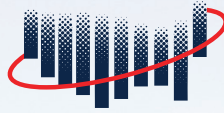


NATIONWIDE COILS™



NATIONWIDECOILS.COM | 1.888.COILPRO



NATIONWIDE COILS™

WELCOME TO THE STANDARD IN CUSTOM AND OEM REPLACEMENT COILS.

Nationwide Coils Inc.™ is a leading commercial HVAC manufacturer and supplier of custom and OEM replacement coils. Founded in 2004 by Ross Stephens, we are headquartered in Westchester, New York, with branches across the U.S. and growing. Serving enterprises large and small, including mechanical contractors, engineers, government organizations and state facilities, Nationwide Coils provides reliable, responsive HVAC support that is vital in today's industry. Our team is available 24/7 and can provide expedited production for emergency and time-sensitive orders.

Our commercial coil manufacturing facilities are proudly based in the U.S. and use only the highest-grade materials, ensuring every coil is manufactured to exceptional standards. Products include hydronic, refrigeration and steam coils, which can be customized to your specific HVAC requirements. Additionally, we can manufacture any replacement coil for all major OEM brands, including Carrier®, Trane®, Lennox®, AAON®, York®, McQuay® and more. For corrosive environments, we offer a range of protective coating options to help prolong the life of your coil.

Nationwide Coils operates under four guiding principles: excellent customer service, quality HVAC products, fair and competitive pricing, and quick lead times. We are accredited with the Better Business Bureau, proudly maintaining an A+ rating.



Globally Recognized. Industry Respected.

A WORLD OF OEM REPLACEMENT COILS

Manufacturing direct replacement OEM coils is a specialty that few coil manufacturers can achieve. The experts at Nationwide Coils can build identical replacement coils based on tube size, circuiting and fins per inch that fit perfectly and match the exact capacity of your existing coil.

Alternatively, we can customize the replacement OEM coil by using superior materials of construction to address frequent operational issues that occur in the field due to a deficiency with the original design.

Nationwide Coils has a comprehensive database of OEM coil drawings created by our team from site visits over time and continues to grow daily. Our library includes a variety of condenser, evaporator, water and steam coils. If, by chance, we do not have a drawing on file, an on-site measuring appointment can often be arranged contingent upon your location.

Next time your commercial OEM rooftop unit, air handler or air-cooled chiller has a need, give us a call before contacting the OEM. We will save you time and money.



Nationwide Coils Inc. provides replacements of OEM coils and is not affiliated with any of the manufacturers listed.



HAVE ALL-ALUMINUM MICROCHANNEL COILS? Upgrade to a copper tube, aluminum fin coil — an efficient, cost-effective way to address the leaking issues that are inherent in OEM MCHX coils.

Converting will make your system more reliable and easier to service, while maintaining the OEM efficiency.

Don't See Your Model Number? Just Ask.



CONDENSING UNITS

ACZ
ALP

CHILLERS

AGZ
ALR

PACKAGED RTUs

Maverick™ MPS (MCHX Conv.)
RoofPak® Series
RPS
RDT
RFS



CONDENSING UNITS

Gemini® Series
38APS (MCHX Conv.): 25-65 tons
38APD (MCHX Conv.): 25-130 tons
38AKS: 12.5-20 tons
38AH: 20-130 tons

RTUs

48/50TJ; 48/50TM
48/50HJ; 48/50HC
48/50TC; 48/50TF

AIR-COOLED LIQUID CHILLERS

30GTN/30GTR
PACKAGED AHUs
40RM/40RR/40RU
Coils: 28N; 28C and more

AIR-COOLED CHILLERS

Aquasnap® Series
30RB: 60-390 tons
30RA: 10-55 tons
Aquaforce® Series
30XA: 80-501 tons



AIR-COOLED CHILLERS

YCAL
YCAS
YCAZ/YCAJ
YCIV YCAV
YLAA (MCHX Conv.)
YVAA/YVFA
YVAA/YLPA

AIR-COOLED CONDENSER

YCUL
YLUA

SPLIT-SYSTEM CONDENSER

YC-YD: 7.5-25 tons

MILLENNIUM™ RTUs

Y12/Y13/Y14
Y22/Y23/Y24
Z2, Z3, Z4: 25, 30 and 40 tons

PACKAGED RTUs

ZJ Predator™ (MCHX Conv.)
ZH Predator™ (MCHX Conv.)
ZF Predator™ (MCHX Conv.)
ZR Predator™



