

## Aldelano Solar ColdBox™ Specifications & Features

### Models:

#### Sub-Zero Freezer (40ft and 20ft options)

-10 degrees to +40 degrees Fahrenheit\* (-23.3 to +4.4 Celsius)

#### Refrigerator (40ft and 20ft options)

0 degrees to +55 degrees Fahrenheit\* (-17.8 to +12.8 Celsius)

#### Side-by-Side Refrigerator/Freezer (40ft option)

Freezer compartment and Refrigerator compartment in the same unit

#### BackPack™ – Solar-powered refrigeration equipment paired to your existing insulated container or cold room

Sub-Zero Freezer and Refrigerator options

\*Inside temperatures will not exceed outside temperatures

### Specifications:

#### 40 foot Solar ColdBox

Outside dimensions: 40ft x 8ft x 9.5ft (12.19m x 2.44m x 2.9m)  
Inside dimensions: 32.5ft x 6.75ft x 8ft (9.91m x 2.06m x 2.44m)  
Weight: 16,700 lbs

#### 20 foot Solar ColdBox

Outside dimensions: 20ft x 8ft x 8.5ft (6.10m x 2.44m x 2.59m)  
Inside dimensions: 13.75ft x 6.75ft x 7.25ft (4.19m x 2.06m x 2.21m)  
Weight: 11,700 lbs

#### 40 foot Side-by-Side Solar ColdBox

Outside dimensions: 40ft x 8ft x 9.5ft (12.19m x 2.44m x 2.9m)  
Freezer compartment inside dimensions: 11.0ft x 6.75ft x 8ft (3.35m x 2.06m x 2.44m)  
Refrigerator compartment inside dimensions: 21.5ft x 6.75ft x 8ft (6.5m x 2.06m x 2.44m)  
Weight: 16,700 lbs

#### Backpack

5.8ft x 7.5ft x 8ft (1.77m x 2.3m x 2.44m)  
Weight: 5,300 lbs

Dimensions are approximate and do not include solar panels or optional add-ons.



Aldelano Solar Backpack™

### Power Supply:

Off-grid/Solar Powered with Battery Storage and Generator Backup (gasoline and diesel options available)

- Runs directly from solar power during the day and stored solar energy (batteries) at night
- Up to 15 hour battery feed before generator is needed
- The Aldelano SmartLogic™ system automatically switches to an alternative energy source (generator or grid power) when batteries reach pre-set discharge levels and automatically reverts when batteries are fully charged
- Generator simultaneously runs the equipment and charges the batteries reducing the need for the generator
- Option to grid-tie if desired or can select fully on-grid option
- Energy efficient (240 volt, single phase)

### Features:

- 50 hz and 60 hz models available
- On-board displays and optional alarms for temperature monitoring
- Optional remote temperature monitoring and remote temperature control
- Can be used as an independent power supply for both 110v and 220v items
- Drive-in T-floor supports forklift and facilitates air circulation
- Special weather-proof coating seals against rust and reflects UV rays keeping the box cooler and running more efficiently
- Ships as a fully assembled unit, just set up and connect solar panels
- Complete unit handles and transports as a standard shipping container
- Filtration system protects components from the elements including sand and dust
- Easy to set up
- Easy to operate
- Quality of Made in the USA

### Options:

#### Aldelano Solar WaterMaker™ – Water from Air

- Extracts moisture from the humidity in the air and purifies it for drinking.
- Models range from 30 to 1000 gallons per day
- 7 stage filtration system
- Solar powered
- Operating conditions require 60°F (15.6° C) and 60% relative humidity
- Operates best in ideal conditions of 80° F (26.6° C) and 80% relative humidity

#### Aldelano Solar IceMaker™

- Used in conjunction with the Aldelano Solar WaterMaker™, converts water to ice
- Models range from 120 to 2300 lbs of ice per day



## Aldelano Solar Chiller Specifications & Features

### Models:

#### Chiller 8ft x 12ft

45 degrees to 70 degrees Fahrenheit (7.2 to 21.1 degrees Celsius)

Outside dimensions: 10ft x 14.5ft x 8.5ft

Inside dimensions: 7ft x 10.33ft x 6ft

Weight: 4,300 lbs

#### Chiller 8ft x 20ft

45 degrees to 70 degrees Fahrenheit (7.2 to 21.1 degrees Celsius)

Outside dimensions: 8ft x 20ft x 8.5ft

Inside dimensions: 7.25ft x 13.75ft x 7.5ft

Weight: 7,500 lbs

#### Chiller 8ft x 40ft

45 degrees to 70 degrees Fahrenheit (7.2 to 21.1 degrees Celsius)

Outside dimensions: 8ft x 40ft x 9.5ft

Inside dimensions: 7.5ft x 37.83ft x 8ft

Weight: 13,000 lbs

Dimensions & weights are approximate and do not include solar panels or optional add-ons.

