Fluid Coolers and Condensers

Direct Coil designs and manufactures air cooled fluid coolers using the unique support system and corrosion resistant components to provide long life. The fluid coolers are engineered to reduce the fluid cooler pressure drop and maximize efficiency.

The fluid coolers feature large face areas, extra heat transfer surface and generous air flow to ensure highest performance in the most demanding conditions.

Models are available with various tubing sizes. We offer several choices of fan motor combinations and fan cycling packages. Headers with flanged, threaded or sweat connections are available. Capacity control is achieved by fan cycling on the leaving fluid temperature.

The main features of the dry air cooled fluid coolers:
- Corrosion Resistant Housing
- Unique Coil Design
- Optimized Coil Circuiting
- Nema 4 Control Panel
- Fluid Temperature Control

Please consult our sales team for your specific application.
QUICK SHIP OPTIONS AVAILABLE

Condenser coils

Condenser coils are designed to withstand the high pressure and temperature associated with refrigerant condensing. Various fin and tube combinations provide design flexibility. Wider fin spacing is also available to minimize dirt and dust build-up. Optional corrosion-resistant materials and protective coatings help increase the service life of the coil.

Direct Expansion coils

Direct Expansion Evaporator coils are engineered and designed to deliver maximum heat transfer efficiency under a wide range of operating conditions. We can offer a wide variety of circuiting of coils, including interlaced Row/Face split, to meet the performance requirements of various applications.

Water coils

Water coils are designed for comfort cooling and heating applications are extensively tested and properly sized using our proprietary software. For replacement coils or those needing to fit specific dimensions, our wide range of coil and tube sizes, fin spacing, and coil connection orientations allow for a drop-in coil fit. Optional coating applied to coils or pre-coated fin stock can be offered to increase service life of coil under corrosive environments.

Custom Designed coils

The latest technology is used to design coils for custom applications. We can offer custom coils in various tubing materials like Cupro-Nickel, Stainless steel and Aluminum tubing. Using computerized coil selection software and advanced 3D CAD software we can offer replacement and retrofit virtually any size coil.

Computerized Coil Selection

COIL SOFTWARE FOR SELECTION OR RATING PERFORMANCE

The program provides optimized designs for air cooling, dehumidifying and heating coils using chilled and hot water, ethylene and propylene glycol, evaporating and condensing refrigerants.

Features

* **Coils** are designed for maximum heat transfer and performance, lower initial cost and durability. The staggered tube pattern, selection of materials and coil program play a vital role in optimizing coil selection.

* **Tubes** are smooth seamless copper tubes manufactured to ASME specification with strict quality control. Tubes are available with smooth internal surface or internally enhanced surface to achieve high heat transfer. Tubes are mechanically expanded into fin collars to maximize heat transfer.

* **Fins** are aluminum and are die formed plate type. Various types of fin surfaces like sine wave, louvered or raised lance are available to maximize heat transfer with minimal air friction. Optional materials include: copper or pre-coated aluminum with corrosion resistant coating.

* **Headers** are designed to reduce potential for leaks and provide connection locations that allow draining or venting of coils. Headers are sized to achieve low pressure drop and proper flow distribution.

* **Hairpin Tubes** offer maximum leak protection by eliminating joints within a circuit.

* **Return Bends** are sized to provide smooth flow with minimum pressure drop.

### DIE TUBE OD PATTERN NO. OF ROWS MAX FIN LENGTH FPI FIN TYPE

<table>
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<tr>
<th>DIE</th>
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<th>NO. OF ROWS</th>
<th>MAX FIN LENGTH</th>
<th>FPI</th>
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<tbody>
<tr>
<td>200</td>
<td>5/16”</td>
<td>1 x 0.625</td>
<td>1-6</td>
<td>60</td>
<td>6-12</td>
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INDUSTRIES SERVED

- HVAC
- Food industry
- Automotive
- Power Generation
- Refrigeration
- Pharmaceutical
- Agriculture
- Cold storage
- Swimming pools
- Chemical
- Heat Recovery

CUSTOM DESIGNED SOLUTIONS
INNOVATIVE CUSTOM
DEIGNED HEAT
TRANSFER PRODUCTS

VALUE ADDED PARTNER FOR YOUR HEAT TRANSFER NEEDS

OEM / CUSTOM / REPLACEMENT MARKET
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**Areas of Application**
Heating, cooling, direct expansion, condensers, heat recovery, steam, refrigeration and air conditioning coils.

**Materials of Construction**
Casing: Galvanized, aluminum, copper and stainless steel
Fin: Aluminum (plain or coated), copper
Tubing: Smooth wall, rifled, or cross hatch

**Industries Served**
- HVAC
- Automotive
- Power Generation
- Refrigeration
- Pharmaceutical
- Agriculture
- Food Industry
- Cold Storage
- Chemical
- Heat Recovery
- Swimming Pools

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