



### Lighting and Controls

Low voltage, solar enabled ADC lighting and controls. Simple to install, resilient and efficient. Operates at only 48VDC, without rectification and producing efficiencies up to 17% at every avoided conversion point.

**Utility Offset Average: Up to 25%**



### Compact Geothermal Heat Pump (HVAC)

Bring pure air indoors and experience perfect temperature and humidity levels with the first ever geothermal-assisted-solar ready 48Vdc heat pump with upgrades to fully off grid operations. **Introducing: ADC AIR**

**Utility Offset Average: Up to 50%**

## BUILDING LEVEL SOLUTIONS

The world operates on only two energy platforms - Alternating Current (AC), invented by Nikola Tesla, and Direct Current (DC), invented by Thomas Edison.

We created a "NEW Form of Energy" - "ADC" Energy is a "hybrid" transmission where AC and DC co-exist and *operate on existing wires*. Energy converters, adapters are now obsolete because ADC Energy eliminates the waste, heat and risks of energy conversion. Our patented, AI enabled power electronics is a one-of-a-kind, NASA validated, energy management platform to lead the transition to carbon free, sustainable energy. Like Microsoft Windows for computers, ADC is a global "operating system" for all energy. All AC and all DC can be replaced by ADC, which means:

**"ALL ENERGY CAN BE ADC ENERGY"**



### Energy Resilience

ADC eliminates vintage heat and waste from energy conversion to avoid dangerous harmonics. With improved ADC power quality, systems, wires, loads, devices achieve greater performance and longevity from "clean DC" power.

## POWER QUALITY



### Easy Installation, Simple Finance

ADC solutions attach and operate on existing wires and ducts. Many projects qualify for "energy as a service" for minimal to no capex for our customers.



# ADC AIR

## Low Voltage Compact Geothermal System

ADC AIR is the first ever solar assisted, compact geothermal dehumidifying heat pump. The system provides infinite temperature and dehumidification controls. ADC AIR provides clean indoor air with IAQ features. The equipment operates at only 48 Volt DC, supplied by the ADC Power Control System (ADC PCS). Pure air indoors with ideal temperature and humidity levels also easily upgrades to near fully off grid operations. Innovative financing and easy installation accommodates nearly every customers' situation.

## FEATURES & BENEFITS

- ✓ First Ever Hybrid Geothermal heat and cool
- ✓ Carbon friendly and sustainable
- ✓ Solar ready for added savings
- ✓ Low voltage – only 48VDC
- ✓ DC to DC Means more efficiencies
- ✓ Simple, Cost-Effective and Easy Installation
- ✓ Clean, Hospital-Grade Air Indoors
- ✓ Sustainable Source of Fresh Water
- ✓ Cloud-Enabled, Control from Anywhere
- ✓ Expert Online Support
- ✓ Easy Financing
- ✓ Minimal to NO CAPEX

## PERFORMANCE

### Conventional System 40,000 Sq.ft Facility

**Cooling and Heating**  
Average Wattage: 43.2kW

**Dehumidifier**  
Average Wattage: 9.2kW

**Total Consumption: 52.4kW**

**24-Hour Operation**  
Monthly: 37,728kWh  
Yearly: 452,736kWh

**Average Utility Rate: \$0.16/kWh**  
**Monthly: \$6,036.48**  
**Yearly: \$72,437.76**



### 3-IN-ONE ADC AIR 40,000 Sq.ft Facility

**Heating / Cooling / Dehumidification**  
Start-up Consumption: 35.2kW

Equilibrium Consumption: 19.2kW  
(70% of the time)

**Total Consumption: 27.2kW**  
(Average)

**24-Hour Operation**  
Monthly: 19,584kWh  
Yearly: 235,008kWh

**Average Utility Rate: \$0.16/kWh**  
**Monthly: \$3,133.44**  
**Yearly: \$37,601.28**

## APPLICATIONS



### RESIDENTIAL

Pure air and water with app-controlled on-demand climate that can upgrade to net-zero homes.



### INDUSTRIAL

Reduce your energy usage and remotely control the optimum humidity and temperature.



### COMMERCIAL

Create a fresh, clean air environment for workers and customers.



### INDOOR GROW

Actively purify the air, set the perfect temperature & humidity, monitor dew point, and control the entire system remotely.

QUALITY & RESILIENT



MADE IN AMERICA



# ADC AIR

## Low Voltage Compact Geothermal System

ADC AIR offers a simple but powerful solution to traditional air conditioning and dehumidification systems. By providing consistent temperature and humidity control in a single unit, growers can avoid the problems and losses associated with conflicting separate units. Our secret is simultaneous control of both temperature and humidity. This solution produces more efficient energy use, more specific environmental control, and ensures a consistent environment for high quality, high yields of harvests.

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## HARVEST MORE OF YOUR CULTIVATION!



### INFINITE CONTROL

Designed for infinite temperature and humidity settings to set the ideal growing environment.



### HUMIDITY CONTROL

Precise humidity control avoids marginal crop losses regardless of outside climate.



### DEW POINT MONITORING

Protects against pathogens to achieve consistent production and higher quality product.



### ELIMINATES MOLDS

Preventing mold and bacterial growth means higher yields from the same footprint.

QUALITY & RESILIENCE

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