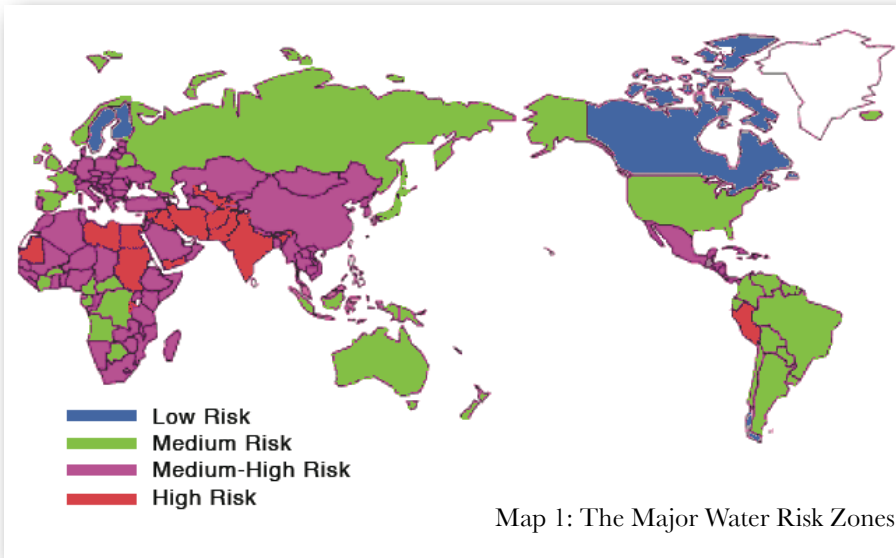


The Dewpoint® Commercial Series: Innovative Drinking Water Solutions for a Changing World



Emerging markets for the Dewpoint® The greatest needs ...

As the population increases, the available water supply decreases because industry and agriculture must have access to that water to support the population growth. We are now past the tipping point.

To help rebalance the need, AWGs can provide a safe and effective means to supply fresh water for human consumption and commercial/industry needs. And, because of the portability of the Dewpoint® systems, access to fresh water is easily available just about anywhere in the world.

Potential Applications:

- Hydroponics
- Small to medium industrial applications
- Small community water systems
- Individual home systems
- Business drinking water systems
- Restaurants
- Spas & Health clubs
- Hotels and resorts
- Hospitals and medical facilities
- Emergency response
- Viticulture
- Schools

The need for fresh water is increasing ... but available fresh water is rapidly decreasing

Global water consumption increased sixfold in the last century, more than twice the rate of population growth, and will continue growing rapidly in coming decades. Yet readily available freshwater is a finite resource, equivalent to less than one percent of the water on Earth.¹

Furthermore, water and populations are unevenly distributed across the globe; arid and semi-arid regions receive only two percent of all surface runoff yet account for 40 percent of the global land area and house half of the world's poor.

Finally, our existing freshwater resources are under heavy threat from over-exploitation, pollution, and climate change. Map 1 above indicates that the need for fresh drinking water is at a critical global turning point.

Given these trends, equitably providing adequate water resources for agriculture, industry and human consumption poses one of the greatest challenges of the 21st century.

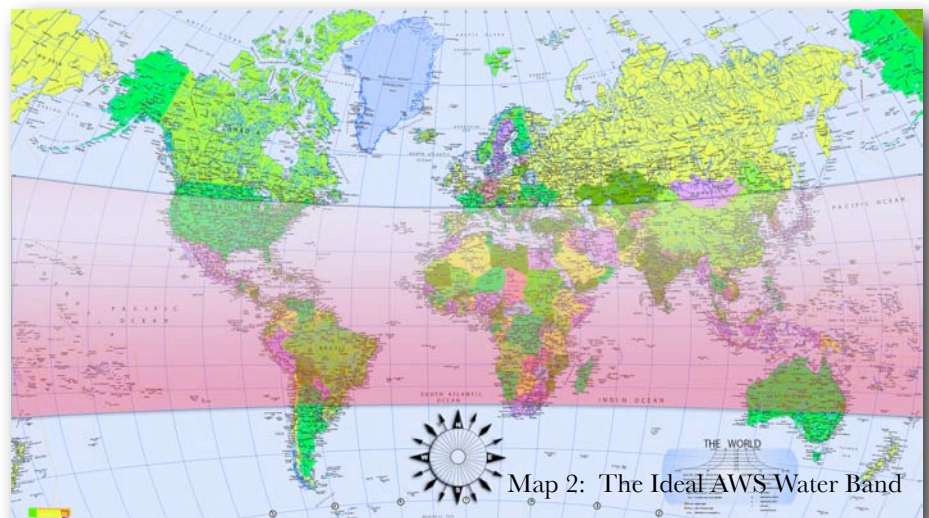
At the current rate of annual fresh water consumption, an estimated three billion people will live below the water stress threshold by 2025. While the world's population is projected to increase by 50 percent by 2050, the need for fresh water will increase at an even higher percentage because of increased demands

on agriculture and industry to support this growth.

