

M&M
REFRIGERATION

Total solutions through
effective technology

SCREW

compressor packages





H-Series Compressor



D-Series Compressor

STANDARD PACKAGE DESIGN

All M&M screw compressor packages are designed for a wide range of industrial refrigeration purposes to ensure maximum reliability and efficiency, operational safety, trouble-free operation and easy maintenance. Standard screw compressor packages include the following common main features:

- Highly effective three-stage oil separator with coalescing filter elements; oil separators constructed according to current ASME codes, and furnished with access manway, sight glasses for oil level inspection, electrical heating element, dual relief valves, and oil drain valves
- Liquid injection oil cooling including stop valve, strainer, solenoid valve, motorized expansion valve
- Suction strainer
- Suction and discharge check valves
- 15 micron oil filter
- High quality flexible coupling and OSHA-approved coupling guard
- Stepless capacity control
- M&M Microprocessor Control Panel

AVAILABLE PACKAGE OPTIONS

- Compressor motor; open drip proof is standard, other enclosures available
- Compressor motor starters: solid state, variable frequency drive, auto-transformer, wye-delta, or across-the-line; many enclosures and voltages available
- Oil cooling options: thermosyphon and water-cooled
- Single stage compressor package with factory installed DX economizer
- Economizer port valve station for flash economizer systems
- Dual oil filters
- Suction and discharge stop valves
- Dual compressor packages

In addition, M&M screw compressors can be provided with other refrigeration system components such as evaporators, condensers, and pressure vessels in a factory-assembled, pre-piped and pre-wired package.

ADDITIONAL PACKAGES

- M-Series (Mycom)

H-Series Compressor

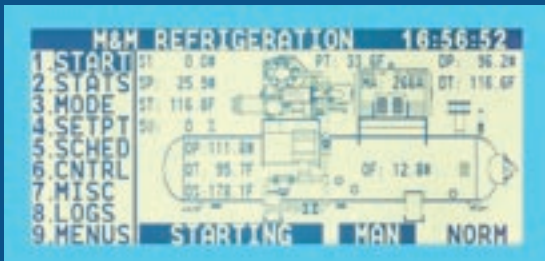
M&M Model	Swept Vol. (CFM) at 3550 RPM	Booster Ratings R717 -40°/+20°F		High Stage Ratings R717 +20°/+95°F		Economized Ratings R717 -40°/+95°F		Approximate Dimensions L x W x H	Approximate Weight Without Motor (Lbs)	Suction Connection	Discharge Connection
		TR	BHP	TR	BHP	TR	BHP				
H24	207	18	22	67	76	17	60	102" x 48" x 65"	2000	2"	2"
H28	280	25	31	93	104	24	82	102" x 48" x 65"	2000	3"	2"
H33	345	31	38	116	130	30	102	120" x 44" x 70"	3000	3"	2½"
H38	390	36	44	136	145	35	105	120" x 48" x 82"	3850	5"	2½"
H42	420	38	45	143	156	38	121	120" x 48" x 77"	3650	5"	2½"
H48	480	44	56	169	176	44	128	127" x 50" x 84"	3900	5"	3"
H51	500	45	53	172	187	46	145	127" x 51" x 75"	3700	6"	3"
H57	573	53	64	201	225	56	172	140" x 55" x 87"	4550	6"	3"
H58	575	55	69	207	230	53	160	140" x 55" x 98"	5000	6"	3"
H73	756	74	82	278	287	78	219	140" x 55" x 90"	4700	6"	4"
H74	775	74	93	281	310	73	219	140" x 55" x 98"	5400	8"	4"
H85	860	81	93	307	327	86	249	140" x 55" x 92"	4850	6"	4"
H86	860	82	99	311	330	81	235	140" x 55" x 98"	5600	8"	4"
H96	950	92	111	349	372	95	272	140" x 60" x 100"	5700	8"	4"
H97	952	90	102	340	356	95	278	140" x 60" x 94"	5000	6"	4"
H112	1120	108	129	410	437	106	318	140" x 60" x 104"	6300	8"	5"
H131	1240	122	145	461	489	126	358	144" x 63" x 113"	7000	8"	5"
H146	1520	147	182	557	613	146	451	144" x 63" x 116"	7250	10"	5"
H168	1690	162	193	615	652	162	481	177" x 70" x 120"	10000	10"	6"
H193	1855	182	217	691	732	189	533	177" x 70" x 122"	10250	10"	6"
H221	2255	216	261	817	879	218	652	177" x 70" x 122"	10550	10"	6"
H267	2705	261	325	988	1112	263	807	228" x 75" x 135"	16500	10"	8"
H335	3380	326	402	1237	1377	328	1013	228" x 75" x 135"	17250	12"	8"
H375	3715	367	451	1390	1543	383	1125	228" x 80" x 150"	20500	12"	8"
H451	4510	434	531	1644	1807	438	1406	228" x 80" x 150"	21250	14"	10"

