



AirEx ARX

AIR COOLED HEAT EXCHANGERS

AirEx ARX Heat Exchangers

When you're looking for a compact, well-constructed, dependable air cooled unit, turn to AirEx ARX.

FEATURES INCLUDE:

- Non-louvered fin design provides high heat transfer rates, prevents clogging and is easy to clean
- Low noise options offer slower fan speeds for reduced noise level and lower fan hp requirements
- Thermally efficient. Up to 65% smaller than fin tube designs
- Rugged bar and plate construction

We have the broadest range of heat exchangers to choose from to suit your application. For assistance in determining the appropriate design for your application, contact your Standard Xchange representative.

SPECIFICATIONS

Ratings

Max. Working Pressure (ARX5 through ARX130).....377 psi

Max. Working Pressure (ARX160 through ARX275) ...250 psi

Max. Working Temperature 250°F

Materials

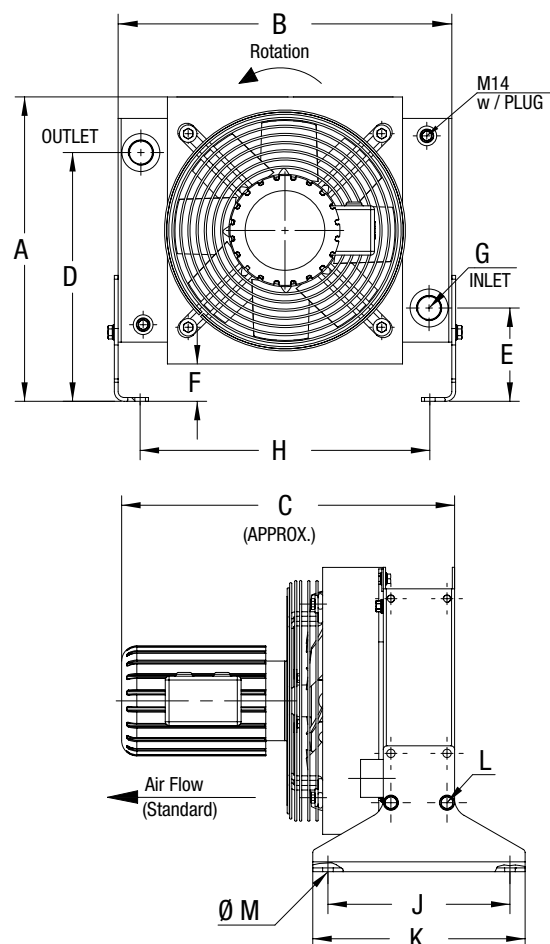
Cooler..... Aluminum

Shroud..... Powder, Painted Steel

Fan Guard Zinc, Plated Steel

Fan Blade Polypropylene Blades / Aluminum Hub

Mounting Brackets..... Powder, Painted Steel



ARX/ARXL SERIES DIMENSIONS

Model Size	A	B	C (Approx.)	D	E	F	G	H	J	K	L	M
ARX/ARXL5	13.74	13.78	12.56	11.38	4.37	1.97	#12 SAE 1 1/16-12 UN-2B	11.93	7.09	8.66	M6-1 X12MM Bolt (4 PL)	Ø 0.55
ARX/ARXL8	14.25	13.78	13.27	11.85	4.84	2.48	#12 SAE 1 1/16-12 UN-2B	11.93	7.09	8.66		Ø 0.55
ARX/ARXL10	15.91	15.75	14.50	12.54	4.87	1.50	#16 SAE 1 5/16-12 UN-2B	13.86	7.09	8.66	M8-1.25 X16MM Bolt (4 PL)	Ø 0.55
ARX/ARXL15	15.91	16.54	16.00	12.15	5.26	1.50	#16 SAE 1 5/16-12 UN-2B	14.65				Ø 0.55
ARX/ARXL20	19.6	21.65	15.50	16.24	4.87	1.50	#20 SAE 1 5/8-12 UN-2B	19.76				Ø 0.55
ARX/ARXL30	24.03	25.59	16.75	20.63	4.88	1.50	#20 SAE 1 5/8-12 UN-2B	23.70				Ø 0.55
ARX/ARXL40	24.03	26.38	18.00	17.68	7.84	1.50	#20 SAE 1 5/8-12 UN-2B	24.49	10.24	11.81	M10-1.5 X20MM Bolt (8 PL)	Ø 0.55
ARX/ARXL55	25.89	30.31	19.50	19.50	7.84	1.50	#20 SAE 1 5/8-12 UN-2B	28.32	10.24	11.81		Ø 0.55
ARX/ARXL70	30.19	36.22	21.80	23.00	10.69	1.50	2" SAE 4-Bolt FLANGE	34.22	21.10	22.64	M12-1.75 X25MM Bolt (8 PL)	Ø 0.55
ARX/ARXL90	30.19	37.01	23.30	21.00	10.69	1.50		35.01	21.10	22.64		Ø 0.55
ARX/ARXL105	33.26	38.98	23.40	24.07	10.69	1.50		36.98	21.10	22.64		Ø 0.55
ARX/ARXL130	37.56	40.94	25.10	29.27	9.80	1.50		39.06	21.10	22.64		Ø 0.55
ARX/ARXL160	38.40	43.62	29.50	31.27	9.94	2.00	3" SAE 4-Bolt FLANGE	40.17	14.72	17.72	3/4-10 x 1.75 Bolt (8 PL)	Ø 0.75
ARX/ARXL215	46.96	49.49	30.80	36.03	12.73	2.00		48.22	15.70	18.70		Ø 0.75
ARX/ARXL275	59.76	53.68	30.70	43.62	17.56	2.00		50.34	17.67	20.67		Ø 0.75

Dimensions are in inches. We reserve the right to make reasonable design changes without notice. Weights are in pounds.



