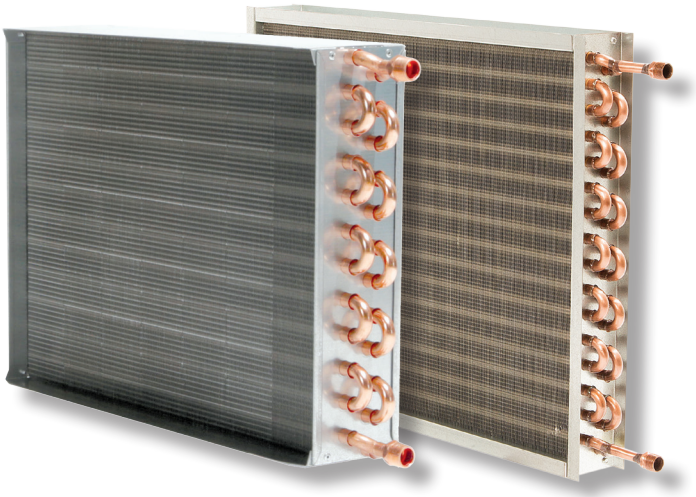
COILMASTER

CMB-112



BOOSTER COILS

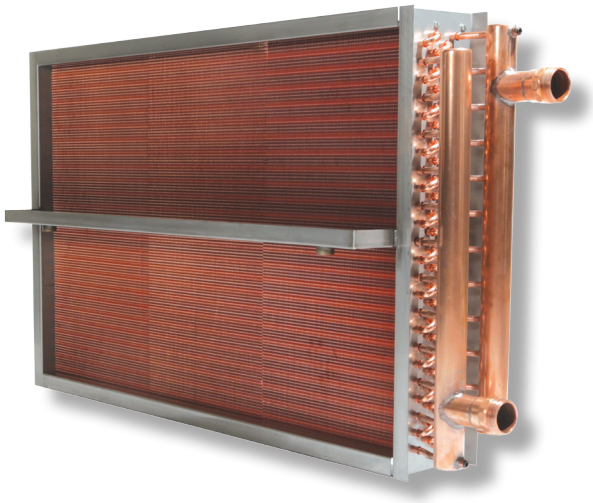
Coilmaster's line of booster coils is designed for hot water or low pressure steam heating. Our pre-engineered 1 and 2 row coils allow us to offer exceptional value and lead times for this product. One day to one week availability ensures that we meet any requirement for these coils. Casing designs allow for either flanged or slip-and-drive installations. If customization is not of primary concern, our booster coils are the ideal solution for many applications.

CONDENSER COILS

Refrigerant condenser coils are used to transfer heat from the refrigerant to the outdoor air. In many cases an integral or dedicated sub-cooler section is used to further cool the refrigerant below saturation. Whether your application requires a single refrigerant circuit, integral sub-cooler or multiple face-splits, Coilmaster can design and build the precise refrigerant heat rejection coil for your application.

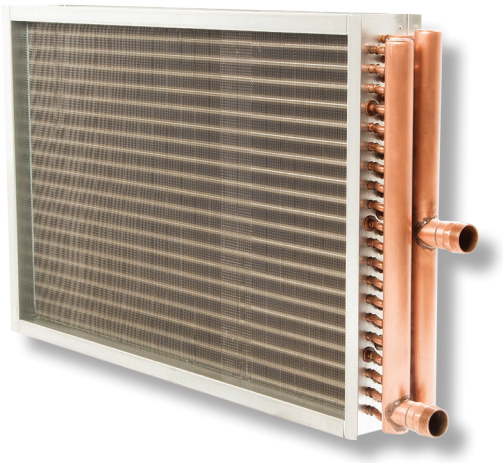
EVAPORATOR COILS

Designed for use in comfort cooling, process cooling and refrigeration, Coilmaster's evaporator coils are proven for use with all of today's refrigerants. Our proprietary circuiting provides for optimal system performance at minimal air-side and refrigerant pressure drops. A variety of load-split options provide the flexibility designers need to optimize the system not only at design conditions, but also when operating at part-load. Coils are easily customized for hot-gas bypass or heat pump usage. Our refrigerant coils have undergone the rigors of cycle testing for use with high-pressure R-410A refrigerant, and are safety listed with a 750 psig rating.



