



1900 Wellworth Ave. • Jackson, MI 49203
517-787-2100

VMH LOW TEMPERATURE MULTI PERFORMANCE CHART

COOLING PERFORMANCE DATA

Cooling ambient (F): 5, 15, 25, 35, 45, 55, 65, 75,85,95,105,115,122

Model	Cooling		Outdoor conditions (DB)																		
	Indoor		-22F	-13F	-5F	-4F	0F	5F	15F	25F	35F	45F	55F	65F	75F	85F	95F	105F	115F	122F	
	DB	WB	(-30C)	(-25C)	(-20.6C)	(-20C)	(-17.8C)	(-15C)	(-9.4C)	(-3.9C)	(1.7C)	(7.2C)	(12.8C)	(18.3C)	(23.9C)	(29.4C)	(35C)	(40.6C)	(46.1C)	(50C)	
2 zone(18K) Non-Ducted (208-230V) A-VMH18DU-1	65F (18.3C)	54F	TC	19.25	19.15	19.06	18.96	18.87	18.77	18.68	18.59	18.49	17.95	17.40	16.79	16.17	15.49	14.74	13.99	13.31	12.69
		59F	SC	11.92	12.22	12.54	12.86	13.19	13.53	13.88	14.24	14.61	14.36	14.09	13.77	13.42	13.17	12.82	12.45	12.11	11.80
	70F (21.1C)	59F	TC	20.81	20.70	20.60	20.50	20.40	20.30	20.19	20.09	19.99	19.45	18.77	18.15	17.40	16.72	15.97	15.22	14.40	13.78
		63F	SC	11.74	12.04	12.36	12.67	13.00	13.34	13.68	14.03	14.40	14.00	13.70	13.43	13.22	12.87	12.46	12.17	11.81	11.58
	75F (23.9C)	63F	TC	22.23	22.12	22.01	21.90	21.79	21.68	21.57	21.47	21.36	20.68	19.99	19.31	18.56	17.81	17.06	16.17	15.42	14.74
		67F	SC	12.02	12.33	12.65	12.98	13.31	13.65	14.01	14.37	14.74	14.47	14.20	13.90	13.55	13.18	12.97	12.61	12.34	12.09
	80F (26.7C)	67F	TC	24.15	24.03	23.91	23.79	23.67	23.55	23.43	23.32	23.20	21.97	21.29	20.54	19.79	19.04	18.22	17.33	16.45	15.76
		54F	SC	12.49	12.81	13.14	13.48	13.83	14.19	14.55	14.93	15.31	14.72	14.48	14.17	13.85	13.71	13.30	13.00	12.66	12.45
3 zone(27K) Non-Ducted (208-230V) A-VMH28TU-1	65F (18.3C)	54F	TC	29.08	28.94	28.79	28.65	28.51	28.37	28.22	28.08	27.94	27.13	26.20	25.18	24.26	24.67	22.11	20.98	20.27	19.14
		59F	SC	18.69	19.17	19.67	20.17	20.69	21.23	21.78	22.34	22.91	22.51	22.01	21.40	21.11	15.05	20.12	19.51	17.63	18.38
	70F (21.1C)	59F	TC	31.43	31.27	31.11	30.96	30.80	30.65	30.50	30.35	30.20	29.17	28.25	27.84	26.20	26.92	23.95	22.83	21.60	20.68
		63F	SC	18.23	18.70	19.18	19.67	20.18	20.70	21.24	21.78	22.35	21.88	21.47	21.72	20.70	12.65	19.64	19.17	18.79	18.40
	75F (23.9C)	63F	TC	33.88	33.71	33.54	33.37	33.21	33.04	32.88	32.71	32.55	31.12	30.09	29.17	27.94	26.72	25.59	24.36	23.03	22.11
		67F	SC	19.12	19.61	20.11	20.63	21.17	21.71	22.27	22.85	23.44	22.72	22.27	23.05	21.24	20.84	20.47	19.98	19.35	19.01
