

INFRASTRUCTURE BLUEPRINT

Theron H2O: 5-Year Industrial Warranty & Maintenance

Adapting ATMAG Continuous-Duty Standards for Atmospheric Water Generation
Matrices. Operational Longevity for 43,830 Continuous Hours.



The Paradigm Shift

Transitioning from Energy Turbines to Integrated Water Infrastructure



Unified Maintenance Framework

⚡ Theron Energy Core

Standard Permanent Magnet Generator (PMG) protocols focus on magnetic flux stability and thermodynamic heat dissipation. Maintenance is focused on electronic controls and mechanical balance.

💧 Theron H2O Matrix

AWG units introduce complex fluid dynamics: Multi-stage filtration (Sediment/Carbon/RO), UV sterilization, air-path sanitation, and refrigerant management (Freon/Cooling Loops).

The 43,830-Hour Standard

Sovereign Operational Longevity

While commercial AWG units are rated for intermittent standby use, Theron H2O units are engineered for **Continuous Duty**. Our warranty is built on the absolute requirement of preventative maintenance to protect the ATMAG core.

5-Year Comprehensive OEM Protection



Real-time Monitoring of TDS and Yield



Verified 43,830-Hour Lifecycle

5 Year Warranty Document

H2O Specific Maintenance Pillars



Air Path

Monthly cleaning of high-capacity air filters. 6-month replacement of electrostatic/HEPA filters to prevent fouling of the cooling core.



Water Matrix

12-month replacement of Sediment/GAC filters. 24-month replacement of the **Reverse Osmosis (RO)** membrane matrix.



Thermodynamics

Annual Freon pressure diagnostics and cooling loop integrity checks. 12-month UV Lamp replacement to ensure sterile yield.

Thermodynamic Core

Precision Cooling Management

The heart of Theron H2O is the thermodynamic exchange. Maintaining optimal Freon levels and clean evaporator coils is the single most critical factor in yield efficiency.

Our technicians perform annual calibration of the ATMAG thermal expansion valves to ensure maximum moisture extraction per kW consumed.



Consumable Replacement Schedule

Component	Frequency	Action Required	Status Log
Primary Air Filter	30 Days	Wash/Clean and Reinstall	Mandatory
Sediment / Carbon Filters	12 Months	Full OEM Replacement	Mandatory
Reverse Osmosis Matrix	24 Months	Industrial RO Membrane Swop	Tactical
UV Sterilization Lamp	9,000 Hrs	Bulb Replacement & Calibration	Mission Critical
Refrigerant (Freon)	Annual	Pressure Check & Leak Diagnostic	Inspection Only





Unmatched Industry Moat

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**Months of Guaranteed
Infrastructure Autonomy**

Standard retail warranties expire before the first major RO maintenance cycle. Theron H2O protects your capital through the entire first lifecycle of the machine.

Warranty Conditions & Obligations

-  **Log Integrity:** Client must maintain a digital maintenance log on the Theron Dashboard for warranty validation.
-  **OEM Parts Only:** Warranty is voided if non-Theron filters or membranes are utilized in the matrix.
-  **Power Quality:** Units must be operated within the specified voltage ranges of the ATMAG GENSET or Theron Energy inputs.
-  **Unauthorized Access:** Opening the sealed PMG housing or Freon loop by non-certified personnel terminates coverage immediately.

Yield Performance vs. Maintenance

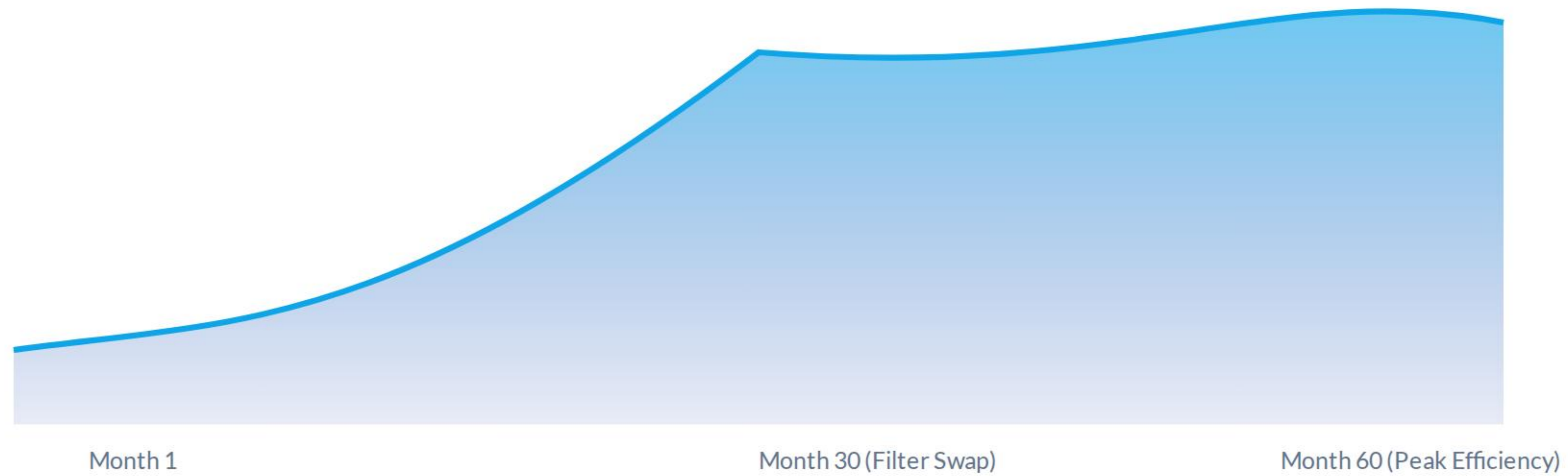


Figure 1.0: Impact of Scheduled Membrane and Filter Swaps on Daily Gallon Yield.

Our Responsibility to the Planet

"We only have one blue planet... it is our duty to safeguard Earth by converting air into water. True sustainability is achieved through energy and water autonomy."

- Cornelius B. Theron, Senior Engineer

Ready for Deployment

Maintenance Documentation & Board Directives are now Hardened.

Support Channel: support@theronh2o.com

Technical HQ: Jupiter, Palm Beach, Florida

Image Sources



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