



Return on Investment Examples by Location

EcoDenser usage assumptions per hood (based on chemical experiments utilizing a heat exchanger)

Gallons per Minute:	2
Gallons/Hour:	120
Hours per Day:	4
Days per Week:	5
Weeks per Year:	52
Gallons per Year:	124800
HCF per Year:	166.8449

Note:
 Usage is measured in 100 cubic feet units (HCF units). 1 HCF = 748 gallons.
 Cost and savings estimates represent one lab hood.
 HCF rates are derived from each city utility web site (below).

Estimated savings with a new lab hood installation (versus retrofitting an existing hood)

Elimination of:
 Drop-in sink: (\$35.00)
 Goose Neck faucet: (\$215.00)
 Fee to plumb water lines to hood: (\$1500.00)
 Fee to plumb drain: (~~\$1500.00~~)
 Total cost eliminated: \$3,325.00

Note that the **estimated** cost to hook up (2) lines from the EcoDenser to the chilled water main is \$1500. Subtracting this from the **estimated** cost elimination of (\$3,325.00), the adjusted cost elimination for a new install (including labor savings) is **\$1825.00**.

Savings Generated Through Reduced Water and Sewer Usage

Location	HCF Used	HCF Rate (Water)	HCF Exp. (Water)	HCF Rate (Sewer)	HCF Exp. (Sewer)	Total Savings/Yr.	New Install HW		
							w/Labor Savings (One-time)	Total 1st Year Savings	2nd Year + Savings
Los Angeles	166.8449	\$4.80	\$800.86	\$4.51	\$752.47	\$1,553.33	\$1,825.00	\$3,378.33	\$1,553.33
Tucson	166.8449	\$3.37	\$562.27	\$3.63	\$605.65	\$1,167.91	\$1,825.00	\$2,992.91	\$1,167.91
Boston	166.8449	\$4.92	\$820.88	\$6.94	\$1,157.90	\$1,978.78	\$1,825.00	\$3,803.78	\$1,978.78
Naperville	166.8449	\$1.31	\$218.57	\$1.85	\$308.66	\$527.23	\$1,825.00	\$2,352.23	\$527.23
Lawrence	166.8449	\$2.75	\$458.82	\$4.65	\$775.83	\$1,234.65	\$1,825.00	\$3,059.65	\$1,234.65
Minneapolis	166.8449	\$3.53	\$588.96	\$3.68	\$613.99	\$1,202.95	\$1,825.00	\$3,027.95	\$1,202.95
Atlanta	166.8449	\$6.16	\$1,027.76	\$15.69	\$2,617.80	\$3,645.56	\$1,825.00	\$5,470.56	\$3,645.56