

**Guide for determining correct BPA Ref No. for PTCS Air Source Heat Pumps**

There are five main data points to focus on when determining which IS2.0 RefNo to assign to an Air Source Heat Pump measure to accurately report/invoice it to BPA. These are found on both the handwritten PTCS Heat Pump Form and the PTCS Registry generated Measure Report.

UES Measure List	PTCS Air Source Heat Pump Form (Handwritten)	PTCS Registry Measure Report
<b>Key Characteristic 1</b> (Home Type)	<b>See "Home Type"</b> Home Type: <input type="checkbox"/> Existing Site Built <input type="checkbox"/> New Construction Site Built <input type="checkbox"/> Manufactured: # of Sections <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	<b>See "House Type"</b> (First Page) <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <b>House Type:</b> <span style="float: right;"><b>Exist</b></span> </div>
<b>Key Characteristic 3</b> (Baseline Heating Source)	<b>See "Existing Heating System Being Replaced"</b> Existing Heating System Being Replaced (If new home, indicate heating system installed): <input type="checkbox"/> Electric Forced Air w/out AC <input type="checkbox"/> Electric Forced Air w/ AC <input type="checkbox"/> Electric Zonal <input type="checkbox"/> Air Source Heat Pump <input type="checkbox"/> Geothermal Heat Pump <input type="checkbox"/> Natural Gas Furnace (Gas Company: _____) <input type="checkbox"/> Other Non-Electric Space Heating: _____	<b>See "Existing Heating System Type Being Replaced"</b> (First Page) <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <b>Existing Heating System Type Being Replaced:</b> <span style="float: right;"><b>Air Source Heat Pump</b></span> </div>
<b>Conversion, Upgrade, VSHP (Variable Speed HP), or CC&amp;S</b> (Controls, Commissioning, & Sizing)	<b>Conversion if:</b> Existing Heating System Being Replaced (If new home, indicate heating system installed): <div style="border: 2px solid red; padding: 2px;"> <input type="checkbox"/> Electric Forced Air w/out AC <input type="checkbox"/> Electric Forced Air w/ AC <input type="checkbox"/> Electric Zonal <input type="checkbox"/> Air Source Heat Pump <input type="checkbox"/> Geothermal Heat Pump           </div> <input type="checkbox"/> Natural Gas Furnace (Gas Company: _____) <input type="checkbox"/> Other Non-Electric Space Heating: _____	<b>Conversion if...</b> "Existing Heating System Type Being Replaced" is: <ul style="list-style-type: none"> <li>Electric Forced Air w/out AC</li> <li>Electric Forced Air w/ AC</li> </ul>
	<b>Upgrade if:</b> Existing Heating System Being Replaced (If new home, indicate heating system installed): <div style="border: 2px solid red; padding: 2px;"> <input type="checkbox"/> Electric Forced Air w/out AC <input type="checkbox"/> Electric Forced Air w/ AC <input type="checkbox"/> Electric Zonal <input type="checkbox"/> Air Source Heat Pump <input type="checkbox"/> Geothermal Heat Pump           </div> <input type="checkbox"/> Natural Gas Furnace (Gas Company: _____) <input type="checkbox"/> Other Non-Electric Space Heating: _____	<b>Upgrade if...</b> "Existing Heating System Type Being Replaced" is: <ul style="list-style-type: none"> <li>Electric Zonal,</li> <li>Heat Pump,</li> <li>Geothermal Heat Pump,</li> <li>Gas, or</li> <li>Other Non-Electric Space Heating</li> </ul>
	<b>Determine if Non Variable or Variable Speed:</b> <input type="checkbox"/> Non Variable Speed HP <input type="checkbox"/> Variable Speed HP	<b>Variable Speed Heat Pump if...</b> (Second Page) <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <b>Heat Pump Stage(s): Variable Speed</b> </div>
	<b>Reference these fields for CC&amp;S:</b> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 100px; text-align: center;">SEER**</div> <div style="border: 1px solid black; padding: 5px; width: 100px; text-align: center;">HSPF**</div> </div>	<b>CC&amp;S applies if...</b> (Second Page) HSPF is ≤ 9.0 or SEER is ≤ 14 (Second Page) <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 100px; text-align: center;"><b>HSPF: 9.0000</b></div> <div style="border: 1px solid black; padding: 5px; width: 100px; text-align: center;"><b>SEER: 14.0000</b></div> </div>

\*\*If these data points in the Registry and PTCS Form do not align, the technician should be consulted to provide further clarification.\*\*

2/13/2017

**Notes:**

- The program is investigating how it can update the PTCS Registry so it can automatically suggest what measure type should be claimed (i.e. Conversion vs. Upgrade). However, this will not replace verifying that the key data points from the PTCS form and the Registry are aligned. That is still a utility responsibility.
- The label for “Geothermal Heat Pump” will be updated in March 2017 to “Ground Source Heat Pump”.