**ICA PARTNERS WITH SJTU TO OFFER POWERFUL HEAT EXCHANGER SIMULATION AND DESIGN SOFTWARE**

*User-Friendly HXSim Design Platform Is Available for No Charge to Qualified Individuals*

**New York, NY (10 April 2021)** –The International Copper Association (ICA) announces that the HXSim "Small Diameter Copper Tube Air Conditioning Heat Exchanger Simulation Tool" Version 3.0 is now available for download and use at no charge.

The HXSim Software Program and the HXSim Guide can be freely downloaded from the [www.microgroove.net](http://www.microgroove.net) website. Users can register their software by providing their name and email address to ICA. A unique passcode will be emailed to qualified individuals, who can then activate a full working version, free-of-charge, compliments of the International Copper Association.

**HXSim Description**

Users can design and simulate the performance of sophisticated heat-exchanger blocks. The software program calculates such quantities as heat exchange capacity, airside pressure-drop and refrigerant side pressure-drop. Results are displayed in easy-to-understand graphic or tabular formats. The graphical user interface (GUI) makes it easy to enter data and observe simulation results. The most basic input has to do with the block type and dimensions. The three main "Types" of heat exchanger blocks are the I-Type, L-Type and C-Type, corresponding to the shapes of the letters I, L and C, respectively. Both 3D and 2D user interfaces are available. Users can run simulations on a variety of refrigerants and vary the tube size, fin design and tube circuitry as well as many other parameters. Row spacing and the column numbers can be input for the tube locations, the fin type selected, and data entered on the joints. A database of tube types as well as fin types is built into the software program. The outer diameter of the MicroGroove tubes and the tube wall thickness as well as the inside-the-tube enhancements can be varied.

**ICA and SJTU**

This powerful software tool was developed at SJTU under the auspices of the International Copper Association and the leadership of the renowned Professor Guoliang Ding of the Institute of Refrigeration & Cryogenics in Department of Power & Energy Engineering at SJTU.

For links to download the HXSim software program and guide, visit [www.microgroove.net/HXSim](http://www.microgroove.net/HXSim)

**About ICA**

ICA brings together the global copper industry to develop and defend markets for copper and to make a positive contribution to society’s sustainable-development goals. Headquartered in New York, the organization has offices in four primary regions: Asia, Europe and Africa, Latin America and North America. Copper Alliance® programs and initiatives are executed in nearly 60 countries through its regional offices. For additional information please visit copperalliance.org.

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