

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 heat exchangers undergo two pressure tests before shipping and inspected for leaks.

Applications

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



Materials

Exchanger	Nylon
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

Operating Conditions

Nylon	
Operating Pressure	80 psi (max)
Burst Pressure	400 psi
Temperature Range	-40°F to 185°F
Flow Rate	60 GPM (max)

Fluid Compatibility

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

Warranty

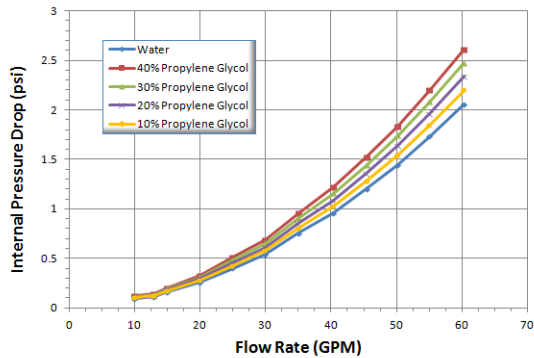
3 year limited warranty on all materials

Durability

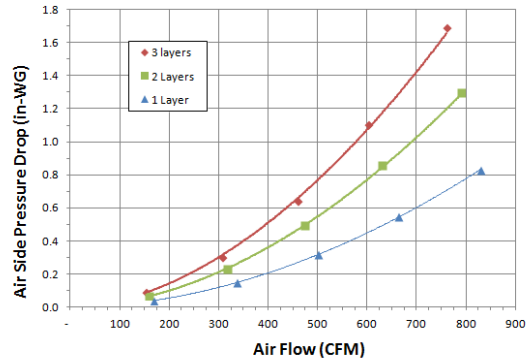
250,000 Pressure Cycle @ 120psi

Performance

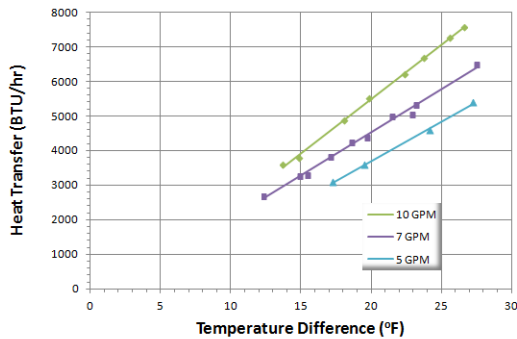
Polycoil HX-R-12
with Hose Barb



Polycoil HX-R-12

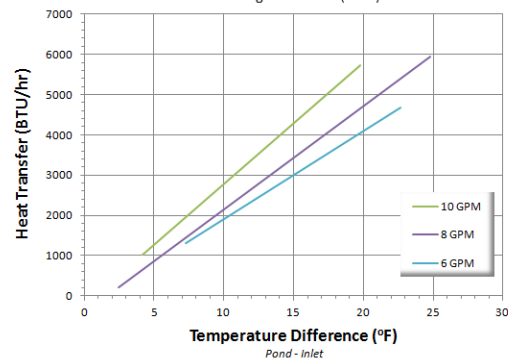


Polycoil HX-R-12
Submersion in Flowing Water
(equal internal/external flow)

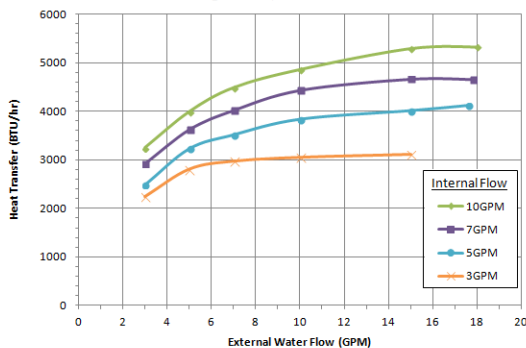


Polycoil HX-R-12

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 C = Curved T = Tube & Shell	72 = 72in 57 = 57in 48 = 48in 42 = 42in 28 = 28in 12 = 12.63in XX = Custom	NY = Nylon/Polyamide 612 PA66 = Nylon/Polyamide 66	1 = 1in 2 = 0.5 in 3 = 0.75in 4 = custom	HB = Hose Barb PR = Propex FNPT = Pipe Thread MNPT = Pipe Thread CUST = Custom	1 = PVC 2 = Nylon 3 = HDPE 4 = Custom	1 = ABS 2 = Nylon 3 = HDPE 4 = Custom	RL = Right/Left LL = Left/Left RR = Right/Right	A = Front Face B = Top Face C = Both Faces