FanEx[®]

AIR COOLED HEAT EXCHANGERS

Air Cooled Heat Exchangers

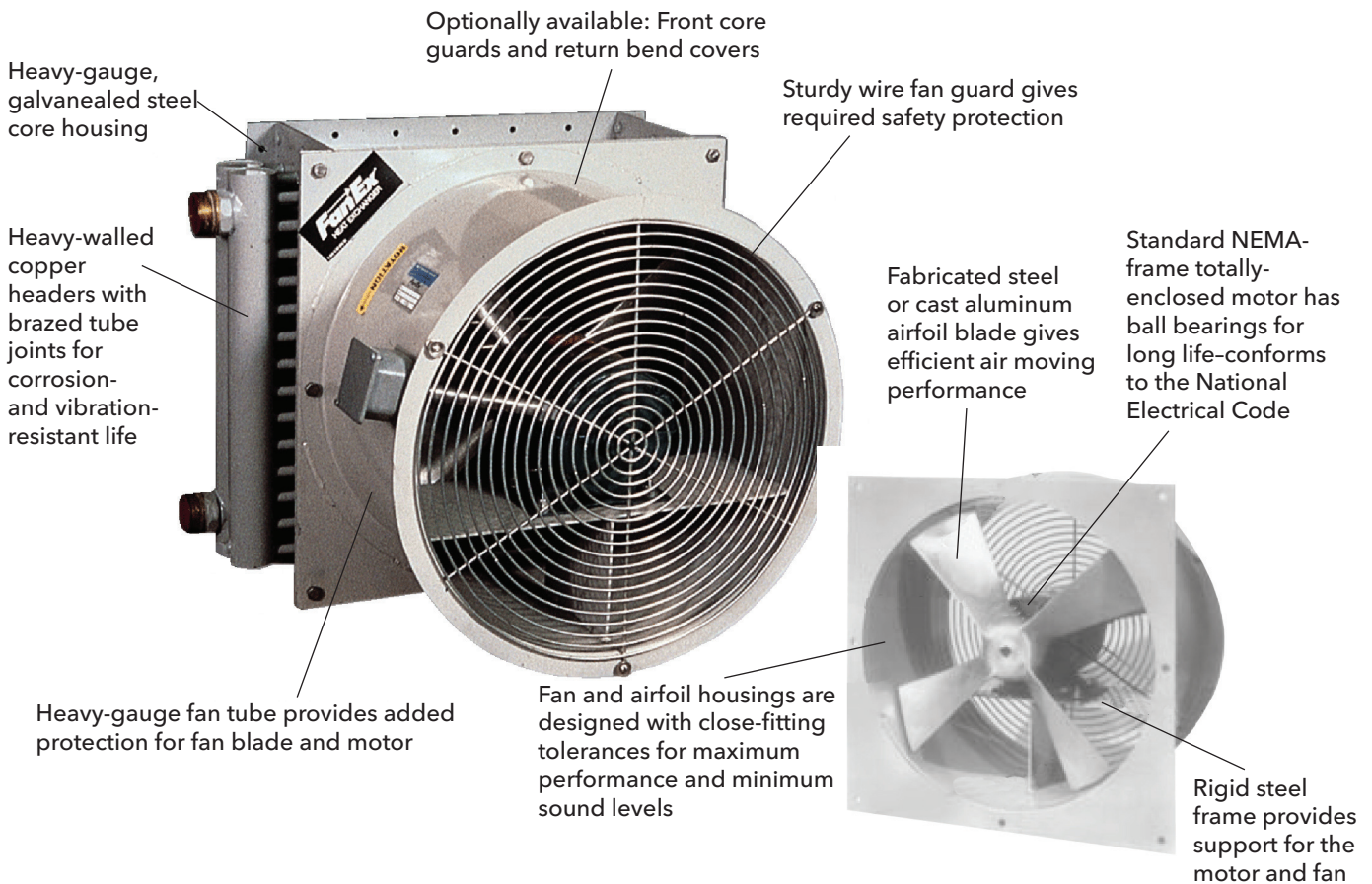
AIR TO OIL (MODEL F700)

AIR TO WATER/GLYCOL (MODEL F740)

When you need a compact and dependable air cooled unit, select the FanEx unit from Standard Xchange, the best known name in heat transfer.

FanEx units feature electric motor driven fans constructed with quality TEFC Motors. Fans are attached to the plate fin cooling core. The core is constructed of die formed aluminum plate fins and seamless copper tubes.

FanEx provides you with the self-contained heat transfer package ready for you to make your fluid and electrical connections.



HEAT EXCHANGERS CUT COSTS

FanEx heat exchangers are your best choice when you need dependable cooling. They're from Standard Xchange ... the best known-name in heat transfer.

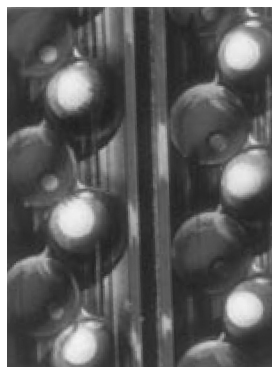
FanEx units allow you to:

- Locate your cooler in a convenient location when cooling water piping is not located nearby.
- Control viscosity in hydraulic systems thereby promoting longer life of component parts. In similar fashion units can be used for controlling viscosity of oils in lubricating oil systems.
- Design a closed cooling system.

