



Watercooled Rotary Air & Gas Compressors And Vacuum Pumps

The MD series consists of four watercooled machines designed for continuous running at higher duties than the aircooled L range. Suitable for air or non corrosive dry gas applications. The shaft is mounted on a heavy roller bearings at the drive end and is axially located at the rear end by a deep groove ball bearing. Ample waterjackets are cast into the cylinder and coverplates to give cool running and the cylinder is bored to a fine finish to ensure long vane life, and low noise levels. The simple design of the rotary vane compressor with few moving parts ensures operational reliability, low noise levels and minimal maintenance.

Rugged construction coupled with many years of development ensures long life and high efficiency for these compressors that are available as bareshaft or complete packaged units.

MD72 - 270

Vacuum Pump:

Liquid Waste Tankers
Timber Treatment

Air/Gas Compressors:

Aeration
Burners
Crop Spraying

- Optional mechanical shaft seals are available for gas compressors
- Special tools are not required to replace or inspect the vanes for wear
- Cylinders, coverplates and rotors are manufactured in Ductile Iron
- The sliding vanes are manufactured from a Kevlar based material having excellent wearing properties



Dimensions & Performances

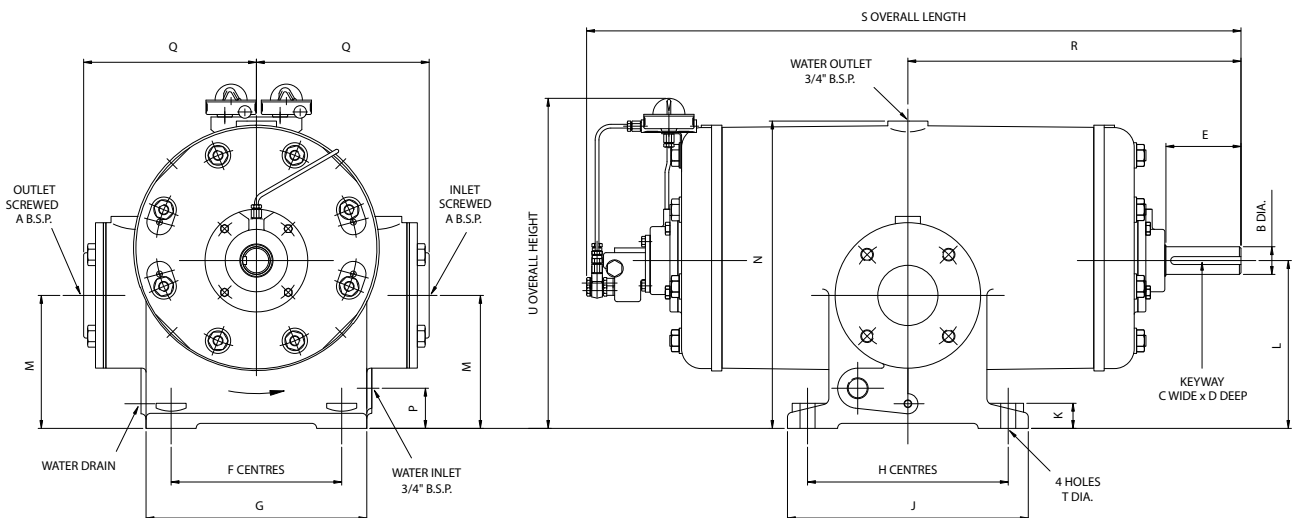
PERFORMANCE - Compressors (F.A.D. And Power)

PRESSURE		MODEL	MD 72			MD 124			MD 220			MD 270		
PSIG	BAR	RPM	1200	1400	1600	1200	1400	1600	800	1000	1200	1000	1200	1300
25	1.7	cfm	38	48	58	71	88	106	126	172	217	215	272	295
		m ³ /hr	64.5	81.5	98.5	120.5	149.4	180	214	292	368	365	462	500
		kW	5.6	6.6	7.5	8.1	9.4	10.8	14.3	17.9	21.5	21.0	25.2	27.4
30	2.1	cfm	35.5	45.5	55.5	68	85	103	121	167	212	209	266	288
		m ³ /hr	60.3	77.3	94.2	115.5	144.3	174.9	205	284	360	355	452	488
		kW	6.0	6.9	7.9	9.0	10.5	12.0	16.2	20.2	24.2	24.1	28.9	31.4
35	2.4	cfm	33	43	53	65	82	100	117	163	208	204	261	282
		m ³ /hr	56	73	90	110.3	139.2	169.8	199	277	353	346	443	477
		kW	6.3	7.2	8.3	10.0	11.6	13.3	18.0	22.5	27.1	26.8	32.2	35.0
40	2.8	cfm	30.5	40.5	50.5	62	79	97	112	158	203	198	255	276
		m ³ /hr	51.8	68.7	85.7	105.3	134.1	164.7	190	268	345	336	433	467
		kW	6.6	7.6	8.7	10.9	12.7	14.5	19.6	24.5	29.4	29.5	35.4	38.5

PERFORMANCE - Vacuum Pumps (Capacity And Power)

VACUUM		MODEL	MD 72			MD 124			MD 220			MD 270		
"Hg	mmHg	RPM	1200	1400	1600	1200	1400	1600	800	1000	1200	1000	1200	1300
15	381	cfm	54	61.5	70	87	102	116	154	193	231	239	286	312
		m ³ /hr	92	104	119	148	173	197	260	327	392	405	485	529
		kW	2.5	2.9	3.4	4.0	4.6	5.4	6.9	8.5	10.2	8.4	10.5	11.5
20	510	cfm	52.3	60	68.4	81	96.2	110	144	182	218	224	270	298
		m ³ /hr	89	102	116	137	163	186	244	309	370	380	458	505
		kW	2.6	3.0	3.5	4.1	4.7	4.7	7.0	8.6	10.3	8.5	10.6	11.6
25	635	cfm	47	55	62.2	65.5	81	93.5	120	150	180	186	225	249
		m ³ /hr	80	93	105	111	137	158	204	254	305	315	381	422
		kW	2.6	3.0	3.5	4.1	4.7	4.7	7.1	8.7	10.4	8.6	10.7	11.7
27.5	699	cfm	36.5	42	47.5	37	49	61	66	81	96	143	166	176
		m ³ /hr	62	71	81	63	83	103	112	137	163	242	281	298
		kW	2.6	3.0	3.5	4.1	4.7	4.7	7.1	8.7	10.4	8.6	10.7	11.7

Note: All units are factory tested. Volumes listed are based on standard conditions measured on AIR at sea level, 14.7 psia (1 bara) and 60°F (16°C). Actual volumes will vary with changes in elevation, inlet pressure and ambient temperature.



MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U	Kgs
MD72	2"	31.75	7.9	3.9	84	190	228	140	178	25	195	149	333	41	190	190	249	482	14	378	82
MD124		31.73															313	609			104
MD220	3"	35.02	10	5	95	216	216	254	305	32	215	168	389	51	219	219	422	828	19	418	194
MD270		35.00															212	187			

Whilst the details contained in this leaflet are representative of the machines, the actual products may differ from the illustrations due to improvements in design. Certified copies and performance curves will be supplied on request.