

Why Choose an AquaCal® Heat Pump to Heat My Pool?

- Affordability – you can heat a pool for about 25% of the cost of heating it with gas.
- **AquaCal's** heat pumps life expectancy: 12-15 years.
- You can afford to heat your pool for the entire swim season, not just intermittently.
- Heat your pool, rain or shine.
- Heat pumps are green and have virtually no effect on your carbon footprint.
- Higher C.O.P.s means more efficiency.
Ex. \$1 input = \$6 of energy output at C.O.P. of 6.0



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Benefits of Heating Your Pool

- Maximize the enjoyment of your swimming pool investment.
- Your family can exercise, relax, swim, and entertain in warm water even when there is a chill in the air.
- Exercise & Therapeutic value – health issues, arthritis, etc.
- More quality time and enjoyment with family and friends.



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How a Heat Pump Works

- Free heat is taken from outside air and transferred to the pool water.
- A HEAT PUMP DOESN'T BURN ENERGY TO CREATE HEAT. It only uses a small amount of energy to transfer FREE heat from the air to the pool.
- A heat pump is essentially a mechanical collector of solar energy.
- Many of our heat pumps can also cool the pool.

This process results in as much as 680% efficiency (C.O.P.)



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How a Heat Pump Works

Heat Pumps transfer free heat from the air to your swimming pool



The fan draws air through the evaporator
85% of the heat that goes to your pool is collected here

Cool Water In

Warm Water Out



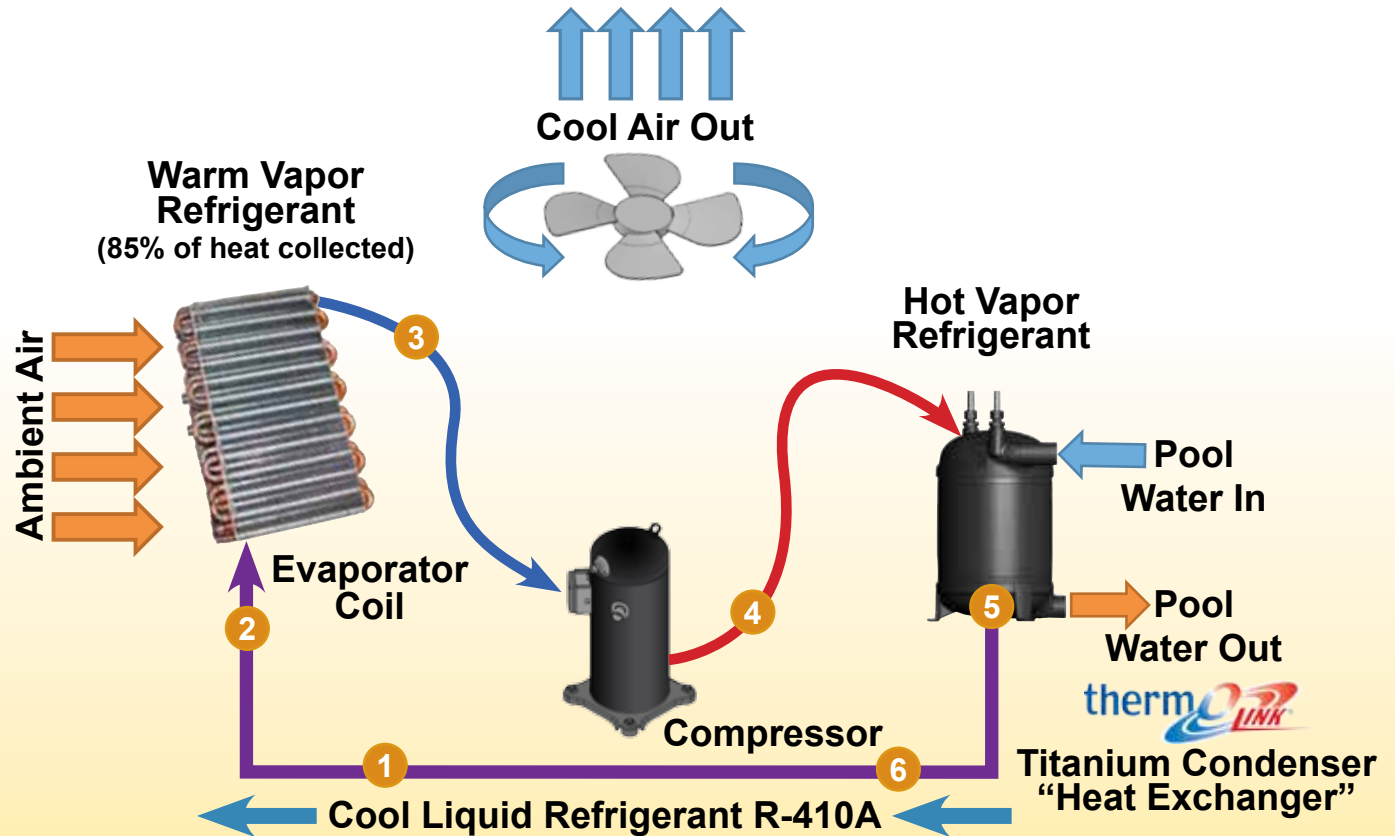
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How a Heat Pump Works

