Solar HVAC. Behind the Meter.

Keep your largest electricity loads behind the meter with the Multiaqua Inc. Solar-Ready Heat Recovery Chiller.

The Multiaqua Solar-Powered Heat Recovery Chiller is the latest in solar ready HVAC technology. With the ability to be powered directly by a PV array, batteries, or the grid, the Interphase system converts electricity to water based thermal energy for storage and self consumption. *Behind the meter.*

If you need to store solar off-peak energy, the Multiaqua system can do this for pennies on the dollar compared to EES (Electrical Energy Storage). The benefits are clear for demand response, peak-shaving, and self-supply.

**FEATURES**

- VRF-to-water based heating and cooling
- Hybrid solar or grid-tied
- Onboard Pika Islanding Inverter™ X7600
- Waste heat recovery
- 26.49 EER
- 7+ COP
- Self-supply
- Convert solar electricity to thermal energy and store as hot water or ice
- Powerful dehumidification

**APPLICATIONS**

- Residential
- Commercial and Industrial
- Hospitality
- Supermarkets
- Restaurants
- Indoor Growing
- Aquaponics
- Spa/Pool
- Domestic Hot Water

The Multiaqua Heat Recovery Chiller

*Solar-powered HVAC + energy storage system*

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1. **Multiaqua Solar Ready Heat Recovery Chiller**
   
   Self supply one of your largest energy loads. It produces simultaneous heating and cooling energy and waste heat recovery using an inverter driven compressor technology. Hybrid grid-tied or islanding operation.

2. **Pika Islanding Inverter™ X7600**
   
   This bi-directional, battery-ready inverter uses auxiliary grid sensing to perform transformerless islanding. Ideal for self consumption, demand management, load shifting.

3. **Thermal storage and EES**

   Reduce battery storage and convert solar electricity to thermal energy. Store thermal for roughly 50% of the cost of traditional battery storage.

4. **Heating and cooling**

   Compatible with radiant and forced air heating and cooling systems. Use waste heat recovered from cooling loads to produce domestic hot water, heat pools and hot tubs, and for space heating.

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### Heat $/M Btu

<table>
<thead>
<tr>
<th>COP 7.0 HRC @ $0.15/kwh</th>
<th>$6.28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane @ $2.43/gal</td>
<td>$26.61</td>
</tr>
<tr>
<td>Natural Gas @ $1.46/therm</td>
<td>$14.63</td>
</tr>
<tr>
<td>COP 1.0 Standard Elec. @ $0.15/kwh</td>
<td>$43.94</td>
</tr>
<tr>
<td>COP 3.0 Mini-Split Elec. @ $0.15/kwh</td>
<td>$14.65</td>
</tr>
</tbody>
</table>

### Cool 5T/Yr

| 13 SEER (Standard Efficiency) | $841.00 |
| 16 SEER (High Efficiency)     | $683.00 |
| 29 SEER (HRC)                 | $377.00 |

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**Comparing Batteries to Thermal Storage**

<table>
<thead>
<tr>
<th>Batteries to run 4T A/C for 10 hrs.</th>
<th>40 kWh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal to provide 4T A/C for 10 hrs.</td>
<td>40 T/h</td>
</tr>
</tbody>
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www.Multiaqua.com