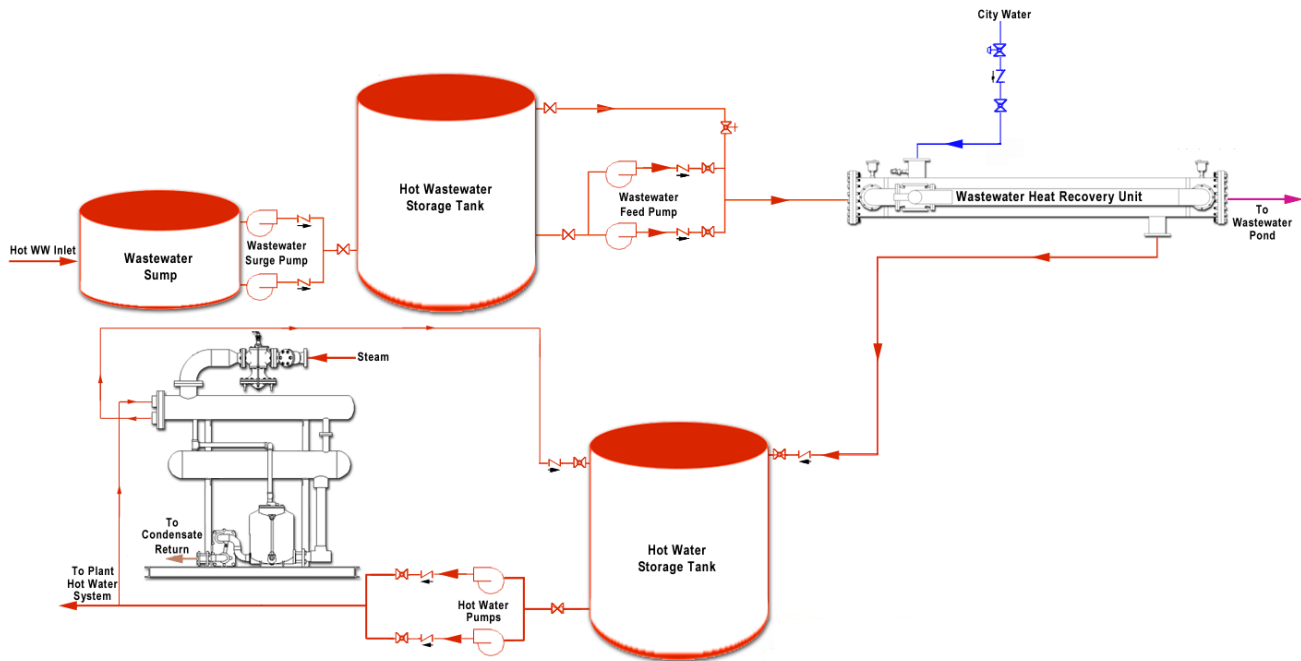


Wastewater Heat Recovery Systems



WASTEWATER HEAT RECOVERY, COOLING WATER RETURN, & HOT WATER SYSTEM

The "TOTAL SOLUTION" System

- Reclaims wasted heat energy from hot wastewater discharge
- Reduces process hot water heating costs by 50 to 70%
- Optional BTU/hr. Energy Recovery Controller to optimize recovered heat
- Reduces fuel consumption which may negate need for additional heat sources
- Engineered to meet specific plant requirements

EnviroSep
FLUID & HEAT RECOVERY SYSTEMS
A DIVISION OF TMT, INC.

EnviroSep • Fluid & Heat Recovery Systems
A Division of TMT, Inc.
PO Box 857 • Georgetown, SC 29442
Phone (843) 546-7400 / Fax (843) 546-7407
WWW.ENVIROSEP.COM



Wastewater Heat Recovery System

Hot wastewater produced by most industrial plants can be a significant source of heat energy. In many instances, this valuable resource is discharged to wastewater treatment facilities without employing 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 System. Through the use of wastewater discharge, the reclaimed heat can be used for preheating incoming process water, thereby saving fuel costs, while enhancing the environment through the removal of Thermal Pollution.

TYPICAL PROCESS PARAMETERS

Wastewater Flow:	200,000 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:	\$5.00 / Million BTU's

TYPICAL SYSTEM SAVINGS

Wastewater Heat recovered:	<u>40,870 Million BTU's/ Yr.</u>
Energy Savings:	<u>\$ 204,350 / Yr.</u>

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ENVIRONMENTAL PAYBACKS

No. 6 Fuel Oil Saved: 272,466 Gal./Yr.

**Sulfur Dioxide Emissions
Reduced (based on 2.1% out): 44 Tons/Yr.**

OR

Natural Gas Saved: 40 Million ft³/Yr.

OR

Electricity Saved: 12 Million Kilowatt-hours

OR

**Coal Saved
(based on 12,000 BTU/lb.): 3,405,830 Lb./Yr.**

EnviroSep offers total turn-key services, which include 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.

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