ATMOS

ATMOSPHERIC WATER SOLUTION

GEN-M Pro

www.atmoswater.co.za

Atmos's largest water generator that produces up to 900 listres of fresh, clean drinking water from air daily

The Gen-M Pro is a reliable source of fresh, clean drinking water, providing up to 900 litres of water from air daily with no infrastructure other than electricity.

Each Gen-M Pro is built as a modular unit, so as water requirements grow, it can be easily integrated with other units to create drinking water from air production farms.

The Gen-M Pro's inbuilt heat exchanger produces drinking water from 15°C to 20% humidity in various climate conditions. The built-in multi-barrier air filtration system removes micro-particles and organic traces. It adds essential minerals to ensure the high quality of the water generated and maintains freshness and purity regardless of air quality.

Gen-M Pro is delivering high-quality drinking water in nations characterized by varying air quality and challenging terrains. The provision spans Asia, the Middle East, Latin America, Africa, and the United States.

Gen-M Pro Advantages

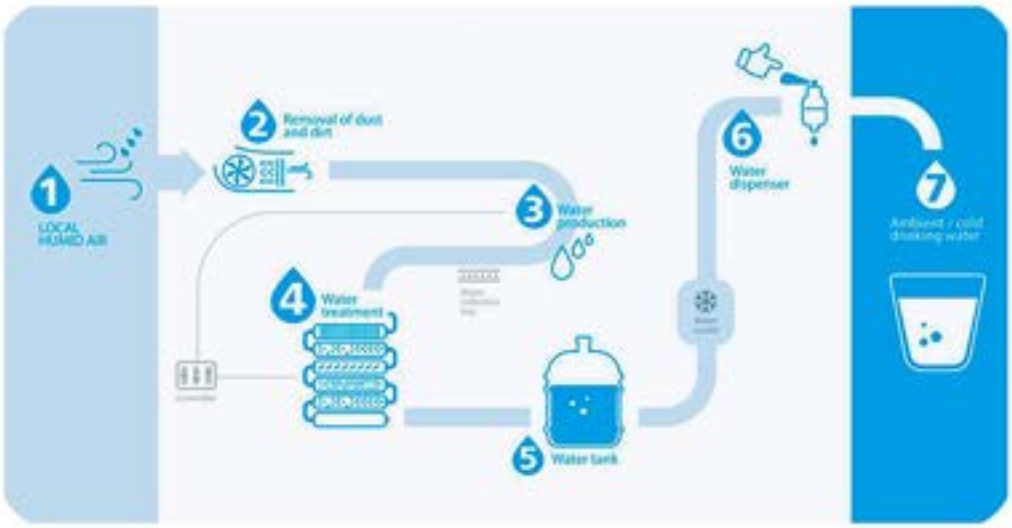
- ✓ **High-quality drinking water**
  Fresh, clean and safe drinking water from air
- ✓ **Water production**
  Range of climates, from 15°C and 20% humidity
- ✓ **Off-grid solution**
  No plumbing or municipal infrastructure needed
- ✓ **Convenience**
  Water production right at the point of use
- ✓ **Unique and innovative technology**
  Revolutionary, patented heat-exchanger
- ✓ **Integrations**
  Create drinking water from air production farms
- ✓ **Environmentally friendly**
  Eliminates plastic waste and carbon footprint
- ✓ **Standards compliance**
  Exceeds international drinking water safety standards

GEN-M Pro

About Atmos

Atmos, an international group, originally aimed to aid underserved communities in South Africa but expanded globally to support areas with water scarcity and health challenges. Now present in multiple countries across Africa and Asia, Atmos can rapidly invest and deploy generation units, positioning itself for swift market expansion. Revenue streams include bottled water, bulk water, and strategic placement of generation units in mining, oil, and industrial hubs.

How it works



The technology operates by pulling air into the atmospheric water generator, where a dust and dirt removing air filter is employed. Subsequently, the purified air undergoes a heat exchange and cooling procedure, reaching the condensation point to create water.
This water then traverses a multi-stage cascade of filters, encompassing chemical and biological filtration as well as mineralization.

The resultant water, now potable, is stored in an integrated reservoir, undergoing continuous circulation to maintain its freshness.