### Power Supply:

Off-grid/Solar Powered with Battery Storage and Generator Backup (gasoline or diesel)

- Runs directly from solar power during the day and stored solar energy (batteries) at night
- Up to 15 hour battery feed before generator is needed
- The Aldelano SmartLogic™ system automatically switches to an alternative energy source (generator or grid power) when batteries reach pre-set discharge levels and automatically reverts when batteries are fully charged
- Generator simultaneously runs the equipment and charges the batteries reducing the need for the generator
- Energy efficient (240 volt, single phase)

### Features:

- On-board displays and optional alarms for temperature monitoring
- Optional remote temperature monitoring and remote temperature control
- Ships fully assembled or broken down
- Filtration system protects components from the elements including sand and dust
- Easy to set up and operate
- Quality of Made in the USA





Solar | Off-Grid  
Refrigeration | Freezing | Water | Ice | Power

## Aldelano Solar WaterMaker™ Specifications & Features

### Production Capacity:

Models range from 30 to 1000 gallons per day\*

\*In ideal conditions of 80°F (26.7°C) and 80% relative humidity

### Operating Conditions:

Temperature: 60° - 120° F (15.5° – 49°C)

Relative Humidity: 60% - 100%

\*please note that water production is greatest in higher temperatures and humidity

### Dimensions:

#### 30gal WaterMaker

Dimensions: 6.5ft x 4.3ft x 6ft

PowerStation Dimensions: 6.6ft x 5.1ft x 3.3ft

Weight: 5,900lbs (total including PowerStation and panels)

#### 50gal WaterMaker

Dimensions: 6.5ft x 4.3ft x 6ft

PowerStation Dimensions: 6.6ft x 5.1ft x 3.3ft

Weight: 5,900lbs (total including PowerStation and panels)

#### 125gal WaterMaker

Dimensions: 6.6ft x 4ft x 5.75ft

PowerStation Dimensions: 5.1ft x 3.3ft x 6.6ft

Weight: 24,000 lbs (total including PowerStation and panels)

#### 375gal WaterMaker

Dimensions: 20ft x 8ft x 8.5ft

PowerStation Dimensions: 20ft x 8ft x 8.5ft

Weight: 80,000lbs (total including PowerStation and panels)

#### 500gal WaterMaker

Dimensions: 20ft x 8ft x 8.5ft

PowerStation Dimensions: 20ft x 8ft x 8.5ft

Weight: 102,900 lbs (total including PowerStation and panels)

#### 1000gal WaterMaker

Dimensions: 40ft x 8ft x 9.5ft

PowerStation Dimensions: (2) 20ft x 8ft x 8.5ft containers

Weight: 205,800lbs (total including PowerStation and panels)

*\*dimensions are approximate*





## Power Supply:

Off-grid/Solar Powered with Battery Storage and optional Generator Backup

- Runs directly from solar power during the day and stored solar energy (batteries) at night
- Up to 15 hour battery feed
- The Aldelano SmartLogic™ system automatically switches to an alternative energy source (optional generator or grid power) when batteries reach pre-set discharge levels and reverts when batteries are fully charged
- Energy Efficient (240 volt, single phase)

## Features:

- 7-stage filtration/purification system
  - Ozonator and UV lights sterilize water by killing viruses and bacteria
  - Sediment filters reduce dirt, sand and rust
  - Carbon filters reduce odors and help ensure great taste
- Re-mineralization filter adds natural calcium and magnesium minerals to the water
- Convenient water dispenser for cups and bottles
- Fast-fill spigot for buckets
- Pair with Aldelano Solar IceMaker™ for up to 120 lbs. of ice daily
- Convenient shut-off valve to control when water goes to ice maker
- Optional remote performance monitoring/troubleshooting
- 50 hz and 60 hz models available
- Use as an independent power supply for both 110v and 220v items
- Ships fully assembled.
- Filtration system protects components from the elements including sand and dust
- Easy to set up and operate
- Quality made in the USA

## Options:

### Aldelano Solar IceMaker™

- Used in conjunction with the Aldelano Solar WaterMaker™, can convert water to produce from 120 to 2300 lbs. of ice daily (55 - 1043 kg) depending on the model selected.

