Dalrada TECHNOLOGY GROUP

AtmoPura™

Atmospheric Water Generator

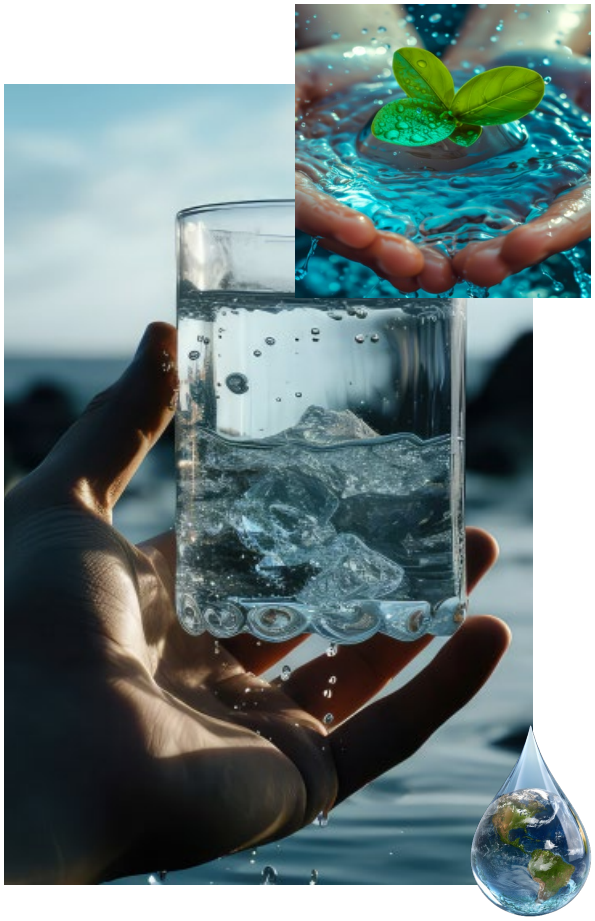
The Ultimate Solution for Water Scarcity.

Water: The Essence of Life

Clean water is essential, sacred, and indispensable to all life forms. For millennia, the world has struggled with addressing water insecurity as a serious long-term threat.

Ongoing implications include:

- ✓ Famine and food shortages
- ✓ Incomplete irrigation of food crops and soil
- ✓ Malnutrition in humans, plants, and animals
- ✓ Dangerous health risks for all living organisms



The Challenge

Access to pure, clean drinking water is not guaranteed in many locations around the globe.

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AtmoPura

Atmospheric water, a modern and ancestral solution.

Since antiquity, humans have sought to extract water from the atmosphere. The Incas, for example, collected moisture by stretching large nets between two masts to capture fog, while the Persians used earthen towers cleverly designed to create a natural airflow and condense humidity.

At the beginning of the 20th century, the invention of modern air conditioning by W. Carrier in 1906 marked a turning point, making it possible to collect atmospheric water on an industrial scale.

AtmoPura™ atmospheric water generator: a self-contained, mobile solution that delivers high-quality water nearly anywhere on earth.

Dalrada's solution does more than replicate traditional techniques; **it pushes the boundaries to provide natural, pure, and balanced water**, while being mineralized to meet drinking water quality standards.

By reusing ancestral principles combined **with modern innovations**, we ensure healthy drinking water produced sustainably and with a reduced environmental footprint.

