



Our Future Is Green

Join Admiral Linen & Uniform Service in helping improve our Earth through the use of reusable textiles and environmentally friendly business practices.





Admiral Environmental Statement

Admiral Linen & Uniform Service is committed to environmental stewardship through the use of reusable textiles, resource conservation and industry leadership.

We will lead our industry by:

- **Ensuring compliance with environmental laws and regulations**
- **Educating our customers about the benefits of reusable textiles**
- **Partnering with like-minded organizations to promote environmentally friendly initiatives**
- **Working with vendors to source products and supplies with the least environmental impact**
- **Constantly striving for continued process improvements to reduce our carbon footprint in all operational areas**
- **Making a difference with our team members and communities**



We Are:

Environmentally Friendly

The very nature of our business is recycling. We rent textile products that are reused, reclaimed and recycled.

Resource Aware

We have worked hard to reduce the amount of water, chemicals, utilities and supplies we consume. In addition, we have installed energy-saving devices in all our plants.

Respectful

Conservation is key to Admiral in everything we do. We know the earth has limited resources so we will continue to conserve energy and promote the use of reusables.

The Way Forward

While processing reusable products requires resources like water, energy and chemicals, modern laundering techniques have vastly improved the efficiency of the laundering process.

Reusable textiles can be washed, sanitized, and reused, and yet disposables are still used by a majority of the market.

Washing a pound of textiles had previously required three gallons of water. But thanks to innovative equipment, that number is less than three-quarters of a gallon today.

Natural gas and oil use has also decreased per pound thanks to heat reclamation and other innovative solutions to return energy to washers, dryers and ironers. Chemical use also is declining thanks to chemical injection systems.

Advanced wastewater treatment systems successfully clean the water used in laundering facilities so they may be discharged safely into municipal sewer systems.

Disposable Items: The Past

Paper products currently account for one-third of the municipal waste in the U.S.

The average American uses 2,200 paper napkins per year.

Every year, 3.3 million tons of medical waste goes into landfills, while the incineration of medical waste is the nation's single largest source of dioxin air pollution.

Pulp and paper is the third largest industrial polluter to air, water, and land in both Canada and the United States, and releases well over 100 million kg of toxic pollution each year.

Worldwide, the pulp and paper industry is the fifth largest consumer of energy, accounting for 4 percent of all the world's energy use. The pulp and paper industry uses more water to produce a ton of product than any other industry.

How Admiral Is Leading the Way



LaundryESP

Admiral Linen and Uniform Service is a member of **LaundryESP**, a joint initiative between the Uniform and Textile Service Association (UTSA) and the Textile Rental Services Association (TRSA).

Conceptualized in 1999, **LaundryESP** encompasses 170 textile service companies and 750 laundry plants which account for 70 percent of the industry's production.

LaundryESP is the Laundry Environmental Stewardship Program. The program is a voluntary environmental pollution prevention program for the entire industry.

LaundryESP includes the removal of pollutants before they enter the laundry facility, as well as quantifiable goals for reductions in water, energy, and washroom chemical usage. **LaundryESP** has had an impact on many facilities, providing a cost-effective way for these facilities to enhance environmental performance.

LaundryESP®

(Laundry Environmental Stewardship Program)

Results

The **LaundryESP** results, representing six years of industry improvements, were more than UTSA, TRSA or the EPA could have envisioned.

40 % REDUCTION - POLLUTANTS DISCHARGED

12.6 % REDUCTION - WATER USAGE

11 % REDUCTION - ENERGY USAGE

SIGNIFICANT SUBSTITUTIONS OF ENVIRONMENTALLY FRIENDLY WASH CHEMICALS



Fuel Efficient Delivery Vehicles

Admiral recently purchased fuel efficient vehicles to use for “hot shot” deliveries. When customers have a need for extra product or may need items outside of their regular schedule, we deliver what they need right then. Previously, we made these deliveries in our large step-vans or with a larger van.

The Chevy HHR is a fuel-efficient vehicle that is easy to drive, cheaper to operate and earned the EPA’s “SmartWay” designation.

SmartWay is earned by those vehicles that score a 6 or better on each of the Air Pollution and Greenhouse Gas Scores and achieve a combined score of at least 13 when added together.



The Ford Transit has the fuel-efficiency of a large car, up to 25 miles per gallon. In addition, it has a curb-weight almost 1,500 lbs. less than a full-size van. The Transit has more than 135 cu. ft. of storage space.



Heat Reclaimers

Each Admiral processing plant is outfitted with heat reclaimers and stack economizers. These heat recovery systems capture the heat from the process wastewater to pre-heat incoming fresh water. For example, if the temperature of incoming fresh water is as low as 60°F, a heat recovery system can effectively preheat that water to within 5°F of the dirty wastewater stream recovering up to 60% of the water heating energy required.



