



AQUATIC ECO-SYSTEMS™

COMMERCIAL AQUACULTURE

XLHP™ HIGH PERFORMANCE HEAT/COOL PUMPS

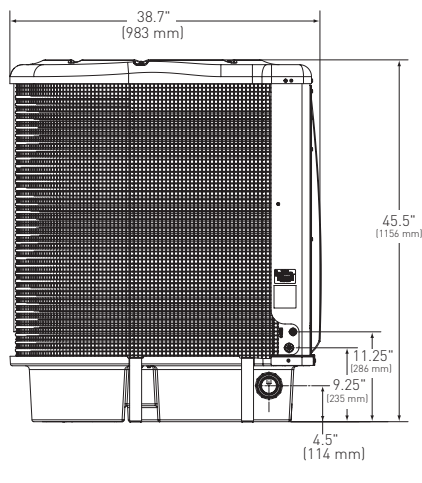
With today's record energy costs, there's never been a better time to invest in a Pentair Aquatic Eco-Systems XLHP High Performance Heat/Cool pump. Compared to gas, oil or electric heaters, XLHP High Performance Heat/Cool Pumps use just a fraction of the energy to generate the same amount of heat. In fact, just 20¢ worth of electricity produces \$1.00 worth of heat generated by other methods.



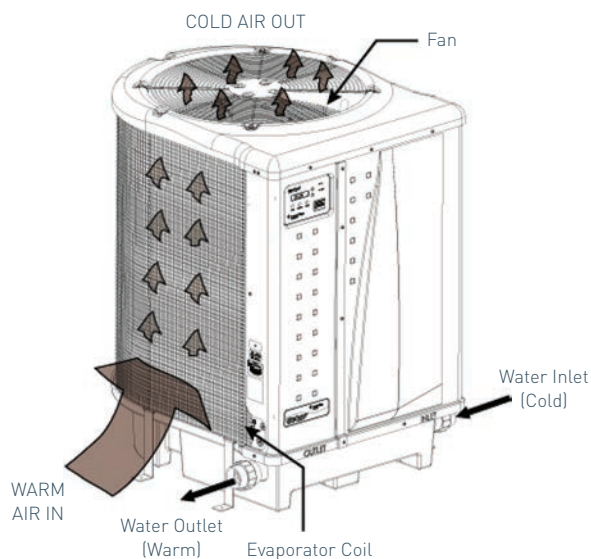
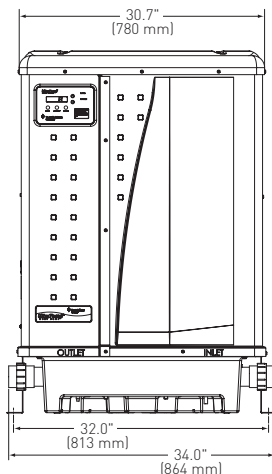
**Lifetime Warranty-Titanium Heat Exchanger
10-yr Warranty - Compressor Parts/Labor**

More standard features than any other

- Both the 120BTU and 140BTU model are capable of heating and/or cooling the water. Full heat/cool functionality.
- 2-inch unions included for easy installation.
- AutoSet Temperature Control monitors water temperature and turns the pump on/off as needed.
- Features the legendary Emerson® Copeland Scroll® Compressor that's more efficient, durable, reliable and quieter than any piston-driven compressor.
- EPA-recognized, environmentally safe, non-ozone depleting R-410A refrigerant.
- 100% titanium heat exchanger assures corrosion-free performance for extra long life and value.
- LCD control board displays an intuitive, menu-driven readout with easy to follow, full word messages—no codes to memorize.
- Self-diagnostic software continuously monitors system for peak performance.
- Thermostatic Expansion Valve (TXV) controls refrigerant flow for optimum efficiency and BTU output over a wider operating temperature range.
- Automatic defrost feature senses refrigerant temperature and helps prevent the XLHP heat pump from freezing, allowing the unit to operate effectively at even lower temperatures than many competing products.
- ETL listing is your assurance of safer, dependable operation.
- BTU and efficiency independently certified by the Air Conditioning, Heating, and Refrigeration Institute (AHRI). The AHRI Certified mark is applied only to HVACR equipment and components that have been independently tested to certify that manufacturers' performance claims are accurate.



Heat Pump Dimensions



Typical Heating Cycle

MODEL	DESCRIPTION	BTU/h CAPACITY		COP* RATING		60 HZ VOLTS	PHASE	BREAKER RATING	FLOW (GPM) MIN-MAX	SHIP WT (LBS)
		HEATING	COOLING	HEATING	COOLING					
460900-AQ	HEAT PUMP XLHP 120 HEAT/COOL	127,000	72,000	5.4	4.1	230	1	50 AMPS	30-120**	278
460901-AQ	HEAT PUMP XLHP 140 HEAT/COOL	140,000	80,000	5.7	4.1	230	1	50 AMPS	30-120**	320

*Coefficient of performance. **If system flow rate exceeds 120gpm, a bypass valve is required. Maximum working water pressure is 50 psi.

COMPARING THE COST TO HEAT YOUR BODY OF WATER OR AQUACULTURE SYSTEM		
HEATER/FUEL TYPE	COST	BTU/\$1.00
ELECTRIC	\$.1065/KWH	32,000
LP GAS	\$1.87/GAL	40,100
OIL	\$2.22/GAL	47,200
NATURAL GAS	\$1.218/THERM	67,300
XLHP HEAT PUMP	\$.1065/KWH	185,600



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