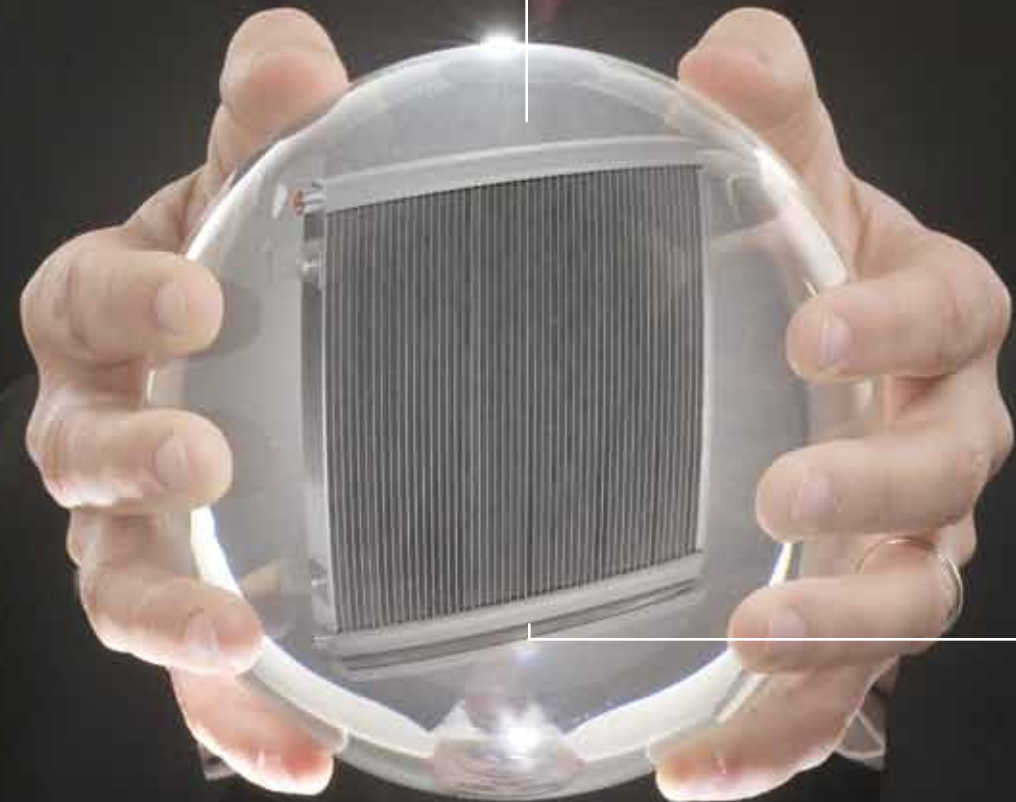




250 N. Main Street • Jacobus, PA 17407  
Phone: 717-347-7500 • Fax: 717-347-7383



[www.Alcoil.net](http://www.Alcoil.net)



IS  
**MICRO-  
CHANNEL  
CONDENSER  
TECHNOLOGY**  
IN YOUR  
**FUTURE?**

It's Probably Closer Than You Think!

# You Don't Need a Crystal Ball to See the Next Generation of Heat Exchangers

*They're Here Now, and Available from Alcoil*



Higher copper prices and new mandates for improved efficiency in HVAC equipment have caused traditional copper tube and fin condensers to become yesterday's technology. This has resulted in higher equipment manufacturing costs, larger refrigerant charges and additional costs from shipping and handling.

Alcoil's Advanced Micro-Channel Technology™ overcomes these problems because they are unlike traditional systems in every way. Their all-aluminum construction means they are smaller, lighter and less expensive while being more robust and easier to maintain.

*Visit us at [www.Alcoil.net](http://www.Alcoil.net) to find out more!*

## What is Alcoil Micro-Channel Technology?

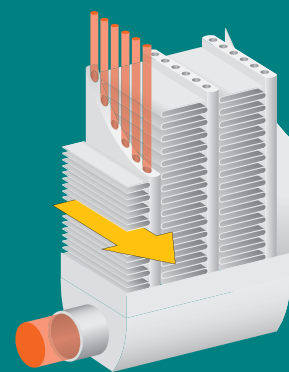
Micro-Channel technology is the first major improvement in refrigeration condensers since air-side coils were introduced over 100 years ago. It offers improved performance by increasing air-side heat transfer between the fins and the ambient air, heat conduction between the fins and tubes and refrigerant-side heat transfer between the tubes and the refrigerant.

Alcoil uses thin, multi-port extrusions known as micro-channel tubes. These tubes are combined with louvered high performance fins, headers, fittings and sub-components, all integrally brazed together using aluminum alloys.

### Wide Range of Applications in HVAC/R Equipment



- Air Conditioning Systems
- Process Chillers
- Beverage & Ice Machines
- Transport Refrigeration
- Process Equipment Cooling
- Refrigerated Air Driers
- Supermarket Refrigeration Systems
- Environmental Chambers
- Dehumidification



### Higher Efficiency & Performance

Alcoil's Advanced Micro-Channel technology provides higher heat transfer rates, closer approach temperatures and lower airside pressure drops delivering performance increases of up to 40%.

### Lower Cost

Alcoil's Advanced Micro-Channel™ heat exchangers are made from less expensive aluminum using a process that improves performance without sacrificing quality.

### Smaller Size

Alcoil heat exchangers are up to 30% smaller and up to 60% lighter than traditional coil/fin heat exchangers. Their smaller size reduces structural requirements, decreases labor handling during installation and lowers shipping costs for dramatic savings!

### Lower Refrigerant Charge

Refrigerant charge is reduced up to 50% when compared to traditional designs, and installation and servicing costs are reduced while lessening the possibility of compressor flooding.

### Proven Reliability

Alcoil product design has reliability built-in along with higher quality levels for the HVAC/R and process industries for robust performance and long life.

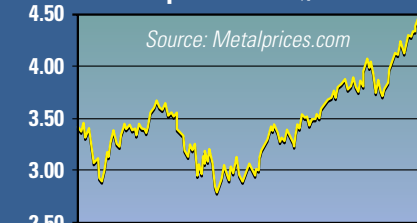
### Excellent Corrosion Protection

Unlike copper/aluminum coils using dissimilar metals, all-aluminum Alcoil units are not subject to galvanic corrosion therefore minimizing the anode/cathode relationship.

### Superior Durability and Servicing

The mechanically bonded tubes and fins of micro-channel coils make them less susceptible to damage during handling, cleaning, and normal installation and maintenance.

**COMEX Copper Spot 1 Year - \$/lb.**



January, 2010 - January, 2011

## Alcoil is Leading the Way on Micro-Channel Technology

Alcoil is a premier manufacturer and developer of brazed aluminum heat exchangers for the HVAC/R and industrial process industries. We specialize in airside condensers, evaporators, heating/cooling coils, oil coolers, and process systems.

Our mission is to support our OEM customers with the best and most cost effective technology available. We invite you to look closely at our all aluminum brazed heat exchangers and see why the HVAC/R industry is rapidly switching to this emerging technology.

### Sizes for Most Applications

Flexibility and completely variable sizes are tailored to our OEM customer needs. Custom and standard sizes are available from as small as 8" x 8" to a maximum of 48" x 120". Condenser capacities range from ¼ ton to over 20 tons, depending upon the design conditions.

