



Vacuum Plumbing Systems

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Estimated Water Savings Using Vacuum Flush Toilets

Ex. Correctional Facility – 500 inmates, 275 cells

- Estimated water and sewage process savings of approximately 4,800,000 gal/year

WC Water use calculations using conventional low flush fixtures

500 inmates x 24 flushes/day x 1.6 gal/flush = 19,200 gallons per day

Total annual water demand = 19,200 gal/day x 365; approximately 7,000,000 gal/year.

WC Water use calculations using vacuum flush fixtures

500 inmates x 24 flushes/day x .5 gal/flush = 6,000 gallons per day

Total annual water demand = 6,000 gal/day x 365; approximately 2,190,000 gal/year.