FANEX MEANS RUGGED EFFICIENCY

Tough, heavy-gauge construction... with copper tubes and headers ... rigid steel frame ... all give you a fluid cooler that keeps on doing the job in your demanding day-to-day plant operating environment. Models F700 for air/oil applications with amaspher turbulence. Models F740 for air/water applications.

AMASPHER TURBULATION: THE SECRET OF BETTER OIL COOLING

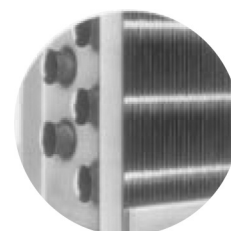


In an "ordinary" cooling core, oil flowing next to the inside wall of the tube cools more rapidly than the oil flowing down the center of the tube. To be most efficient, heat exchanger tubes must contain special devices - "turbulators" - to mix the warmer oil in the tubes' center with the cooler oil at the inside tube wall.

Our unique patented, laboratory-tested Amaspher turbulators are hollow metal spheres, randomly inserted in FanEx heat exchanger tubes. They tumble the oil over itself (like pebbles in a brook), cooling more efficiently and making your FanEx unit more compact.

Available in F700 Air/Oil units

Aluminum plate fins with rugged 1/2" seamless copper tubes produce maximum heat transfer with minimum airside pressure loss.



SPECIFICATIONS

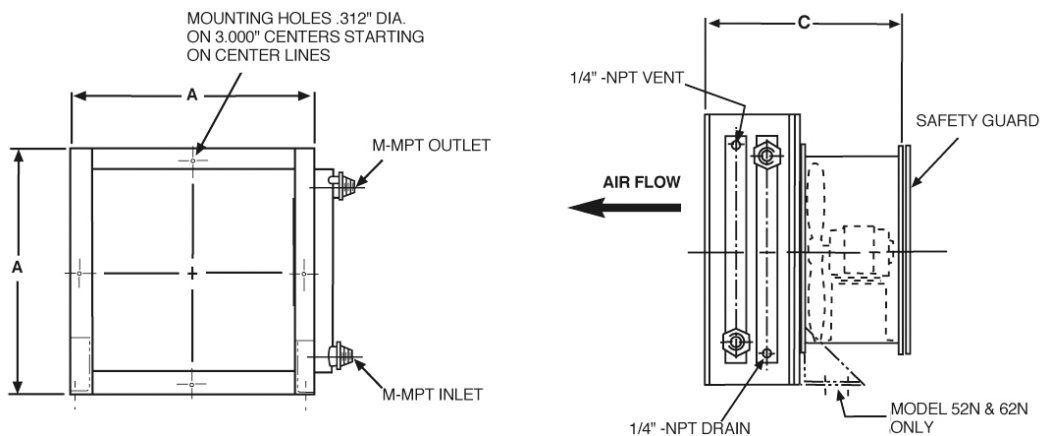
Materials

Plate fins	Aluminum*
Tubes	1/2" OD Seamless Copper*
Headers	Copper*
Core Housing	Galvanealed Steel
Motor Support	Steel
Working pressure	200 PSI
Maximum Temperature	350°F

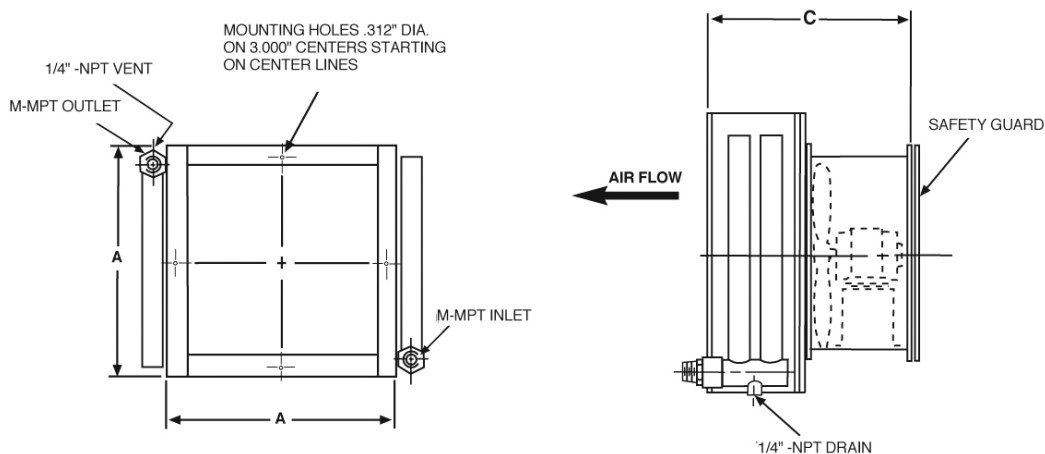
***Note:** Units are furnished with copper tubes, however, 90/10 CuNi, 316L SS and steel are also available. In similar fashion, standard fin material is aluminum, however copper fins can be provided. Coils can also be coated with a baked phenolic material and can be provided with flanged connections.

