

# Delfield's Environmental Responsibility Initiative.

**Environmental Responsibility.** By choosing only environmentally friendly refrigerants and foams, using recycled materials where appropriate, helping conserve natural resources and designing to energy-efficient construction, Delfield is leading the way to a more environmentally responsible foodservice world.



# Delfield Energy Efficiency



Delfield believes energy efficient equipment has an important impact on environmental quality and sustainability. We strive to provide the most energy efficient equipment possible while also providing performance that meets the toughest needs. Over 280 different Delfield models are listed with Energy Star® and more are being added every day. See the Energy Star® website, [www.energystar.gov](http://www.energystar.gov), for a complete up to date listing.

Delfield doesn't just meet the minimum Energy Star® standards, in many cases it well exceeds them, using 30-40% less energy than required to be listed with Energy Star®. Nearly 2/3 meet the much more demanding CEE (Consortium for Energy Efficiency) Tier II standards.

**Enodis®**

**enerlogic™**

Energy Data:

Model	Average Daily Energy Consumption	Energy Star®	CEE Tier II
6025XL-S, SH	2.66 KWH	X	
6051XL-S, SH	3.65 KWH	X	X
6076XL-S, SH	5.47 KWH	X	
6125XL-S, SH	7.78 KWH	X	
6151XL-S, SH	11.75 KWH	X	X
6176XL-S, SH	15.59 KWH	X	X
6025XL-G, GH	3.70 KWH	No Standard	X
6051XL-G, GH	5.59 KWH	No Standard	X
6076XL-G, GH	9.63 KWH	No Standard	

Estimated annual energy cost:  
Two section Refrigerator - 6051XL  
3.65 KWH/day x 365 Days x .09¢\*/KW =

**\$119.90**

\* Average KW/H cost per Energy Star® Energy Savings Calculator

**Enodis®**

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Energy Data:

Model	Average Daily Energy Consumption	Energy Star®	CEE Tier II
406	1.88 KWH	X	
406-CA	1.88 KWH	X	
407	3.22 KWH	X	
407-CA	3.22 KWH	X	
ST4048	2.04 KWH	X	
UC4048	2.04 KWH	X	

Estimated annual energy cost:  
Undercounter Freezer - 407-CA  
3.22 KWH/day x 365 Days x .09¢\*/KW =

**\$105.78**

\* Average KW/H cost per Energy Star® Energy Savings Calculator

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Energy Data:

Model	Average Daily Energy Consumption	Energy Star®	CEE Tier II
SSR1-S, SH	2.64 KWH	X	
SSR2-S, SH	4.51 KWH	X	
SSR3-S, SH	5.51 KWH	X	X
SSF1-S, SH	7.63 KWH	X	X
SSF2-S, SH	15.16 KWH	X	X
SSF3-S, SH	16.26 KWH	X	X

Estimated annual energy cost:  
Specification Line Freezer - SSF1-SH  
7.63 KWH/day x 365 Days x .09¢\*/KW =

**\$250.65**

\* Average KW/H cost per Energy Star® Energy Savings Calculator

## Energy efficiency directly affects your bottom line.

Low Energy Consumption = Low Utility Costs  
Low Utility Costs = More Money to your Bottom Line

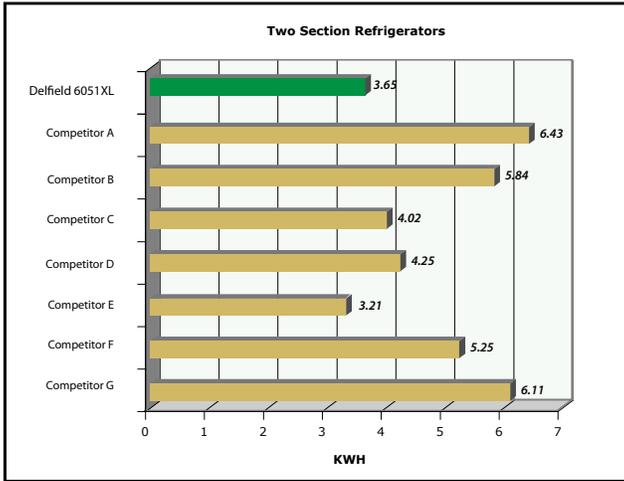
## Energy efficiency helps foster better environmental quality.