The ideal "water band" When an AWG is the perfect answer

Atmospheric water generating systems (AWGs) operate the most efficiently in warm, humid environments. The higher the relative humidity and temperature is, the higher the water production levels.

Map 2 below displays what we call the ideal "Water Band". This Water Band falls between about 30° North Latitude to 30° South Latitude. The closer to the equator, the more efficient the water production.



Introducing Atmospheric Water Systems that can extract as much as 150 gallons or more a day!

Why purchase a Dewpointe®? It's all in the name ...

The Dewpointe® name stands for quality, dependability and unparalleled service. Among all of the brands of atmospheric water systems available today, no other company offers the support, training, warranty and incomparable value as does Atmospheric Water Systems, Inc. (AWS).

What sets the Dewpointe® apart from the competition? Opportunities and challenges

Limited Warranty: Each commercial atmospheric water system carries a one-year parts, 90-day labor and a three-year compressor guaranty from manufacturing defects.

Replacement Parts Inventory: Replacement parts for repairs and general maintenance are conveniently housed in our more than 8,000 square foot facility in San Luis Obispo, CA.

Customer Support: Our customer service department is available via our technical support phone line.

Installation: The AWS engineering staff and technical experts are available to assist you in preparing for the installation of your Dewpointe® on site.

Technical Training: AWS provides training for your maintenance staff in San Luis Obispo, via teleconferencing and DVD training programs. Technical service manuals are also available.

Refrigeration options: R-22 has been the refrigerant of choice for cooling systems for more than four decades. Although R-22 is highly efficient, the release of R-22 from system leakages contributes to ozone depletion. R22 is being phased out and replacement refrigerant systems are now available for the Dewpointe® systems.

As an alternative to R22 refrigerants, Du Pont developed the R407C refrigerant, whose values closely resemble those of R22. R407C refrigerant is less harmful on the environment and the energy effectiveness of R407C is close to the energy effectiveness of R22. R407C is the most widely accepted replacement refrigerant to R22.

Auxiliary Water Options: The commercial Dewpointe® water systems are also engineered to accept municipal water to supplement atmospheric water production. This supplemental water is processed through the Dewpointe® advanced filtration system for maximum purity.

Two High Water Production

Commercial Units: AWS offers two dependable commercial atmospheric water systems: the CH200 and the CH500.

The Dewpointe® CH200 produces approximately 200 liters (53 U.S. gallons) of pure drinking water a day (30°C (86°F) and 80% RH).

The Dewpointe® CH500 produces approximately 500 liters (132 U.S. gallons) of pure drinking water a day (30°C (86°F) and 80% RH).

Cost Efficiency: The Dewpointe® commercial water systems operate on 220 V 60 Hz or 380 V 50 Hz three-phase power. Based on installations of these systems around the world, at an average of 64% RH and 25° C (77° F), the CH200 produced 59.4 gallons per day and used 1.99 kWh to produce each gallon of water. At an average of 60% RH and 31° C (88° F), the CH500 produced 109 gallons per day and used 2.01 KW to produce each gallon of water.

Energy costs around the world vary greatly from as low as \$.04 per kWh to as much as \$.30 per kWh. Based on this range of power costs, a gallon of pure water produced by the Dewpointe® systems would run from \$.08 to \$.60.



FOOTNOTES:

1. Water Shortages Rising Across the Globe, But Especially India, Jaymi Heimbuch, San Francisco, California, 05.15.09, Science & Technology.
2. Map: Projected Water Shortages by 2025: From Stockholm Environment Institute, Comprehensive Assessment of the Fresh-water Resources of the World, 1997.

Technical Specifications

What makes us different?

Application Range:

Temperature range:
15° to 38° C
(59° to 101° F)
Humidity range:
35% to 95%.

Dewpoint® CH200 Commercial Atmospheric Water Generator

Water Production:
200 L (52.8 gal)/Day
@ 30°C (86°F) and
80% RH

Dimensions:
165 x 65 x 128 cm
(65" x 25.5" x 50")

Water Storage:
110 L (29 gals)

Weight:
320 Kg (705.5 lbs.)