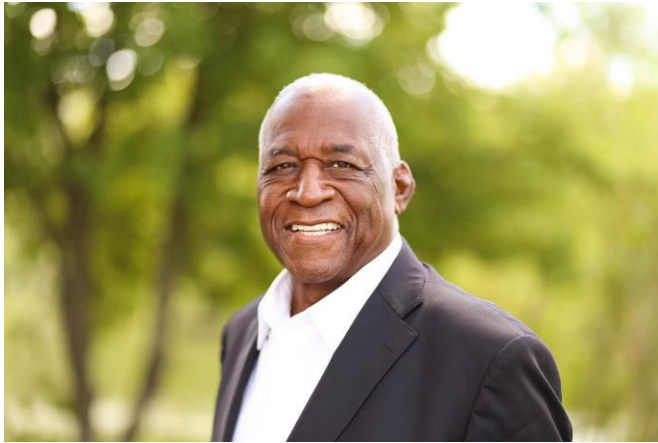
### Customized Generator:

- Comes with 15 gallon fuel tank or upgrade to 55 gallon tank



## Biography of Alfred D. Hollingsworth

### *CEO, Aldelano Corporation*



Al Hollingsworth is a business leader, international speaker, minister, author and owner of the Aldelano Corporation. A successful entrepreneur, Hollingsworth's heart is to help others succeed in the visions, dreams, and ideas God gives them.

Hollingsworth received his life's direction in college when a voice spoke to him and said that he would be a successful businessman for God's glory—a revelation that changed his life. After graduation, Hollingsworth was recruited in

sales by a paper and packaging company. Soon he was on the way to founding his own packaging company, the [Aldelano Corporation](#). He met his match in Hattie, a bright, eager sales employee who soon became his wife. The business flourished, but having been swept up in the excitement and demands of running an expanding company, the Hollingsworths did not.

"We were considered successful, wealthy business people, but we were falling apart," Hollingsworth remembers. "I sought God earnestly. He responded, and we entered into a new covenant: You take care of my business, Alfred, and I'll take care of your business." In its nearly fifty year history, the Aldelano Corporation has become a leader in contract packaging, specializing in refrigerated supply chain solutions, with plants that service major and Fortune 500 clients including Kellogg's, Procter & Gamble, Sunny Delight, American Airlines, Toyota, General Mills, Red Bull and Verizon. Aldelano has built a reputation of dependability and trust and has received numerous awards and accolades. Business acknowledgements include NMSDC's Corporate Plus distinction, the Achievement Recognition Award from President Richard Nixon, City of Los Angeles Minority Global Export Firm of the Year, Businessman of the Year and the Award of Excellence from the United States Department of Commerce.

Aldelano Corporation's most recent innovation, the Aldelano Solar ColdBox™, perfectly reflects Al's commitment to serve God's Kingdom through excellence in business. "My travels throughout the world have taken me to nations that are rich in natural resources, yet are poor because they don't have systems in place to preserve their food from harvest to market," Hollingsworth says. "Nations and people throughout the world are poor, hungry, sick and destitute due to their inability to access their own wealth. I asked God what my company could do to change that. The Solar Cold Box is the answer. It was totally a God thing."

Hollingsworth's problem-solving nature guides his approach to both business and ministry. While he served as Economic Development Commissioner for the state of California, he recognized that youth would soon face an economic crisis and wanted to give them an alternative to gangs, drugs, and hopelessness. In response, the Hollingsworths founded the internationally-acclaimed, Christ-centered *B.O.S.S. The Movement* youth success training curriculum and its adult component, the *Vertical Leap*

*Seminar.* The programs' biblically-based training principles have been embraced throughout the U.S. and around the world in regions such as Japan, Kenya, South Africa, Switzerland, Ghana, Jamaica, Italy, Ukraine, Brazil, Belgium, the Philippines, Indonesia, and the Bahamas. The movement has trained thousands on market place ministry ethics and applications.

Hollingsworth's community and ministry involvements include Board of Directors for both Promise Keepers and Save Africa's Children, Ministry Council Member of Empowered 21 and Azusa Street Centennial, and Weiner Ministries. Hollingsworth also sits on the Board of Regents for Oral Roberts University and has appeared on TBN, CBN, Day Star, and PTL.

Al and Hattie Hollingsworth are also founders of the Alhatti Private Christian Resort, a four-star vacation and retreat facility located in Idyllwild, California, in the mountains above Palm Springs. Situated on the former filming grounds for the *Bonanza* TV series, the Alhatti Christian Resort is a premier retreat, conference, wedding, vacation and event center for Christian churches and families around the world.

The couple currently resides in California. They are proud parents who love spending time with their grandchildren and great-grandchildren.

