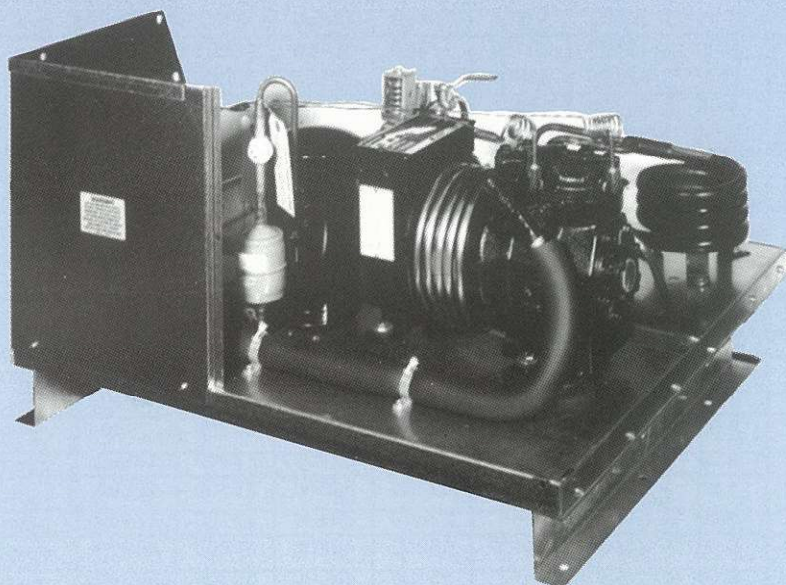


WATER COOLED CONDENSING UNITS 1/2 THROUGH 6 H.P.

Technical Bulletin 503.0

February 1995



The MW series of indoor water cooled condensing units are designed to be compact, yet easy to install and service. A full selection of standard and optional features are available in this series of condensing units. A choice of a high efficiency Discus, durable Semi-hermetic, or economical Hermetic compressors, using R-22 or R-404A refrigerant, are available to meet a variety of needs. These units are base mounted and are designed to fit through door openings. They are available in 230/1, 230/3 or 460/3. All models are UL listed.

Standard Features:

- Discus, Semi-hermetic reed, or Hermetic compressor
- Suction and discharge service valves (as required)
- Dual pressure control
- Oil failure control (as required)
- Compressor head cooling fan (as required)
- Large receiver with isolation valve(s)
- Coaxial water cooled condenser
- Large electrical control panel
- Compressor contactor and control circuit fusing
- UL listed.

Optional Features:

- Cleanable condenser
- Liquid line assembly (sight glass and filter)
- Suction line assembly (filter and vibration absorber)
- Discharge vibration absorber (standard on 3 to 6 HP)
- Defrost provisions
- Water regulating valve
- Two tier stacking rack



