Finding the best solution for your heat transfer system requires careful evaluation of capital, installation, operating, and maintenance costs. Some estimates suggest that heat transfer equipment may account for as much as 30 percent of process capital costs and 90 percent of operating costs, so it is critical that your design is both efficient and cost-effective.

Exchanger Optimizer enables a broader understanding of how design decisions impact costs over the entire life of the equipment. Engineers can use this software to

- design heat exchanger systems to minimize the total installed cost of the plant
- evaluate revamp scenarios including bundle replacements, metallurgy upgrades, and enhanced tubing
- generate custom and region-specific estimates

Join other industry leaders now benefitting from Exchanger Optimizer

This innovative economic evaluation tool allows engineers to consider fabrication, installation, and operational costs in heat exchanger design decisions.

Xchanger Suite® 8 Embedded Costing

Exchanger Optimizer is now integrated with Xchanger Suite 8. With a valid Exchanger Optimizer license, users can access the embedded costing feature, which provides fabrication, installation, and operational estimates for Xist® and Xace® design cases. Exchanger Optimizer can be launched from within Xchanger Suite to generate comprehensive cost assessments and validate designs based on ASME code calculations.

Users can now launch Exchanger Optimizer from within Xchanger Suite.

Visit www.htri.net for more information.
SOFTWARE HIGHLIGHTS

SHELL-AND-TUBE HEAT EXCHANGER DESIGN CAPABILITIES

- Material costs on 32 different alloys for several product forms (tubes, plates, forgings, etc.) and ability to input actual rates
- Size and weight estimates for all major components
- Bill of materials output report
- Rigorous labor hour estimates for welding, drilling, machining, etc.
- Cladding and weld overlays
- ASME code calculation output for UHX fixed tubesheets, tubes, body flanges, cylinders, and heads
- Forged nozzle connections for high pressure services
- Bellows shell expansion joint and tail pipe bellows for single-pass floating heads
- Extensive nozzle design logic
- Flanged and flued spring rate calculations based on TEMA 8
- Cost estimate methods for Inconel® and stainless steel bellows expansion joints
- Fabrication Schedule

AIR-COOLED HEAT EXCHANGER DESIGN CAPABILITIES

- Size and weight estimates for header box and tubes
- Weight and cost estimates for bay structure, fans, motors, and driver
- Supports plain, low-finned, and high-finned tubes
- Winterization options such as louvers and heating coils
- Platforms, mechanical service walkways, and ladders

INSTALLATION COST ESTIMATION CAPABILITIES

- Material and labor estimates for installing heat exchangers in a process plant
- Rigorous piping network design logic that takes into account the number of heat exchangers in parallel and series, as well as the size and quantity of the nozzles
- Region-specific estimates

The ASME UHX fixed tubesheet calculation summary identifies design deficiencies, helping the user determine the need for expansion joints.

Industry leaders use Exchanger Optimizer to

- compare fabrication, installation, and operating costs of traditional and alternate designs
- estimate budgets (±30% accuracy) within minutes, customized for specific manufacturing shops or locations
- determine procurement strategies

EVALUATE THE IMPACT OF YOUR ENGINEERING DECISIONS.

Contact us at htri@htri.net to receive a free evaluation or to request more information.