	80F (26.7C)	67F	TC	37.07	36.89	36.70	36.52	36.34	36.16	35.98	35.80	35.62	33.16	32.04	33.78	29.79	28.56	27.33	26.00	24.67	23.65
		54F	SC	20.05	20.56	21.10	21.64	22.20	22.77	23.36	23.96	24.58	23.22	22.75	14.19	22.04	21.42	21.04	20.54	19.98	19.63
4 zone(36K) Non-Ducted (208-230V) A-VMH36QU-1	65F (18.3C)	54F	TC	38.35	38.16	37.97	37.78	37.59	37.41	37.22	37.03	36.85	35.62	34.39	33.16	31.80	30.57	30.85	28.25	26.34	24.84
		59F	SC	24.65	25.28	25.93	26.60	27.29	27.99	28.72	29.46	30.22	29.57	29.23	28.52	27.98	27.51	25.30	23.73	24.23	24.84
	70F (21.1C)	59F	TC	42.18	41.97	41.77	41.56	41.35	41.15	40.94	40.74	40.53	38.49	37.26	35.89	34.53	33.03	31.53	30.03	28.39	27.02
		63F	SC	24.80	25.44	26.09	26.77	27.46	28.16	28.89	29.64	30.40	29.25	28.69	28.00	27.28	26.75	26.17	25.52	24.98	24.32
	75F (23.9C)	63F	TC	46.30	46.07	45.84	45.62	45.39	45.16	44.94	44.71	44.49	41.08	39.72	38.21	36.85	35.21	33.57	31.94	30.30	28.93
		67F	SC	26.13	26.80	27.49	28.20	28.93	29.68	30.44	31.23	32.03	29.99	29.39	28.66	28.37	27.82	26.86	26.51	25.75	25.17
	80F (26.7C)	67F	TC	47.73	47.49	47.25	47.02	46.78	46.55	46.32	46.09	45.86	43.81	42.31	40.81	39.31	37.67	36.03	34.26	32.48	31.12
		54F	SC	25.81	26.48	27.16	27.86	28.58	29.32	30.07	30.85	31.64	30.67	30.04	29.79	29.09	28.63	28.10	27.41	26.64	26.45
5 zone(48K) Non-Ducted (208-230V) A-VMH48PU-1	65F (18.3C)	54F	TC		36.74	38.68	38.87	39.11	38.52	37.94	38.16	38.39	38.61	38.46	38.31	38.15	36.17	33.36	30.33	27.47	24.42
		59F	SC		25.72	27.08	27.21	27.38	26.97	26.56	27.10	27.65	28.19	30.21	32.24	34.26	33.91	32.69	30.33	27.47	24.42
	70F (21.1C)	59F	TC		39.94	42.04	42.25	42.51	41.87	41.24	41.48	41.73	41.97	41.80	41.64	41.47	39.32	36.26	32.97	29.86	26.54
		63F	SC		27.96	29.43	29.58	29.76	29.31	28.87	29.46	30.05	30.64	32.84	35.04	37.24	36.86	35.53	32.97	29.86	26.54
	75F (23.9C)	63F	TC		43.13	45.40	45.63	45.91	45.22	44.54	44.80	45.07	45.33	45.15	44.97	44.79	42.47	39.16	35.61	32.25	28.66
		67F	SC		31.49	33.14	33.31	33.51	33.01	32.51	33.31	34.10	34.90	35.66	36.41	37.17	36.10	34.07	32.05	32.25	28.66
	80F (26.7C)	67F	TC		51.18	53.87	54.14	54.68	54.58	55.15	55.67	56.20	56.72	57.90	59.08	60.26	56.82	53.16	40.95	38.57	35.24
		54F	SC		39.10	41.15	41.36	41.01	42.12	42.11	42.25	42.40	42.54	43.71	44.87	46.04	44.49	42.79	37.95	38.57	35.24

