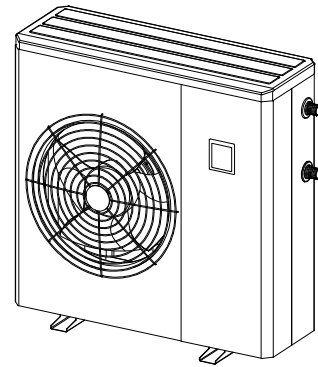


## Swimming Pool Heat Pump

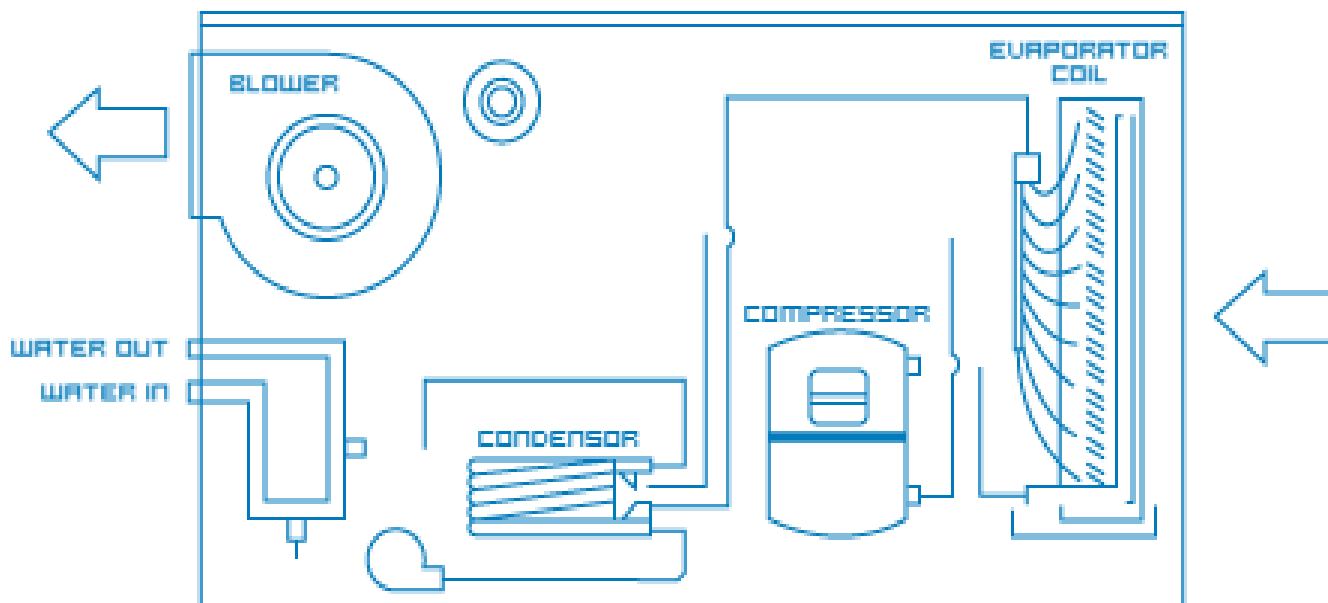
If you want an energy-efficient way to heat your swimming pool, consider using a Tili swimming pool heat pump!



## How They Work

Swimming Pool Heat pumps use electricity and a refrigerant to capture heat and move it from one place to another. Most the heat the unit generates itself, is mostly re-absorbed into the system leaving very little energy wasted.

As the pool pump circulates the swimming pool's water, the water drawn from the pool passes through a filter and the heat pump heater. The heat pump heater has a fan that draws in the outside air and directs it over an evaporator coil. Liquid refrigerant within the evaporator coil absorbs the heat from the outside air and becomes a gas. The warm gas in the coil then passes through the compressor. The compressor increases the heat, creating a very hot gas that then passes through the condenser. The condenser transfers the heat from the hot gas to the cooler pool water circulating through the heater. The heated water then returns to the pool. The hot gas, as it flows through the condenser coil, returns to liquid form and back to the evaporator, where the whole process begins again. The cooler the outside air they draw in, the more energy they use. However, since most people use outdoor swimming pools during warm and mild weather, this usually isn't an issue.



Example of how a swimming pool heat pump operates.