

## AQS WATER CAPACITY (@ 220V, 77F/25C)

WATER PRODUCTION CAPACITY	
Freshwater Ultra-Filtration:	1,200 gallons per day (4,540 liters per day)
RO Freshwater:	500 GPD (1,900 LPD)
WATER PUMP ONLY CAPACITY	
	3,500 GPD (13,250 LPD)

## AQS POWER REQUIREMENT

Unit Power Option:	Universal 120v / 240v / DC
External Power Requirements:	100-265 Vac 1.36-2.72A 47-63 Hz
Solar:	Compatible with standard solar and 24v DC

## AQS BENEFITS

Single Operator:	easy operation and maintenance, deployable in minutes
4 Step Setup:	1) connect hoses 2) connect cables 3) insert intake pump into source water 4) connect to power source
Individual Filter Indicator:	notifies the uses when filter needs to be changes or flushed
Digital LED Information Panel:	displays water production and diagnostics
Size and Portability:	Pelican case water and dust proof, wheels, 3 handles
Range from Water Source:	up to 50 feet
Weather-Resistant	waterproof panel, IP-67 internal wiring allows for harsh weather operation
Secure Operation:	monitors water production and pressure
Self-Disinfection:	sterilization of water and ambient air in case
Sleeve Filters (No Cartridges):	minimal filter changes (can fit 50 filters in case)
Manual Valve Mode:	valve can be turned manually in case of power loss and unit can operate as a gravity fed system
LED UVC Lamp:	safe and rigid design for transport
3- Modes of Operation:	1. Filtration Only 2. Freshwater RO 3. Pump Only
Transport:	airline compliant weight and size for check-in

## AQS CONTROL PANEL

Interface:	intuitive, easy operation
Digital LED Information Panel:	displays water parameters, filter change notification, TDS
Circuit Breaker:	protects internal components from amperage spikes during startup
Flush Pump:	manual reverse osmosis flush option (plug to pump)
Emergency OFF:	all pumps and electronics are shut off
Power Inputs:	safe plugs for powering unit using an external power source (IP 67)
Intake Pump Inlet:	safe plug for powering intake pump (IP 67)
2 Pressure Gauges:	pre-filtration low pressure, RO pressure (redundancy for monitoring screen)
AQS Control Cluster:	Optional GPS

## AQS SAFETY FEATURES

TDS Monitoring:	visual alarm notifies when threshold reached
Low Voltage Operation:	power inverter assures proper voltage of all internal electronics
Filter Change Alarm:	informs when to rinse or change filters using pressure differential sensors
Self-Disinfection:	disinfects the internal hoses and ambient air with in the case
Communication Optional:	unit can send operator alarm messages via SIM card
Leak Alarm:	notifies the user there is water accumulating in the case

## DIGITAL LED INFORMATION PANEL

Water TDS monitoring:	TDS display in ppm, temp adjustment
Temperature monitoring:	display in C and F: water temperature
Pressure monitoring:	display in PSI and BAR: 1 for low pressure pre-filtration, and 1 pressure post-filtration or after RO
Flowmeter:	water flow rate indicated

## CABLES

External Power Source Cable:	10 feet (3 meter), with safety shock buster connection (115V or 230V)
Extended Range Power Cable:	32 feet (10 meter), IP 67 plugs
Intake Pump Power Cable:	25 feet (7.5 meter), IP 67 plugs

## PUMP

Intake Pump Power Requirement:	24V DC
Intake Pump Positioning/Style:	vertical / horizontal submersible stainless-steel pump
Intake Pump Material:	polyethylene / stainless steel (DIN W.-Nr. 1.4301)

Intake Pump Motor:	stainless steel (DIN W.-Nr. 1.4301) (ANSI 304)
Intake Pump Body:	stainless steel / polyamide
Minimum Borehole Diameter:	5 inches (13 cm) with handle
Intake Pump Motor Protection:	protected against dry running, overvoltage, under-voltage, overload, overheating

## HOSES

Intake, Discharge, RO Hoses:	3 x 25 feet (7.5 meter) hose
Extended Range Hoses:	2 x 32 feet (10 meter)
Adapters:	2 x garden hose adapters
Extended Range Adapter:	1 x adapter, binds two extended range hoses

## AQS BODY & CASE

Pick Up Handles:	3 handles on Pelican Case and 2 handles on AQS unit
Internal Frame:	aluminum frame, powder coated, ABS panel
Wheels:	2 wheels and retractable handle
Body:	heavy duty, waterproof, dust proof Pelican case, lifetime warranty
Internal Handles:	2, unit easily removable from frame

## AQS SPECIFICATIONS

Dimensions (L x W x H):	inches: 32,6 x 18,4 x 11, cm: 83 x 47 x 28
Dry Weight:	49 lbs., 22.3 kg (dry)

## INTAKE PUMP SPECIFICATIONS

Dimensions OD x L:	inches: 5 x 35, cm: 13 x 89
Weight (with cable and Housing):	9.5 lbs. (4.3 kg)

## DX CASE SPECIFICATIONS (Deployment Case)

Dimensions (L x W x H):	inches: 32,6 x 18,4 x 11, cm: 83 x 47 x 28
Weight:	31 lbs. (14kg) With all peripherals and intake pump included
Body:	Pelican case, HIPS separators

# SOURCE AND PRODUCT WATER SPECIFICATION

Water Output Standards:	meets NSF and WHO drinking water standards
Freshwater Reverse Osmosis:	99.99 elimination of bacteria and viruses
Source Water Temperature Range:	2 - 35°C, 35 - 95°F
Source Water pH Range:	2 - 11
Membrane:	Polyamide Thin Film Composite,
Membrane Complies with:	FDA - 21 CFR 177.2550

## 6 STAGE PURIFICATION SUMMARY

Stage 1:	particle screen (stainless steel, on intake pump)
Stage 2:	50 micron disc filter
Stage 3:	rinse-able (5 micron) sleeve filter, 20"
Stage 4:	granular carbon cartridge
Stage 5:	reverse osmosis freshwater/ light brackish membrane
Stage 6:	LED ultraviolet sterilization lamp
Stage 7:	post filter, carbon, 10"

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