



Energy Saving
Solutions for
**Supermarkets,
Grocers, and Food
Businesses**

How do we make **Shopping Safer**

IN UNCERTAIN TIMES?



We install the right products.

Acela Thermal Energy, a division of Acela Energy Group, provides energy-efficiency measures and incentive acquisition services for supermarkets, grocery stores, and food services businesses.

Our Anti-Fog Film and Grocery Store Disinfecting Equipment heighten safety for consumers and employees, while lowering energy costs and preserving social distancing.

COVID-19 has changed the way we live our lives. From entrance to exit, we can save energy and protect consumers at the same time.

- » Anti-Fog film eliminates glass door visibility issues, so consumers can continue to shop quickly.
- » A speedier shopping experience in freezer aisles means that 6-foot social distancing rules can be preserved with little disruption.
- » Advanced Grocery Store Disinfecting Equipment significantly cuts sanitation time and saves employee costs.



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FOR LOW-TEMPERATURE REACH-IN GLASS DISPLAYS

Anti-Fog Film

The humidity and temperature differences between the ambient conditions of a store and the cold inside a freezer often cause visibility issues through glass. Current solutions like heated doors are expensive and consume high amounts of energy.

Fog prevention is a proven energy-saving measure. Acela Thermal Energy installs Celanese Clarifoil® Anti-Fog film, the industry's first Anti-Fog film based on environmentally-friendly cellulose acetate.

The anti-fog properties and natural breathability of cellulose film prevent the build-up of condensation and fogging. Our invisible anti-fog film for passive doors on reach-in display cases replaces anti-sweat heaters, reduces emissions, and lowers store operating costs.

Anti-fog film keeps doors clear with no added heat!



The typical electrical and refrigeration load on a pane of glass is 150 watts.

At 8760 run hours per year, a store with 100 doors with anti-fog film will save 131,000 kWh. At 10 cents/kWh, that is **\$13,149/year in savings.**

The payback period after utility rebate calculates to less than 2 years.

Supports Environmental Programs

- » Anti-Fog film is not petrochemical-based.
- » It is made with sustainably sourced wood pulp from FSC and PEFC certified managed forestry.

Permanently Reliable

- » Use regular cleaning fluids without affecting performance or clarity
- » No deterioration of functionality or visual quality with age
- » No delamination
- » Optical grade adhesive formulated specifically for glass
- » Passes glass industry durability tests
- » Long-term high temperature/humidity, high-low temperature cycling, UV radiation
- » Avoid medium-long term Anti-Fog efficacy reduction of coating system contamination

Supports Energy & Emissions Reduction

- » Precludes anti-sweat heaters to reduce energy consumption
- » Aligns with DOE 2017 Final Ruling, US Energy Conservation Standards for Commercial Refrigeration Equipment
- » CO₂ equivalent emissions reduced by 1.3lbs of CO₂ per kWh1
- » Rebates available from utility companies

Invisible

- » Exceptional clarity
- » No tint of color
- » UV stable
- » Abrasion-resistant
- » Impact-resistant



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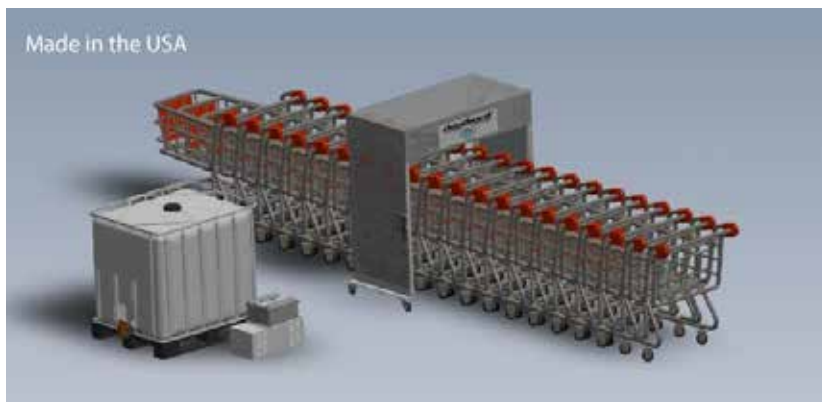
GROCERY STORE DISINFECTING EQUIPMENT

Sanitizer Pro™ CBS Series

Customers expect carts to be completely sanitized after each use. Current methods of wiping a handle before passing the cart to the shopper at the entrance of the store entails an enormous amount of employee labor cost. At the same time, the entire cart is not sanitized.

Acela Thermal Energy and Cloudburst have partnered to build solutions that allow stores to completely and efficiently disinfect each cart, entire stores, and distribution centers while saving time and money.

There is so much more to protecting shoppers and helping to control the spread of COVID-19 and other contamination threats than merely disinfecting shopping cart handles.



360 Shopping Cart Disinfecting Station

- » Up to 100x faster and more effective than traditional spray-and-wipe methods
- » Fully automated turnkey system disinfects all surfaces of any cart
- » Fully customizable to meet any store's cart storage and distribution setup
- » Smartmist™ 200 PSI Commercial Grade Pump
- » Four (4) Nozzle Micro-StarClusters™ for atomization and 360-degree coverage (5-50 micron)
- » Easily moved and stored

Other Premium Disinfectant Applicators

- » Sanitizer Pro™ 90 PSI Handheld Disinfectant Applicator
- » Sanitizer Pro™ 150 PSI Manual Backpack Disinfectant Applicator
- » Sanitizer Pro™ 200 PSI Battery-Powered Backpack Disinfectant Applicator
- » Sanitizer Pro™ 200 PSI Pull Cart Disinfectant Applicator
- » Sanitizer ProX™ 800-1000 PSI Pull Cart Disinfectant Applicator



Total yearly costs to have employee wipe off each cart handle with sanitizer or wipes: \$21.85/hr x 5110 hr = **\$111,653**

Total yearly costs to spray cart with sanitizer once per hour for 15 minutes: \$21.85/hr x 5110 hr = **\$27,913**

Total yearly costs to use **360 Shopping Cart Disinfecting Station**: \$21.85/hr x 5110 hr = **\$3,987**

Example Costs Based On:

14 hours open per day = 5110 hours per year, Hourly wage at \$9.50/hr with a multiple of 2.3 for all-inclusive cost = \$21.85/hr loaded cost

About Acela Energy Group, Inc.

Acela Energy Group, Inc. prides itself on being completely independent of any energy producers, transmitters, distributors or sellers of energy. We do not make or sell power. We make it more affordable for you.

Acela Energy Group, Inc. will assist you in making strategic energy procurement decisions. This often involves the development of an “Energy Team.” This approach creates a solid foundation for participation in gas and electric competitive purchasing opportunities unfolding in the marketplace. We maintain a database of Energy Service Providers from which you can solicit qualified proposals thus obtaining the most from your deregulation choices.

Visit AcelaEnergy.com for more information.

Acela Thermal Energy Products and Services

Energy-efficiency measures and incentive acquisition services

- » Variable Frequency Drives (VFD's)
- » Electrically Commutated Motors (EC) Motors
- » Thermal Insulation on Equipment
- » Advanced Load Monitors (ALM) for Hot Water Boilers
- » Retrofitting Existing Boilers to Condensing Boilers
- » Condenser Water Treatment
- » Condenser Evaporative Misting Systems
- » Continuous Steam Trap Monitoring
- » Coil Refurbishments
- » Back-up / Cogeneration
- » Natural Gas-Powered Chillers
- » Freezer Door Anti-Fog Coating

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