

VOLGA COOLING TECHNOLOGIES-USA
COOLING TOWER, INDUSTRIAL CHILLER, COMMERCIAL CHILLER
HEAT EXCHANGER, COILS, COOLING SYSTEMS, AHU, FCU & HEAT TRANSFER

VOLGA HVAC[®]

COILS PRODUCT PROFILE 2023

A COMPLETE LINE OF OEM AND CUSTOM-BUILT COILS

- CHILLED WATER
- HOT WATER
- DX EVAPORATOR
- HEAT RECLAIM
- CONDENSER: FLAT, L-SHAPE & U-SHAPE
- STANDARD STEAM
- NON-FREEZE STEAM DISTRIBUTING
- BOOSTER/DUCT MOUNTED
- DESATURATION
- RUN-AROUND
- TUBE BUNDLES

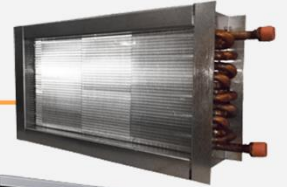


CUSTOM COILS



Built from the highest-grade materials for optimal performance and long-lasting reliability, our custom commercial coils are designed to match every detail of your existing coil.

BOOSTER COILS → Designed for air heating applications using hot water with a variety of casing configurations available, including fully flanged, slip and drive or end plates only.



CHILLED WATER COILS → Tube-and-fin heat exchangers usually consisting of 4–12 rows of tubes that pass through sheets of formed fins bonded through tube expansion. 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. Entering chilled water temperatures range from 40o–55o depending on engineered specifications.



DX EVAPORATOR COILS → Designed to be used in air-side applications for cooling, heating and dehumidifying with various circuiting options, as well as face split and intertwined designs.



STEAM COILS → Designed for medium temperature applications where the entering temperature is approximately 55o or higher, with many material construction options to accommodate all steam pressures.



HOT WATER COILS → Tube-and-fin heat exchangers consisting of 1–4 rows with typical entering water temperatures between 120o–180o. As cold air passes across the coil and contacts the hot fin surface, heat transfer occurs. Construction for hot water coils is the same process as chilled water coils.



STEAM DISTRIBUTION COILS → Also known as non-freeze steam coils, they are designed for low temperature applications with entering air temperatures of 55o or lower. The design consists of one header, a tube-within-a-tube configuration and steam jets that pass the steam from the inner tube to the outer tube. After the steam leaves the inner tube, it condensates and flows back to the return connection. Steam distribution coils are typically manufactured using a pitched casing for optimal condensate flow back to the return connection.



CONDENSER COILS → Built to rigorous specifications for efficient heat transfer that's ideal for outdoor use. We place an emphasis on brazed connections to combat thermal expansion, as well as harsh environments. All feeds have oversized tube sheet holes to allow unrestricted expansion and contraction of the copper tubes, increasing the reliability of our condenser coils. Designed for use with all refrigerants, including HFCs and HCFCs

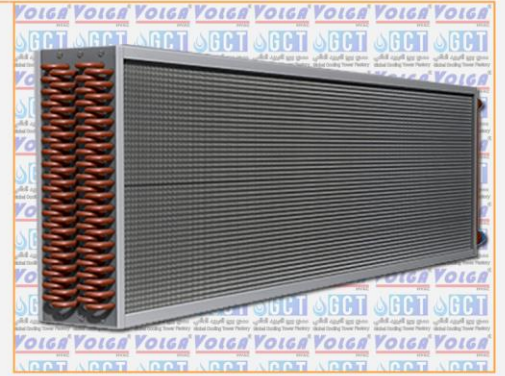


CUSTOM COILS

Chilled Water Coils

Tube-and-fin heat exchangers usually consisting of 4–12 rows of tubes that pass through sheets of formed fins bonded through tube expansion with entering water temperatures ranging from 40° -55°.

