

## 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

## 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*

## Physical Details

Dimension (LxWxH )	77.65in x 11in x 3in
Tube Length	72.0 in
Dry Weight	9.9 lb
Internal Fluid Volume	1.27 gal
Number of Tubes	440
Tube Diameter	0.118in

## Warranty

3 year limited warranty on all materials

## Connections

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

## Durability

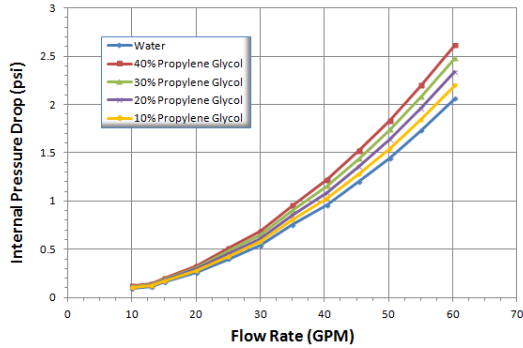
250,000 Pressure Cycle @ 120psi

## Operating Conditions

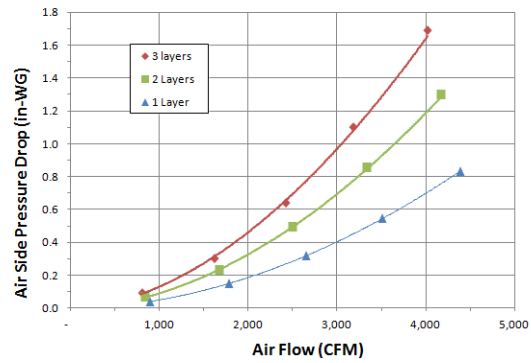
<b>Nylon</b>		<b>Polyethylene</b>	
Operating Pressure	80 psi (max)	Operating Pressure	40 psi (max)
Burst Pressure	400 psi	Burst Pressure	130 psi
Temperature Range	-40°F to 250°F	Temperature Range	-40°F to 140°F
Flow Rate	60 GPM (max)	Flow Rate	60 GPM (max)

## Performance

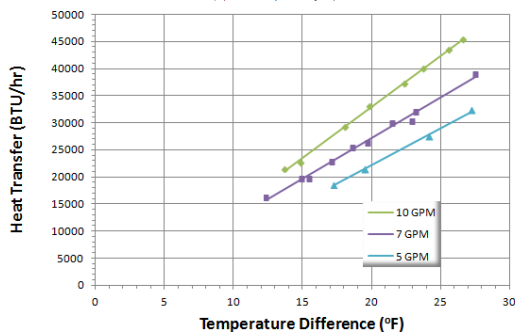
**Polycoil HX-R-72**  
with 1in Hose Barb



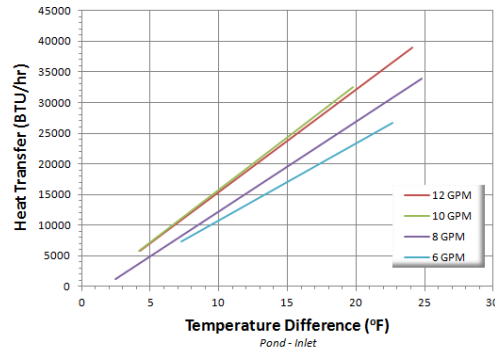
**Polycoil HX-R-72**



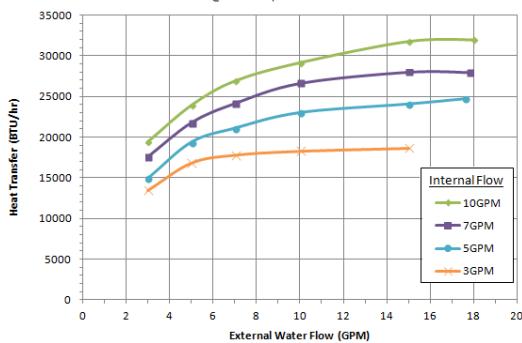
**Polycoil HX-R-72**  
Submersion in Flowing Water  
(equal internal/external flow)



**Polycoil HX-R-72**  
Submersion in Stagnate Water (Pond)



**Polycoil HX-R-72**  
Submersion in Flowing Water  
@ 18°F Temp Difference



## Model Number

HX-R-72-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 PE = Polyethylene (HDPE)	1 = 1in 2 = 0.5in 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