PERFORMANCE @ 105° F CONDENSING TEMPERATURE

COMP. TYPE	REF. TYPE	MODEL NUMBER	NOM. H.P.	CAPACITY (BTUH) AT SUCTION TEMPERATURE (°F)									
				40°	30°	25°	20°	10°	0°	-10°	-20°	-30°	-40°
HERMETIC	MED TEMP 404A	MWH050M44	0.50	----	----	6300	5500	4060	2950	2100	----	----	----
		MWH075M44	0.75	----	----	9000	8700	6790	5190	3770	1600	----	----
		MWH101M44	1.00	----	----	13320	11850	9230	6970	4980	3200	----	----
		MWH150M44	1.50	----	----	17440	15280	11500	8330	5640	----	----	----
		MWH201M44	2.00	----	----	25900	22990	17600	12730	8350	----	----	----
		MWH300M44	3.00	----	----	29380	25510	19120	14130	10050	----	----	----
		MWH400M44	4.00	----	43570	38580	33790	24930	17330	11300	7160	----	----
	MWH500M44	5.00	----	50840	44990	39640	30320	22580	16150	----	----	----	
	HIGH TEMP 22	MWH050H22	0.50	6380	5020	4430	3890	2960	2240	----	----	----	----
		MWH075H22	0.75	9790	7740	6830	5980	4460	3090	----	----	----	----
		MWH100H22	1.00	14220	11310	10020	8810	6600	4550	----	----	----	----
		MWH150H22	1.50	20200	15500	13400	11600	8330	5760	----	----	----	----
		MWH200H22	2.00	26100	20100	17500	15100	10900	7520	----	----	----	----
		MWH300H22	3.00	41200	32300	28300	24600	18300	----	----	----	----	----
MWH400H22		4.00	53700	42400	37300	31700	24600	17900	----	----	----	----	
MWH500H22	5.00	63800	51110	45400	40100	30500	21700	----	----	----	----		
SEMI-HERMETIC	MED TEMP 404A	MWS050M44	0.50	----	----	5300	4800	3700	2800	----	----	----	----
		MWS100M44	1.00	----	----	9900	9000	7200	5600	----	----	----	----
		MWS200M44	2.00	----	----	16400	14500	11600	9200	----	----	----	----
		MWS300M44	3.00	----	----	30000	26800	21100	16400	----	----	----	----
		MWS400M44	4.00	----	----	41500	36700	28400	21400	----	----	----	----
	HIGH TEMP 22	MWS050H22	0.50	6130	4840	4280	3770	2900	2210	----	----	----	----
		MWS075H22	0.75	9460	7430	6540	5720	4270	3050	----	----	----	----
		MWS100H22	1.00	12800	10270	9150	8130	6340	4890	----	----	----	----
		MWS150H22	1.50	16620	13330	11850	10480	8040	5950	----	----	----	----
		MWS200H22	2.00	22600	18200	16200	14400	11100	7880	----	----	----	----
		MWS300H22	3.00	36700	29400	26200	23200	17900	13600	----	----	----	----
		MWS400H22	4.00	56700	44400	39200	34300	25500	17800	----	----	----	----
		MWS400M22	4.00	----	----	22800	29400	23100	17400	----	----	----	----
	MWS500H22	5.00	64400	51400	45600	40200	30800	22900	----	----	----	----	
	MWS500M22	5.00	----	----	55100	49000	38300	29800	----	----	----	----	
	LOW TEMP 404A	MWS050L44	0.50	----	----	----	----	----	3600	2700	1900	1200	710
		MWS075L44	0.75	----	----	----	----	----	5800	4300	3100	2200	1390
		MWS100L44	1.00	----	----	----	----	----	7800	6000	4500	3200	2210
		MWS150L44	1.50	----	----	----	----	----	11400	8900	6700	4900	3550
		MWS200L44	2.00	----	----	----	----	----	15400	11800	8800	6300	4270
		MWS250L44	2.50	----	----	----	----	----	17900	13300	9600	6500	3840
MWS300L44		3.00	----	----	----	----	----	25600	18870	13550	9140	5670	
LOW TEMP 22	MWS050L22	0.50	----	----	----	----	----	3430	2480	1680	1030	536	
	MWS075L22	0.75	----	----	----	----	----	5430	4070	2960	2030	1270	
	MWS100L22	1.00	----	----	----	----	----	7200	5460	4000	2820	1920	
	MWS200L22	2.00	----	----	----	----	----	8350	6180	4500	3190	2130	
	MWS201L22	2.00	----	----	----	----	----	11800	8770	6260	4200	2540	
	MWS202L22	2.00	----	----	----	----	----	14800	12900	7800	5350	3800	
MWS300L22	3.00	----	----	----	----	----	23000	17200	12000	7960	5270		
DISCUS	404A	MWD500M44	5.00	77200	62600	56000	49800	39100	----	----	----	----	
	LOW TEMP 404A	MWD300L44	3.00	----	----	----	----	----	32800	25300	19000	13900	9570
		MWD400L44	4.00	----	----	----	----	----	39200	30400	23100	17000	11890
	MWD500L44	5.00	----	----	----	----	----	44300	34700	26600	19900	14090	
	22	MWD500H22	5.00	73400	58900	52500	46600	36000	----	----	----	----	
	LOW TEMP 22	MWD300L22	3.00	----	----	----	----	----	30200	22100	16000	11200	7180
MWD400L22		4.00	----	----	----	----	----	35400	26700	19300	13300	8660	
MWD500L22	5.00	----	----	----	----	----	41200	31000	22500	15600	10200		

