Please fill out either form:

**FORM 1:**
Packaged Water-To-Air and Water-To-Water Units

**FORM 2:**
Water-To-Air Split Units
## Geothermal Heat Pump Start-Up Certification Form

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**Installer Name:** _____________________________________________________

**Company Name:** ______________________________________________________

**Company Address:** ____________________________________________________

City ____________________________  State _______  Zip/Postal Code ______________

**Phone:** ____________________________________________________________

**Installer E-Mail:** ______________________________________________________

---

**Customer Name:** ____________________________________________________

**Customer E-Mail:** ______________________________________________________

**Customer Address:** ____________________________________________________

City ____________________________  State _______  Zip/Postal Code ______________

**Phone:** ____________________________________________________________

Start-Up Date ____________________________________________________________

---

**Loop Type:**

<table>
<thead>
<tr>
<th></th>
<th>Open</th>
<th>Closed Pressurized</th>
<th>Closed Non-Pressurized</th>
</tr>
</thead>
</table>

**Antifreeze Type and %** ________________________________________________

---

**Model No.** _________________________________________________________

**Serial No.**  __________________________________________________________

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## Refrigerant: R-410A

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**Operating Mode:**

- Heating
- Cooling

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**Perform Testing with HWG Off**

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### Additional Information required for Water-to-Water Unit only

<table>
<thead>
<tr>
<th>Description</th>
<th>Heating</th>
<th>Cooling</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load Water In Temp</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load Water Out Temp</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load Water In Pressure</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load Water Out Pressure</td>
<td>8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Heating</th>
<th>Cooling</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temp Change</td>
<td>5 minus (-) 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temp Change</td>
<td>7 minus (-) 8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### Complete the following information for any type of unit

<table>
<thead>
<tr>
<th>Description</th>
<th>Heating</th>
<th>Cooling</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Water In Temp</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Water Out Temp</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temp Change</td>
<td>1 minus (-) 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Pressure In (lbs)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Pressure Out (lbs)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressure Drop</td>
<td>3 minus (-) 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 Return Air Temp</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 Supply Air Temp</td>
<td>9 minus (-) 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temp Change</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**NOTES:**

1. “Temp” always refers to temperature
2. Enter temperature in degrees Fahrenheit (°F)
3. Enter pressure in pounds (lbs)

---

**Calculate Heat of Extraction (Absorption) or Heat of Rejection:**

Fluid Factor: Use 500 for water, 485 for antifreeze

\[
\text{Flow Rate (GPM)} \times \text{Water Temp Difference (°F)} \times \text{Fluid Factor} = \text{BTUH (HE or HR)}
\]

---

**Installing Contractor:** Must submit this completed form.

Fax 517-787-9341, -OR- email to: bmiles@marsdelivers.com.

**IMPORTANT:** Include customer e-mail so warranty certificate can be sent.
Geothermal Heat Pump Start-Up Certification Form

Installer Name ____________________________________________ Company Name ____________________________________________

Company Address ____________________________________________ City ____________________________ State _______ Zip/Postal Code ______________

Phone __________________________________ Installer E-Mail _______________________________________________________

Customer Name ____________________________________________ Customer E-Mail _______________________________________________________

Customer Address ____________________________________________ City ____________________________ State _______ Zip/Postal Code ______________

Phone __________________________________ Start-Up Date _______________________________________________________

Loop Type: Open __ Closed Pressurized __ Closed Non-Pressurized __ Antifreeze Type and % ________________________________

Model No. __________________________ Serial No. __________________________

REFRIGERANT: R-410A

Calculate Heat of Extraction (Absorption) or Heat of Rejection: Fluid Factor: Use 500 for water, 485 for antifreeze

________Flow Rate (GPM) X _______Water Temp Difference (°F) X _______ Fluid Factor = _________ BTUH (HE or HR)

Installing Contractor: Must submit this completed form.
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IMPORTANT: Include customer e-mail so warranty certificate can be sent.