SPLIT-SYSTEM CONDENSER & COOLING

RAUC/RAUB
RAUJ
TTA/TWE

AIR-COOLED CHILLERS

CGAM: 20-130 tons
CGA/CGAF: 10-60 tons
RTAC: 120-500 tons
RTAA 70-125 tons

AHU

M-Series

COILS

COL #s

RTUs

Intellipak™: 20-130 tons
SFHF/SXHG
SAHF/SXHF
Voyager™: 12.5-20 tons
YCD/TCD
YSC/YHC/TSC
Voyager™ Commercial:
27.5-50 tons
YCD/YCH
TCD/TCH
TED/THE



COMMON PACKAGED UNIT Series Prefixes

RK: 2-60 tons RH: 2-60 tons
RF: 40-130 tons RE: 2-63 tons
RM: 2-30 tons RL: 45-240 tons
RN: 6-140 tons



PACKAGED RTUs

Energence®: 3-50 tons
LGH/LCH
Stratos®: 3-24 tons
SGC
SCC
SCA
SCB
SGA
SGB

PACKAGED L-SERIES

LCA/LGA/LHA
LGH E-Series™ Rooftop
LCA/LCB/LCC/LCE
LGA/LGB/LGC/LGE

OLDER UNITS

CHA/GCS

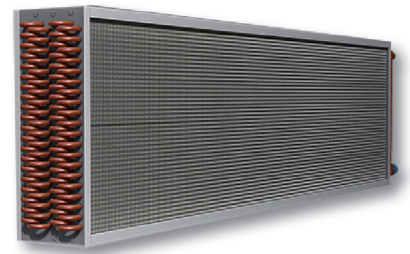


#CHANGETHECHANNEL TODAY To inquire about a microchannel conversion, just provide us with the make and model number of the unit.

This conversion is the answer to failing MCHX coils that cannot be easily repaired, must be changed or need refrigerant continually added to the system to maintain operation during coil failure.

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 40°-55° 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.

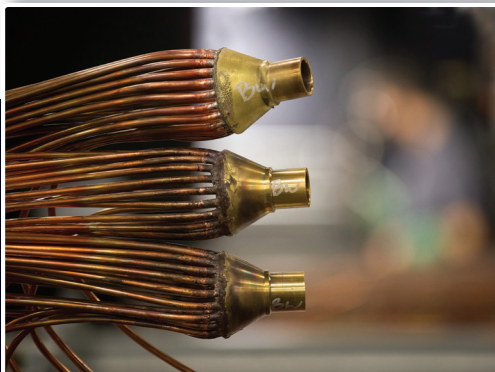
STEAM COILS Designed for medium temperature applications where the entering temperature is approximately 55° or higher, with many material construction options to accommodate all steam pressures.

HOT WATER COILS Tube-and-fin heat exchangers consisting of 1-4 rows with typical entering water temperatures between 120°-180°. 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 55° 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.

SPLIT-FIT™ COILS A reliable, long-lasting solution to replacing coils where access is limited. Long coils are divided into smaller sections that are easily staged and assembled together on-site. Each split between the sections has two divider plates (bolted together as the separate sections are installed) and a specified gasket. Overall dimensions of the original coils are maintained and installation can be completed.

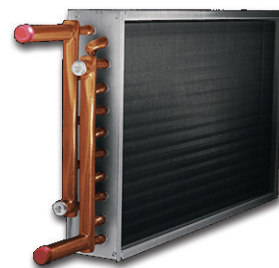


QUICK SHIP Our Quick Ship program allows a quality OEM direct replacement or custom coil to be designed, manufactured and delivered in fast turnaround times, giving you flexibility with every project.

For pricing on our 10-day, 7-day, 5-day, 3-day or emergency production (1 to 2 days), visit nationwidecoils.com or call **1.888.264.5776**.

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



FEATURES & OPTIONS

TUBE SIZE & MATERIALS

- 5/16" OD x .016" wall, copper
- 3/8" OD x .016", .020" wall, copper
- 5/16" and 3/8" OD x .016" wall rifled, copper
- 1/2" OD x .016", .020" wall, copper
- 5/8" OD x .020", .035", .049" copper
- 1" OD x .035", .049" wall, copper
- Cupro-nickel 90/10, carbon steel and stainless steel

HEADERS

- Type L from 7/8"-4 1/8" OD copper

BRAZING

- All joints are hand-brazed
- Dynaflo[®] is standard
- 15% silver solder is optional

FIN MATERIALS

- .006", .008", .010" aluminum
- .006" copper

FIN SPACING (for copper tubes/aluminum fins)