Refrigerant:
R22, R407c

Power Rating:
4.6 KW

Electrical:
220 V / 60 Hz or
380V / 50 Hz
3 Phase

Noise Level:
< 79 db

Limited Warranty:
1 year parts
90 days labor
3 years compressor

CH500 Dewpoint® Commercial Atmospheric Water Generator

Water Production:
500 L (132 gals)/Day
@ 30°C (86°F) and 80%
RH

Dimensions:
235 x 85 x 146 cm
(128" x 33.5" x 57.5")

Water Storage:
240 L (63.5 gals)

Weight:
560 Kg (1234.5 lbs)

Refrigerant:
R22, R407c

Power Rating:
10 KW

Electrical:
220 V / 60 Hz or
380V / 50 Hz - 3 Phase

Noise Level:
< 79 db
Limited Warranty:
1 year parts
90 days labor
3 years compressor

How the System Works

Fresh air, containing natural moisture, is drawn through an electrostatic air filter and then passed over an evaporator. Because the temperature of the evaporator's surface is lower than the dew point of moisture in the air, the moisture condenses into water drops. This condensed water collects in a holding tray, and then flows into the system's bottom tank. The collected water is filtered through activated carbon and reverse osmosis filters, sterilized by UV lights and then stored in a stainless steel storage reservoir.

The Dewpoint® CH200 and the CH500 meet or exceed the minimum requirements for water quality standards under section 303(a)-(c) of the Clean Water Act and the U.S. EPA's regulations for water as defined in 40 CFR Part 131.

The Filtration System

What makes us different?

Filtration System: The Dewpoint® CH200 and CH500 Atmospheric Water Generators feature a sophisticated water filtration and water disinfection process. The complete water purification system includes five filters and three ultraviolet lights. To further ensure the highest water quality, each of the filters has a system duplicate. Included are two bacteria restraining filters, two activated carbon coconut shell filters, two coconut shell carbon block filters, two coconut shell post-activated carbon filters, and two zero-waste reverse osmosis filters.

Antibacterial Ultraviolet System: Ultraviolet (UV) radiation sterilizes water by destroying bacteria, viruses, yeasts, molds, and algae. For UV radiation to work, a 254 nanometer wavelength must come in contact with the microorganisms to destroy their DNA and prevent them from reproducing. Each commercial Dewpoint® contains two 11W

antibacterial ultraviolet lights and one 6W antibacterial ultraviolet light.

WATER FILTERS

Filter: Bacteria Restraining PPF
Material: Polypropylene
Size: 10"
Quantity: 2
Service Life: 1,500 Gallons

Filter: Activated Carbon Filter
Material: Coconut Shell Carbon
Size: 10"
Quantity: 2
Service Life: 3,000 Gallons

Filter: Carbon Block Filter
Material: Coconut Shell Carbon
Size: 10"
Quantity: 2
Service Life: 3,000 Gallons

Filter: Post-Activated Carbon Filter
Material: Coconut shell carbon
Size: 10"
Quantity: 1
Service Life: 9,000 Gallons

Filter: Reverse Osmosis
Material: TW30-1812-50
Size: 14"
Quantity: 2
Manufacturer: DOW Chemical, USA
Service Life: 2-3 years

ULTRAVIOLET LIGHTS

Light Filtration
Filter: UV Light Bulb
Material: 11W
Quantity: 2
Manufacturer: Philips, Sweden
Service Life: 8,000 hours

Filter: UV Light Bulb
Material: 6W
Quantity: 1
Manufacturer: Philips, Sweden
Service Life: 8,000 hours

For more information contact:
Atmospheric Water Systems, Inc.
189 Cross Street
San Luis Obispo, CA 93401 USA
805.858.9280
website: www.aws-h2o.com
email: cs@aws-h2o.com

Commercial Unit Inquiry

Contact Name: _____

Business Name: _____

Address, City, State, Zip: _____

Phone Number: _____

Fax Number: _____

Email: _____

How did you hear about us?

What is your time deadline for these large commercial units?

Have you reviewed the AWS technical specifications for these units?

Is there a budget for the commercial unit? How much?

When is the anticipated date you would need to have a system operating?

How much water will be needed on a daily basis (liters/gallons)? _____

Minimum: _____ Maximum: _____

Water use (i.e. drinking, food prep, industrial, agricultural, etc.)

Do you have a way to store the water produced? Explain.

Do you have a location for installation? Please indicate approximate square footage available and distance from site of desired use.

What is the average temperature and humidity of the location?

Is there access to water now? Where is the current source?

Do you have access to consistent electrical power? Indicate electrical configurations and plug type.

Will you be using an alternative power source (i.e. solar, wind, generator)? How much power is available?

