

Global Client Success Stories



MHD Units



Easy to Install

Installation

INVESTMENT:
(One Time)

RETURN:
(Ongoing Annual)

1978: Miami International Airport installs an MHD unit on a 300 ton air conditioning unit for calcium carbonate scale control.	\$12,000	\$12,379 (Year 1 ROI: 103%)
1980: U.S. Department of Energy approves MHD units for all geo-thermal applications at their testing facility in East Mesa California.	Tested	Approved
Japan Department of Energy verified U.S. DOE results in a 10 year study of their own, in which absolutely no downtime was reported. Over 4,000 MHD Water Units have been sold and installed in Japan.	Tested	Approved
1986: Three U.S. major metropolitan hospitals saved money with MHD units to control scale. In addition they realized up to 20% annual energy savings through scale control.	\$24,000	\$24,000 (+20% energy savings)
1990: In Egypt, Edfu Sugar Mill installed MHD units in their evaporator systems to extend cleaning intervals by 300 - 500%, increasing production.	\$60,000	\$683,200 (Year 1 ROI: >1,100%)
1990: Korean National Railroad installed MHD units on 100 heater cars. This enabled KNR to heat 12 coaches instead of 7 from a single heater car, and to totally eliminate coil washings for entire heating seasons.	\$50,000	\$100,000 (Year 1 ROI: 200%)
1991: Teves Sugar Mill in the Philippines invested in MHD units for their evaporator systems, which yielded a substantial increase in production and much higher profits.	\$103,000	\$1.58 million (Year 1 ROI: >1,500%)
1991: In Northern Scotland , a salt plant installed three 24" diameter MHD units to keep a water pipe system scale-free for over 17 miles.	\$60,000	(Year 1 ROI: >100%)
1992: In Pakistan , a large diameter MHD unit started to soften existing hard scale within seven days in a municipal water distribution system.	\$20,000	(Year 1 ROI: >100%)
1990's: Power Plants: MHD units were installed in numerous facilities, in the cooling water supply side to condenser systems, for scale and marine growth control.	\$10K - \$50K	(Year 1 ROI: 100-200%)



Typical MHD Unit installed in industrial piping system

“I have enclosed a **photo** of a tube bundle from one of our hot water generators. **An MHD unit** was installed on this system about **13 years ago**, and as you can see in the photo the tubes are perfectly clean down to the metal.



The entire domestic hot water system of the hospital is as clean as this tube bundle, eliminating entirely the usual problems of restricting flow and loose particles calcium build-up in the piping.

I must say that this purchase was **one of the best investments I have ever made** for this hospital.”

*Mr. Lynn J. Cucullu, Administrative Director, Building Services
East Jefferson General Hospital, Metairie, Louisiana – 1990*

	INVESTMENT: (One Time)	RETURN: (Ongoing Annual)
1991: World's largest institutional laundry (run by the County of Los Angeles) invested in six MHD units for scale control, resulting in major savings in cleaning, maintenance and energy costs.	\$30,000	\$62,000 (Year 1 ROI: >200%)
1992: E.B. Eddy Forest Products in Espanola, Ontario installed an MHD unit on a green liquor line. After 5 months the lines were clean and scale-free. Soon after, they installed another MHD unit on a second liquor line.	\$30,000	\$75,000 (Year 1 ROI: 250%)
1993: Union Carbide invested in an MHD unit for a feed-water line to the hot live reactor, yielding major savings in cleaning and energy costs.	\$10,000	> \$20,000 (Year 1 ROI: >200%)
1994: U.S. Coast Guard installed six MHD units. Three months after installing the MHD units, the boiler tubes were scale free, resulting in fuel savings of over 40%.	\$10,000	(Year 1 ROI: >200%)
1995: An Oil Producer invested in multiple MHD units for two steam generators at their enhanced oil recovery operation in California, U.S.A.	\$20,000	\$255,000 (Year 1 ROI: >1,200%)
1998: In California, an irrigation test was performed where half a farm was irrigated with an MHD unit and the other half without. The half irrigated with the MHD unit had higher yields, using less water and energy.	\$10,000	(Year 1 ROI: >300%)
1998: Procter & Gamble installed MHD units to an SO2 scrubber heat exchanger and a liquor evaporator for a pulp mill in Pennsylvania. The heat exchanger became hard-scale free, eliminating the need for frequent cleaning, and the need for evaporator cleaning was reduced by 50%.	\$15,000	(Year 1 ROI: >300%)
2008: In Japan, a ferry running 24 hours per day, 365 days per year, installed an MHD fuel unit and experienced 4.8% to 5.7% monthly fuel savings.	\$8,000	\$100,000 (Year 1 ROI: >1,200%)