- 5/16" OD tubing, 8-20 fins per inch
- 3/8" OD tubing, 10-20 fins per inch
- 1/2" OD tubing, 6-16 fins per inch
- 5/8" OD tubing, 6-14 fins per inch
- 1" OD tubing, 4-14 fins per inch

ROWS

- Chilled Water Coils: 1-12 rows
- DX Evaporator Coils: 1-12 rows
- Hot Water Coils: 1-12 rows
- Standard Steam Coils: 1, 2 or 4 rows
- Steam Distribution Coils: 1-2 rows
- Condenser Coils: 1-12 rows

CASING MATERIALS

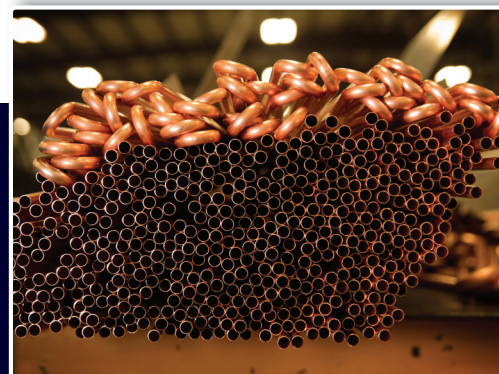
- 16- and 14-gauge galvanized steel
- 16-gauge 304 stainless steel
- .09" copper

OTHER OPTIONS

- Nonstandard casing flange widths and casing depths (offset finpacks)
- Coils with all stainless steel construction (304, 316)
- Coil coatings: Energy Guard, Heresite[®], ElectroFin[®], Blygold[®], etc.
- Additional distributors
- Nonstandard circuiting
- Intertwined circuiting (DX only)
- Turbulators for glycol/water coils
- Optional seamless rifled tubing
- Insulated coil sections
- Hot gas bypass distributors for DX Evaporator coils

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.

Standard and custom designs are available for new and retrofit installations.



WALL THICKNESS (inches)	TUBE DIAMETER (inches)				
	5/16	3/8	1/2	5/8	1
.016	✓	✓	✓		
.020		✓	✓	✓	
.025				✓	
.035				✓	✓
.049				✓	✓
FIN MATERIAL					
Aluminum	✓	✓	✓	✓	✓
Copper			✓	✓	
FINS PER INCH (FPI)					
Minimum	8	10	6	6	4
Maximum	20	20	16	14	14
FIN TYPE					
Sine wave		✓			✓
Lanced	✓	✓			
Corrugated			✓		
Flat		✓		✓	
CONNECTION SIZE (inches)					
Minimum	0.5	0.5	0.5	0.5	0.5
Maximum	4.0	4.0	4.0	4.0	4.0
FIN HEIGHT (inches)					
Minimum	5.0	5.0	5.0	4.5	6.0
Maximum	96	120	120	120	96
Increments of	1.0	1.0	1.25	1.5	3.0

TUBE DIAMETER (inches)	FIN MATERIAL	
	ALUMINUM	COPPER
5/16	✓	
3/8	✓	
1/2	✓	✓
5/8	✓	✓
1	✓	
FIN THICKNESS (inches)		
.006	✓	✓
.0075	✓	
.008	✓	
.010	✓	
FIN TYPE		
Sine wave	✓	5/8 in. only
Lanced	5/16 and 3/8 in. only	
Corrugated	1/2 in. only	
Flat	✓	

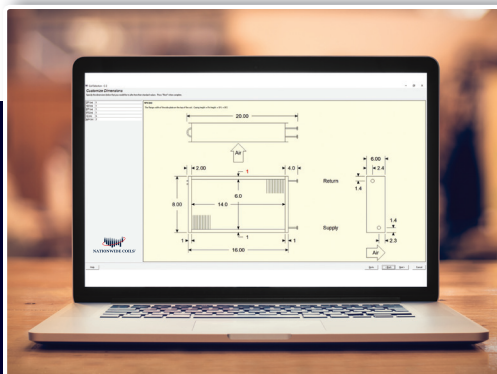
CONNECTION TYPE		CONNECTION MATERIAL
FPT (Female pipe thread)	Sweat	
MPT (Male pipe thread)	Victaulic	Copper
		Steel

CASING MATERIAL*	
STANDARD	OPTIONAL
16-gauge galvanized steel	14-gauge galvanized steel
N/A	16-gauge stainless steel
N/A	.09-inch-thick copper

CASING TYPE
Standard (stacking flange)
Standard booster (1-in. flange)
Slip and drive
End plates only
Pitched
Inverted supply-end flange
Inverted S.P. flange

REFRIGERANT TYPE
R-22
R-134a
R-404A
R-407C
R-410A
R-502

*Drain pans available: SS or GALV STL



COIL SELECTION SOFTWARE To access our coil selection software, visit the **Toolbox** at nationwidecoils.com. Use of the self-explanatory software will guide the user in proper sizing and feature selection.