FLUID COILS

Coilmaster's fluid coils are designed for air cooling or heating applications using chilled water, hot water, or brine (e.g., ethylene or propylene glycol mixtures). Counter-flow fluid circuits are designed specifically for the intended application to optimize heat transfer while minimizing fluid pressure drop. Connections are sized to match designed flow rates or existing field locations. Coilmaster coils are all custom circuited to allow for complete drainage with removal of the drain plug. Connection orientations can be tailored to match installation requirements.

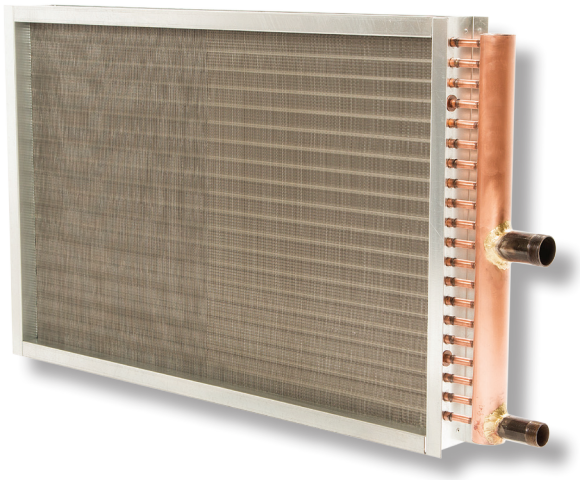


STANDARD STEAM COILS

Utilized as an economical choice for general purpose or process heating, standard steam coils are ideal when inlet air temperatures will not fall below freezing. Our flexibility offers our customers the choice of supply and return connections on the same end or opposite ends of the coil. Additionally, we offer pitched casings to ensure condensate removal for vertical or horizontal air flow. Typical applications include tempering return air, re-heating supply air, process heating, and heating for VAV systems.

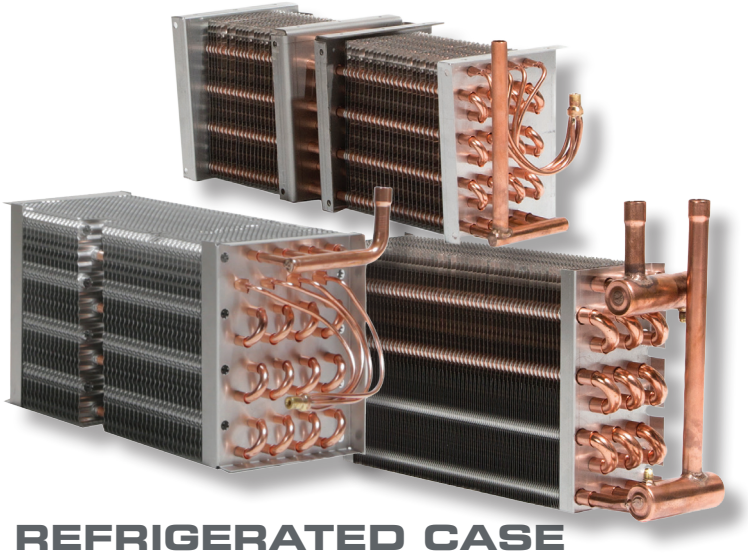
CASED COILS

Coilmaster's cased coils are the most cost effective option on the market for those installations that require a complete coil assembly to reduce field labor costs. Our design incorporates the heating and/or cooling coils into an insulated cabinet, with drain pans, and duct flanges that readily connect to ductwork. This option eliminates the need to fabricate drain pans and provide insulation for coils installed in ductwork. With only coil piping and drain pan connections to make, installation is a breeze for those looking to minimize installation time and cost.



STEAM DISTRIBUTING COILS

Features include the choice of supplying from both ends of the coil, and supply and return connections on the same or opposite ends of the coil. Pitched casings ensure condensate removal and performance reliability for vertical or horizontal air flow. Due to their tube-within-tube design, steam distributing coils provide a level of protection against freezing in low-temp applications. The inner tube ensures live steam the full length of the coil, keeping a constant outside tube temperature under all conditions. Supply pre-heat, outside air tempering, and modulating steam applications are typical uses for steam distributing coils.