ELECTRICAL DATA

COMP. TYPE	REF. TYPE	MODEL NUMBER	COMPR. MODEL	AMPS @ 230/1/60 *			AMPS @ 208/230/3/60			AMPS @ 460/3/60		
				COMPRESSOR		TOTAL	COMPRESSOR		TOTAL	COMPRESSOR		TOTAL
				RLA	LRA	UNIT**	RLA	LRA	UNIT**	RLA	LRA	UNIT**
HERMETIC	MED TEMP 404A	MWH050M44	RS43C1E	5.4	24.1	6.4	----	----	----	----	----	----
		MWH075M44	RS70C1E	7.0	34.2	8.0	4.7	31.0	5.7	----	----	----
		MWH101M44	RS97C1E	11.0	51.0	12.0	7.0	35.0	8.0	----	----	----
		MWH150M44	CS12K6E	10.9	56.0	11.9	7.5	51.0	8.5	----	----	----
		MWH201M44	CS18K6E	16.0	82.0	17.0	10.4	65.5	11.4	----	----	----
		MWH300M44	CS20K6E	18.0	96.0	19.0	11.4	75.0	12.4	----	----	----
	HIGH TEMP 22	MWH400M44	CS27K3E	23.9	95.4	24.9	15.3	82.0	16.3	----	----	----
		MWH500M44	CS33K3E	30.7	125.0	31.7	20.7	90.0	21.7	8.6	45.0	9.1
		MWH050H22	JRE-0050	5.4	24.1	6.4	----	----	----	----	----	----
		MWH075H22	RSE-0075	7.0	34.2	8.0	----	----	----	----	----	----
		MWH100H22	REK-0125	7.0	34.2	8.0	4.7	31.0	5.7	----	----	----
		MWH150H22	CRA-0150	10.8	48.0	11.8	9.3	58.0	10.3	----	----	----
		MWH200H22	CRD-0200	13.4	59.0	14.4	8.7	50.0	9.7	----	----	----
		MWH300H22	CRK-0325	23.9	95.4	24.9	15.3	82.0	16.3	7.7	41.0	8.2
SEMI-HERMETIC	MED TEMP 404A	M*S050M44	HAJ-005E	3.7	22.0	4.7	2.2	13.0	3.2	----	----	----
		M*S100M44	KAR-010E	7.4	40.0	8.4	4.3	27.0	5.3	----	----	----
		M*S200M44	KAK-020E	10.6	55.0	11.6	6.8	50.0	7.8	----	----	----
		M*S300M44	ERF-031E	----	----	----	12.4	82.0	13.4	5.8	41.0	6.3
	HIGH TEMP 22	M*S400M44	NRB-040E	----	----	----	21.8	141.0	22.8	----	----	----
		MWS050H22	HAG-0050	4.4	22.0	5.4	2.4	13.0	3.4	----	----	----
		MWS075H22	KAN-0075	6.1	36.0	7.1	3.5	19.9	4.5	----	----	----
		MWS100H22	KAR-0100	7.4	40.0	8.4	4.3	27.0	5.3	----	----	----
		MWS150H22	KAG-0150	9.6	55.0	10.6	5.5	35.5	6.5	----	----	----
		MWS200H22	KAK-0200	10.6	55.0	11.6	6.8	50.0	7.8	----	----	----
		MWS300H22	ERF-0310	17.0	86.0	*18.0	11.7	82.0	12.7	6.4	41.0	6.9
		MWS400H22	NRB-0400	----	----	----	21.8	141.0	22.8	11.3	62.5	11.8
	LOW TEMP 404A	MWS400M22	3RA-0311	17.8	86.0	*18.8	13.1	82.0	14.1	6.3	41.0	6.8
		MWS500H22	NRA-0500	----	----	----	19.2	141.0	20.2	9.6	62.5	10.1
MWS500M22		NRM-0500	----	----	----	24.3	141.0	25.3	12.1	62.5	12.6	
MWS050L44		KAN-005E	3.6	24.0	4.6	2.2	13.2	3.2	----	----	----	
MWS075L44		KAM-007E	5.6	36.0	6.6	3.2	19.9	4.2	----	----	----	
MWS100L44		KAJ-010E	6.9	40.0	7.9	4.5	27.0	5.5	----	----	----	
LOW TEMP 22	MWS150L44	KAL-015E	9.9	55.0	10.9	6.6	50.0	7.6	----	----	----	
	MWS200L44	EAV-020E	14.7	102.0	15.7	7.4	50.0	8.4	----	----	----	
	MSW250L44	3AB-031E	----	----	----	14.2	82.0	15.2	----	----	----	
	MWS300L44	LAH-032E	16.7	105.0	*17.7	12.8	112.0	13.8	8.6	45.0	9.1	
	MWS050L22	KAN-0050	3.6	24.0	4.6	----	----	----	----	----	----	
	MWS075L22	KAM-0075	5.6	36.0	6.6	3.2	19.9	4.2	----	----	----	
DISCUS	404A	MWD500M44	2DD-0500	----	----	----	22.3	120.0	23.3	10.5	60.0	11.0
		MWD300L44	2DF-030E	----	----	----	16.8	102.0	17.8	8.1	52.0	8.6
		MWD400L44	2DL-040E	----	----	----	26.3	161.0	27.3	10.2	60.0	10.7
		MWD500L44	2DA-0600	----	----	----	28.8	161.0	29.8	10.2	60.0	10.7
DISCUS	22	MWD500H22	2DD-0500	----	----	----	22.3	120.0	23.3	10.5	60.0	11.0
		MWD300L22	2DF-0300	----	----	----	16.8	102.0	17.8	8.1	52.0	8.6
		MWD400L22	2DL-0400	----	----	----	26.3	161.0	27.3	10.2	60.0	10.7
		MWD500L22	2DA-0600	----	----	----	28.8	161.0	29.8	10.2	60.0	10.7

