Netfil®

World-class Solutions in

Clean Room Equipments, Filters, Coils & AHU's

COILS

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CHILLED WATER COIL

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Chilled water coils are heat exchangers, typically consisting of between 3–12 rows of tubes. Most chilled water coils have air entering the system at a temperature ranging from 75° F to 95° F, while chilled water enters the coil at a temperature around 45° F, from an onsite chilled water source, an offsite utility or another source chilled water. As warm air passes across the coil and contacts the cold surface, heat transfers from the water flowing through the tubes to the air entering the coil.

Chilled water coils are typically used to cool or remove moisture from air streams. The air to be cooled moves through the fins, and either water or an ethylene or propylene glycol solution move through the tubes.

APPLICATIONS :

- Comfort Cooling
- Dehumidification
- Process Cooling
- Heat Reclaim

FEATURES :

- Easy Installation
- Long Working Life
- Minimum Maintenance
- Long lasting material quality

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HOT WATER COIL

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Hot water coils are heat exchangers used to heat air streams, and are at the heart of your heating system. The coils consist of rows of tubes that pass through sheets of formed fins. As cold air passes through the coils, heat transfers from the hot water flowing through the tubes to the air in the coil.

Hot water coils are used to heat air streams. Air moves through the fin contact area, and hot water (usually around 180 degrees Fahrenheit) moves through the tubes.

APPLICATIONS :

- Comfort Heating
- Preheat
- Reheat After Dehumidification
- Boosting Air Temperature in Long Dust Systems
- Fluid Process Heat

FEATURES :

- Enhanced Durability
- Design with High Precision
- StrongConstruction
- High Strength
- Fine Finish
- Dimensional Accuracy

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DIRECT EXPANSION COIL

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These coils are used to cool or remove moisture from air streams. They are sometimes called Evaporator coil. They are one of the four main components in the refrigeration or air-conditioning cycle. A liquid-vapor mixture of refrigerant enters the coil and cools the air as it evaporates, and eventually leaves the coil as a gas.
Cooling occurs when a fluid under pressure and at a temperature above it's normal boiling point, has the pressure reduced.

APPLICATIONS :

- Comfort Cooling
- Dehumidification
- Process Cooling
- Air Conditioning
- Refrigeration

FEATURES :

- Low installation costs.
- Ease to test, adjust and balance the system.
- Minimum ceiling or wall space needed.
- Low energy consumption.
- Low maintenance costs.
- Comfort under varying load conditions.
- Low noise level (NC 35).
- Good relative humidity control.

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STEAM HEATING COIL

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Steam Heating Coils are fluid to air heat exchangers. Generally constructed from SS304 tubes mechanically expanded into aluminum plate fins with self spacing collars to ensure efficient heat transfer or SS304 wire wound fins

Steam Heating Coils are engineered with heavy gauge SS304 tubes and connection headers to withstand the normal operating stresses of a correctly installed steam system.

It is important that Steam Heating Coils are installed in accordance with our Installation Instructions otherwise premature failure may occur due to ineffective condensate drainage, "steam hammer", and thermal shock.

APPLICATIONS :

- Grain/seed processing facilities and equipment
- Pulp/paper processing facilities and equipment
- Dairy processing facilities and equipment
- Food processing facilities and equipment
- Power plants
- Heat recovery systems
- Petroleum/chemical plants
- Textile factories
- Pharmaceutical plants

FEATURES :

- Compact in size compared to conventional steam coil
- Extended service life 5-10 years
- High heat transfer co-efficient to achieve temperature in short time.

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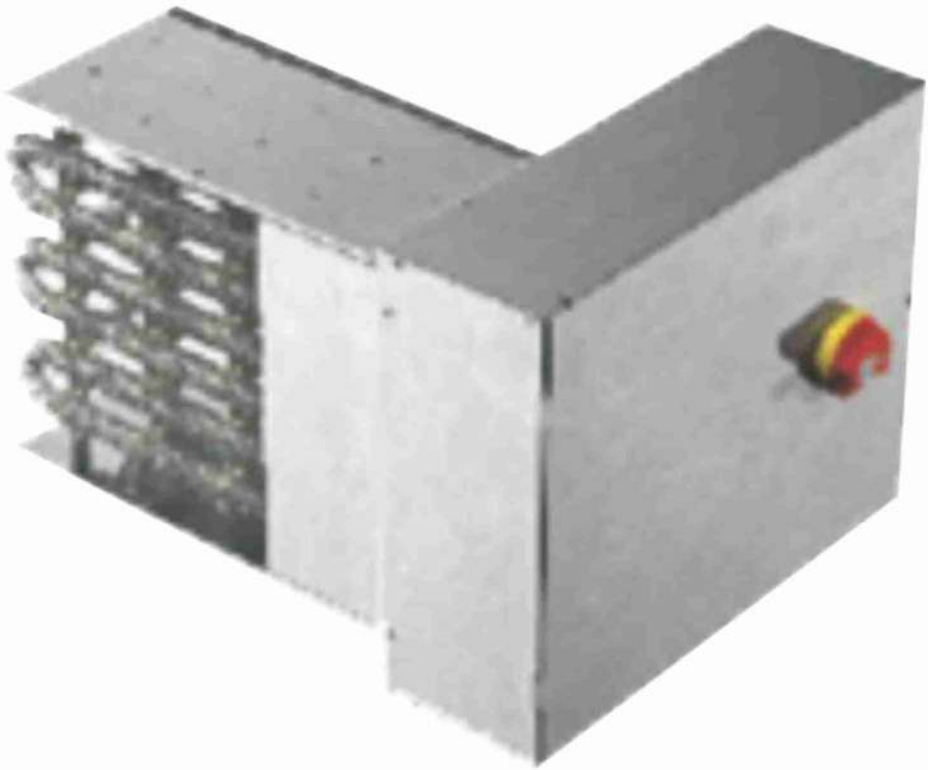
ELECTRIC HEATING COIL



ELECTRIC HEATING COIL

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Electric heaters work by converting electricity into heat via an electric resistor within the unit. An electric current flowing through the resistor then coverts this electric energy into heat energy.

Electric heaters are particularly valued for helping achieve energy efficiency for cold rooms. These devices monitor temperatures and automatically modify heat output accordingly to maintain the ideal temperature of the room. This results to efficient heat transfer without wasting energy as the room or space is only heated for the required times.

APPLICATIONS :

- Aerospace
- Compressor Cooling
- Food & Beverage
- Healthcare
- HVAC
- Petrochemical
- Pharmaceuticals
- Power Generation
- Marine Applications
- Metals & Mining
- Ship construction

FEATURES :

- Air flow cut-off switch
- Automatic, primary thermal cut-off
- Low Cost Investment
- Clean Operation
- No toxic gases
- Compact design
- Easy to install
- Ease of control
- Ozone friendly
- Temperature monitoring and control