Compact Model Standard Features

**Cabinet Durability**
- Exclusive DuraSteel™ Powder-Coated Cabinet
  The same rugged steel construction used by Rheem and all other major air conditioner manufacturers. Fully louvered steel jacket protects the evaporator coil from storm debris, hail and typical backyard maintenance activities, not to mention the winning goal in a back yard soccer match. A plastic cabinet is no match for the Raypak DuraSteel cabinet.

**Quiet Operation**
- **Fan**
  Precision engineered and tuned for our heat pump. This means more air flow over the coil which translates to greater efficiency, all while being whisper quiet!
- **Extremely Tough Composite Base**
  Rust proof and ultra sound deadening base material keeps your heat pump up and running for years while holding sound levels to an absolute minimum.

**Compressor**
- **Copeland Scroll Compressor**
  Scroll compressors are quiet and efficient compared to piston type compressors. They provide higher efficiency, lower sound levels, superior durability and unsurpassed reliability. The unique design of a scroll compressor actually wears in over time, not out!

**Titanium Heat Exchanger**
- **Spiral Titanium Tube**
  The spiral titanium tube heat exchanger provides a corrosion-free waterway that can withstand the abuses of harsh pool chemistry. The spiral tube helps reduce deposit build-up and increases efficiency by performing a “scoop-and-lift” action and the counter-flow design provides optimum heat transfer.
- **Plumbing Connections Off-set 1-1/2” PVC union connections with 45° elbows provided**

**Digital Control - Basic Functions**
- **Pool/Spa Control**
  Your digital heat pump pool heater can be set to have different target temperatures for your pool and spa. This allows you to dial in just the right spa temperature and never have to adjust it again. The pool can be set to a lower, more energy saving temperature.
- **Remote Compatible**
  The digital heat pump pool heater can be easily controlled by most two-wire and three-wire remote systems. The digital display will flash “Remote” to let you know that it is under control of a third-party automation system. Simply press the UP and DOWN buttons for 3 seconds to release the control from the remote mode and regain local control.
- **On Board Diagnostics**
  Tells you, the homeowner, if there is a problem. Provides the service technician with detailed diagnostic information in real English.

**Digital Control - Built-in Mini Automation**
- **Limited Budget?**
  Now you can have both a heat pump AND automation, for the price of just a heat pump!
- **Solar Priority Control**
  Allows solar to be the primary heat source, with your heat pump as a back up booster.
- **Heat Pump Priority Gas Heater Back Up Control**
  Heat pump is the primary source for heat, with gas as a booster when needed.
- **Multi-Unit Control**
  Stages heaters ability to come on by delaying the start.
- **3-Way Valve Control**
  Control and program 3-way valves to work with pool and spa mode on digital control. No external parts to buy.
- **Pump Control and Time Clock**

**Warranty**
- **2 years Labor and 7 years Parts**
  10 years on the heat exchanger tube, see warranty for details.
- **Best in Class Warranty Service**
  Same day in the major cities in Florida, 24-48 hours most everywhere else. Areas outside of Florida are 24 to 48 hours with certain designated major cites having same day service. Check with your Raypak sales person for warranty service details in your area. We try harder!
Technical Data
Compact Series Heat Pump Pool Heaters

**Model Designation**

- **R** = Raypak Brand
- **2** = Approximate Horsepower
- **4** = VBL Cabinet Design
- **5** = Model Revision
- **ti** = Titanium Heat Exchanger
- **E** = Digital Control
- **0** = 1 phase 208/230V

### Technical Data

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<thead>
<tr>
<th>MODEL</th>
<th>R2450ti-E</th>
<th>R3450ti-E</th>
<th>R4450ti-E</th>
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<tbody>
<tr>
<td>Heat BTUH Output</td>
<td>48,000/46,000</td>
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<td>80,000/77,000</td>
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<td>AHRI 1160* (80,80,80) / (80,63,80)</td>
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<tr>
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<tr>
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<td>268</td>
<td>300</td>
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*Tested to AHRI 1160  All models comply with Florida 4.0 minimum C.O.P. requirement.