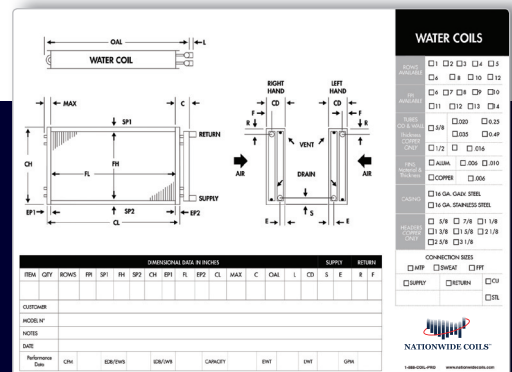
	COIL TYPE (style)							
	Custom						Booster	
	Chilled Water	Hot Water	DX Evaporator	Condenser	Standard Steam	Steam Distribution	Hot Water	Standard Steam
TUBE DIAMETER (inches)								
5/16			✓	✓				
3/8	✓	✓	✓	✓				
1/2	✓	✓	✓	✓				
5/8	✓	✓	✓	✓	✓	✓	✓	✓
1					✓	✓		
ROWS								
Minimum	1	1	1	1	1	1	1	1
Maximum	12	12	12	12	2*	2*	2	2
FIN HEIGHT (inches)								
Minimum	Fin height is dependent on tube diameter (see Tube Diameter chart on opposite page).						6	6
Maximum							24	24
Increments of							3	3
FIN LENGTH (inches)								
Minimum	Minimum fin length is 1 in.						6	6
Maximum	Maximum fin length is 200 in. (144 in. of steam) w/ center supports every 50 in. Condenser coils exceed 200 in.						48†	48†
Increments of	No restriction on fin length increments.						1	1
RECOMMENDED FACE VELOCITY (FPM)								
Minimum	400	500	400	600	500	500	500	500
Maximum	550	800	550	750	850	850	800	850
RECOMMENDED FLUID VELOCITY (FPM – for water coils)								
Minimum	1.5	1.5	N/A	N/A	N/A	1.5	.5	3
Maximum	4.0	4.0	N/A	N/A	N/A	4.0	4	3
RECOMMENDED PRESSURE DROP (ft. of H2O or PSI)								
Minimum	1	1	2	2	1	1	1	1
Maximum	20	10	12	12	125‡	125‡	10	125‡

*1-inch tube diameter has maximum of one row available.

† Booster coil fin lengths are dependent on fin height.

‡ Higher steam pressure will require thicker tube walls or different materials of construction.

COIL DRAWING WORKSHEETS Access the **Toolbox** at nationwidecoils.com for our blank worksheets, a helpful tool for recording coil construction details when sizing and ordering replacement coils.



THERMICOIL™ INSULATED COIL SECTION

ThermiCoil insulated casings are suitable for refrigerant and hydronic applications and can accommodate a wide range of airflows. They address the needs of buildings with strict indoor air quality standards, such as schools, restaurants, healthcare and pharmaceutical manufacturing facilities and many more. The ThermiCoil design is often applied to provide additional cooling to an existing HVAC system. They can provide incremental cooling capacity without an expensive upgrade to rooftop or air handling units. Every coil is leak tested under water with 450 PSIG dry nitrogen for quality assurance.

STANDARD BOX CONSTRUCTION

- 16- and 18-gauge galvanized sheet metal housing (unpainted)
- 1" insulation, 4.2R valve
- 18-gauge stainless steel drain pan
- 1" stainless steel MPT drain pan connection
- Offset fin pack to maximize performance and drainage
- 1 ½" duct flanges on entering and leaving air side of coil housing
- 5" connection stub-outs on all coil models
- Double-pitched drain pan to prevent standing water
- Individual connection covers and gaskets minimize airflow through casing connection holes

