



Time to re-think your Hydration Situation?



ALCONA Advanced Hydration System

Produces 15 litres per hour/ 360 litres per day of 100% safe, clean-tasting, potable water.

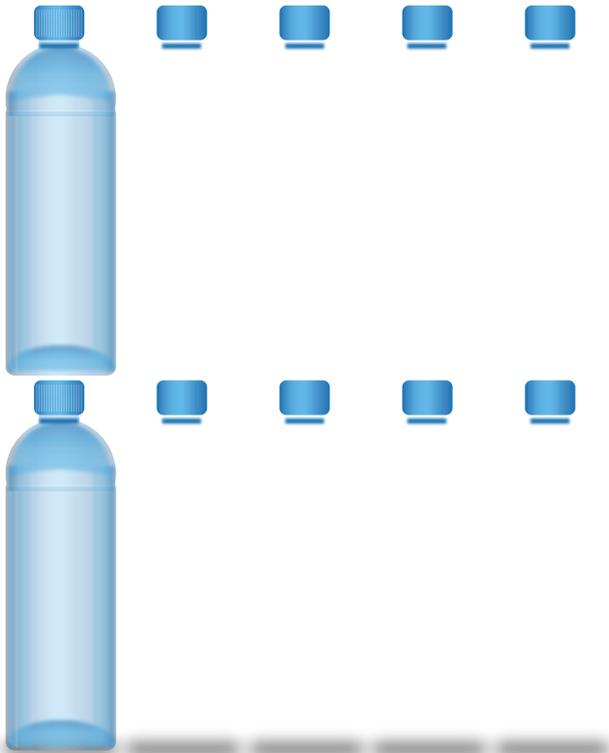
Purchase, deliver and install just once*.

Bottled Water

Requires regular and constant purchase, delivery, and replenishment*.

Requires extensive storage capacity at every stage of life-cycle.

Empty bottles require disposal/recycling.



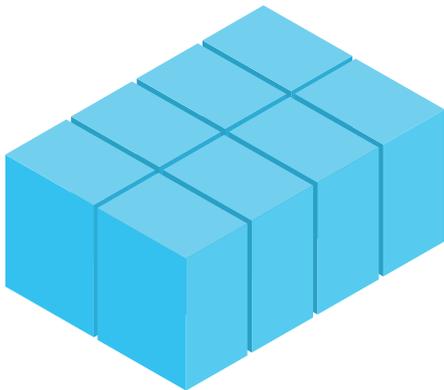
*The National Academies of Sciences recommends a safe daily intake of **3.5 litres of water per person, per day.**



1165mm

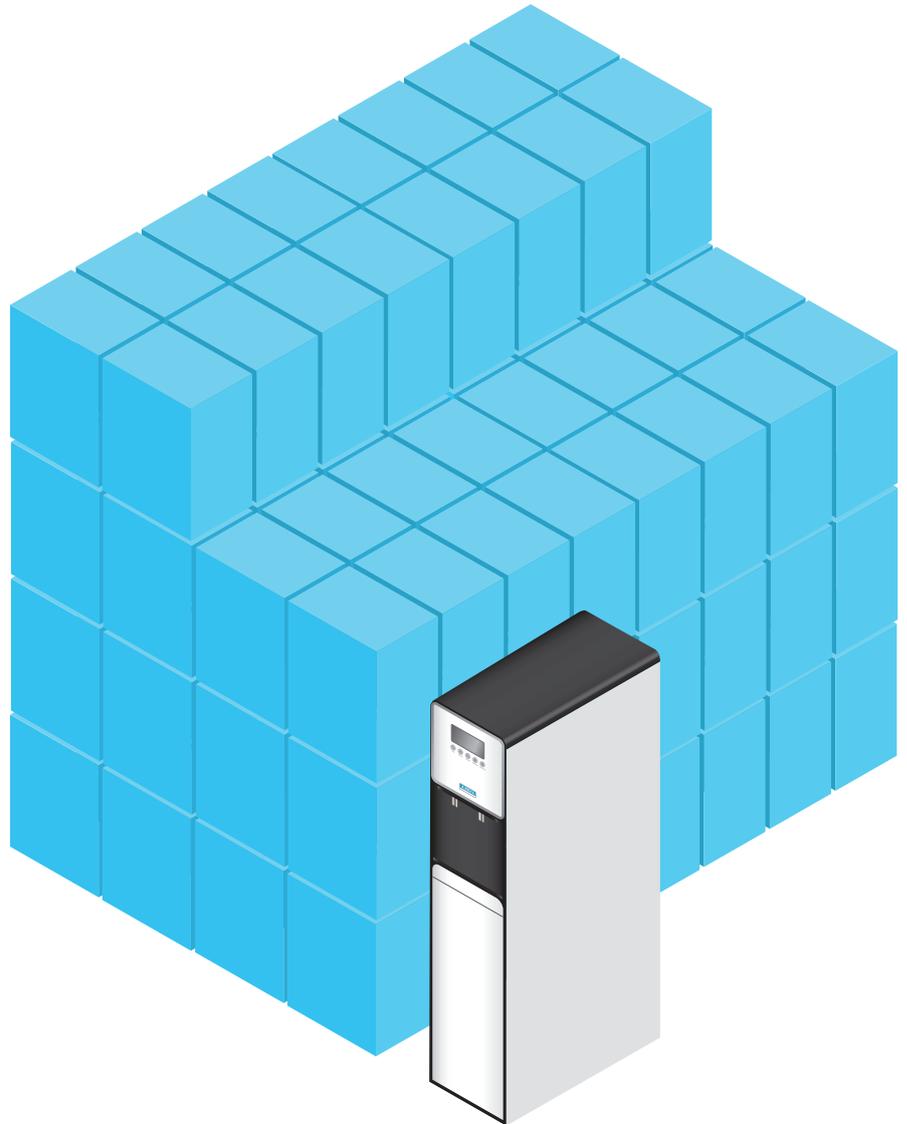
*Dispenser unit plumbs into vessel's on-board water supply.