SIZE	MOTOR		HEIGHT A	DEPTH C	FANEX F-700 MODEL	M MPT	FANEX F-740 MODEL	M MPT	APPROX. UNIT WT/LBS.
	FAN HP	RPM							
15	1/2	1750	18	19.9	15L	1	—	—	80
15	1/2	3450	18	21.9	15H	1¼	—	—	96
17	1/3	1750	20.5	22.0	17H	1½	—	—	112
22	3/4	1750	25.5	21.9	22H	1½	224	1 1/2	152
27	1	1750	30.5	22.9	27H	2	274	1 1/2	190
32	2	1750	35.5	24.5	32N	2	324	2	256
37	2	1750	40.5	25.0	37N	2	374	2	334
42	5	1750	45.5	25.0	42N	2	424	2	400
47	5	1750	50.5	27.0	47N	2	474	2	500
52	5	1750	55.5	31.3	52N	2	524	2	600
62	7.5	1160	65.5	32.8	62N	2	624	2 1/2	800
32H	7.5	1750	35.5	24.5	32H	3	—	2 1/2	264

MODELS 15 THROUGH 62

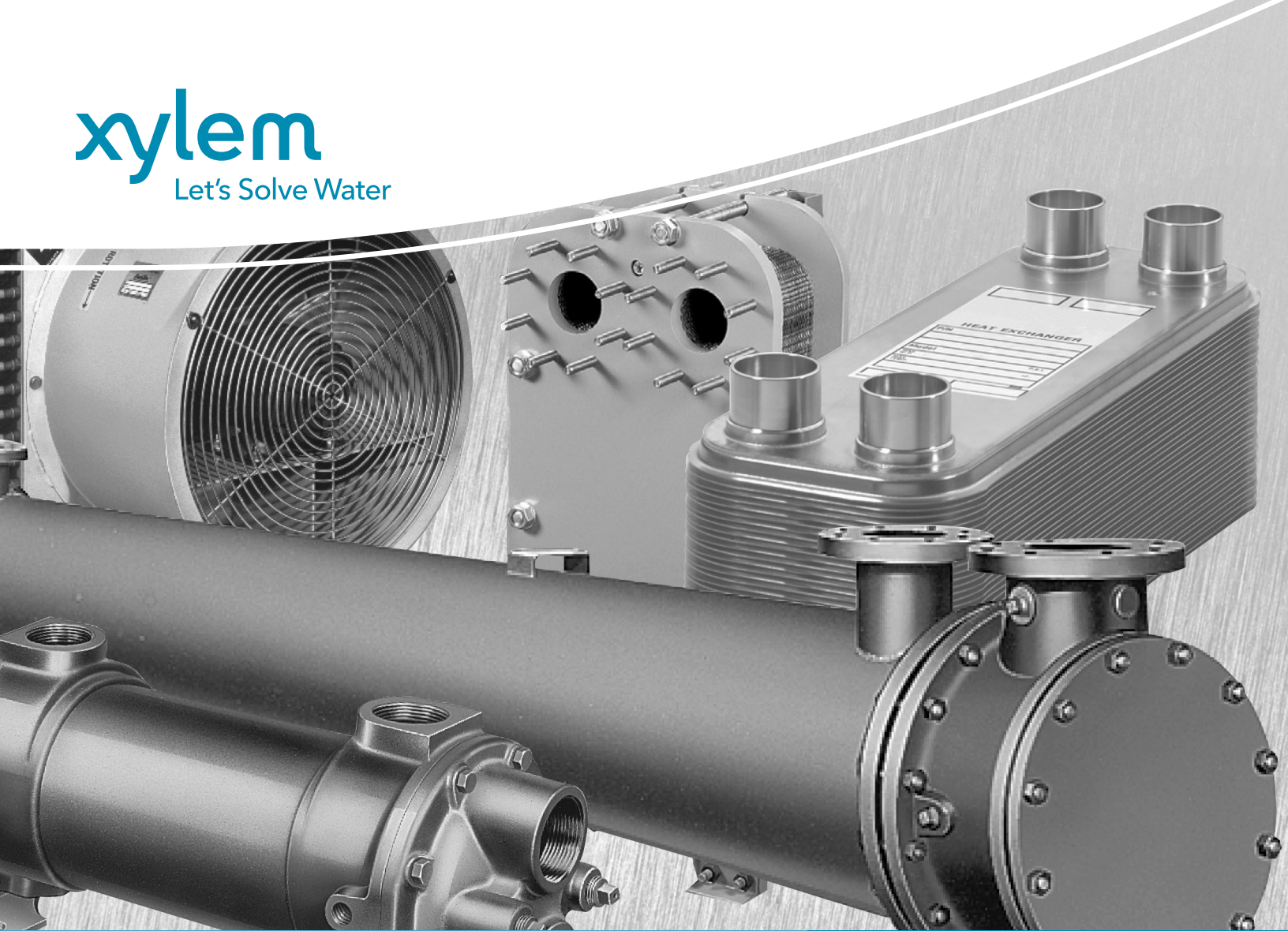


MODEL 32H (ONLY)



Xylem
www.xylem.com/standardxchange

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Heat Transfer Equipment

THE BROADEST SELECTION AVAILABLE FOR GENERAL HEATING AND COOLING.

PRE-ENGINEERED FOR GENERAL APPLICATIONS



BCF/HCF®

Pre-engineered fixed tubesheet construction made with cast iron and copper alloys. Shell diameters in 2" through 8" with 1, 2, or 4 pass configurations.

Applications: To heat or cool water or lube oil; condense steam. Use for auxiliary machinery, turbines, engines, compressors and lasers. Excellent choice for pilot plants.

SSCF®

Pre-engineered fixed tubesheet construction made with fluid surfaces in SS316. Shell diameters in 2" through 8" with 1, 2, or 4 pass configurations.

Applications: For heating or cooling corrosive fluids in chemical, pharmaceutical or refining processes.

SX2000®

Pre-engineered fixed tubesheet construction made with cast iron, steel and copper. Shell diameters in 3" through 8" with 1, 2, or 4 pass configurations.