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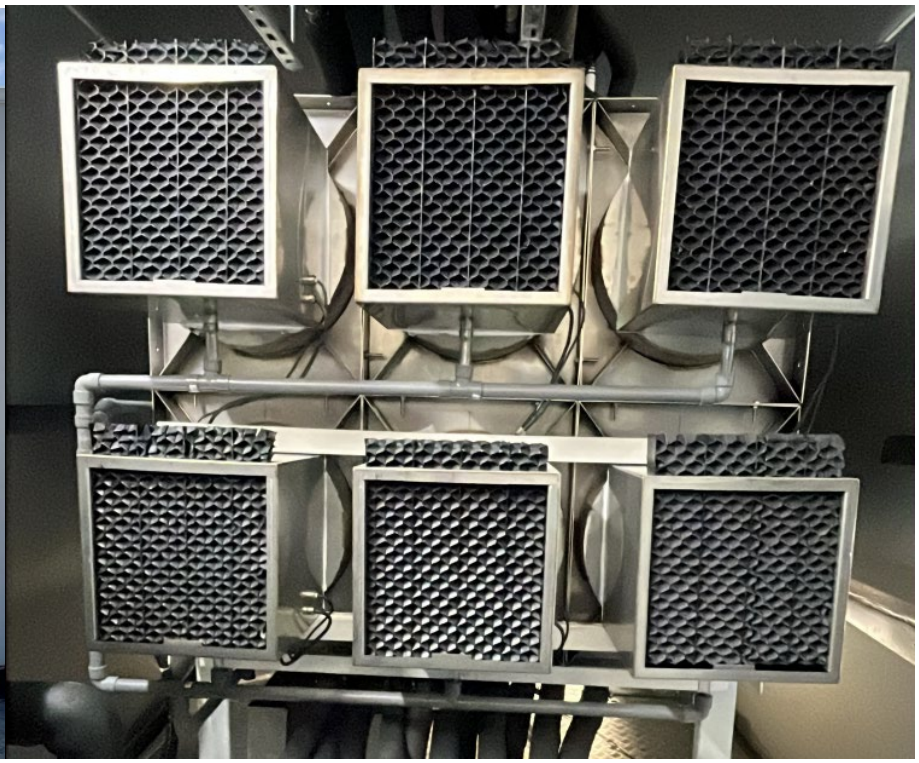
Consumption

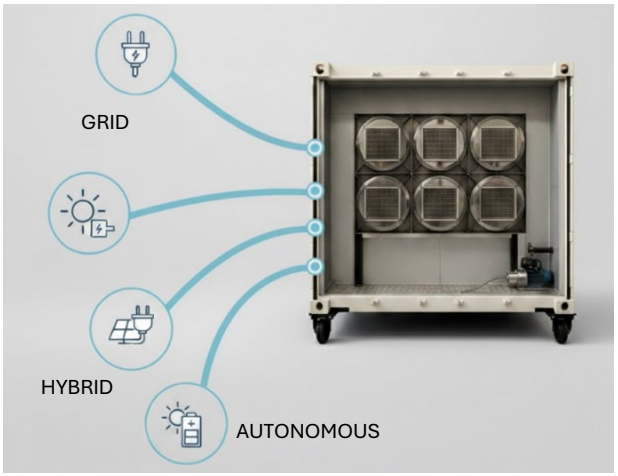
The power consumption and production capacities of Dalrada's AtmoPura generators are specified under the following conditions: 27°C and 70% humidity.

The average consumption is 50 watts per liter. The operating limits of the units range between 4°C and 64°C, and between 8% RH and 98% RH.



The low energy consumption of AtmoPura generators allows us to offer them as a standalone solution with photovoltaic solar production.

Our outputs are tested in laboratories, and their performance is certified (there is no association of atmospheric water generator manufacturers like there is for air conditioner manufacturers, which is why we created **our own certification** in collaboration with a globally recognized certification body).



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Applications

Humanitarian & Emergency Relief
Refugee camps, disaster zones

Critical Infrastructure
Hospitals, schools, data centers, hotels

Industrial & Agricultural
Mining, textiles, precision agriculture

Remote / Military / Island Deployments
Self-sufficient water supply anywhere

AtmoPura Benefits

- ✓ **Sustainability:** 100% durable, environmentally safe, and non-polluting
- ✓ **Quality:** Production of pure, natural water from an original source
- ✓ **Accessibility:** Water is easily accessible and consumable wherever it is produced
- ✓ **Compatibility:** Compatible with any necessary treatments and complementary minerals
- ✓ **Remote Monitoring:** System is monitored and controlled remotely using advanced satellite access
- ✓ **Autonomous:** Machines can be powered in a variety of ways
- ✓ **Mobile:** Units are readily available in shipping containers for easy transport and quick installation anywhere in the world

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Proven Quality

When clean drinking water becomes scarce, Dalrada atmospheric water generators represent a sustainable and innovative solution. Through the use of cutting-edge technology, these unique devices produce **high-quality water** from the humidity in the air, offering a reliable alternative in dry regions or in times of insecurity or shortage.

The quality of the water produced is controlled and monitored

We offer an exceptional filtration solution, developed in collaboration with renowned laboratories and research centers.

Our filters incorporate advanced materials and proprietary processes for optimal removal of contaminants, even at very low concentrations:

- ✓ **Heavy metals**
- ✓ **Pesticides**
- ✓ **PFAS**
- ✓ **Irradiated water**
- ✓ **Presence of manganese and other critical pollutants**

Filtration performance: certified by CNRS and the Pasteur Institute.

