29.07	29.46	29.76	29.55	30.16	30.12	30.55	30.72	29.52	28.42	26.97	24.36
			SC	17.01	18.97	19.94	20.57	21.29	22.00	21.91	22.38	23.43	23.67	24.03	24.69	24.41	25.71	24.58	23.97
			Input	1.46	1.56	1.61	1.63	1.70	1.78	1.97	2.08	2.32	2.58	2.85	3.22	3.19	3.31	3.51	3.58
	80°F (26.7°C)	67°F (19.4°C)	TC	28.01	29.18	29.77	30.10	30.44	31.01	31.22	31.43	31.64	31.87	32.02	32.21	31.17	29.95	28.18	25.67
			SC	17.90	19.75	20.78	21.46	22.16	23.01	22.86	23.70	24.46	24.89	25.07	25.73	25.65	26.96	25.53	25.16
			Input	1.46	1.57	1.59	1.64	1.70	1.79	1.94	2.13	2.33	2.57	3.00	3.18	3.23	3.30	3.46	3.60
DMA36HIW21230S1 DMA36HOS21230S1	65°F (18.3°C)	54°F (12.2°C)	TC	30.95	31.77	33.72	33.49	33.55	33.82	33.76	33.45	33.56	34.26	32.70	33.17	30.78	29.96	27.70	25.23
			SC	19.86	21.49	24.33	24.48	25.06	25.01	25.88	25.85	26.83	26.97	26.12	26.41	26.04	26.28	25.55	25.14
			Input	1.97	2.11	2.22	2.30	2.40	2.46	2.56	2.69	2.85	3.10	3.63	4.46	4.43	4.58	5.20	5.82
	70°F (21.1°C)	59°F (15°C)	TC	32.85	33.59	35.30	35.11	35.28	35.23	35.47	35.17	35.51	35.80	34.75	35.02	32.71	31.54	29.18	26.47
			SC	20.99	22.59	25.34	25.53	26.20	25.91	27.06	27.06	28.21	28.06	27.62	27.74	27.52	27.53	26.79	26.28
			Input	1.98	2.12	2.20	2.27	2.41	2.44	2.54	2.69	2.88	3.05	3.63	4.43	4.49	4.63	5.25	5.81
	75°F (23.9°C)	63°F (17.2°C)	TC	34.33	35.17	36.89	36.80	37.14	37.16	37.29	37.10	37.70	37.34	36.85	36.60	34.39	33.13	30.62	28.13
			SC	21.82	23.51	26.36	26.61	27.40	27.16	28.31	28.38	29.76	29.07	29.14	28.83	28.79	28.73	27.95	27.81
			Input	1.97	2.09	2.19	2.25	2.42	2.42	2.57	2.70	2.91	3.04	3.69	4.40	4.52	4.64	5.26	5.89
	80°F (26.7°C)	67°F (19.4°C)	TC	36.02	37.02	38.43	38.74	39.05	38.75	38.97	39.18	39.39	39.59	39.00	38.28	36.47	34.84	32.58	29.49
			SC	22.77	24.62	27.32	27.85	28.66	28.17	29.42	29.77	30.92	30.68	30.69	30.01	30.38	30.06	29.58	29.01
			Input	1.97	2.09	2.17	2.27	2.40	2.41	2.55	2.70	2.87	3.09	4.13	4.37	4.50	4.68	5.27	5.81

LEGEND: **DB** – Dry Bulb **WB** – Wet Bulb **TC** – Total Net Capacity (1,000 BTU/h) **SC** – Sensible Capacity (1,000 BTU/h) **Input** – Total Power (kW) **COP** – W/W