## **Q&A with Alfred D. Hollingsworth CEO of Aldelano Corporation**

**Q: When we think about the factors causing world hunger, the problem seems obvious; there must be a food shortage. Can you explain why this is a misleading assumption?**

It's true that simply finding ways to produce more food will not solve the hunger problem. The reason? Experts estimate that 1/3 of the world's current food supply actually goes to waste. At least 40% of that food loss occurs post-harvest, costing developing nations \$310 billion a year. This waste primarily occurs at early stages of the food value chain, often because of limited access to storage and cooling facilities. My travels throughout the world have taken me to nations that are rich in natural resources, yet are poor because they don't have systems in place to preserve their food from harvest to market. Lack of basic infrastructure such as clean water, ice, refrigeration and power keeps developing nations from becoming powerful. Nations and people throughout the world are poor, hungry, sick and destitute due to their inability to access their own wealth.

**Q: Tell us about the Aldelano Solar ColdBox™. What makes this product such a unique solution to the problem of world hunger?**

This product was conceived to address critical infrastructure needs —refrigeration, power, clean water, and ice. The Aldelano Solar ColdBox™ is an industrial-grade, portable, solar-powered cold storage mini-warehouse. We have taken a proven, trusted cold storage technique—the refrigerated shipping container—and improved it for total off-grid use. In addition to reliable refrigeration and freezing, the Aldelano Solar ColdBox™ provides a completely renewable auxiliary power source and water and ice production utilizing molecules from the air and the power of the sun. Ideal for remote locations and with virtually no operating costs, the Solar Cold Box™ is deliverable virtually anywhere. The 40 ft. unit handles and transports as a standard shipping container. Installation is a breeze. The box is wired and ready to run. Simply set up the solar panels. The box runs directly from solar energy during the day and stored solar energy (batteries) at night with up to 15 hours of battery feed before a back-up gas generator (included on every Solar ColdBox) is needed. Maintenance is equally simplified - clean the solar panels with a water hose and water the batteries once per month using the on-board easy watering system. It's that easy.

**Q: As a Christian business and ministry leader, one of your guiding principles has been helping people to make a “vertical leap” by empowering them to solve their problems. How does the Solar ColdBox™ reflect that principle?**

For nearly fifty years, I've been in the problem-solving business, finding leaner, more cost-effective ways for major corporations to get their products in the hands of consumers. Through the B.O.S.S. and Vertical Leap ministries, I have also mentored hundreds of youth and adult leaders, helping them to dream bigger and achieve far more for God's Kingdom than they ever thought they could. In that time, I've seen that when you help someone solve a problem, you win favor for the Kingdom. The Aldelano Solar ColdBox™ is a GOD idea, a “with God all things are possible” solution to an impossibly big problem. The time has come to answer the cries of the people, and that takes more than just feeding them, because the lack of food is a symptom of a larger problem—the missing or unreliable infrastructure. We are offering an alternative to the infrastructure - a way to generate power, provide refrigeration and generate safe drinking water almost anywhere, at any time. Vegetables that would normally rot within hours and days can now be preserved for weeks and months. Thanks to the unique auxiliary power feature, the Aldelano Solar ColdBox™ offers an environmentally clean, completely renewable energy solution without the high startup costs of running wires from village to village or maintaining the grid.



We are empowering people and nations who have, until now, been bound by their dependence on failed infrastructure. Our God-given desire is to see the nations rise up and unearth the wealth God has already provided them.

**Q: One of the most amazing features available on the Solar ColdBox is the Aldelano Solar WaterMaker™, which generates clean water from thin air. Tell us more about this technology and its potential to save lives.**

The devastating effects of poor water quality are well documented. A 2014 study commissioned by the World Health Organization estimates that over 500,000 deaths per year in developing countries are due to diarrheal diseases caused by inadequate water supplies and poor sanitation. Young children are especially vulnerable. Experts say that 1 out of every 5 deaths in children under the age of 5 is caused by water-related illnesses. Again, this goes back to a lack of infrastructure.

The Aldelano Solar WaterMaker™ produces up to 50 gallons of water per day, using only the sun and the air. Even on a cloudless day, moisture is still present in the form of water vapor. The air contains billions of gallons of water. The Aldelano Solar WaterMaker™ is a literal lifesaver, harnessing the water molecules in the air and creating drinkable water. In the time it would take a family to walk to a water supply that is possibly contaminated by disease, the Aldelano Solar WaterMaker™ could produce gallons of water that can be used for drinking, cooking, or farming. The water could also be converted to ice for fishing with the Aldelano Solar IceMaker™.