CUSTOM SIZES AVAILABLE

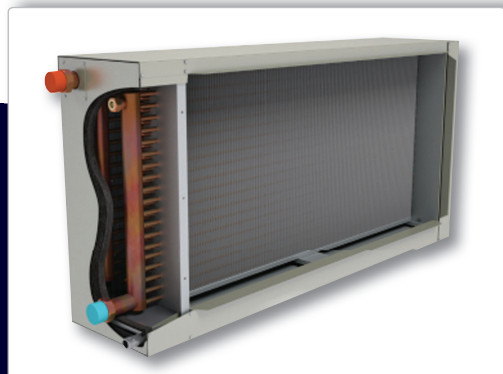
- 5/8" Tube Diameter
Fin height = 12" to 54" at 1 ½" increments
Fin length = up to 90"
- 1/2" Tube Diameter
Fin height = 10" to 55" at 1 ¼" increments
Fin length = up to 90"
- 3/8" Tube Diameter
Fin height = 10" to 55" at 1" increments
Fin length = up to 90"
- 5/16" Tube Diameter
Fin height = 10" to 55" at 1" increments
Fin length = up to 90"

THERMICOIL OPTIONS

- Double-wall construction
- Stainless steel housing

ADVANTAGES

- *Insulation is not exposed to airstream; discourages mold growth.*
- *Integral dual-sloped drain pan for drainage of condensate and improved air quality.*
- *Stainless steel drain pan and coil supports to resist rusting from condensate.*
- *Better quality and reliability than field-built coil boxes.*
- *Ease of installation through attaching ductwork directly to the ThermiCoil casing flanges.*
- *Wide range of custom sizes and optional heating coils can be added for dehumidification.*



CUSTOMIZED THERMICOIL We offer ThermiCoil in a broad range of custom sizes and options, so you can match it exactly to your needs. Intermediate drain pans, multiple coils and other special options are also available.

CORROSION-PROOF COATING

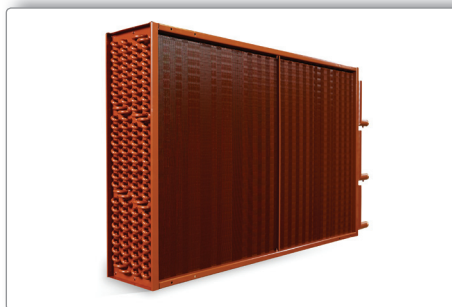
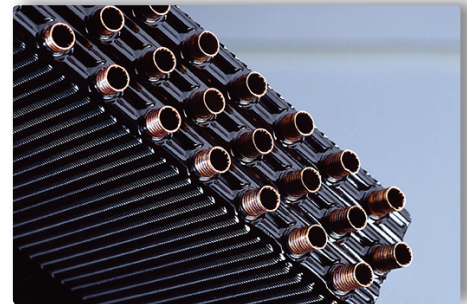
Over time your HVAC equipment will naturally corrode due to environmental or galvanic corrosion. The deterioration factor will degrade the performance of your HVAC equipment starting day one, which results in increasing energy and maintenance costs. Safeguard your HVAC equipment long term and save money with these protective coating options.



In the application process, it is vital that the coating adhere to the aluminum surface. Energy Guard offers an EGuard Fin Primer that makes the difference. Additionally, the EGuard DCC Green and DCC Aluminum coatings both contain 30% aluminum, improve heat transfer and are tested for 10,000-12,000 salt spray hours. They are environmentally friendly and improve energy efficiency.

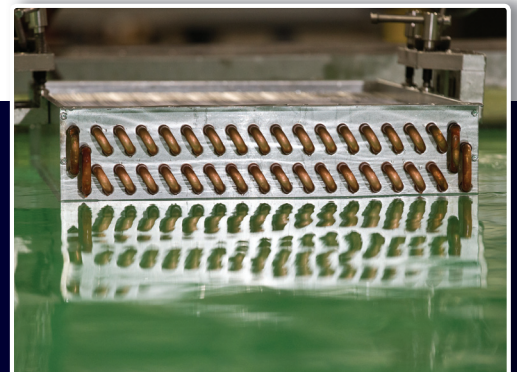
ELECTROFIN[®]

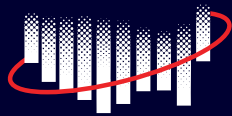
The ElectroFin coating method involves a deep cleaning process before the coils are coated. It is followed by their exclusive curing technique that results in microthin, even coverage that is hard yet flexible. This is an ideal option for coastal and offshore environments, as well as industrial areas with high humidity and aggressive atmospheres.



P-413 Baked Phenolic Epoxy: A thin film (25 microns), high-performance coating used principally for coil and radiator heat exchangers, as well as other air- and fume-handling equipment fabricated of light-gauge metals. P-413 is the first HVAC-R coil and radiator coating to meet the ISO 12944-9 Standard (formerly the ISO 20340 Standard) for severe offshore marine environments. UV protection and water exposure add-ons are available.

COATING QUESTIONS? Please inquire with us directly regarding any coating questions or for information on additional coating options and recommendations.





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