ALUMINIUM MICROCHANNEL HEAT EXCHANGERS

Looking for higher capacity, lighter and smaller heat exchangers for your A/C or heating systems? Aluminium microchannel heat exchangers are your solution.

CLIMETAL, S.A.
C/Isla de Java, 27 - 28034 Madrid (Spain)
Tel. (+34) 91 728 37 50
Fax. (+34) 91 728 37 57
e-mail: agustin.maiz@climetal.com
web: www.climetal.com

CONDENSERS
EVAPORATORS
HEATERS
**HIGHER PERFORMANCE**

Climetal parallel-flow condensers offer a long list of features not found in other condensers. Parallel flow increases performance by up to 45% percent compared to traditional tube and fin condensers. Its special circuit design reduces internal pressure drop on the gas side by more than 40%, which produces significant savings in compressor energy consumption and weariness. Its slim design –16 mm & 25mm thickness- and its thin cross flow tube profile decreases air pressure drop by 30% also bringing considerable advantageous: smaller fans, less noise and lower electricity consumption.

**LESS REFRIGERANT**

The reduced dimensions of CLIMETAL’s condensers will also allow you to decrease the amount of refrigerant used in your system by 30% and still increase performance, generating remarkable savings in your production process and in the future maintainance of the A/C unit.

**Internal Heat Transfer**

Because of their small hydraulic diameter, MP tubes transfer heat more efficiently than traditional round copper tubes.

**Lower air pressure drop**

Bigger primary to secondary surface area ratio

Lower tube air shadow

**Improved Heat Transfer**

Traditional tube & fin coils are mechanically expanded with no real contact between tubes and fins. Aluminium brazed coils have perfect continuous contact between tubes and fins, assuring an efficient heat transfer.

For more information watch our video at [http://www.climetal.com/video.htm](http://www.climetal.com/video.htm)
LESS WEIGHT & REDUCED DIMENSIONS

All-aluminium condensers have an obvious advantage against traditional copper tube condensers: less weight. With a 40% more performance, our condensers weigh less than 50% of its copper counterpart. Therefore, your systems will be lighter, more compact, more silent and more durable than ever before.

LONG-LIFE

Zinc coated fins and multi-port tubes are manufactured with alloys specially developed for this technology and flux brazed in an inert atmosphere to create a homogeneous chemically steady assembly with leak free joints which guarantee improved corrosion resistance. Because of the low galvanic couple effect among the different aluminium alloys in our condensers, corrosion is minimized compared to traditional copper tube and aluminium fin coils.

ENVIRONMENT FRIENDLY

Besides a lower risk of refrigerant leaks to the environment, our coils are monomaterial making it very easy to recycle compared to the traditional copper tube and aluminium fin heat exchangers.

INTEGRATION IN EXISTING SYSTEMS

Aluminium heat exchangers can be easily integrated in your actual Systems. Climetal offers several solutions, like copper-aluminium brazing or mechanical oring fittings.

For more information watch our video at http://www.climetal.com/video.htm
GEOMETRIES AND MAXIMUM DIMENSIONS

Dimensions (HxLxD) 1200 x 2000 x 25 mm

Air Inlet Temperature 35°C
Humidity 40%
Condensing Temperature 55°C
Superheat 30K
Subcooling 2K
Weight 31,50 Kg

WORKING CONDITIONS & FEATURES

For more information watch our video at http://www.climetal.com/video.htm