A LOOK AT YOUR AQUACAL® HEAT PUMP

- 1 Starts with cool liquid refrigerant R-410A
- 2 Ambient air is drawn by the fan thru evaporator coil
- 3 After passing liquid refrigerant thru evaporator coil, we now have warm vapor refrigerant that can be compressed
- 4 Compressing warm vapor becomes hot vapor refrigerant
- 5 Water passes thru the ThermoLink® which transfers the heat from the hot refrigerant to the pool water
- 6 The hot refrigerant releases its heat to the pool water and is now cool liquid refrigerant again



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It only uses a small amount of energy to transfer free heat from the air to the pool



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Why Choose AquaCal® ?

- **AquaCal®** is the largest swimming pool heat pump manufacturer in the world!
- **AquaCal®** has been in business for over 35 years pioneering the swimming pool heat pump market in the United States with numerous patents and technological breakthroughs.
- **AquaCal®** has manufactured over 275,000 swimming pool heat pumps worldwide.
- **AquaCal®** heat pumps are the most efficient and they set the industry standard for heat pump technology, reliability, and performance.



HEATWAVE  SUPERQUIET™



 TropiCal®
SWIMMING POOL / SPA HEAT PUMPS



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Why Choose AquaCal® ?

- **AquaCal®** has absolutely the quietest units on the market. Which means you'll love it and your neighbors will love it too!
- **AquaCal®** services what we sell with over 21 trucks on the road. Our tech, our van, our parts.
- **AquaCal®** technicians are CPO and HVAC certified, licensed and insured.
- **AquaCal®** is the only manufacturer with an onsite test lab and environmental chamber with over 10 engineers in our Engineering Department.
- **AquaCal®** heat pumps are made in the USA.



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HEATWAVE  SUPERQUIET



 TropiCal®
SWIMMING POOL / SPA HEAT PUMPS



TropiCool®
WATER CHILLER



GBB
GREAT BIG BOPPER



(World's largest commercial swimming pool heat pump)

WATER
SOURCE
SWIMMING POOL AND SPA HEAT PUMPS



SUNPOWER



More than 20 different models and sizes for heating and cooling



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How Quiet is the *SuperQuiet*?

HEATWAVE  SUPERQUIET®

- Adds no noise to the equipment pad.
- Can't hear it run from 10 feet away.
- Virtually silent.
- Positively the quietest heat pump on the market today.



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ThermoLink® Heat Exchanger Reduces Total Cost of Operation by Reducing the Resistance to Flow

- **Your total cost of operation:** The cost to purchase your heater + the cost to operate your heater to heat your pool.
- Don't be fooled by heaters that have a lower purchase price but significantly higher operating costs, which result in a higher total cost of operation.
- Saves money when using a variable speed pump by reducing the RPM needed to achieve the same flow rate.
- The Patented **ThermoLink®** titanium heat exchanger in **AquaCal®** heat pumps allows the unit to run on speeds as low as **1560 RPM** as compared to other heat pumps that have to run at over 2350 RPM, **saving the end user from \$25.00 to \$94.00 per month** on the variable speed pump operation.



thermoLINK

Modified Tube-in-Shell



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ThermoLink® Heat Exchanger Reduces Total Cost of Operation by Reducing the Resistance to Flow

- Save money in a single speed pump application by reducing the run time needed to achieve the same turnover rate of the pool.
- **AquaCal's** Operating Cost Estimator will help your dealer select the most efficient heat pump for your pool.
- Ask your Dealer to go through the Cost Estimator with you today. It only takes 5 minutes.
- The purchase price of an **AquaCal®** may be slightly higher than some competitors but your total cost of operation will be significantly less.
- **AquaCal®** is the best brand for your return on investment due to the **ThermoLink®** and the **high C.O.P.s.**



thermo **LINK**



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Reality of Pump Costs

IntelliPro VS Pump as example



Pump Speed	Energy Used		Hours Run	=	Energy Used per Day	Energy Used in 30 Days	Cost per Month (based at 14¢ per kW)
1560 RPM	350 W	X	10 hrs.	=	3.5 kW	105 kW	\$14.70
2350 RPM	1000 W	X	10 hrs.	=	10 kW	300 kW	\$42.00
3110 RPM	2109 W	X	10 hrs.	=	21.09 kW	633 kW	\$88.16
3450 RPM	2960 W	X	10 hrs.	=	29.6 kW	888 kW	\$124.30

All other heat pumps must run at this rate or HIGHER

That's an annual savings of at least \$327 and as much as \$1,315 annually when using a **ThermoLink®**

The only way to maximize the potential savings of a variable speed pump is to use our patented **ThermoLink®** technology with its unique flow characteristics.

A difference worth paying for!!



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