The water analyzers installed in our equipment are NF certified: ISO 24510 / 46001 (water management and quality), ISO 10523 / 5667 (pH measurement and water sampling), ISO 15839.

The filters used guarantee the following performance levels:

- ✓ Exceeds WHO / EU / EPA standards
- ✓ Removes > 98% of PFAS & pesticides; inactivates 99.99% of pathogens
- ✓ Heavy metals = below detection limits

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Our Value Proposition

Dalrada delivers a complete end-to-end solution:

- **Simulation & Design tailored to site and climate**
- **Global Logistics and commissioning**
- **Ongoing Support & Warranty** (up to 10 years)
- **Sustainable ROI via decentralized, low-cost water generation**

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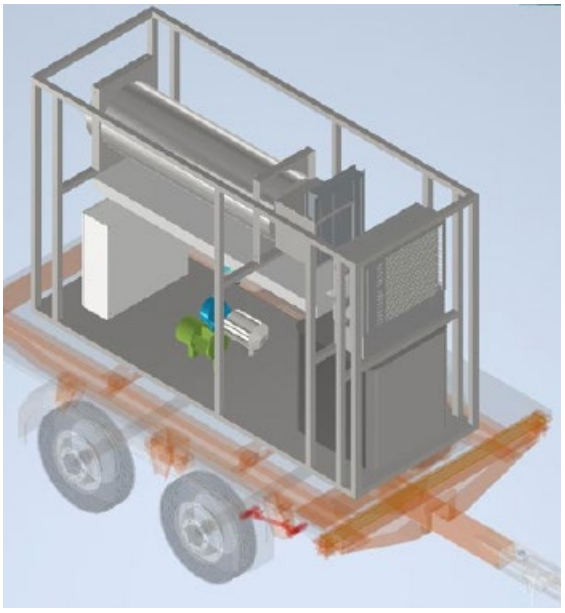
Technical Specifications

Specifications	AQ1 (1000 L/day)	AQ5	AQ10
Water production (Liters (Gal) / Day)	1,000 Liters (264 Gallons)	6,000 Liters (1,585 Gallons)	12,000 Liters (3,170 Gallons)
Air filter	G4 / Electrostatic Anti-bacterial	G4 / Electrostatic Anti-bacterial	G4 / Electrostatic Anti-bacterial
Water filtration system	Patented cartridge and UV lamp	Patented cartridge and UV lamp	Patented cartridge and UV lamp
Dimensions W x D x H (cm/in)	330 x 125 x 200 (129.92" x 49.21" x 78.74“)	605 x 238 x 258 (238.19" × 93.70" × 101.57“)	605 x 238 x 258 (238.19" × 93.70" × 101.57“)
Net Weight (kg/ lbs)	611kg (1,348 lbs)	6,900kg (15,213 lbs)	8,800 (19,401 lbs)
Power Supply	400-3-50	400-3-50	400-3-50
Power Consumption (kWh)	from 1 to 4.4	from 3 to 21	from 4 to 28
Refrigerant	R32	R32	R32
Condenser coil	Brine treatment	Brine treatment	Brine treatment
Evaporator coil	Stainless steel – Food grade	Stainless steel – Food grade	Stainless steel – Food grade
Evaporator Fan (Nm^3/h)	1,000 to 3,300	1,500 to 21,800	2,500 to 39,600



Visual overview of the AQ1

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Water production for an AQ10 exchanger depending on ambient temperature and humidity