Applications: To cool lube oil, fluids or jacket water, and for use where copper is not practical.

B300/SX2000U

Pre-engineered U-tube construction made with cast iron, steel and copper. Shell diameters in 3" through 8" with 1, 2, or 4 pass configurations.

Applications: For heating water or other fluids, using steam or hot water as the heating medium.

**We'll be happy to customize
a heat exchanger design to
meet the precise needs of
your application.**

CUSTOM FOR PROCESS APPLICATIONS

C100®

External packed floating head allows differential thermal expansion between shell and tubes. No packing is exposed to tube side fluid. Large entrance area enables easier maintenance of removable tube bundle. 1-, 2-, 4- or 6-pass models. Meets ASME code and TEMA Types BEP/AEP. Shell sizes: 5" – 60"

Applications: For tube side circulation of corrosive liquids, high-fouling fluids, or gases and vapors.

C200®/C210

Fixed tubesheet with removable channel or bonnet. Maximum heat transfer area in a given shell size. Available with shell expansion joint if desired. 1-, 2- 4- or 6-pass models. Accessible tube side makes cleaning easier. Meets ASME code and TEMA Types BEM, AEL/NEN. Shell sizes: 5" – 60"

Applications: For heating or cooling oil, water and chemical process fluids.

C300®, C320 AND C330

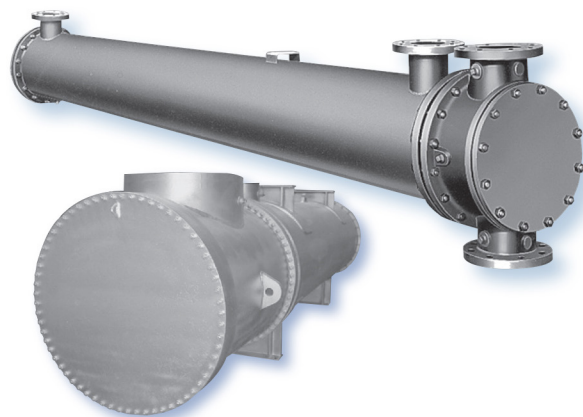
U-type, removable-bundle design allows wide variation in fluid temperature, withstands thermal shock better. 2-, 4-, or 6-pass models. Most economical basic shell and tube configuration. Meets ASME code and TEMA Types BEU/AEU. Shell sizes: 5" – 60"

Applications: For heating or cooling oil, water and process fluids or condensing process steam or vapor.

C400®

Straight tubes, internal bolted floating head cover, removable tube bundle. No special provisions needed for expansion. Meets ASME code and TEMA Types BEU/AEU. Shell sizes: 5" – 60"

Applications: For heating or cooling chemical or hydrocarbon fluids; condensing air or gases.



C500®

Straight tubes, internal clamp-ring floating head cover. Tube bundle is removable for easy cleaning. Offers more surface per given shell and tube sizes than C400 or C100. Meets ASME code and TEMA Types BES/AES. Shell sizes: 5" – 60"

Applications: For the most rugged process plant service, including heating or cooling petrochemicals or condensing vapors.

CPK

Flexible design with packed floating tubesheet, removable tube bundle. Wide choice of materials, components, and nozzle orientations. Meets ASME Code and TEMA. Shell sizes: 5" – 31"

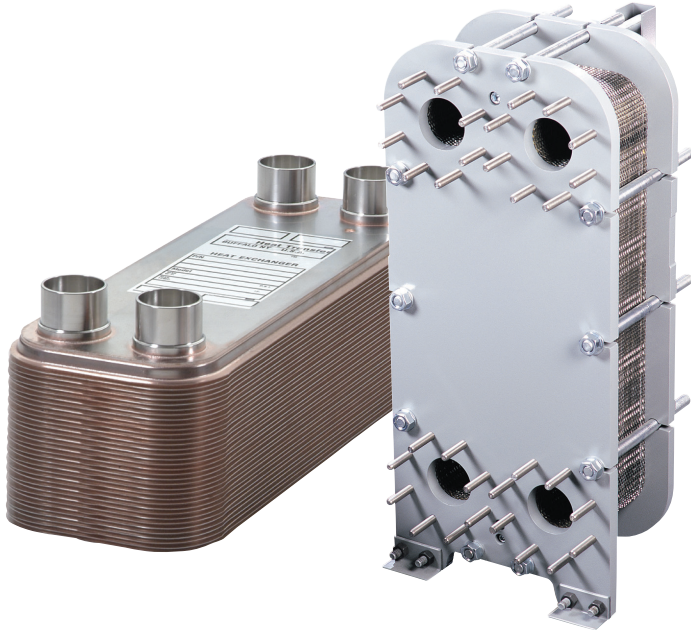
Applications: Heat or cool electrolyte, condensate, brine, boiler blowdown or hydraulic, turbine, and compressor oils/fluids.

S1000® AND S1000R®

Single-bank, balanced-flow packaged steam condensers. Low pressure drop over tubes and large entrance area to tube bank. Furnished with packaged air removal and/or other associated equipment. Shell sizes: 15" – 60"

Applications: For condensing steam from refrigeration machines, compressors, auxiliary generator drives, pump or blower drives.

PLATE OR BRAZED



BRAZEPAK®

Vacuum brazed with stacked plate construction with SS316L plates copper brazed and options for nickel brazing. Connection sizes 3/4" through 4". Both single wall and double wall options available.

Applications: For general purpose oil, water and gas cooling. Use on compressors, hydraulic packages, lasers and diesel engines. Ideal for refrigerant evaporators, condensers, chillers or air dryers.