M21 Single Zone Heat Pump Performance -20°C

HEATING			-4°F	5°F	10°F	17°F	20°F	25°F	32°F	35°F	40°F	47°F	50°F	57°F	
Model	Indoor Conditions DB		-20°C	-15°C	-12.2°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	
			DMA09HIW21115S1 DMA09HOS21115S1 (115 Volts)	60°F (15.6°C)	TC	5.82	6.07	6.92	7.92	8.22	8.53	8.77	9.12	10.15	11.29
Input	0.93	0.92			1.02	1.14	1.10	1.07	1.05	1.03	1.08	1.13	1.18	1.21	
65°F (18.3°C)	TC	5.65		5.87	6.73	7.65	7.98	8.25	8.54	8.54	8.90	9.90	10.95	11.47	12.01
	Input	0.96		0.94	1.04	1.16	1.13	1.10	1.08	1.06	1.11	1.17	1.21	1.23	
70°F (21.1°C)	TC	5.51		5.68	6.53	7.42	7.74	8.04	8.33	8.33	8.66	9.66	10.65	11.16	11.61
	Input	0.98		0.97	1.07	1.19	1.16	1.13	1.10	1.09	1.14	1.19	1.23	1.23	1.27
75°F (23.9°C)	TC	5.27		5.43	6.25	7.16	7.40	7.71	7.96	7.96	8.28	9.26	10.28	10.73	11.19
	Input	1.00		1.00	1.10	1.23	1.20	1.16	1.14	1.12	1.12	1.18	1.23	1.27	1.31
"DMA12HIW21115S1 DMA12HOS21115S1 (115 Volts)	60°F (15.6°C)	TC	5.56	7.49	7.94	8.53	9.31	10.12	10.85	11.67	12.66	13.61	14.26	14.91	
		Input	1.09	1.12	1.12	1.12	1.11	1.11	1.09	1.09	1.16	1.22	1.25	1.30	
	65°F (18.3°C)	TC	5.39	7.25	7.74	8.28	9.07	9.82	10.52	11.34	12.31	13.20	13.83	14.48	
		Input	1.11	1.14	1.15	1.16	1.14	1.13	1.12	1.12	1.19	1.25	1.28	1.33	
	70°F (21.1°C)	TC	5.25	7.01	7.53	8.06	8.76	9.51	10.21	10.99	11.94	12.88	13.45	14.04	
		Input	1.14	1.17	1.17	1.19	1.17	1.16	1.15	1.15	1.22	1.27	1.31	1.36	
	75°F (23.9°C)	TC	5.06	6.71	7.27	7.70	8.46	9.09	9.76	10.55	11.41	12.30	12.93	13.50	
		Input	1.18	1.20	1.21	1.22	1.20	1.19	1.18	1.19	1.25	1.31	1.35	1.39	
DMA18HIW21230S1 DMA18HOS21230S1	60°F (15.6°C)	TC	10.61	11.39	12.30	13.38	14.42	15.57	16.54	17.66	18.89	19.69	20.44	20.83	
		Input	1.41	1.47	1.58	1.66	1.68	1.71	1.72	1.75	1.77	1.80	1.79	1.81	
	65°F (18.3°C)	TC	10.29	11.03	12.00	13.02	14.04	15.04	16.10	17.08	18.28	19.11	19.79	20.26	
		Input	1.44	1.51	1.62	1.71	1.73	1.75	1.76	1.79	1.83	1.85	1.84	1.85	
	70°F (21.1°C)	TC	9.98	10.76	11.71	12.60	13.62	14.60	15.59	16.67	17.72	18.59	19.14	19.71	
		Input	1.48	1.56	1.66	1.75	1.77	1.79	1.81	1.84	1.87	1.88	1.89	1.90	
	75°F (23.9°C)	TC	9.55	10.37	11.24	12.12	13.04	14.08	14.95	15.97	16.92	17.81	18.41	18.86	
		Input	1.52	1.60	1.71	1.80	1.83	1.85	1.87	1.89	1.93	1.93	1.95	1.94	
DMA24HIW21230S1 DMA24HOS21230S1	60°F (15.6°C)	TC	10.89	16.10	17.62	19.25	20.20	21.20	21.99	22.71	26.02	28.31	29.03	29.90	
		Input	2.15	2.23	2.35	2.43	2.53	2.57	2.65	2.72	2.76	2.78	2.81	2.83	
	65°F (18.3°C)	TC	10.58	15.57	17.11	18.74	19.58	20.57	21.24	22.11	25.17	27.52	28.27	29.11	
		Input	2.21	2.29	2.41	2.50	2.59	2.65	2.72	2.78	2.85	2.85	2.87	2.90	
	70°F (21.1°C)	TC	10.30	15.09	16.66	18.14	19.02	19.87	20.73	21.53	24.32	26.69	27.44	28.29	
		Input	2.26	2.35	2.48	2.58	2.66	2.73	2.79	2.85	2.93	2.93	2.95	2.99	
	75°F (23.9°C)	TC	9.84	14.50	15.93	17.40	18.34	19.00	19.88	20.56	23.25	25.76	26.34	27.16	
		Input	2.34	2.42	2.57	2.65	2.72	2.82	2.86	2.95	3.02	3.01	3.04	3.07	

DMA30HIW21230S1 DMA30HOS21230S1	60°F (15.6°C)	TC	14.28	16.86	18.49	20.94	22.38	23.59	25.24	26.69	30.16	33.95	34.61	35.69
		Input	2.49	2.62	2.53	2.59	2.60	2.63	2.63	2.63	2.63	2.84	3.01	3.07
	65°F (18.3°C)	TC	13.84	16.31	18.00	20.33	21.64	22.93	24.39	25.79	29.34	33.06	33.76	34.68
		Input	2.55	2.68	2.60	2.65	2.68	2.69	2.69	2.71	2.91	3.10	3.14	3.22
	70°F (21.1°C)	TC	13.45	15.80	17.56	19.71	21.07	22.33	23.63	24.99	28.43	32.00	32.81	33.60
		Input	2.61	2.75	2.68	2.72	2.75	2.76	2.77	2.79	2.99	3.16	3.24	3.32
	75°F (23.9°C)	TC	12.98	15.19	16.79	18.83	20.17	21.54	22.64	24.01	27.23	30.63	31.37	32.40
		Input	2.68	2.84	2.74	2.81	2.84	2.84	2.84	2.89	3.09	3.26	3.35	3.42
DMA36HIW21230S1 DMA36HOS21230S1	60°F (15.6°C)	TC	20.58	20.85	21.92	23.28	24.74	25.95	27.64	28.89	34.01	39.20	40.02	40.61
		Input	3.12	2.97	3.11	3.22	3.26	3.33	3.38	3.43	3.80	4.15	4.10	4.02
	65°F (18.3°C)	TC	19.90	20.14	21.37	22.60	24.02	25.17	26.73	28.13	32.92	38.13	38.82	39.24
		Input	3.21	3.06	3.19	3.32	3.36	3.41	3.47	3.51	3.88	4.25	4.19	4.11
	70°F (21.1°C)	TC	19.26	19.63	20.74	21.90	23.23	24.51	25.83	27.28	32.12	36.95	37.54	38.06
		Input	3.31	3.15	3.27	3.39	3.45	3.50	3.54	3.59	3.97	4.34	4.28	4.20
		TC	18.46	18.77	19.89	21.00	22.19	23.58	24.69	26.08	30.70	35.29	36.00	36.50
		Input	3.42	3.24	3.35	3.49	3.55	3.61	3.65	3.70	4.10	4.47	4.40	4.32

LEGEND: **DB** – Dry Bulb **TC** – Total Net Capacity (1,000 BTU/h) **Input** – Total Power (kW) **COP** – W/W