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



1900 Wellworth Ave. • Jackson, MI 49203
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Hyper Heat model
HEATING PERFORMANCE DATA

Heating ambient (F): -13, -5, 5, 17, 35, 47, 57

Model	Heating		Outdoor conditions (DB)														
	Indoor Conditions DB		-22F (-30C)	-13F (-25C)	-5F (-20.6C)	0F (-17.8C)	5F (-15C)	17F (-8.3C)	19.4F (-7C)	24.8F (-4C)	32F (0C)	35F (1.7C)	39.2F (4C)	44.6F (7C)	47F (8.3C)	53.6F (12C)	57F (13.9C)
2 zone(18K) Non-Ducted (208-230V) A-VMH18DU-1	60F (15.6C)	TC	10.02	12.22	14.90	16.38	19.04	22.14	16.52	17.39	18.31	19.27	20.29	21.36	22.48	23.15	23.85
	65F (18.3C)	Input	2.06	2.30	2.40	2.44	2.57	2.63	1.37	1.42	1.46	1.51	1.55	1.60	1.65	1.67	1.68
		TC	9.74	11.88	14.49	15.93	18.52	21.53	16.07	16.91	17.81	18.74	19.73	20.77	21.86	22.52	23.19
	70F (21.1C)	Input	2.11	2.34	2.45	2.49	2.63	2.69	1.46	1.50	1.55	1.60	1.65	1.70	1.75	1.77	1.79
		TC	9.55	11.65	14.21	15.52	18.08	20.77	15.50	16.32	17.17	18.08	19.03	20.03	21.09	21.72	22.37
	75F (23.9C)	Input	2.15	2.39	2.50	2.54	2.68	2.74	1.54	1.59	1.64	1.69	1.74	1.79	1.85	1.87	1.89
TC		9.04	11.03	13.45	14.78	17.19	19.99	14.92	15.70	16.53	17.40	18.31	19.28	20.29	20.90	21.53	
3 zone(27K) Non-Ducted (208-230V) A-VMH28TU-1	60F (15.6C)	TC	14.43	17.60	21.46	23.58	27.42	31.89	23.80	25.86	28.11	30.56	33.22	36.10	39.24	40.42	41.63
	65F (18.3C)	Input	3.20	3.37	3.55	3.74	3.93	4.14	2.47	2.61	2.74	2.89	3.04	3.20	3.37	3.40	3.43
		TC	14.15	17.25	21.04	23.12	26.88	31.26	23.33	25.36	27.56	29.96	32.56	35.40	38.47	39.63	40.82
	70F (21.1C)	Input	3.20	3.37	3.55	3.74	3.93	4.14	2.53	2.66	2.80	2.95	3.10	3.26	3.44	3.47	3.50
		TC	13.87	16.91	20.63	22.67	26.36	30.65	22.87	24.86	27.02	29.37	31.93	34.70	37.72	38.85	40.02
	75F (23.9C)	Input	3.20	3.37	3.55	3.74	3.93	4.14	2.55	2.69	2.83	2.98	3.13	3.30	3.47	3.50	3.54
TC		13.59	16.58	20.21	22.21	25.83	30.04	22.41	24.36	26.48	28.78	31.29	34.01	36.97	38.07	39.22	
4 zone(36K) Non-Ducted (208-230V) A-VMH36QU-1	60F (15.6C)	TC	19.26	23.49	28.64	31.47	36.60	42.55	31.76	34.52	37.52	40.78	44.33	48.18	52.37	53.94	55.56
	65F (18.3C)	Input	3.20	3.37	3.55	3.74	3.93	4.14	3.31	3.48	3.67	3.86	4.06	4.28	4.50	4.55	4.59
		TC	18.88	23.02	28.08	30.86	35.88	41.72	31.13	33.84	36.78	39.98	43.46	47.24	51.35	52.89	54.47
	70F (21.1C)	Input	3.20	3.37	3.55	3.74	3.93	4.14	3.38	3.55	3.74	3.94	4.15	4.36	4.59	4.64	4.69
		TC	18.51	22.57	27.53	30.25	35.18	40.90	30.52	33.18	36.06	39.20	42.61	46.31	50.34	51.85	53.41
	75F (23.9C)	Input	3.59	3.78	3.98	4.19	4.61	4.64	3.41	3.59	3.78	3.98	4.19	4.41	4.64	4.69	4.73
TC		18.14	22.12	26.98	29.65	34.47	40.08	29.91	32.51	35.34	38.42	41.76	45.39	49.33	50.81	52.34	
5 zone(48K) Non-Ducted (208-230V) A-VMH48PU-1	60F (15.6C)	TC	20.35	23.94	25.31	27.13	29.48	33.67	34.15	36.61	40.56	44.08	50.41	56.74	57.87	66.65	67.67
	65F (18.3C)	Input		4.15	4.26	4.26	4.28	4.30	4.32	4.48	4.06	4.28	4.32	4.36	4.40	4.34	4.41
		TC		23.58	24.93	26.72	29.04	33.16	33.64	36.06	39.95	43.42	49.66	55.89	57.01	65.65	66.65
	70F (21.1C)	Input		4.21	4.32	4.32	4.34	4.36	4.38	4.54	4.12	4.34	4.38	4.42	4.46	4.40	4.47
		TC		15.64	17.45	24.88	24.12	30.07	30.42	35.94	38.56	42.09	48.96	55.83	56.95	64.75	65.74
	75F (23.9C)	Input		3.56	3.66	4.70	3.94	4.16	4.19	4.58	4.43	4.63	4.67	4.71	4.76	4.96	5.04
TC			15.33	17.10	24.38	25.60	29.47	29.81	35.22	37.79	41.25	47.98	54.71	55.80	63.46	64.43	

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