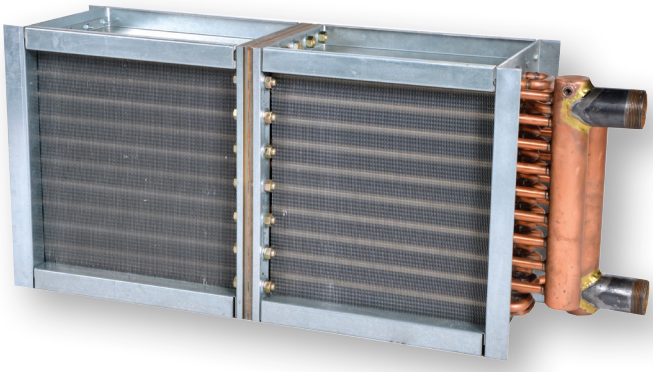


REFRIGERATED CASE COILS

Coilmaster's capabilities go beyond serving the HVAC and process end-use markets. We also are a leading manufacturer of evaporator coils that serve the refrigerated case market for convenience stores and food markets. Our fin spacing capabilities go from 2 to 4 FPI with 3/8", 1/2", and 5/8" tube diameters, with many options such as staggered or staged fins. Our capabilities will meet the requirements of most any case coil design, and our experienced designers are ready to assist in meeting the energy challenges in the refrigerated case industry.

t: 901-877-3333 | f: 901-877-3335 | coilmastercorp.com | sales@coilmastercorp.com
440 Industrial Drive Moscow, TN 38057

SPECIALTY PRODUCTS



SECTIONAL COILS

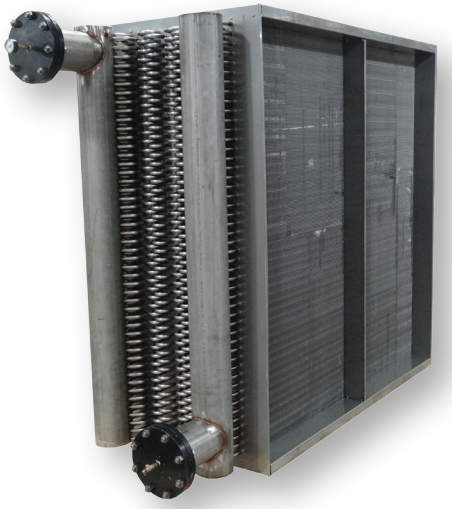
Don't let limited access areas limit your ability to replace a coil. Coilmaster Vari-Length coils are the ideal solution for replacement applications where there is limited access for installation of a full-length coil. This feature allows for shipping the coils in specified lengths that will fit into limited-access areas. The coils are manufactured with heavy steel endplates that are bolted together in the field, and our Sure-Life gasketing ensures leak-free installation.

FLUID COOLERS & REMOTE CONDENSERS

Coilmaster's fluid coolers are the first choice for process cooling, free cooling, and any requirement for closed-loop cooling systems utilizing water or brine. Our units range from 1 to 14 fans, with the choice of single and double-fan width units. Coilmaster's Summit line of condensers are the ideal solution for heat rejection in supermarkets, process applications, chillers, pool dehumidification, and a myriad of other systems. The Summit line covers a range from 4 to 245 tons.

CLEANABLE COILS

For installations that require coils to be cleanable, Coilmaster offers a welded, box-style header that can be located on either end of the coil, or both ends. The design allows the user to remove the headers for cleaning of the tubes by simply removing a pattern of bolts. Our Sure-Life gasketing insures leak-free operation of the coils after maintenance. The design allows the technician full access to the coil tubes for maintenance purposes. The ease of removing the headers assures minimal downtime and maintenance time. Our ingenuity in this design makes it the ideal solution for coils installed in high-maintenance applications.



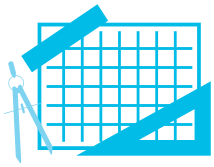
WELDED COILS

For the more industrial applications, Coilmaster's complete offering of welded coils meets the requirements of corrosive environments and elevated pressure and temperature applications. Coilmaster's welded coils use 5/8" OD carbon or stainless steel tubes as the primary heat transfer surface. Options of aluminum, copper, or stainless steel fins in three different corrugations ensure the optimum heat transfer for the particular application.