Are you and your crews winning “The Space Race”?



One Day's Consumption of Bottled Water

20 Man Crew
3.5 Litres per Man
48 x 1.5 Litre Bottles



14 Day's Consumption of Bottled Water

672 x 1.5 Litre Bottles / 1,000 Litres

v

1 ALCONA AHS Unit

Capable of delivering 360 Litres per Day
100% Safe, Clean, Mineralised Water.

Benefits of the ALCONA Advanced Hydration System (AHS)



1. Increased Safety & Consistency - Not all bottled waters are created equal, which is why consistency is important. Some sources of bottled water may contain contaminants. Water may be stored for prolonged periods in hot sunlight during transport or warehousing. It's difficult to monitor and manage all of these variables across a global supply chain.

The ALCONA AHS unit works directly with water from your own vessel and applies constant, certified-safe levels of filtration, at source, to ensure water that is guaranteed to be consistent, clean and safe to drink, or cook with, wherever you are in the world.



2. Minimise Logistics - It is recommended that adults consume at least 3.5 litres of water per day, this amount increases for crews working in hot conditions. Consequently, providing bottled water for your work crews requires constant replenishment, administration, logistical effort and massive amounts of storage space at every staging point.

With the ALCONA AHS your water source is right where it's needed 24/7, virtually eliminating your logistical and storage problems and saving the manpower and cost required for administration, transport, loading, warehousing, on-board distribution and finally, waste disposal and recycling.



3. Clear Cost Savings - It's easy to see that the ALCONA AHS will deliver an incomparable cost-per-litre compared to bottled water alternatives.

After the one-time cost-of-purchase and installation, the only ongoing cost is the replacement filters which are compact in size, require minimal logistical and storage expense and are readily available for resupply from AMOS.



4. Reduce Plastic Waste - At AMOS we are keen advocates of waste reduction, especially the elimination of plastic bottles in the workplace*.

Aside from the obvious environmental benefits of reducing plastic waste there's also the added trail of environmental costs associated with supplying bottled water; transporting, storing, loading, unloading - all of which consumes energy and contributes to harmful emissions. The ALCONA AHS puts clean potable water on-board your vessel, right where it's needed 24/7, virtually eliminating the logistical tail and the associated waste altogether.

* AMOS offers a selection of non-plastic, refillable/reuseable personal water bottles for crews.

S T R O N G B U S I N E S S C A S E



The ALCONA AHS | 8-Stage Filtration Process Explained

WATER TREATMENT



Stage 1 - Poly Polypropylene Filter (PPF): Removes coarse sediment and contamination particles greater than 5 microns.

Stage 2 - UDF: Commonly referred to as the Granular Activated Carbon Filter, these help remove chemical pollutants often found in water such as Lead, Chlorine or Cadmium. The filter also removes particles greater than 0.03 microns

Stage 3 - Chlorine, Taste and Odour (CTO): Helps improve taste and provide clearer water. This filter removes particles greater than 0.1 microns.

Stage 4 - Reverse Osmosis (RO): Removes 99.9% of all water born particles including bacteria, heavy metals, and organic substances. This filter removes particles greater than 0.0001 microns.

POST-TREATMENT & REPLENISHMENT

Stage 5 - Alkaline Water Filter Cartridge:
The Alkaline filter helps reduce acidity and rebalance the PH levels in the water.

