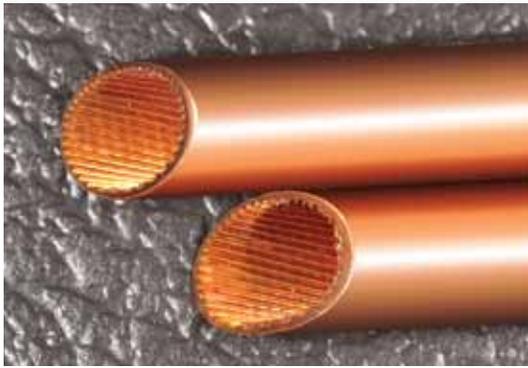


Industry Leaders Focus on Large Heat Exchangers with Smaller-Diameter, Inner-Grooved Copper Tubes

MicroGroove technology, originally developed for room air-conditioners, including window units and split systems, is now also recognized by manufacturers as being well suited for large heat exchangers in commercial-sized air conditioning and refrigeration systems.

When smaller diameter copper tubes are used in the construction of heat exchanger coils, major advantages are realized in terms of energy savings, materials savings, reduced refrigerant and smaller footprints.

To facilitate technology transfer at the AHR Expo, the Copper Alliance has organized a series of presentations from innovative industry experts who are active in the development of new applications for copper tubes. The roster includes experts in the design and manufacture of heat-exchangers as well as experts in the manufacture of copper



tube and fittings. Six 20-minute speaking slots have been reserved at the New Product & Technology Theater B at the AHR Expo at the Dallas Convention Center on Tuesday, January 29, from 2 p.m. to 4 p.m. A tentative agenda is given here.

Of special note is the presentation by Matt Holland, from Super Radiator Coils, a company now offering heat exchanger

coils made from 5-mm copper tubing. These compact heat exchangers were developed using SRC's industry-leading wind tunnel test laboratory. Compared to coils made with conventional tubes, coils that use MicroGroove technology offer customers lower cost, reduced refrigerant charge, smaller size and less weight. These benefits are available without compromising the flexibility of the configuration for field serviceability, or other tradeoffs typically incurred using aluminum tubes or microchannel tubes.

Modern refrigerants such as R744 and R410A are used at higher pressures than previous types. Charles Stout and Christopher Mueller of Mueller Industries will review the limitations of piping systems for containing and conveying refrigerants and show how copper performs in these high pressure applications. Ed Rottmann from Luvata will discuss new copper alloys for use with various refrigerants, and Steffen Rieger from Wieland will review copper tube advancements for ACR applications.

Newell Franks, Chairman and CEO of Burr Oak Tool Inc., will describe equipment for making coils with smaller diameter tubes, including a new small diameter hairpin bender that takes up approximately half the space of conventional machines and increases the production rate by two-fold.

Join us for one or more of these presentations at the New Product & Technology Theater B at the AHR Expo in Dallas. You will benefit from a concise overview of the MicroGroove advantage as applied to commercial refrigeration, air-conditioning and air-handling applications.

WHAT: MicroGroove Technology for Commercial Systems

WHEN: Tuesday, January 29, 2013, 2 to 4 p.m.

WHERE: New Product & Technology Theater B
AHR Expo 2013, Dallas Convention Center

Agenda

2:00 to 2:20 pm

The MicroGroove Advantage
John Hipchen from the Copper Alliance, [Booth #5524](#)

2:20 to 2:40 pm

Copper Tubing in R410A and CO2 Applications
Dr. Charles Stout, PE and Chris Mueller from Mueller Industries, Inc., [Booth #2545](#)

2:40 to 3:00 pm

High Efficiency MicroGroove Coils for Commercial and Industrial Applications
Matt Holland from Super Radiator Coils, [Booth #1737](#)

3:00 to 3:20 pm

A New Era of Coil Manufacturing
Newell Franks from Burr Oak Tool Inc., [Booth #2957](#)

3:20 to 3:40 pm

New Copper Alloys for the ACR Industry
Ed Rottmann from Luvata, [Booth #1545](#)

3:40 to 4:00 pm

Optimization of Copper Tubes for ACR Tube Applications
Steffen Rieger from Wieland-Werke AG, [Booth #4156](#)

Tube suppliers, equipment manufacturers and coil designers are listed in AHR Expo Directory. A Directory of Tube Suppliers with contact information is also available at microgroove.net.

microgroove

Cu Copper Development Association Inc.
Copper Alliance