

Manhole Chimney Leakage Capacities and Cost

Size of leak opening	1/16"	1/8"	1/4"	1/2"	3/4"	1"
Gallons/minute @ 1 P.S.I. (2.31 ft/head)	0.037	0.148	0.591	2.36	5.31	9.45
GPM- crack around entire 27" manhole	3	13	50	200	450	801
GPD crack around entire 27" manhole	4,517	18,068	72,151	288,116	648,262	1,153,686
Total Gallons for Yearly average of 100 rain days- crack around entire 27" manhole	451,708	1,806,831	7,215,117	28,811,635	64,826,179	115,368,624
Yearly Treatment Cost per 1000 gallons*	\$1,355	\$5,420	\$21,645	\$86,435	\$194,479	\$346,106

*Yearly Treatment Cost per 1000 gallons

\$3.00

Notes:

Enter your treatment cost per 1000 gallons in cell C13

Data extrapolated from The Gorman-Rupp Company, Engineering Data, June 1999 edition

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