



Heat Transfer Research Inc.

Press Release

HTRI releases *Xchanger Suite 3.0*

College Station, Texas, USA – October 1, 2003

Heat Transfer Research, Inc. (HTRI) announces the release of *Xchanger Suite 3.0*. Our members can now benefit from the addition of *Xvib™* for rigorous vibration analysis for tubes subject to flow induced vibration.

The newest version of HTRI *Xchanger Suite* offers significant improvements that make it more reliable and easier to use than ever before.

Xace 3.0 – Air coolers and economizers

- New option for calculating tubeside condensation assuming total phase separation in the headers between passes for worst case analyses
- Ability to specify the number of tubes on any row in a bundle
- New option to specify one or more fan lanes in a bundle for induced draft configurations

Xist 3.0 – Shell-and-tube heat exchangers

- New option to specify detailed inlet and outlet piping in thermosiphons for incremental modeling of pressure drop
- Flow regime map that illustrates two-phase regime throughout the exchanger in horizontal exchanger configuration
- Graphical input panel that shows the locations of nozzles
- Two-phase flow methods for boiling and condensing on longitudinally finned tubes

Xphe 3.0 – Plate-and-frame heat exchangers

- Ability to model multiple frames in series
- Addition of boiling and condensing methods

Xtlo 3.0 – Standalone bundle layout for shell-and-tube heat exchangers

Xvib 3.0 – Rigorous tube vibration analysis

- Full integration with *Xchanger Suite* so that you can transfer geometry and local process information from a tube in *Xist* and create a new *Xvib* case
- Drag-and-drop input data from *Xist* to *Xvib*
- Ability to analyze multiple tubes from different areas in the exchanger
- Increased number of spans that users can consider
- Increased number of elements between baffle spaces for finer resolution in load application

For Immediate Release

About HTRI

Heat Transfer Research, Inc. (HTRI) is the global leader in process heat transfer and heat exchanger technology. Founded in 1962, our industrial research and development consortium serves the engineering needs of over 500 corporate member sites. HTRI conducts application-oriented research on industrial-scale equipment at its state-of-the-art facility. HTRI staff use the proprietary research data to develop methods and software for the thermal design and analysis of heat exchangers and fired heaters. In addition, HTRI provides technical support, and offers training, consulting, and contract services. HTRI's dedication to excellence assures its customers of a distinct competitive advantage and high level of operating confidence in equipment designed with HTRI technology. For more information about HTRI, visit our website at www.HTRI.net.

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