

Wastewater Heat Recovery Unit Model WWHRU

Hot Wastewater produced by most Industrial plants, Commercial Laundries, or Commercial Kitchen facilities can be a significant source of heat energy. In many instances, this valuable resource is discharged to wastewater treatment facilities without recovering the heat it acquired during processing. Most of the heat contained in the wastewater can be reclaimed and utilized, while providing significant *cost reductions* with attractive *payback periods*. This is achieved through the implementation of an **EnviroSep** Wastewater Heat Recovery Unit. The Model WWHRU can be designed for End-of-Pipe (total facility) or Point-of-Use (individual process) wastewater discharge. Through the use of wastewater discharge, the reclaimed heat can be used for preheating incoming process fluids, thereby *reducing fuel costs*, while enhancing the environment through the removal of Thermal Pollution.

TYPICAL PROCESS PARAMETERS

Wastewater Flow	300,000 Gal./ Day
Days of Week:	7 Days / Wk.
Weeks of Operation:	50 Wks./Yr.
Wastewater Discharge Temperature:	140°F
Incoming Process Water Temperature:	50°F
Process Operating Temperature:	140°F
Energy Costs:	\$7.50 / Million BTU's

ESTIMATED ENVIRONMENTAL PAYBACKS

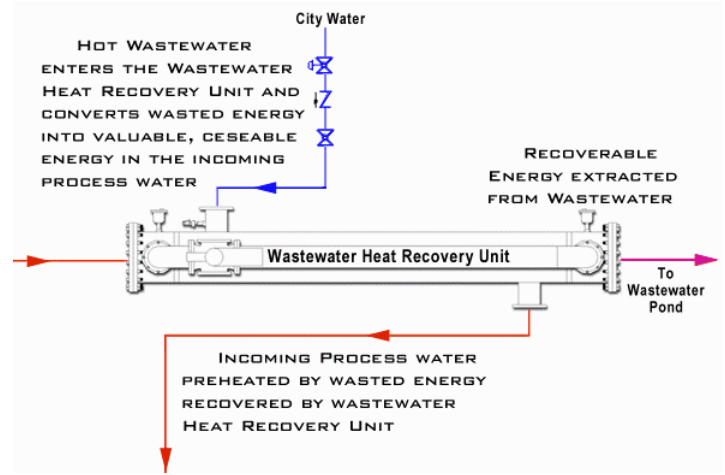
No. 6 Fuel Oil Saved: 427,220 Gal./Yr.

Sulfur Dioxide Emissions
 Reduced (based on 2.1% out): 68 Tons/Yr.
OR

Natural Gas Saved: 62 Million ft³./Yr.
OR

Electricity Saved: 18.8 Million kw-hrs
OR

Coal Saved
 (based on 12,000 BTU/lb.): 5,340,250 Lb./Yr.



TYPICAL SYSTEM SAVINGS

Wastewater Heat recovered:
64,083 Million BTU's/ Yr.

Energy Savings: **\$ 480,624 / Yr.**

EnviroSep offers completely Integrated Wastewater Heat Recovery Systems including Packaged Pumping Stations, Stainless Steel Storage Tanks, Filtration, System Controllers, and full customization. Total Turn-key services are offered as an option, including Site Layout, System Engineering, Manufacturing, Installation, and Start-up. All systems are fabricated and welded per ASME, Section IX Code and Standards, and are hydrostatically tested. Our Totally Integrated Engineered Systems are UL-Listed and designed to function independent from external supplementary systems. Electrical controls are typically PLC-based and are housed in a single UL-Listed Industrial Control Panel with single-point power connection.

Whether you choose a complete system or components to work with existing equipment, your savings result in significantly lower operating costs.

Regardless of system size, temperature, pressure, fluid medium, or available floor space, **EnviroSep** can service all specialized needs.