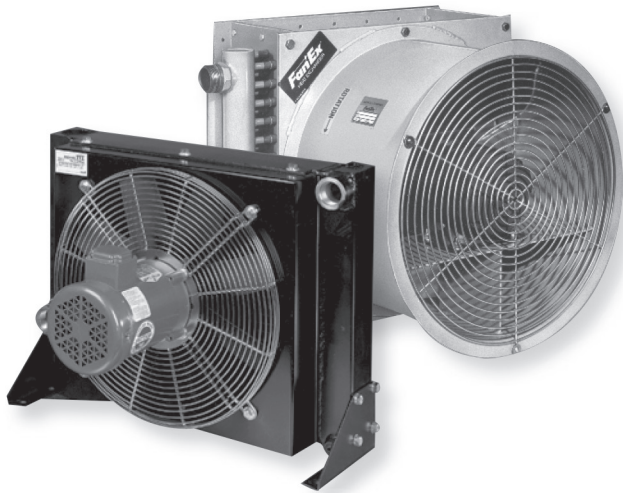
PLATEFLOW®

Gasketed stacked plate construction with plates in SS304 and SS316, titanium and other nickel alloys. Wide gap, semi-welded, and double wall designs in addition to traditional single wall configuration. Nitrile, EPDM, and viton gaskets options are available. Connection sizes 1" through 26".

Applications: For close temperature control of fluids for heat recovery applications.

As the recognized leader in heat exchanger products, systems and technology, Standard Xchange has been providing state-of-the-art solutions to heat transfer problems for more than 100 years.

AIR / COOL



AIREX™

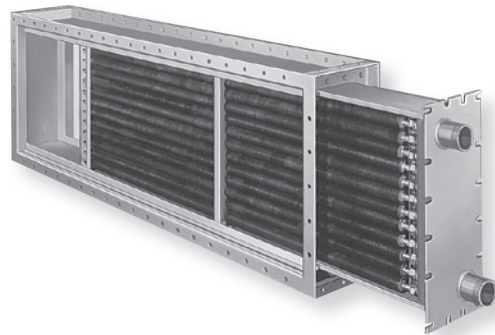
Rugged vacuum brazed aluminum bar and plate construction. Connection sizes ranging from 1-5/16" through 3". Options available offering reduced fouling for dirty environments.

Applications: Oil cooling with air, where compact size and rugged construction are a must.

FANEX®

Heavy duty copper tube aluminum plate fin construction with options for stainless steel tubing. Connection sizes ranging from 1" through 3". Options available for air to air to water service.

Applications: For cooling oil or other fluids with air, where compact size, cooling efficiency, safety and quiet operation are important.



HEAVY DUTY HEATING COILS

Type UH, UG, MP and Z coil heat with steam, hot water or other fluids.

Type VC coils heat with steam only.

All are available in single or multi-row units with removable element assemblies.

Standard Xchange
products are manufactured
with the highest
standards of quality.

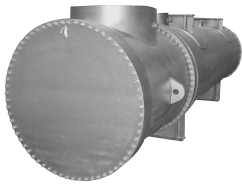
Heat Exchanger Models

Use this guide and the following charts to determine the heat exchanger you need. We hope you will find these guidelines useful; for more information, or specific recommendations, call your local Standard Xchange representative.

MODEL	CONSTRUCTION	ADVANTAGES
BCF, HCF, TCF, SX2000, C200, C210, S1000, SSCF, EF	Non-removable bundle, fixed tubesheet	1. Less costly than removable bundle heat exchangers 2. Provides maximum heat transfer surface per given shell and tube size 3. Provides multi-tube pass arrangements 4. Interchangeable with competitive models
CPK, C100, BCP	Removable bundle, packed floating tubesheet	1. Floating end allows for differential thermal expansion between the shell and tubes 2. Shell side can be steam or mechanically cleaned 3. Bundle can be easily repaired or replaced 4. Less costly than full interval floating head-type construction 5. Maximum surface per given shell and tube size for removable bundle designs
C400	Removable bundle, pull-through bolted internal floating head cover	1. Allows for differential thermal expansion between the shell and tubes 2. Bundle can be removed from shell for cleaning or repairing, without removing the floating head cover 3. Provides multi-tube pass arrangements 4. Provides large bundle entrance area 5. Excellent for handling flammable and/or toxic fluids
C500	Removable bundle, internal clamp ring-type floating head cover	1. Allows for differential thermal expansion between the shell and tubes 2. Excellent for handling flammable and/or toxic fluids 3. Higher surface per given shell and tube size than C400 4. Provides multi-tube pass arrangements
C300, C320, C330, BCU, SSCU, B-300S, B-300W, SX2000U	Removable bundle, U-tube	1. Less costly than floating head or packing floating tubesheet designs 2. Provides multi-tube pass arrangements 3. Allows for differential thermal expansion between the shell and tubes, as well as between individual tubes 4. High surface per given shell and tube size 5. Capable of withstanding thermal shock
FanEx	Plate fin core with fan	1. Uses air for cooling where water is unavailable, costly, or undesirable. Exhaust air can be used for space heating
AirEx	Bar and Plate with fan	1. Uses air for cooling where water is unavailable, costly, or undesirable. Exhaust air can be used for space heating
PlateFlow	Removable partition plates with compression endplates and frame	1. Ease of disassembly for cleaning or replacement parts
Brazepak	Brazed plate	1. Very compact and rugged 2. Lightweight 3. Many design options, including multiple passes, different plate styles, nozzle sizes and orientation 4. High heat transfer performance 5. No gaskets
VC, UH, Z, UG, MP	Heavy duty removable core type	1. Tubes free to expand individually 2. Heating elements totally removable for maintenance or replacement without disconnecting outer casing from ductwork 3. Type VC provides maximum freeze-resistance when using sub-freezing air 4. Type VC has steam distributing tube for flow pressure operation with modulating control 5. Embedded or extruded fins available for higher design temperatures (750° F max.)

