



oil-sealed liquid ring vacuum pump systems
for coal-bed methane gas recovery



MTH0103K



for coal-bed methane gas recovery

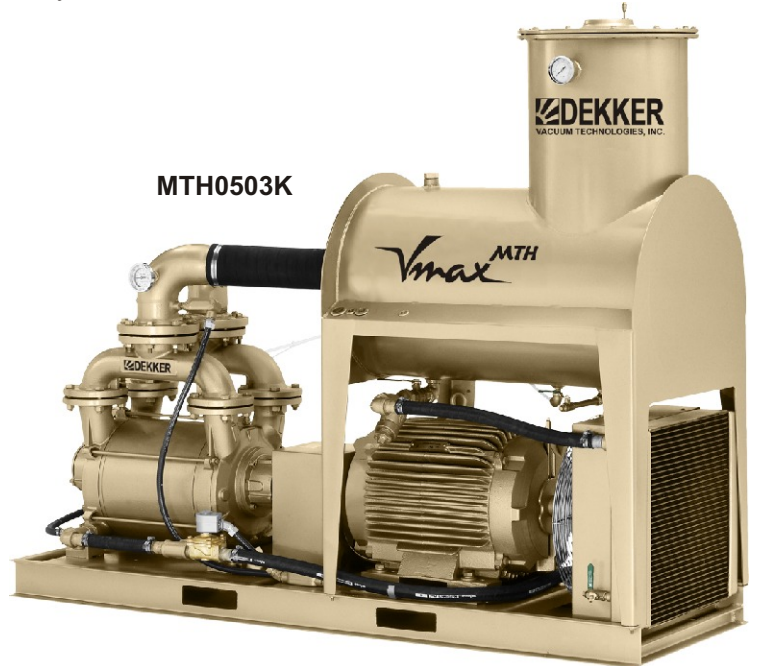
The **Vmax** systems offered by DEKKER Vacuum Technologies, Inc. were originally designed by Dekker in the 1970's. Dekker was also responsible for introducing the oil-sealed concept onto the American market in the early 1980's. The **Vmax^{MTH}** systems are air-cooled (no cooling-water required) and are particularly suitable to operate as a vacuum compressor that will not overheat. Maximum differential pressure capability is 18 - 30 psi depending on system model. These systems have a proven track record in the coal-bed methane gas recovery industry.



design benefits

- ✓ Vacuum pump/compressor that will not overheat
- ✓ High-efficiency DX-5 gas/oil separator
- ✓ Capable of handling moisture carry-over
- ✓ Internal tolerances eliminate lock-up potential
- ✓ Discharge temperature below 180°F
- ✓ Special seal-fluid provides long change interval.
- ✓ Cylindrical separator tank eliminates leaks

MTH0503K



Performance characteristics Vmax^{MTH} methane gas recovery systems					
System model number	Mega Standard Cubic Feet per Day (MSCFD)	Maximum motor (HP)	Maximum pump speed (RPM)	Oil capacity (approx.) (GAL)	Weight (approx.) (Lbs)
MTH0103K	120	10	1750	5	775
MTH0153K	140	15	1750	5	875
MTH0203K	200	20	1750	12	1100
MTH0303P	300	25	1750	12	1250
MTH0403K	375	40	1750	17	1750
MTH0503K	550	50	1750	17	1850
MTH0753K	700	75	1200	30	3700
MTH1203K	1000	100	1200	35	4000
MTH1703K	1500	150	920	CF	CF
MTH2303K	2000	200	740	CF	CF

CF = contact factory



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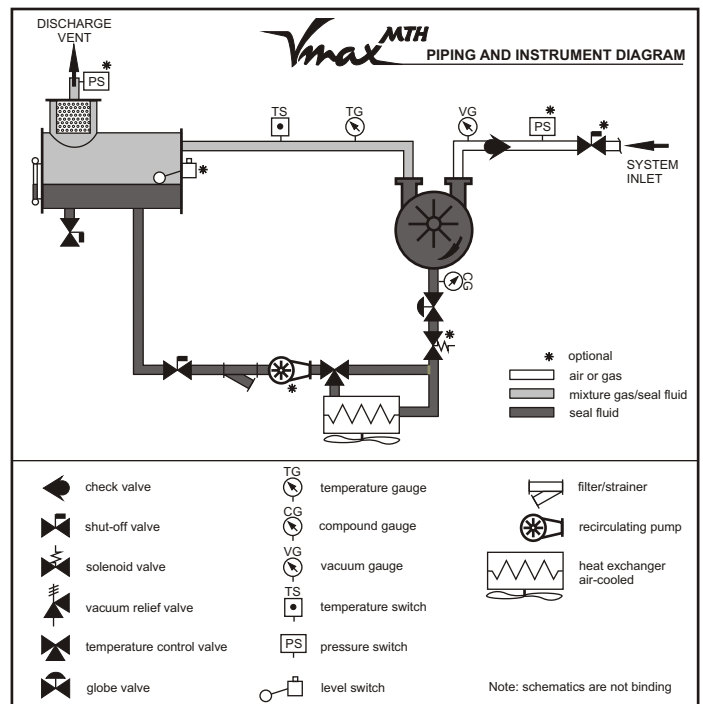


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The **Vmax^{MTH}** system offered by DEKKER Vacuum Technologies, Inc. is the result of years of experience in the design, manufacture, operation and application of the oil-sealed liquid ring vacuum pump system concept. Following are some of the advantages.

- ✓ All **Vmax** systems feature our high-efficiency **TiTan** liquid ring vacuum pumps/compressors manufactured to ISO9001 quality control standards. Systems are air-cooled, requiring no cooling-water.
- ✓ The DEKKER patented **DX-5 and DX-7 air/oil separator** designs feature five stages of separation, resulting in the best air/oil separation in the industry.
- ✓ Another advantage of the DX-5 and DX-7 separators is the structural design. The tank is cylindrical, resulting in superior strength, which is very important on units operating as a compressor. This design eliminates possible leaks associated with square tanks.
- ✓ Potential leak joints in the oil-circuit have been virtually eliminated with the use of AeroquipTM MatchMate PlusTM dual wall, synthetic rubber, metal braid reinforced hose, connected to system components with AeroquipTM crimp-on fittings. The use of hose increases system life by eliminating stress on system components associated with hard-pipe systems.
- ✓ Units up to 50 HP are direct driven with heavy-duty permanently sealed bearings, eliminating periodic greasing. Internal tolerances on all units are generous, eliminating lock-up potential. Special extended-life seal-fluid is not used as a bearing lubricant, which provides a long (10,000 hour) change interval.
- ✓ TEFC motor and Nema 4 safety devices are standard. Optional explosion proof motor and Nema 7 safety devices are available.
- ✓ The **Vmax^{MTH}** systems have the ability to pass moisture without damage to the vacuum pump/compressor. Discharge temperature is below 180°F throughout the operating range.



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