

Features

Polycoil heat exchangers are an all plastic heat exchangers with superior corrosion resistance. They provide high heat transfer performance through 440 ultra-thin walled tubes (0.008in). Superior durability is achieved by a plastic-to-plastic weld of each individual tube to their manifold allowing for high operating pressures. Polycoil exchangers are extremely light weight making installation easy and provide a very low internal pressure drop. They are suitable for use with air-to-liquid and liquid-to-liquid applications. Multiple banks/arrays of exchangers can be connected together easily utilizing a built in compression snap clip (supplied) allowing the side frame on each unit to be firmly linked. All exchanger undergo two pressure tests before shipping and inspected for leaks.

Applications

- Cooling Towers
- HVAC (non-refrigerates)
- Geothermal
- Marine, Swimming Pools
- Automotive
- Radiant Heating/Cooling



Materials

Exchanger	Nylon or HPDE
Baffles:	ABS, Nylon, HDPE
Side Frame:	PVC, Nylon, HDPE

Physical Details

Dimension (LxWxH)	18.39in x 11in x 3in
Tube Length	12.63in
Dry Weight	3.3 lb
Internal Fluid Volume	0.32 gal
Number of Tubes	440
Tube Diameter	0.118in

Connections

Available :	(1in)	Hose Barb, PEX, NPT
Clamp Torque Spec		35 in-lb

Fluid Compatibility

Water
 Glycols
 Salt/Brine Solutions
 Hydro Carbon & Oils
 Acids & Alcohols (HDPE only)
 Chloride Solutions (Nylon 612 only)
**For a additional fluids or a comprehensive list please contact us*

Warranty

3 year limited warranty on all materials

Durability

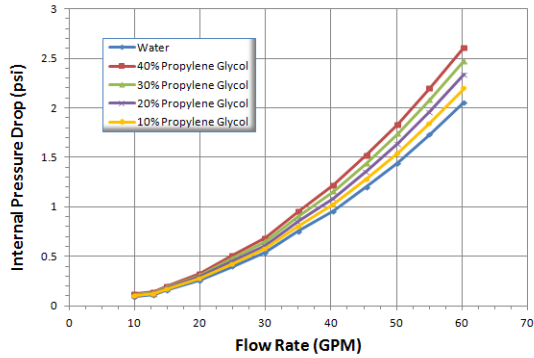
250,000 Pressure Cycle @ 120psi

Operating Conditions

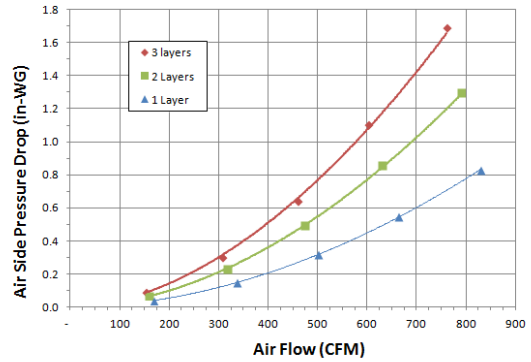
Nylon		Polyethylene	
Operating Pressure	80 psi (max)	Operating Pressure	40 psi (max)
Burst Pressure	400 psi	Burst Pressure	130 psi
Temperature Range	-40°F to 250°F	Temperature Range	-40°F to 140°F
Flow Rate	60 GPM (max)	Flow Rate	60 GPM (max)