	LIMITATIONS	SELECTION TIPS
	1. Shell side can be cleaned only by chemical means 2. No provisions to correct for differential thermal expansion between the shell and tubes. (Exception: expansion joint, available only on C200 and C210 exchangers)	1. For lube and oil and hydraulic oil coolers, put the oil through the shell side 2. Corrosive or high fouling fluids should be put through the tube side 3. In general, put the coldest fluid through the tube side
	1. Shell side fluids limited to non-volatile and/or non-toxic fluids, i.e., lube oils, hydraulic oils 2. Tube side arrangements limited to one or two passes Tubes expand as a group, not individually (as in U-tube unit); therefore, sudden shocking should be avoided 3. Packing limits design pressure and temperature	1. For lube oil and hydraulic oil coolers, put the oil through the shell side 2. For air intercoolers and aftercoolers on compressors, put air through the tube side 3. Coolers with water through the tube side: clean or jacket water, use 3/8" tubes; raw water, use 5/8" or 3/4" tubes 4. Put hot shell side fluid through at stationary end (to keep temperature of packing as low as possible)
	1. For given set of conditions, it is the most costly of all the basic types of heat exchanger designs 2. Less surface per given shell and tube size than C500	1. If possible, put the fluid with the lowest heat transfer coefficient through the shell side 2. If possible, put the fluid with the highest working pressure through the tube side 3. If possible, put the high fouling fluid through the tube side
	1. Shell cover, clamp-ring and gloating head cover must be removed prior to removing the bundle. Results in higher maintenance cost than the C400 2. More costly than fixed tube sheet or U-tube heat exchanger designs	1. If possible, put the fluid with the lowest heat transfer coefficient through the shell side 2. If possible, put the fluid with the highest working pressure through the tube side 3. If possible, put the high fouling fluid through the tube side
	1. Tube side can be cleaned only by chemical means 2. Individual tube replacement is difficult 3. Cannot be made single pass on tube side; therefore, true counter-current flow is not possible 4. Tube wall at U-bend is thinner than at straight portion of tube 5. Draining tube side is difficult in vertical (head-up) position	1. For oil heaters, wherever possible put steam through the tube side to obtain the most economical size 2. For water heating with steam or hot water, the B-300S or B-300W will prove most economical
		1. Refer to FanEx catalog for complete, step-by-step selection procedure
		1. Refer to AirEx catalog for complete, step-by-step selection procedure
	1. Not Suitable for pressures over 300 psig 2. Not Suitable for change of state or gaseous applications	1. For applications involving temperature crossing 2. Economical when exotic metals are required
	1. Can only be cleaned chemically	1. For applications involving temperature crossing or close temperature approach 2. Ideal for refrigerant-to-liquid or refrigerant-to-gas applications 3. Very economical when compared to all-stainless tubular construction
	1. Individual tubes cannot be cleaned or plugged	1. Refer to Heating Coil Product Selection Guide for information concerning special construction, limits and control

Models of Efficiency



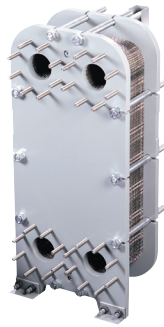
CENTURY SERIES®

Engineered / customized heat exchangers for process and other heating/cooling applications.



BRAZEPAK®

Brazed plate heat exchanger.



PLATEFLOW®

Gasketed plate & frame heat exchanger.



AIREX® AND FANEX®

Air/oil, air/air, or air/water heat exchangers.



PRE-ENGINEERED SERIES

BCF®/SSCF®/SX2000®/B300®
Pre-engineered shell and tube heat exchanger.

Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xyleminc.com



Xylem
www.xylem.com/standardxchange

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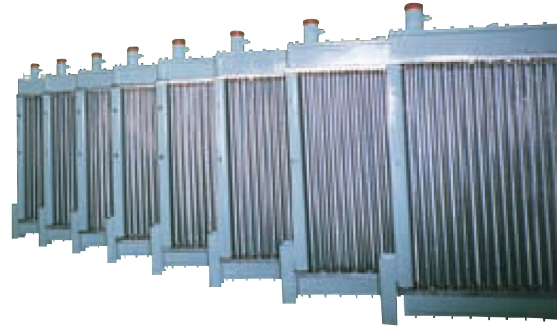
Heavy Duty Coils

EFFICIENT HEAT TRANSFER. COMPACT DESIGN.

Heavy duty coils for...

Standard Xchange offers a broad range of industrial and commercial heat transfer coils. Our diversified line provides a wide selection of styles and materials of construction, backed by years of experience in meeting the heat transfer requirements of just about every industry. These products utilize finned tubes in a header construction with a heavy duty casing designed specifically for your application.