Technical Specifications

Humidity (%)	14°C	16°C	18°C	20°C	22°C	24°C	26°C	28°C
15%	1030.8 L	1165.2 L	1312.8 L	1477.2 L	1659.6 L	1861.2 L	2083.2 L	2326.8 L
20%	1375.2 L	1552.8 L	1750.8 L	1970.4 L	2212.8 L	2481.6 L	2776.8 L	3103.2 L
25%	1718.4 L	1941.6 L	2188.8 L	2462.4 L	2766.0 L	3102.0 L	3471.6 L	3878.4 L
30%	2062.8 L	2329.2 L	2626.8 L	2955.6 L	3319.2 L	3721.2 L	4165.2 L	4654.8 L
35%	2406.0 L	2718.0 L	3063.6 L	3447.6 L	3872.4 L	4341.6 L	4860.0 L	5430.0 L
40%	2749.2 L	3105.6 L	3501.6 L	3940.8 L	4425.6 L	4962.0 L	5553.6 L	6206.4 L
45%	3093.6 L	3494.4 L	3939.6 L	4432.8 L	4978.8 L	5582.4 L	6248.4 L	6981.6 L
50%	3436.8 L	3882.0 L	4377.6 L	4926.0 L	5532.0 L	6202.8 L	6943.2 L	7756.8 L
55%	3781.2 L	4270.8 L	4814.4 L	5418.0 L	6085.2 L	6823.2 L	7636.8 L	8533.2 L
60%	4124.4 L	4658.4 L	5252.4 L	5910.0 L	6638.4 L	7443.6 L	8331.6 L	9308.4 L
65%	4467.6 L	5047.2 L	5690.4 L	6403.2 L	7191.6 L	8064.0 L	9025.2 L	10084.8 L
70%	4812.0 L	5434.8 L	6128.4 L	6895.2 L	7744.8 L	8684.4 L	9720.0 L	10680.0 L
75%	5155.2 L	5823.6 L	6565.2 L	7388.4 L	8298.0 L	9304.8 L	10413.6 L	11636.4 L
80%	5499.6 L	6212.4 L	7003.2 L	7880.4 L	8852.4 L	9925.2 L	11108.4 L	12411.6 L
85%	5842.8 L	6600.0 L	7441.2 L	8373.6 L	9405.6 L	10545.6 L	11802.0 L	13188.0 L
90%	6187.2 L	6988.8 L	7879.2 L	8865.6 L	9958.8 L	11164.8 L	12496.8 L	13963.2 L
95%	6530.4 L	7376.4 L	8316.0 L	9358.8 L	10512.0 L	11785.2 L	13191.6 L	14738.4 L

Humidity (%)	30°C	32°C	34°C	36°C	38°C	40°C	42°C	44°C
15%	2595.6 L	2890.8 L	3214.8 L	3567.6 L	3955.2 L	4377.6 L	4837.2 L	5337.6 L
20%	3460.8 L	3854.4 L	4285.2 L	4758 L	5272.8 L	5835.6 L	6450 L	7117.2 L
25%	4326 L	4818 L	5356.8 L	5947.2 L	6591.6 L	7294.8 L	8061.6 L	8896.8 L
30%	5191.2 L	5781.6 L	6428.4 L	7136.4 L	7910.4 L	8754 L	9674.4 L	10676.4 L
35%	6057.6 L	6745.2 L	7500 L	8325.6 L	9228 L	10213.2 L	11287.2 L	12454.8 L
40%	6922.8 L	7708.8 L	8571.6 L	9514.8 L	10546.8 L	11672.4 L	12898.8 L	14234.4 L
45%	7788 L	8672.4 L	9643.2 L	10704 L	11864.4 L	13131.6 L	14511.6 L	16014 L
50%	8653.2 L	9636 L	10713.6 L	11894.4 L	13183.2 L	14590.8 L	16124.4 L	17793.6 L
55%	9518.4 L	10599.6 L	11785.2 L	13083.6 L	14502 L	16050 L	17736 L	19573.2 L
60%	10383.6 L	11563.2 L	12856.8 L	14272.8 L	15819.6 L	17508 L	19348.8 L	19958.4 L
65%	11248.8 L	12526.8 L	13928.4 L	15462 L	17138.4 L	18967.2 L	19958.4 L	19958.4 L
70%	12114 L	13490.4 L	15000 L	16651.2 L	18456 L	19958.4 L	19958.4 L	19958.4 L
75%	12979.2 L	14454 L	16071.6 L	17840.4 L	19774.8 L	19958.4 L	19958.4 L	19958.4 L
80%	13844.4 L	15417.6 L	17142 L	19029.6 L	19958.4 L	19958.4 L	19958.4 L	19958.4 L
85%	14709.6 L	16381.2 L	18213.6 L	19958.4 L	19958.4 L	19958.4 L	19958.4 L	19958.4 L
90%	15574.8 L	17344.8 L	19285.2 L	19958.4 L	19958.4 L	19958.4 L	19958.4 L	19958.4 L
95%	16441.2 L	18308.4 L	19958.4 L	19958.4 L	19958.4 L	19958.4 L	19958.4 L	19958.4 L

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