Performance

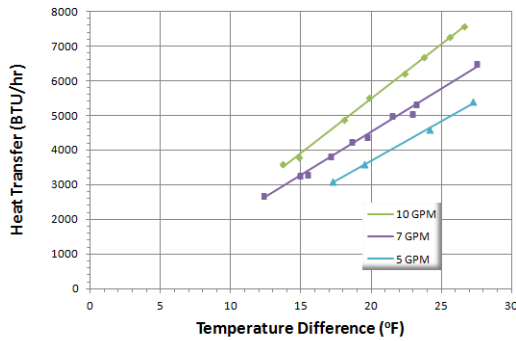
Polycoil HX-R-12
with Hose Barb



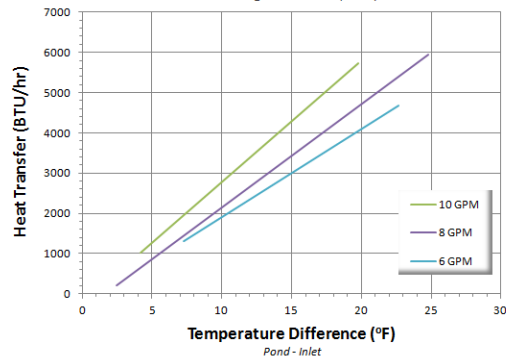
Polycoil HX-R-12



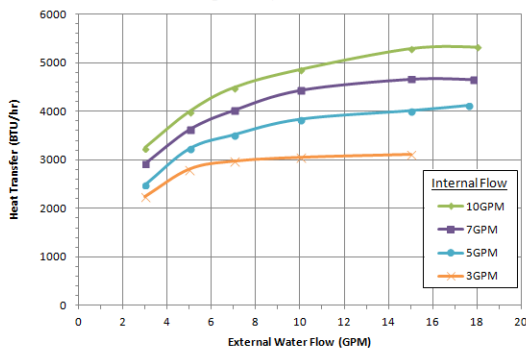
Polycoil HX-R-12
Submersion in Flowing Water
(equal internal/external flow)



Polycoil HX-R-12
Submersion in Stagnate Water (Pond)



Polycoil HX-R-12
Submersion in Flowing Water
@ 18°F Temp Difference



Model Number

HX-R-12-NY-1-HB-1-1-RL-A

Type Of Heat Exchanger	Tube Length	Material Type	Connection Size	Connection Type	Side Frame Material	Baffle Material	Header Orientation	Stacking Pins
R = Rectangular	72 = 72in	NY = Nylon/Polyamide 612	1 = 1in	HB = Hose Barb	1 = PVC	1 = ABS	RL = Right/Left	A = Front Face
C = Curved	57 = 57in	PA66 = Nylon/Polyamide 66	2 = 0.5 in	PR = Propex	2 = Nylon	2 = Nylon	LL = Left/Left	B = Top Face
T = Tube & Shell	48 = 48in	PE = Polyethylene (HDPE)	3 = 0.75in	FNPT = Pipe Thread	3 = HDPE	3 = HDPE	RR = Right/Right	C = Both Faces
	42 = 42in		4 = custom	MNPT = Pipe Thread	4 = Custom	4 = Custom		
	28 = 28in			CUST = Custom				
	12 = 12.63in							
	XX = Custom							

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED

DETAIL A
SCALE 1 : 2

DETAIL B
SCALE 1 : 2

Connecting Pin (for multiple banks of HX)

	<small>THIS DOCUMENT IS THE PROPERTY OF CESARONI TECHNOLOGY INCORPORATED. UNAUTHORIZED USE OR REPRODUCTION IS PROHIBITED.</small>		<small>Unless Otherwise Specified</small> X/X ± 1/64 X/X ± 0.015 X/X ± 0.002 X/X ± 0.0005 X° ± 0°-30'	
	<small>DRIVING SIZE</small> A	<small>SCALE</small> 1:1.2	<small>DATE (DD/MM/YY)</small> 26/02/2016	<small>SHEET</small> 1 OF 1
<small>WEIGHT</small>	<small>UNITS</small> INCHES (MM)	<small>DRAWN BY</small> B.P.	<small>TITLE</small> HX-R-12 Exchanger	<small>PROJECT CODE</small>
<small>MATERIAL</small> Nylon	<small>CONTACT TREATMENT</small>	<small>ESTIMATOR</small>	<small>PART #</small> HX-R-12-NY-1-HB-1-1-RL-A	<small>PROJECT CODE</small>