SERVICES AND CAPABILITIES

ON-SITE MEASUREMENTS

We have a nationwide network of representatives with the experience to help with your coil replacement needs.

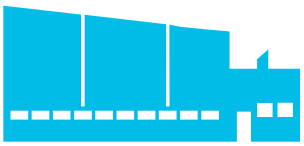


DESIGN AND TESTING

We offer state-of-the-art laboratory and analytical tools. Our 20-ton environmental test chamber is capable of testing water, steam, evaporator, and condenser coils.

24-HOUR EMERGENCY SHIPMENTS

Manufacturing flexibility and rapid response when you need it the most.



CUSTOM ENGINEERING

Our team understands the sustainable factors involved in new product design. We can show the customer realistic performance and animation of the coil so they know what it will look like and how it will function.

DIGITAL PROTOTYPING

In order to save the customer time in design, engineering, and manufacturing, we offer a variety of tools to virtually explore your product before it is ever built.

SCALABLE MANUFACTURING

Coilmaster's scalable manufacturing model allows us to react quickly to new opportunities, while at the same time, maintain focus on our current business, equipment, and space to meet the ongoing demand in a market that is always changing.

EzCoil

EZ COIL™:

EzCoil coil selection software, a Coilmaster Corporation resource offered exclusively to our customers, is a comprehensive and user-friendly coil selection program. It enables first-time users to enter the required parameters, delivering an optimum solution. For coil veterans, it allows for customized circuiting and selection of multiple-fin designs to meet the requirements of the most demanding application. EzCoil offers our customers the ability to generate performance, drawings, and pricing for any operating system. Users with internet connectivity receive automatic updates. This resource assures a user-friendly experience while offering the most cost-effective solution to your heat transfer requirements.

VirtuaLab
POWERED BY COILMASTER

VIRTUALAB™:

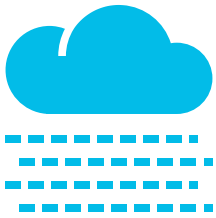
Coilmaster has created a proprietary suite of simulation tools that enables engineers to move beyond standard coil selection software. A detailed tube-by-tube heat exchanger model is the heart of the suite allowing detailed circuiting and airflow distributions to be modeled. The coil simulators allow for variable air flow patterns, dropped tubes, tapered circuits, and even has a qualitative transient frosting model. This detailed coil analysis is incorporated in the extremely flexible system simulation tool. By allowing vapor compression systems to be created via drop-and-drag, the system simulation tool is capable of calculating performance on nearly any type of system.

RESEARCH AND DEVELOPMENT

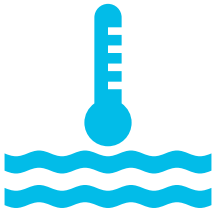
Commissioned in 2010, our coil testing facility is centered on a 20-ton psychometric chamber. The testing facility allows the engineers at Coilmaster to test every type of coil we produce, under all types of conditions, and with a wide range of fluids. This extensive testing results in reliable coils with exceptional performance. Our 20-ton psychometric test chamber capabilities include:

Chamber dry bulb temperatures from
-10°F – 130°F

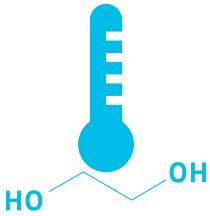
Chamber capacity up to
240,000 Btu/hr



Chamber relative humidity between
20% and 95%

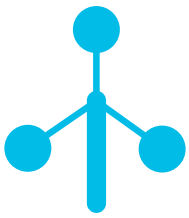


Water inlet temperature range
38°F – 190°F



Glycol temperature range from
20°F – 200°F

Steam inlet pressure range of
1 – 10Psig



Airflow from
200-8000
SCFM

Condenser Capacity up to
10-Tons
(R410a)

Any POE compatible refrigerant
(R410a, R404a...)

Due to continuous product improvement, Coilmaster reserves the right to make design changes and modifications to its products without notice or obligations.

COILMASTER

t: 901-877-3333 | f: 901-877-3335 | coilmastercorp.com | sales@coilmastercorp.com
440 Industrial Drive Moscow, TN 38057