Tubes	Fins	Headers	Casing
Materials Copper Cupro-Nickel Stainless Steel	Materials Aluminum Copper Stainless Steel	Materials Copper Cupro-Nickel Stainless Steel	Materials Galvanized Steel Stainless Steel
Sizes 3/8" 1/2" 5/8"	Specifications 3/8": 10-20 FPI 1/2": 6-16 FPI 5/8": 6-14 FPI		
Wall Thickness 3/8" & 1/2" • 0.016 • 0.020 5/8" • 0.020 • 0.025 • 0.035 • 0.049	Fin Thickness • 0.006 • 0.008 • 0.010		



Hot Water Coils

Tube-and-fin heat exchangers consisting of 1–4 rows with typical entering water temperatures between 120° -180°. As cold air passes across the coil and contacts the hot fin surface, heat transfer occurs.

Tubes	Fins	Headers	Casing
Materials Copper Cupro-Nickel Stainless Steel	Materials Aluminum Copper Stainless Steel	Materials Copper Cupro-Nickel Stainless Steel	Materials Galvanized Steel Stainless Steel
Sizes 3/8" 1/2" 5/8"	Specifications 3/8": 10-20 FPI 1/2": 6-16 FPI 5/8": 6-14 FPI		
Wall Thickness 3/8" & 1/2" • 0.016 • 0.020 5/8" • 0.020 • 0.025 • 0.035 • 0.049	Fin Thickness • 0.006 • 0.008 • 0.010		



CUSTOM COILS

Booster Coils

Similar to a hot water coil but without a header. Designed for heating applications with a variety of casing configurations available, including fully flanged, slip and drive or end plates only.

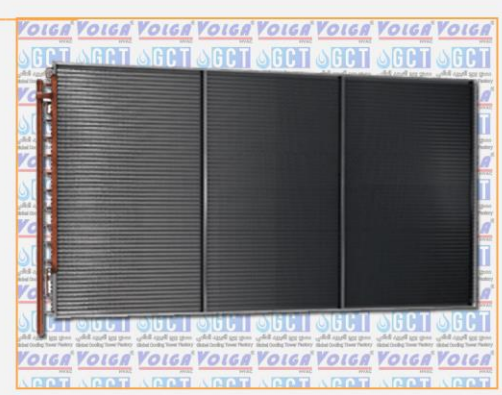
Tubes	Fins	Headers	Casing
Materials Copper Cupro-Nickel Stainless Steel	Materials Aluminum Copper Stainless Steel	Not available on Booster Coils	Materials Galvanized Steel Stainless Steel
Sizes 3/8" 1/2" 5/8"	Specifications 3/8": 10-20 FPI 1/2": 6-16 FPI 5/8": 6-14 FPI		
Wall Thickness 3/8" & 1/2" • 0.016 • 0.020 5/8" • 0.020 • 0.025 • 0.035 • 0.049	Fin Thickness Aluminum • 0.006 • 0.008 • 0.010 Copper • 0.006		



Condenser Coils

Built to rigorous specifications for efficient heat transfer that's ideal for outdoor use. We place an emphasis on brazed connections to combat thermal expansion, as well as harsh environments.

Tubes	Fins	Headers	Casing
Materials Copper	Materials Aluminum Copper	Materials Copper	Materials Galvanized Steel Stainless Steel
Sizes 3/8" 1/2" 5/16"	Fin Thickness • 0.006 • 0.008 • 0.010		
Wall Thickness 3/8" & 1/2" • 0.016 • 0.020 5/16" • 0.016	Copper • 0.006		



CUSTOM COILS

DX Evaporator Coils

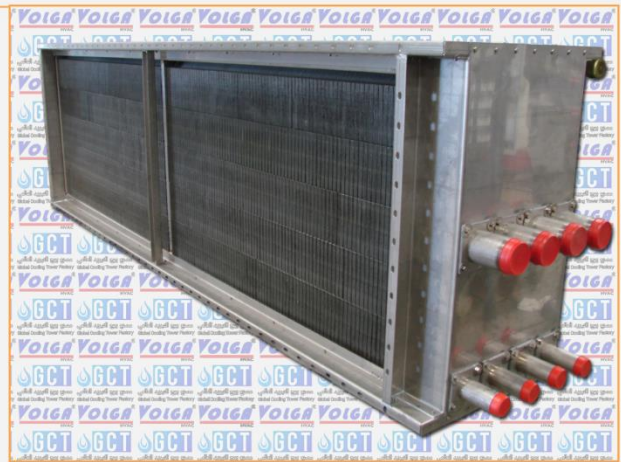
Designed to be used in air-side applications for cooling, heating and dehumidifying with various circuiting options, as well as face split and intertwined designs.