** Models are only available for 230/1 V. applications.

*** Total Unit Amps includes approximate allowance for control circuit as follows: 1.0A - 208/230V; 0.5A - 460V.

PHYSICAL DATA

MODEL NUMBER	RECVR. CAP. @ 90%	CONNECTIONS (IN)			SHIP WT. (lbs.)
		LIQ. ODS	SUCT. ODS	WATER ODS	

SEMI-HERMETIC COMPRESSOR

MWS050M44	5.1	3/8	5/8	1/2	150
MWS100M44	5.1	3/8	5/8	1/2	170
MWS200M44	8.6	3/8	7/8	5/8	240
MWS300M44	16.8	1/2	1-1/8	7/8	430
MWS400M44	24.3	1/2	1-1/8	7/8	500
MWS050H22	6.0	3/8	5/8	1/2	150
MWS075H22	6.0	3/8	5/8	1/2	160
MWS100H22	6.0	3/8	5/8	1/2	170
MWS150H22	10.0	3/8	7/8	5/8	200
MWS200H22	10.0	3/8	7/8	5/8	240
MWS300H22	19.6	1/2	1-1/8	7/8	430
MWS400H22	28.2	1/2	1-1/8	7/8	500
MWS400M22	28.2	1/2	1-1/8	7/8	500
MWS500H22	28.2	1/2	1-1/8	7/8	520
MWS500M22	28.2	1/2	1-1/8	7/8	520
MWS050L44	28.2	3/8	5/8	1/2	150
MWS075L44	28.2	3/8	5/8	1/2	160
MWS100L44	28.2	3/8	5/8	1/2	170
MWS150L44	8.6	3/8	7/8	1/2	200
MWS200L44	8.6	3/8	7/8	1/2	240
MWS250L44	15.0	1/2	1-1/8	5/8	400
MWS300L44	15.0	1/2	1-1/8	5/8	430
MWS050L22	6.0	3/8	5/8	1/2	150
MWS075L22	6.0	3/8	5/8	1/2	160
MWS100L22	6.0	3/8	5/8	1/2	170
MWS200L22	10.0	3/8	7/8	1/2	240
MWS201L22	10.0	3/8	7/8	1/2	240
MWS202L22	10.0	3/8	7/8	1/2	240
MWS300L22	17.4	1/2	1-1/8	5/8	430