Low Energy Consumption = Less Demand for Electricity Generation  
Less Demand = Less Creation of Harmful Pollutants and Global Warming Greenhouse Gases

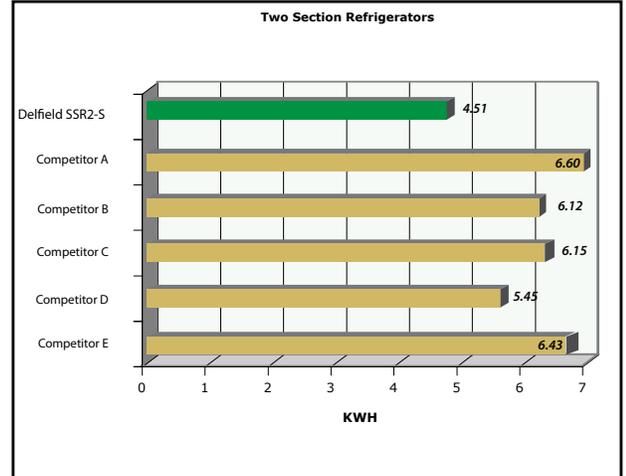
# Delfield Reach-in Refrigeration Beats the Competition and Saves You Money on Energy Consumption

Our newly redesigned refrigeration systems use less energy than competition saving you real money, reducing your carbon footprint and helping you run a **Environmentally Responsible** operation. Take a look at comparisons among two section refrigerators and freezers.

