



Manufacturers
Representative For:



MARSHALL ENGINEERED PRODUCTS CO.



25-70 Ulmer St., College Point, NY 11354 • Phone 718-886-4232 • Fax 718-886-4301

SYSTEM VACUUM COST SAVINGS ANALYSIS

VALVE POSITION	OUTDOOR TEMP.	STEAM PRESSURE	STEAM TEMP.	SPECIFIC VOLUME	LATENT HEAT	LBS. STEAM
100%	0 F	2 PSI	219.5 F	23.36	956.6	1
83.34%	10 F	0 PSI	212.0 F	26.8	970.3	0.871
66.68%	20 F	10" MERC	192.5 F	38.94	982.5	0.600
50.00%	30 F	15" MERC	179 F	51.29	990.8	0.455
33.36%	40 F	20" MERC	162 F	73.92	1001.1	0.316
16.7%	50 F	25" MERC	133 F	145.98	1016.2	0.160
0%	60 F	-----	-----	-----	-----	-----

PRESS	O.D. TEMP	TERM. UNIT	BTU AVAIL	BTU AVAIL VARI-VAC	BTU REQ'D	SAVINGS VARI-VAC -VS- VAC RETURN	LBS. STEAM REQ'D	SAVINGS VARI-VAC -VS- ATMOS. RETURN	EXCESS BTU
2 PSI	0 F	FULL	965.6 AR	955.6	955.6	0	1	0	-----
0 PSI	10 F	FULL	804.73 AR	804.73	804.73	0	.8293 AR	0	-----
10" MERC	20 F	FULL	589.5 VR	643.86	643.86	0	.6553 VR	25.14%	161.87
15" MERC	30 F	FULL	589.5 VV	482.99	482.99	22.05%	.4875 VV	66.60%	321.74
20" MERC	40 F	FULL	589.5 VV	322.12	322.12	83.00%	.3218 VV	150%	482.61
25" MERC	50 F	FULL	589.5 VV	161.26	161.26	265.50%	.1584 VV	399%	643.4

AR=ATMOSHERIC RETURN VR=VACUUM RETURN VV=VARI-VAC SAVINGS