DAF System

Our Berry Street processing plant in Fort Worth recently installed a DAF (dissolved air float) system. This is a water treatment system designed to clarify wastewater (or other waters) by the removal of suspended matter such as oil or solids. The removal is achieved by dissolving air in the water or wastewater under pressure and then releasing the air at atmospheric pressure in a flotation tank or basin.

The released air forms tiny bubbles which adhere to the suspended matter causing the suspended matter to float to the surface of the water where it may then be removed by a skimming device.

The driving force that allows a DAF to operate is gravity. By attaching small air bubbles to a solid or flocculated particle the apparent specific gravity of the particle is changed from that of the surrounding water thus causing the solids to rise or float.



The small air bubbles can be generated several ways. The most common is to spray the wastewater into a tank that is under several atmospheres of pressure. The small water droplets from the spray will approach saturation within the pressurized atmosphere and collect in the bottom of the tank. As this pressurized water is released to atmosphere the air will come out of solution forming very small air bubbles.



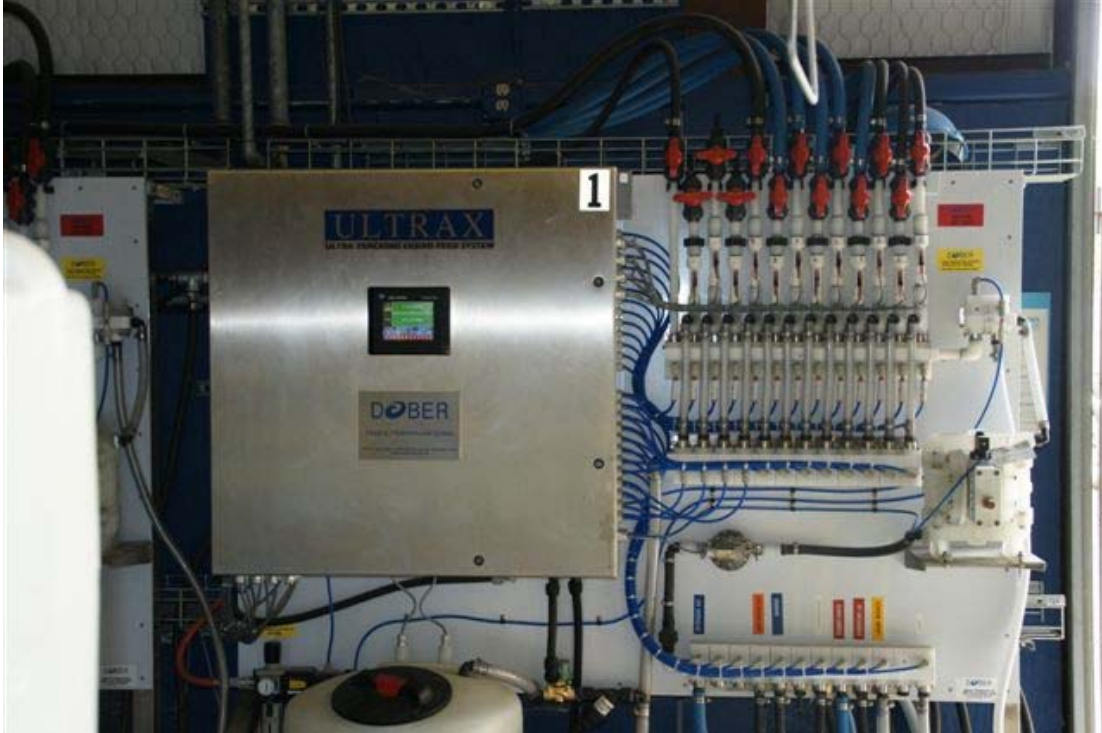
As a separation device the DAF will generally effect the highest solids capture and will yield the highest level of recovered solids under a wide range of flow conditions. Oil/grease and suspended solids removal rates of greater than 95% are normal.

The DAF system required a significant financial outlay by Admiral that confirms our commitment to environmental leadership.

Chemical Injection System

Chemical injection systems are designed to automatically add the precise amount of chemicals needed for a clean load of laundry.

Admiral has installed these computerized chemical injection systems in all our processing plants. The systems are programmed with our wash formulas and inject the correct amount of chemicals needed for each wash load. This ensures the cleanest garments and textile items possible.



Other Initiatives

Admiral Linen & Uniform Service is proud of our environmental record. Our plants in Houston and Fort Worth have been awarded certificates of excellence in wastewater processing from their respective city wastewater divisions.

Once rental textiles are past their useful life to Admiral, we actively recycle most towels, sheets and garments into rags. These rags are resold to individual businesses who, in turn, use them again and again. We provide another useful product to the community instead of adding to landfill waste.



Admiral. We're Taking Care.