**Q: In addition to its life-saving potential for developing nations, the Aldelano Solar ColdBox™ provides a wealth of benefits for industrialized nations like the U.S. How would the ColdBox be used in these places?**

If you were to do a simple internet search on the United States power grid, the results might keep you up at night. Our power grid is far more vulnerable than most people realize. There is always the potential for power failures caused by high usage during heat waves, damage from natural disasters, or even terrorist attacks. In some areas affected by Hurricane Sandy, for example, the power was out for weeks, and people got a taste of what life can be like in the developing world. The Aldelano Solar ColdBox™ provides peace of mind for any company or organization that requires refrigeration—farms, warehouses, grocery stores, hotels, restaurants, hospitals, florists, ...the list goes on. The complete portability of our system makes it an ideal resource for military base camps, mining operations, and disaster relief organizations. The box can be delivered to virtually anywhere in the world in a matter of days. The Aldelano Solar ColdBox™ also provides a convenient, cost-effective solution when overflow storage is needed. Best of all, this can all happen with minimal operating costs - that's a win for everyone.

[www.SolarColdBox.com](http://www.SolarColdBox.com)

# What people are saying about the Aldelano Solar ColdBox™...

*In my missions travels, I see people with problems associated with improper storage of foods. The Aldelano Solar ColdBox™ offers a solution to a problem that exists in areas where it has been impossible to refrigerate foods, get clean water and even the unimaginable - ice. It is truly amazing.*

**Esley B. Simmons**  
Senior Pastor  
Sacramento Christian Center

*The Aldelano Solar ColdBox is cutting edge technology with a high degree of practicality. Its utilization in developing nations will result in many having access to proper food and pure drinking water.*

**Hal Donaldson**  
Co-Founder/President  
Convoy of Hope

*The Aldelano Solar ColdBox™ is the type of product that makes my job in export assistance rewarding. With this technology, the Aldelano Corporation has made it easier to provide cold chain storage to parts of the world not currently supported by modern day infrastructure or that have suffered from catastrophic natural or manmade disasters. Rural communities in underdeveloped locations will now have a quick solution to effective food storage, allowing for greater amounts of their food to make it to market. Since agriculture is a primary source of livelihood for families in these communities, the Aldelano Solar ColdBox™ will play a critical role in improving their overall standard of living.*

**Dylan Daniels, JD, MS, CGBP**  
Memphis US Export Assistance Center U.S. Commercial Service International Trade  
Administration | U.S. Department of Commerce  
Former Policy Analyst and International Economist with the USDA

*As a member of the engineering team for the Aldelano Solar ColdBox™, I have been a part of the project since its inception all the way through the testing phase. My busy schedule does not allow me to take on many projects, but when this opportunity came along, I couldn't resist. The technical challenges were intriguing on a professional level, but the humanitarian aspect excited me the most. The Aldelano Solar ColdBox™ has the potential to impact the quality of life for many, many people.*

**J. Douglas Sterrett, Ph.D.**

**Professor of Engineering**

**Department of Engineering University of Tennessee at Martin**

**Former Dean of Engineering and Independent consultant working with USAF and NASA**

*In 20 years of engineering I've never worked on a project like the Aldelano Solar ColdBox™. Not only does it represent cutting edge technology and innovation and a chance to expand my knowledge base, but it is personally rewarding to be a part of a project that will save lives, improve communities and impact the world in such a positive way. This is what makes it worth the push.*

**Michael Goodwyn**

**Senior Engineer & Project Manager**

**Aldelano Solar Cold Chain Solutions**

*It has been truly amazing to see Al Hollingsworth's vision for the Aldelano Solar ColdBox™ come to fruition. This is truly a remarkable product that will be able to help disadvantaged people around the world. So much of my job is spent behind a desk, so having the opportunity to personally witness the Solar ColdBox™ in action really impacted me. Clean water from thin air. Cold air in 90+ degrees. This thing really works!*

**Frank M. Scutch, III**

**Scutch Law, PLC**

**Patents Trademarks & Copyrights**

*I have been to very remote places in the Amazon and have seen solar power at work. This product surpasses them all. I believe it will change the landscape of international business and humanitarian efforts for years to come.*

*The Aldelano Solar ColdBox™ will provide electricity and refrigeration years or decades before many locations will be able to access standard power grids. Beyond the obvious economic development needs, this product effectively helps prevent disease and can provide clean water, power, food and medicine preservation for humanitarian and relief efforts. The Aldelano Solar ColdBox™ is a cost-effective leap forward in technology that will save many, many lives.*

**Charles Blatteis**  
**International Corporate Attorney**