



AWG-EUROPE LTD.

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To: Whom it may concern

Thanks for your interest to our Atmospheric Water Generator (AWG)!

Regarding your concern about contamination or virus getting in water, by this letter - on behalf of Shenzhen FND Air & Water Technology Development Co., Ltd - we would like to provide some more information for the filtration and disinfection system of our machines.

DECLARATION

1. Patented Material for Filtration system

Modified Zeolite (Patent ID: ZL200310105501.8)

Modified Zeolite is an independent Innovation from FND, used as purification material in Shenzhou 5 spacecraft. The advantages of Modified Zeolite included: High porosity, large surface area, strong ion exchange, high adsorption and catalytic, high acid, heat & radiation resistance.

Modified Zeolite had outstanding effect on reducing heavy metal and organic biology. Controlling the contamination, Modified Zeolite extends the life span of the filter.

- **10X effective than carbon (Organic Biology)**
- **10X effective than KDF (Toxic Ingredient)**

2. 3-stages Air Filtration System

High density air filter layer + HEPA Cotton Filter + Modified Zeolite and Carbon Improve air quality, avoid excessive intake of harmful substances. Remove at least 99.97% of dust, pollen, mold, bacteria, and any airborne particles with size of 0.3 microns (μm).

Specification

Filter Materials	Part No.	M-WCRP2065
	Usage (m^2)	0.28
	Origami height (mm)	H329+0-0.5
	Folding width (mm)	6
	Spacing (mm)	5
Filter Performance	Air resistance (Pa)	35
	Filtration efficiency 0.3 μm (%)	$\geq 65\%$
	CADR (m^3/h)	300

3. 4-stages RO Water Filtration System

PP1+ 400GPD RO2+ MF3 + MC4

400 Gallon Reverse Osmosis Purification accuracy is 0.0001 micron. Removes dissolved inorganic solids, heavy metals, nitrates, pesticides, sulfates, fluoride, bacteria, pharmaceuticals, arsenic and odors, no Chlorine, Fluoride or municipal water contaminants.

a) PP1 Carbon Block Filter

Purification accuracy	10µm
Oxygen consumption removal rate	≥ 25%
Residual chlorine removal rate	≥ 93 % residual chlorine addition test
Turbidity removal rate	Subject to ISO12103 standard A2 powder, adjust the inlet turbidity to 10~15 NTU, and the outlet turbidity <0.2 NTU
Other health indicators	National Standard Requirements for Sanitary Standards for Drinking Water (GB5749-2006)

b) RO2 400GPD Reverse Osmosis Membrane Filter

Purification accuracy	0.0001µm
Desalination rate	≥ 95%
Oxygen consumption removal rate	≥ 25%
Recovery rate	≥ 55%
Residual chlorine removal rate	≥ 93 % residual chlorine addition test Microbiological index The total coliforms, heat-resistant coliforms, and Escherichia coli must not be detected in every 100 mL of water sample. The total number of colonies ≤ 20 CFU/mL.
Other health indicators	National Standard Requirements for Sanitary Standards for Drinking Water (GB5749-2006)

c) MF3 Mineral Filter

Purification accuracy	10µm
Oxygen consumption removal rate	≥ 20%
Residual chlorine removal rate	≥ 93 % residual chlorine addition test
Turbidity removal rate	Subject to ISO12103 standard A2 powder, adjust the inlet turbidity to 10~15 NTU, and the outlet turbidity <0.2 NTU
Microbiological index	The total coliforms, heat-resistant coliforms, and Escherichia coli must not be detected in every 100 mL of water sample. The total number of colonies ≤ 20 CFU/mL.
Other health indicators	National Standard Requirements for Sanitary Standards for Drinking Water (GB5749-2006)



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d) MC4 M-cell composite filter

Particle size range	0.315-1.25mm
Residual chlorine removal rate	≥ 90 % residual chlorine addition test
Turbidity removal rate	Subject to ISO12103 standard A2 powder, adjust the inlet turbidity to 10~15 NTU, and the outlet turbidity <0.2 NTU
Ammonia nitrogen removal rate	<0.5mg/L
Other health indicators	National Standard Requirements for Sanitary Standards for Drinking Water (GB5749-2006)

4. UV light Disinfection System

To ensure the water quality, consistent bacteria and virus resistance design is priority. UV-C light (254 nm) disrupts the DNA of micro-organisms thus preventing them from reproducing, thereby 99.9% effectively killing them.

Our standard product pre-installed UVC light disinfection plus our auto-circulation program which enable devices to be self-clean process for 15 minutes in each 4 hours.

Specification

Lamp Power	7.2W (±15%)
Lamp Voltage	28V (± 8)
Lamp Current	261mA
Wavelength	254nm
Radiation intensity (1m distance)	≥16μw/cm ³
Average lifespan	≥5000 hours

For your consideration AWG machines have been manufactured by Shenzhen FND Air & Water Technology Development Co., Ltd already use by our international clients in USA, Mexico, South Africa, Kenya, Chile, UAE, Pakistan, India, Spain, France, Thailand, Indonesia, etc.

Hopefully by this statement which we provide in this letter, you and your organization will be rest assured our AWG as the best solution for healthy drinking water to the society.

Sincerely Yours,

László Szilágyi

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