Ratings are based on water cooled or thermosyphon oil cooling, saturated suction temperature °F, with 10°F liquid subcooling from condenser. Booster ratings with liquid cooling to intermediate temperature. Economizer is flash type. Dimensions and weights are based on R717 high stage with thermosyphon oil cooling. All ratings are at 3550 RPM.

D-Series Compressor

M&M Model	Swept Vol. (CFM) at 3550 RPM	Booster Ratings R717 -40°/+20°F		High Stage Ratings R717 +20°/+95°F		Economized Ratings R717 -40°/+95°F		Approximate Dimensions L x W x H	Approximate Weight Without Motor (Lbs)	Suction Connection	Discharge Connection
		TR	BHP	TR	BHP	TR	BHP				
D27	278	23	33	99	110	22	76	102" x 48" x 65"	2350	4"	2"
D39	398	32	47	144	158	31	107	120" x 48" x 77"	3875	4"	2½"
D53	544	51	66	204	217	51	149	140" x 55" x 87"	4450	5"	3"
D75	775	74	95	293	312	74	213	140" x 55" x 90"	4700	5"	4"
D93	932	90	114	353	375	91	257	140" x 60" x 94"	5000	5"	4"
D103	1061	96	126	392	428	94	292	140" x 60" x 100"	5700	8"	4"
D126	1265	116	150	469	510	115	349	144" x 63" x 113"	6450	8"	5"
D151	1516	142	180	566	612	141	418	144" x 63" x 113"	6600	8"	5"
D163	1668	157	199	626	674	158	451	177" x 70" x 120"	9500	8"	6"
D192	1911	182	228	721	772	184	528	177" x 70" x 120"	9650	8"	6"
D223	2263	217	270	854	916	221	632	177" x 70" x 120"	9900	8"	6"

Ratings are based on water cooled or thermosyphon oil cooling, saturated suction temperature °F, with 10°F liquid subcooling from condenser. Booster ratings with liquid cooling to intermediate temperature. Economizer is flash type. Dimensions and weights are based on R717 high stage with thermosyphon oil cooling. All ratings are at 3550 RPM.



MORE ADVANCED COMPRESSOR AND SYSTEM CONTROL CAPABILITY

M&M is widely recognized as the industry leader in microprocessor control of screw compressors and refrigeration systems. Now we've made the best compressor microprocessor control panel even better:

- Back-lighted display
- Real-time, animated graphic
- "At A Glance" technology alerts the user of problems by automatically displaying the active alarms/failures screen
- Increased ramp start features based on discharge pressure, motor amps and capacity allow for greater compressor control
- Comprehensive set of energy management features such as extensive setpoints, scheduling, ramp start and powerfail restart dramatically reduces operating cost
- Built-in open communications protocols include Allen Bradley DF1 and Mod Bus RT4
- Additional analog and digital channels are available to control sequencers, condensers, evaporators and more directly from the compressor panel; no additional panels or PC are required

STANDARD M&M COMPRESSOR CONTROL FEATURES

- Four suction pressure set points
- Eight set point changes per day
- Seven different daily schedules
- Operation log records all operating parameters every 30 seconds for the previous two hours
- Trend log provides 255 sets of the same operating parameters at an operator-selected interval
- Alarm & failure logs display the last 100 messages, irrespective of time of occurrence
- User logs display the last 50 user logins
- Password security system: up to 10 users, with flexible levels of security assigned to each compressor function
- Ramp loading for smooth start-up and loading of the compressor
- Energy consumption data: instantaneous motor kW, demand kW, daily kWh, previous day kWh
- Over 130 status, menu selections and data entry screens
- Over 60 available alarm and failure messages



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