- Heavy Duty Steam Coils
- Heating and Cooling Coils
- Generator and Motor Coolers
- Transformer Coolers



CONSTRUCTION

INNER TUBES

Copper Nickel
Copper
Stainless Steel
Titanium
Others

FINS

Integral Aluminum Fins
5-7-8-9-10-11 or 14 fins/inch

HEADERS/WATER BOXES

Steel
Stainless Steel
Copper Nickel
Copper
Naval Brass

CASINGS

Galvanized Steel
Steel
Stainless Steel

COATINGS

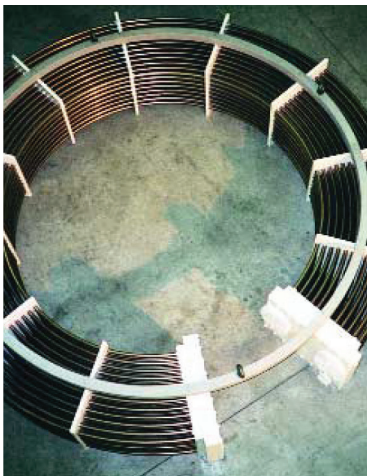
Heresite on Request



...a wide range of applications

Standard Xchange uses an integral finned tube to assure the highest efficiency, long life and reliability of service. The continuous helical fins are radially extruded from thick walled aluminum tubes in a cold rotary process. The result is an extremely rigid fin structure that is easy to maintain and has no possibility of loosening from the parent tube with a resulting loss in thermal performance. In similar fashion, corrosion at the fin interface is eliminated thereby promoting long coil life.

VARIABLE Design Characteristics



OPTIONS

- Expansion Joints
- Removable Cover Plates
- Gasketing

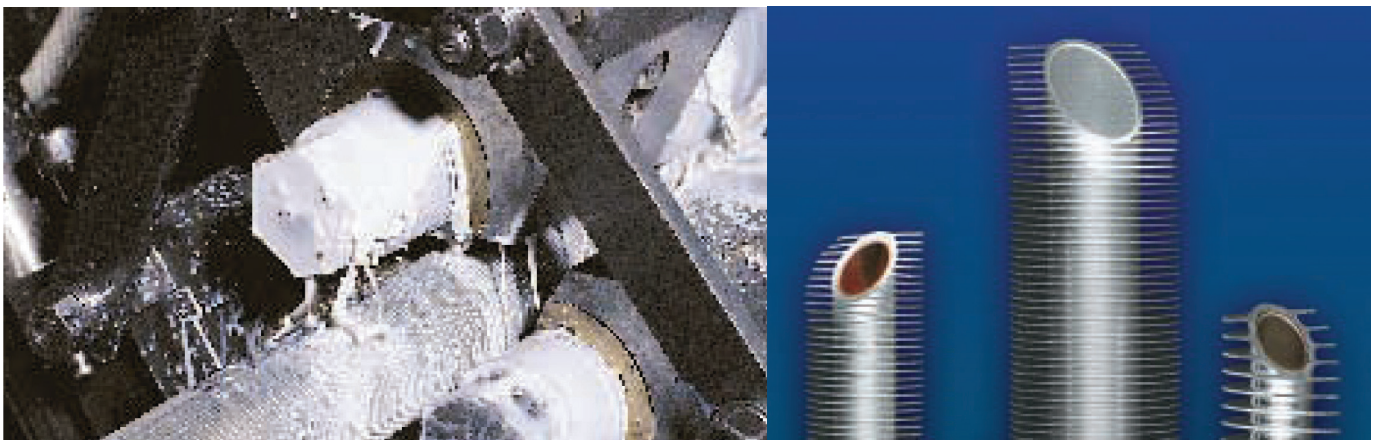
DESIGN STYLES

- VC - Double tube steam coil for maximum freeze protection.
- UH - Integral U-bend steam coil.
- UG - Integral U-bend coil with liquid in the tubes.
- MP - Multi pass coil with brazed U-bends.
- Z - Bent or flextube steam coil, 1 or 2 rows.

UNIQUE Mono Aluminum Finned Tubes

UNIQUE INTEGRAL FINNED TUBES

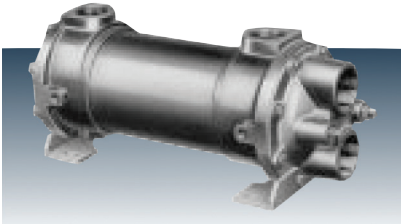
Bimetal type hifin tube is more than an ordinary mechanical engagement between the inner tube wall and the fin. An elastic deformation of both metals maintains heat transfer contact.



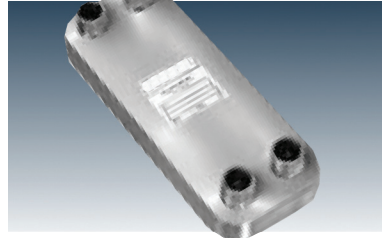
Standard Xchange Products

Designed to meet virtually every heat transfer application requirement.

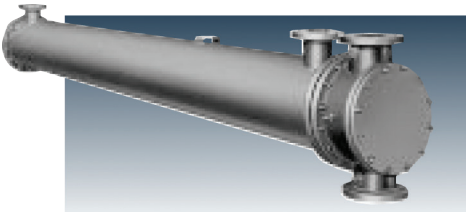
EFFICIENCY. EXPERTISE.



Pre-engineered shell-and-tube heat exchangers for general heating and cooling



Brazepak™ compact, vacuum-brazed, general purpose heat exchangers.



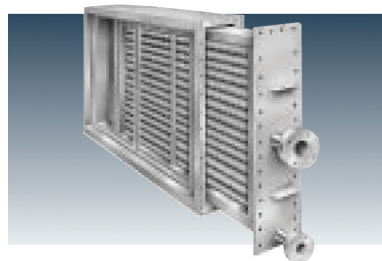
Engineered/customized heat exchangers for process and other heating/cooling applications.



Plateflow® plate-and-frame exchangers.



FanEx® air/oil, air/air, or air/water heat exchangers.



Heat transfer coils.