MODEL NUMBER	RECVR. CAP. @ 90%	CONNECTIONS (IN)			SHIP WT. (lbs.)
		LIQ. ODS	SUCT. ODS	WATER ODS	

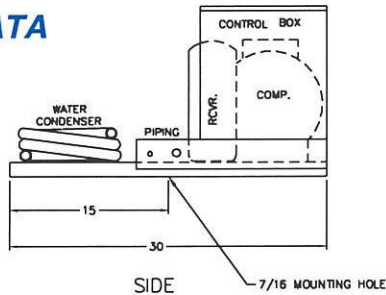
HERMETIC COMPRESSOR

MWH050M44	5.2	3/8	5/8	1/2	105
MWH075M44	5.2	3/8	5/8	1/2	110
MWH101M44	5.2	3/8	5/8	1/2	115
MWH150M44	8.6	3/8	7/8	1/2	140
MWH201M44	8.6	3/8	7/8	5/8	160
MWH300M44	17.4	1/2	1-1/8	7/8	330
MWH400M44	21.6	1/2	1-1/8	7/8	340
MWH500M44	21.6	1/2	1-1/8	7/8	360
MWH050H22	6.0	3/8	5/8	1/2	105
MWH075H22	6.0	3/8	5/8	1/2	110
MWH100H22	6.0	3/8	5/8	1/2	115
MWH150H22	10.0	3/8	7/8	5/8	170
MWH200H22	10.0	3/8	7/8	5/8	190
MWH300H22	17.4	1/2	7/8	7/8	330
MWH400H22	25.1	1/2	7/8	7/8	340
MWH500H22	25.1	1/2	7/8	7/8	360

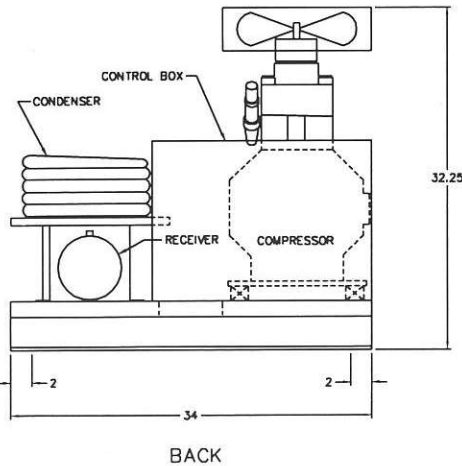
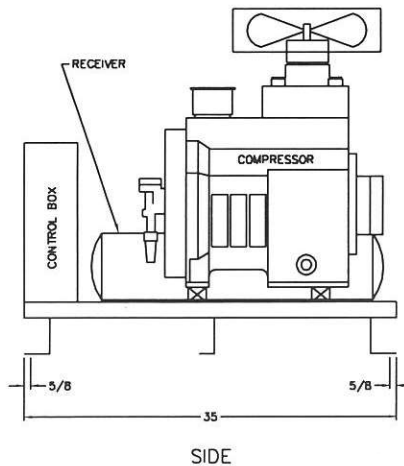
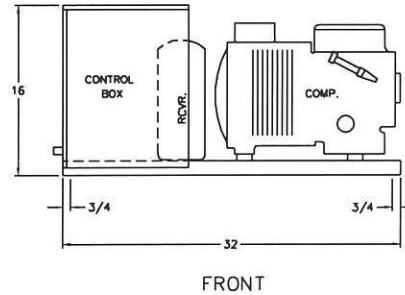
DISCUS COMPRESSOR

MWD500M44	25.1	1/2	1-1/8	7/8	540
MWD300L44	15.0	1/2	1-1/8	7/8	510
MWD400L44	21.6	1/2	1-1/8	7/8	525
MWD500L44	21.6	1/2	1-1/8	7/8	540
MWD500H22	25.1	1/2	1-1/8	7/8	540
MWD300L22	17.4	1/2	1-1/8	3/4	510
MWD400L22	25.1	1/2	1-1/8	7/8	525
MWD500L22	25.1	1/2	1-1/8	7/8	540

DIMENSIONAL DATA



1/2 through 2 H.P.



3 through 6 H.P.