



Ready for something more advanced?
Get the software tool professional engineers count on.

Xchanger Suite Educational

In one integrated environment, HTRI *Xchanger Suite*[®] Educational includes three powerful components that handle all calculations for

- shell-and-tube heat exchangers
- crossflow heat exchangers (air coolers and heat recovery bundles)
- compact (plate-and-frame) heat exchangers



Supported by extensive data we collected on industrial-scale heat transfer equipment for over 45 years, our software quickly and accurately handles all your heat exchanger calculations.

Experience the same powerful software that professionals use at over 800 companies in more than 45 countries worldwide!

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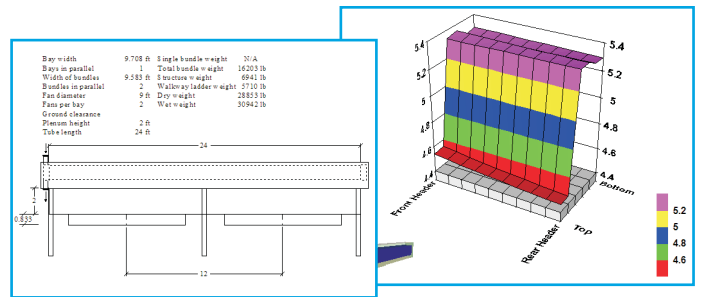
Xchanger Suite[®] Educational

HTRI Xchanger Suite Educational includes three powerful components for designing, rating, and simulating performance of crossflow, shell-and-tube, and compact heat exchangers, all in one integrated environment! Better yet, the software is supported by the extensive data we have collected on industrial-sized heat transfer equipment for over 45 years. Experience the same software that professional engineers and designers use at over 800 companies worldwide!



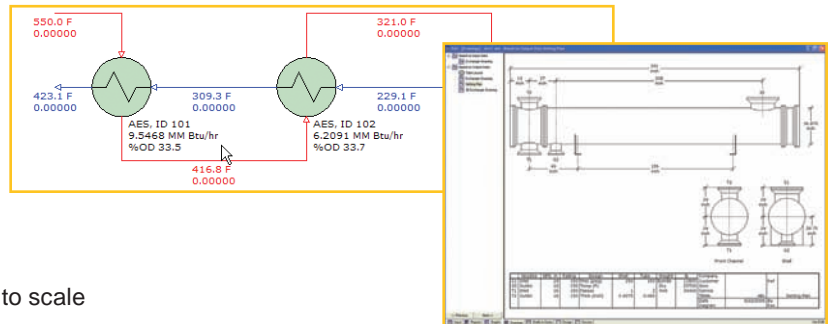
Cross Flow

- Design, rate, and simulate air-cooled heat exchangers (with fans on or off), heat recovery units, and natural draft exchangers
- Enter any tubeside and outside process condition
- Access many special features, such as
 - ▶ links to vendor-supplied fan selection software
 - ▶ outside maldistribution (of both inlet air flow and temperature)
 - ▶ multiple services in one bay



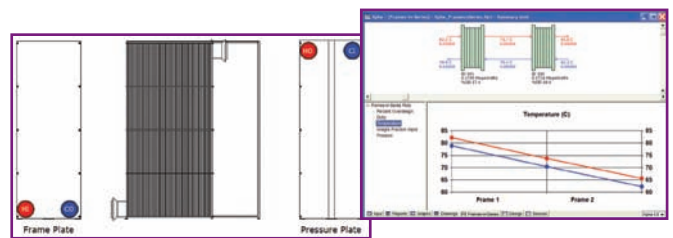
Shell and Tube

- Design, rate and simulate shell-and-tube heat exchangers
- Evaluate geometries including
 - ▶ TEMA E, F, G, H, J, K, and X shells
 - ▶ kettle and thermosiphon reboilers including piping
 - ▶ falling film evaporators
 - ▶ tubeside reflux condensers
- Analyze single-phase, condensation, and boiling processes
- Preview rigorous tube layout using interactive drawing shown to scale



Compact

- Design, rate, and simulate plate-and-frame heat exchangers
- Calculate each plate channel incrementally using local properties and process conditions
- Use unique research-based port maldistribution procedure to determine flow through each plate channel
- Analyze single-phase, condensation, and boiling processes



HTRI Xchanger Suite Educational requires

- 32-bit Intel[®] Pentium[®] or compatible processor
- 64 MB memory (RAM) for Microsoft Windows 98/ME; 128 MB for Microsoft Windows 2000/XP; 512 MB for Microsoft Windows Vista
- SVGA graphics adapter
- Mouse or touchpad

- 330 MB available hard disk space
- Microsoft Windows 98 or later operating system

HTRI recommends an 800 MHz or faster processor with 256 MB RAM, Windows XP operating system, and a graphics resolution of 1024 x 768.