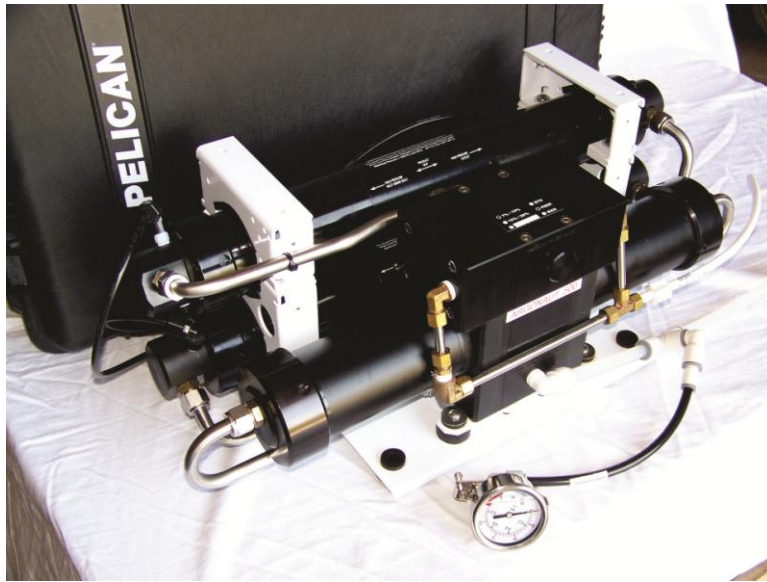




Argonaut 700

Lightweight, RO, Expeditionary Desalination System



The **Argonaut 700** is a lightweight, highly portable, seawater reverse osmosis desalination system, designed for use in rugged conditions where normal electrical infrastructure is not available, or when supply train logistics are not available.

The Argonaut 700 provides a level of potable water output not before available in a system of this size or power flexibility.

The Argonaut 700 uses an external DC power source provided by either flexible solar panels (directly), solar- or generator-charged lithium batteries, 24 volt vehicle alternators, or AC power through an inverter. The low pressure and dual membrane design provide for very low power consumption and is ideally suited

for small lightweight solar panel energy input and other non conventional DC power sources. In addition, the propriety design has a internal brine energy recovery system to increase membrane pressure without the need for additional electrical energy. This feature further enhances the efficiency of the Argonaut 700.

The Argonaut 700 requires only nine amps of DC power to operate. The unit produces 500 gallons per day (gpd) of purified water from any brackish or seawater source. The fresh water produced has a 99.5% total dissolved solids (TDS) rejection rating and can operate in seawater up to 48,000 ppm of TDS.

The total RO unit is extremely compact and light weight requires only 1.7 cubic feet of space with a total weight of 91 pounds. The system can be contained in a Pelican case, skid-mounted, or permanently vehicle-mounted, as required.

When using the flexible solar power system and battery pack, an additional nine cubic feet is required in two separate cases of 80 pounds and 115 pounds respectively. This brings the total system weight to 286 lb. in three modular unit totaling 10.7 cubic feet.

Specifications: Argonaut 700 Series

RO Unit only: Weight 41 lb. Dimensions: 10 inches high x 11.5 inches wide x 27 inches long.

RO Unit, with Pump, Controls: Weight 89 lb. Dimensions: 12 inches high x 21 inches wide x 30 long.

Foldable Solar Panels: Weight 79 lb. Dimensions: 12 inches high 17 wide x 59 long.

Lithium Battery Pack: Weight 115 lb. Dimensions: 12 inches high x 12 wide x 12 long.

DC Electrical Supply: 24-48 volts, 9 amps, 50 volts max.

Operating pressure pre-recovery unit: 80-100 psi; post recovery 800-1,000 psi.