Airports

Mining

Schools

Shopping Malls

Hospitals

Offshore Oil Rigs

GEN-M Pro

Specifications

Water generation capacity	**Up to 900 litres**
Water temperature	**Ambient**
Working environment	**≥15°C. Relative Humidity: ≥**
Dimensions	**1.46m x 1.50m x 1.74m (Height size considered with legs)**
Weight	**715kg (dry)**
Power consumption	**Nominal 5.6KW/H, Peak power up to 10KW/H**
Average power consumption	**400W per litre**
Electricity supply	**EU: 230/400 Vac, 50 Hz, 3 Phases** **US: 120/208 Vac, 60 Hz, 3 Phases**
Air filtration	**Sub-micron barrier filter that eliminates <2.5 particulate matter**
Water purification	**Multi-step filtration cascade of water-certified filters set, followed by a germicidal UV lamp. Vital minerals balance the water's pH to achieve high purification and tasty drinking water.**

Technical Specifications

Category	Specification	Value	
		Imperial	Metric
Dimensions	Length	62.6"	1590 mm
	Width	33"	840 mm
	Height	51.2"	1300 mm
	Weight	1716 pounds	350 kg
Operation, storage and transportation climate	Operation	59°F-104°F ±15%	15°C-40°C
	Storage and transportation	14°F-107°F	-10°C to 75°C
Air filters	Filtration method	Multi barrier air filtration	
Water production and purification	pH	6.5-8.5	
	Purification method	Removing heavy metals, particles filtration, biological treatment, organic compounds (VOC, SVOC) and mineralization by ultraviolet-C germicidal reactor	
	Production Capacity Per Day	58.1 gallons (26.8°C/80%RH)	220 L (26.8°C/80%RH)
	Refrigerant	R410A	
	Dispensing options	Ambient	Ambient
Acoustic	Noise Levels	≤ 75 dBA	
Lifting and transportation platform	Transportation	Standard cargo	
	Lifting	Standard - Forklift	
Electricity	Nominal Operation voltage	EU: 1 Phase US: Split phases	230V/50Hz 240/60Hz
	Allowed Deviation on individual phases, Self Protected	Voltage ±5% Frequency ±1Hz	
	Power Consumption	Nominal: 2.2 kW Peak: Up to 3.5 kW	
	Energy Efficiency (26.6 °C, 60%RH)	350 Wh/L	
	Facility power distribution	US: 2 Phases, 250Vac C16A, and ground fault circuit interrupter ROW: 1 Phase, 250Vac, C16A, and residual current circuit breaker	
	Mains Power Connection	Permanent connection ROW: Per local regulation US: NEMA 5-20 or equivalent	
	Electrical wires	ROW: phase neutral and gesund US: phase-1, phase-2 and ground	
Certifications (Plan in progress)	Electrical safety	**EU, Israel:** CE, CA, CB - EN 60335-1, EN 60335-2-40, EN 60335-2-21, EN 62233, EN 60335-2-24, EN 60529, EN 60335-2-109 **US:** UL - UL979 **Japan:** PSE - J 60335-2-24(H29), J 60335-1(H27), J 60335-1(H20), J 60335-1(H20), J 55014-1(H27) **Australia:** EN/IEC60335-1, EN/IEC60335-2-15, EN/IEC60335-2-40, COS **China:** CCC - GB 4706.1-2005, GB 4706.39-2008, GB 4706.13-2014	
	Electromagnetic Compatibility	**EU, Israel:** EMC Directive 2014/30/EU – EN 61000-6-4, EN 61000-6-2, EN 61000-3-2, EN 61000-3-3, EN 301 489-1, EN 301 489-17, EN 300 328, EN 62311 **Japan:** EMC , JRF , JATE **US:** CFR 47, FCC 2015	
	Water safety	**US:** ASSE/ANSI (IAPMO - ASSE 1070), ASSE LEC 1087 Prop 65, NSF 42, NSF 372 **Israel:** IS 5452 **Australia:** AS/NZS 4020:2005 **France:** NF T 54-150, NF EN 1717, T 90-601 **Japan:** Positive List MOH **China:** GB 5749-2006	

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