Tubes	Fins	Headers	Casing
Materials Copper Stainless Steel Cupro-Nickel	Materials Aluminum Copper Stainless Steel	Materials Copper Cupro-Nickel Stainless Steel	Materials Galvanized Steel Stainless Steel
Sizes 3/8" 1/2" 5/8" 5/16"	Specifications 3/8": 10-20 FPI 1/2": 6-16 FPI 5/8": 6-14 FPI		
Wall Thickness 3/8" & 1/2" • 0.016 • 0.020 5/8" • 0.020 • 0.025 • 0.035 • 0.049 5/16" • 0.016	Fin Thickness Aluminum • 0.006 • 0.008 • 0.010 Copper • 0.006		



Industrial Coils

Built to withstand harsh environments, our industrial coils are manufactured from thicker, heavier-grade materials. Even in extreme conditions, industrial coils deliver lasting performance.



CUSTOM COILS

Standard Steam Coils

Designed for medium temperature applications where the entering temperature is approximately 55 ° or higher with many material construction options to accommodate all steam pressures.

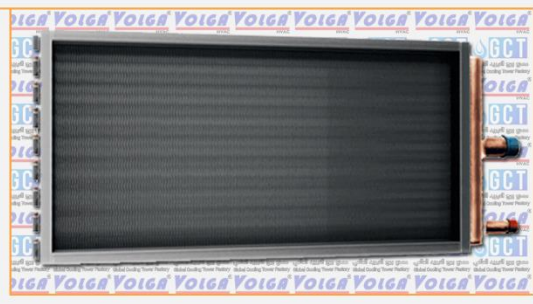
Tubes	Fins	Headers	Casing
Materials Carbon Steel Copper Cupro-Nickel Stainless Steel	Materials Aluminum Copper Stainless Steel	Materials Carbon Steel Copper Cupro-Nickel Stainless Steel	Materials Galvanized Steel Stainless Steel
Sizes 5/8" 1"	Specifications 5/8": 6-14 FPI 1": 6-12 FPI		
Wall Thickness .025": 1-25 PSIG .035": 25-75 PSIG .049": 75-125 PSIG	Fin Thickness Aluminum • 0.006 • 0.008 • 0.010 Copper • 0.006		



Steam Distribution Coils

Also known as non-freeze steam coils, they are designed for low temperature applications consisting of one header, a tube-within-a-tube configuration and steam jets that pass the steam from the inner tube to the outer tube.

Tubes	Fins	Headers	Casing
Materials Carbon Steel Copper Cupro-Nickel Stainless Steel	Materials Aluminum Carbon Steel Copper Stainless Steel	Materials Carbon Steel Copper Cupro-Nickel Stainless Steel	Materials Galvanized Steel Stainless Steel
Sizes 5/8" 1"	Specifications 5/8": 6-14 FPI 1": 6-12 FPI		
Wall Thickness .025": 1-25 PSIG .035": 25-75 PSIG .049": 75-125 PSIG	Fin Thickness Aluminum • 0.006 • 0.008 • 0.010 Copper • 0.006		



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GLOBAL COOLING TOWER FACTORY

MEMBER OF

MOHAMMAD ALSHEHRI GROUP

VOLGA COOLING TECHNOLOGIES

MADE IN SAUDI ARABIA

CERTIFIED

(CTI), (ISO 9001:2015), (ISO 45001:2018), (ASO: QCMS: 1/2020),

(ASO: CSAMS: 1/2021), (ASO: OHSMS: 1/2021) CERTIFICATES.

CONFORM/ DESIGNED VOLGA - HVAC[®] FOR KSA & GCC. COUNTRIES.

2023 CTI, STANDARD – USA.

GLOBAL COOLING TOWER FACTORY.

VOLGA COOLING TECHNOLOGIES.

KSA.



USA.



(ASO: QCMS: 1/2020)



(ASO: OHSMS: 1/2021)



(ASO: CSAMS: 1/2021)



Certified ISO 9001:2015



(ISO 9001:2015)



(CTI)



ISO 9001:2015



ACCREDITED
Management System
Certification Body
MSCB-244

