

# Raypak Power Defrost



## Low Ambient Temperature

There are some climates that can challenge a heat pump's performance. Areas that are subject to lower ambient temperatures, have a tendency to cause ice to build up on a heat pump's condensing coil. This ice could damage a heat pump's internal components while starving the unit of the air flow it needs to work properly. To combat this, most manufacturers build their heat pumps with a "Defrost Mode." What most manufacturers don't tell you is that their units can not heat your pool water while defrosting the coil!

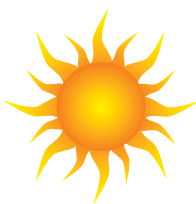


With a Raypak Power Defrost heat pump, you can have your cake, and eat it, too! How is this possible? ...simple! The more time your heat pump can spend heating the water, the quicker you will achieve your desired swim temperature. While heating your pool, if the Raypak Power Defrost Heat Pump senses damaging ice build up, the Power Defrost feature redirects a small amount of the hot Freon gas back through the Condensing Coil. This removes any ice that may be forming on the coil without stopping the heating process! This means that a Raypak Power Defrost heat pump gives you the freedom to continue to heat your pool water even when the unit is defrosting itself. So while your neighbor's "other brand" of heat pump has stopped heating the water and is still trying to "break the ice," you and your family will be swimming!

Model	BTUH Output
Classic Series	
6300tiPD	115,000
8300tiPD	137,000

# Specialty Models

## Heat-Cool Models



### Hot Summer Days

Raypak Heat-Cool units extend your swim season even longer! Just the right heat pump for climates that, in addition to having cooler-than-comfortable temperatures, can also have extremely hot summer months. With a Raypak Heat-Cool heat pump, your water temperature will always be comfortable. Just as households around the world have trusted us to heat their water during the colder months...Raypak will also have you relaxing in your pool during the hot days of summer with cool, refreshing, chilled pool water. Having the ability to pull out the extra degrees Mother Nature put in will make your pool the envy of the neighborhood. No matter what time of year, a Raypak Heat-Cool will have you swimming when others won't venture outside.



### How Does it Work?

Raypak Heat-Cool units have a unique reversing valve which enables the heat pump to not only take the chill out of the water, but also put it back in...Cooling your pool water during the hot summer months! Normally, a heat pump will gather heat energy from the air with its condensing coil. Using Freon, and several other components, the heat is transferred over to your pool water. By reversing this process the heat pump can actually take heat out of the water, transfer it to the Freon, and eventually run it through the condensing coil. The condensing coil dissipates the heat into the air, much like a cars radiator.

Model	BTUH Heating	BTUH Cooling
Classic Series		
6300tiHC	115,000	83,000
6300tiLH	115,000	—
6300tiLHHC	115,000	83,000

## Low-Humidity Models



### Dual-Coil Design

Raypak Low Humidity units utilize a Dual-Coil Evaporator which maximizes heating in areas of low-humidity. Based on outside conditions, the unit decides to run on either one, or both, coils allowing the compressor to always run at peak performance. This helps to maintain the highest possible heat capture in the most humidity-challenged environments.

**For dimensions and technical specifications, see catalog number 6000.18.1 Professional Series, 6000.18.2 Classic Series and 6000.18.4 Specialty Series.**  
In keeping with its policy of continuous progress and product improvement, Raypak reserves the right to make changes without notice.



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The Pool and Spa Heating Experts<sup>SM</sup>



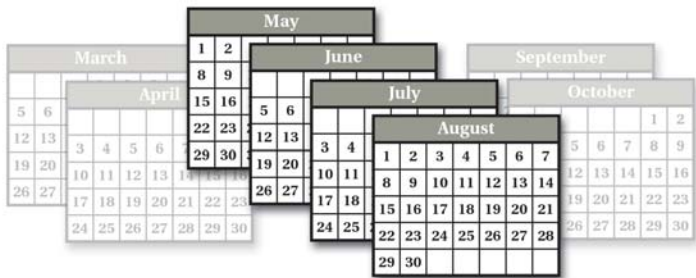
# Raypak Heat Pump

## Pool and Spa Heater

# Raypak Titanium Heat Pumps

### Maximize your return...

It's true, nothing beats a gas heater for bringing your pool or spa up to temperature rapidly, but it can be expensive to operate. Keep in mind that with a gas heater, you also need to run expensive gas lines, or install an unsightly propane storage tank. Installing a Raypak heat pump can save you money compared to a gas heater installation. Raypak units operate quietly, cleanly and most of all efficiently. Installation is no harder than installing a pool pump. Now you can trust your backyard investment to the same people who have been in homes across America for over 75 years. Your Raypak heat pump is designed to provide years of safe, reliable service, and can save you money over time compared to other heating methods. Ask your Raypak heat pump dealer for more details!