Stage 6 - Mineralising Filter: This filter is designed to re-introduce natural minerals into the drinking water. Minerals added include calcium, potassium, sodium, and magnesium.

- **Sodium** (Na⁺): beneficial for hydration and balanced acidity throughout the human body.
- **Calcium** (Ca²⁺): beneficial for bones, teeth and heart and muscle function.
- **Magnesium** (Mg²⁺): benefits the immune and nervous systems which play a crucial role in chemical processes within the human body.
- **Potassium** (K⁺): helps maintain human body pH balance.

Stage 7 - T33: Commonly known as the polishing filter, this is the final filtration stage before the water is dispersed. The T33 is able to adsorb even the tiniest amounts of plastic flavour that may be produced by the storage tank and piping inside the AHS unit.

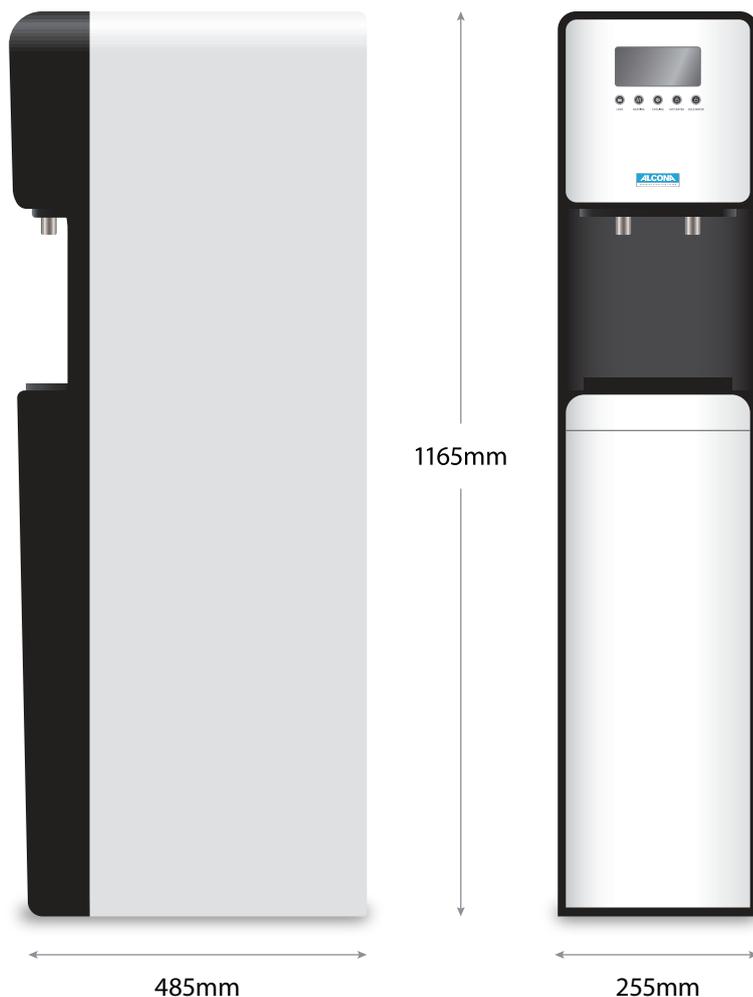
FINAL DISINFECTANT

Stage 8 - Ultraviolet (UV): This is the final phase of the AHS system, effectively disinfecting all remaining bacteria from the water. UV rays penetrate harmful pathogens and micro-organisms by attacking and eliminating their genetic core (DNA).

Reverse Osmosis DEFINITION

“A water purification process that uses a series of partially permeable membranes to remove unwanted particles, chemicals and bacteria from drinking water.”





LED displays water level and filter lifespan and replacement warnings



Dispenses hot & cold water

Unit capable of producing up to 15L of safe drinking water per hour - 5L storage tank

Front panel opens for easy access during maintenance and filter replacement

Compact footprint for easy installation in galleys and crewspaces

FILTERED WATER DISPENSER

Compact water dispenser unit with 8-stage filtration, providing 100% safe, mineralised drinking water. Unit can easily be connected to on-board (110v or 220v) electricity and non-filtered water supply. Unit can process up to 15 litres of hot or cold water per hour and has a 5 litre storage tank. Front LED panel displays water level and filter lifespan/replacement warnings.

Filters can be easily accessed and replaced via the front cabinet door.

1 Year Product Warranty.

SPECIFICATIONS

Dimensions	1165 x 485 x 255mm	Capacity	3.2L (Cold) & 1.8L (Hot) Storage
Voltage	110v and 220v	Max Output	15 Litres per Hour
Certifications	Appliance: CE Approved Filters: GB/T 5750-2006 & GB 5749-2006		