

AquaGen™ Community Water

PRODUCT INFORMATION SHEET

Genesis Systems® provides communities, business, and industrial, and military installations Air-to-Water Generation utilizing state-of-the-art **Hyper Water Phasing™** requiring no standing water sources and little to no external electrical power supply (uses patented self-sustaining geothermal heating/cooling or other sources).



While other water absorption technologies refrigerate air using cooling coils to chill air next to a surface medium or solid absorbents (i.e. desiccants and metal organic frameworks (MOFs)), Genesis Systems® patented **Hyper Water Phasing™** process uses a carefully managed thermal dynamic process and multi-stage absorber to capture water at high ambient temperatures (up to 120 F). This efficient design, with the elimination of dated compressor technologies, allows operation in humidity levels and harsh or arid environments that other air-to-water technologies cannot match. **Total energy savings between 70 – 80 percent with freshwater outputs of more than 100,000 gallons/day (340,000 liters/day).**

- **Water volume: outputs of more than 100,000 gallons/day (340,000 liters/day) or greater:**
Full output based on 59°F and 60% Relative Humidity. Water within the EPA standards for potable drinking water; installation specifications ensure compliance with U.S./EU standards. Independent analysis and testing from Southwest Research Institute (SwRI) for pH, total dissolved solids, temperature, conductivity, alkalinity, copper, total hardness, chlorine, nitrite, nitrate, and lead. Plant options include remineralization of drinking water.
- **Plant size: site specific:**
Community water plants are engineered and built to meet site and community or base needs.
- **Electric power requirements:**
Use of geothermal heating/cooling provides up to 80 percent of water plant power requirements. Additional energy neutral power options include solar, waste heat, or natural gas.
- **Operating range AquaGEN™**
Full production output based on 59°F and 60% Relative Humidity (RH). Mass water will be generated as low as 18 percent RH.

Aqua-GEN™ and Hyper Water Phasing™ are trademarks of Genesis Systems, LLC and its subsidiaries. The Aqua-GEN process is patent pending in six countries and the EU registered to Genesis Systems, LLC. www.genessystems.global