### Extend Your Swim Season in Comfort...

A Raypak heat pump can turn your backyard pool investment into resort style living almost year round. Get the most out of your pool by keeping it comfortable and open longer. A Raypak heat pump will give you the flexibility of warming your pool water in the months before and after your normal swim season. Your backyard evening events are rarely slowed down by cool weather when you have a Raypak heat pump on duty.



Rifling a Titanium Tube Heat Exchanger provides a truly efficient waterway that withstands the abuses of harsh pool chemistry and erosion. The spiral "rifled" exchanger also helps reduce deposit build-up, and increases efficiency by performing a "scoop-and-lift" action. While neither Titanium nor rifling is new to the heat pump industry, leave it to Raypak to bring the best of both worlds together to maximize your backyard investment!

### Reliability...

Raypak heat pumps are the most reliable and robust units on the market today. In the unlikely event that you have a service problem, one toll-free call will have your heater up and running again. It's that simple. Raypak heat pumps are truly hassle-free.

### Spiral "Rifled" Titanium Tube

And they said it couldn't be done... Titanium has gained world recognition in just about every industry for its "nearly unbreakable" qualities. Additionally, due to Titanium's rigidity, it has been nearly impossible to design an ultra-efficient heat exchanger using this metal. Raypak is the first company to offer the Spiral "Rifled" Titanium Tube heat exchanger. This proven technique drastically increases the surface area where super-heated gases can safely transfer heat to water.



Classic Series

Professional Series

Model	BTUH Output
Professional Series	
5100ti	100,000
Classic Series	
6300ti	115,000
8300ti	137,000

### Direct-Set Dual Thermostat

Raypak heat pumps are carefully designed and built with features that pool owners desire most. Take the Direct-Set Thermostat for example. The easy-to-read, easy-to-use dials allow you to set your water temperature just the way you like it. Gone are the days of the guesswork involved with having to choose between the 'blue & red swoosh' like on your car's A/C...now you have the temperature targets displayed right on the dial! In addition, all Raypak heat pumps are built with separate Pool and Spa thermostats...standard! No cost-cutting here! This feature allows you to "set it and forget it" when it comes to customizing your settings on both bodies of water.

### Remote Compatible

All Raypak heat pumps are compatible with the industry's most popular remote systems. Plus, wiring a remote has never been easier, since every Raypak heat pump comes with a simple-to-use terminal strip located right inside the junction box.

### Indicator Lights

All Raypak Heat Pumps come standard with an indicator light panel. This simple, yet effective system tells you quickly the status of the pool temperature, the system flow and the electrical power.



### 2" PVC Union Water Connections

All Raypak heat pumps are equipped with 2" (PVC union) plumbing connections. This allows for ease of installation and future serviceability should the need ever arise.

### Built-In Internal Bypass

Automatically compensates for normal day-to-day changes in your pool's hydraulics, maximizing heat transfer efficiency.

### DuraSteel™ Powder-Coated Cabinet

Our exclusive DuraSteel Cabinet is zinc-chromate-plated, and polyester powder-coated making it non-corrosive and much more durable than a plastic cabinet. It's the same rugged construction used by all the major air conditioner manufacturers.

### Copeland Scroll™ Compressor – Your Choice for Quiet & Reliable Operation

The Copeland Scroll compressor in your Raypak heat pump is the same workhorse that is used in air conditioners all around the world! The simple design of the Copeland Scroll compressor builds in reliability and allows it to operate at lower sound and vibration levels than reciprocating compressors. In fact, tests have shown that Scroll compressors are up to three times quieter than reciprocating models. Durability is based on a very robust design and contains only a few moving parts. Because the Copeland Scroll compressor starts unloaded, strain on the motor is considerably reduced. During rough operating conditions, spiral components within the unit reposition themselves to protect the compressor from damage. Millions of air conditioners can't be wrong...the performance of a Copeland Scroll compressor gets better with time: it "wears in," not out.



# Quality • Reliability • Comfort