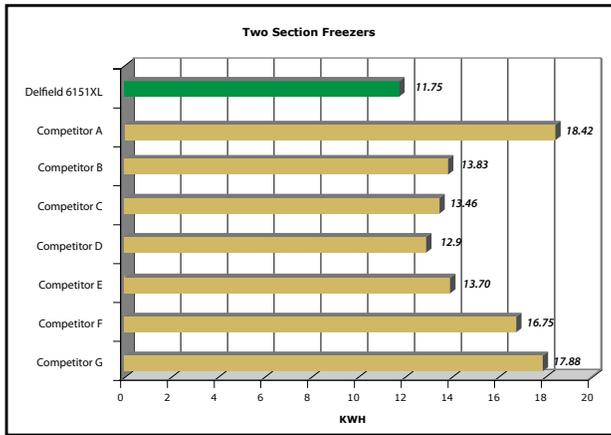
## 6000XL™ Reach-In Refrigerators



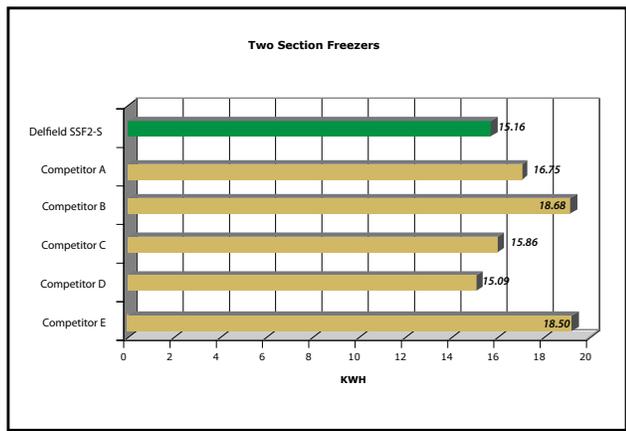
## Specification Line® Refrigerators



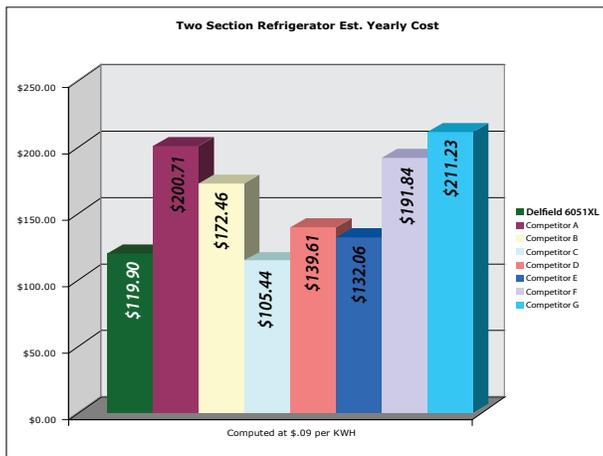
## 6000XL™ Reach-In Freezers



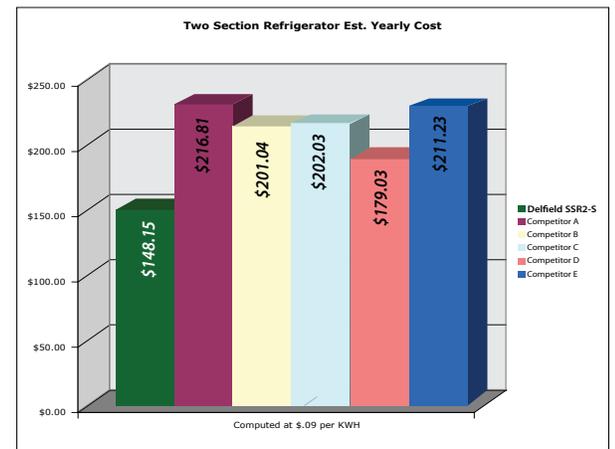
## Specification Line® Freezers



## 6000XL™ Reach-In Refrigerator Estimated Yearly Cost - 2 Section



## Specification Line® Refrigerator Estimated Yearly Cost - 2 Section



# Delfield's "Environmentally Responsible" Foam Insulation



The right foam insulation contributes to an environmentally responsible refrigeration design. All Delfield units use Ecomate® polyurethane insulation that is blown in place using methylformate as the blowing agent. This foam has no negative impact on the Earth's ozone layer, on global warming or on other air pollution. In fact, our switch to Ecomate will reduce 50,766 metric tons of CO2 from the atmosphere. This environmental responsibility is achieved without sacrificing thermal efficiency.

## Environmental Factor Comparisons Among Common Blowing Agents

Agent	Methylformate	HCFC 141b	HFC 134a	HFC 245fa	Pentanes/ Hydrocarbons
ODP	0	0.11	0	0	0
GWP	0	700	1300	900	11
VOC	Exempt	Exempt	Exempt	Exempt	Yes
Kyoto Compliant	Yes	No	No	No	Yes
Montreal Compliant	Yes	No	Yes	Yes	Yes

ODP - Ozone Depletion Potential - Higher the number, the more impact on Ozone Depletion

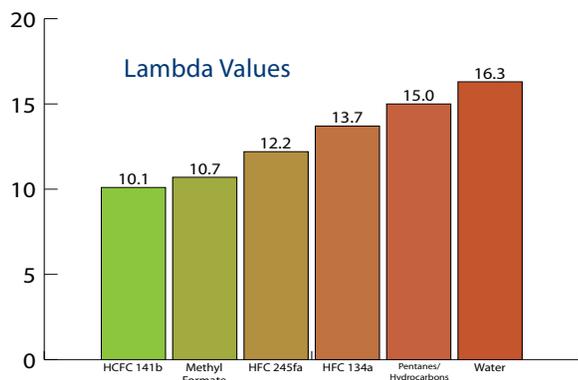
GWP - Global Warming Potential - Higher the number, the more impact on Global Warming

VOC - Volatile Organic Compound - Contributes to the formation of low level smog

Kyoto Compliant - Conforms to Kyoto Protocol Treaty designed to lower worldwide emissions of greenhouse gases

Montreal Compliant - Conforms to Montreal Protocol Treaty designed to protect the Earth's ozone levels

## Thermal Efficiency Comparison Among Common Blowing Agents.



There are other alternatives to insulation, none provide the environmental benefits of the methylformate blowing agent used by Delfield.



**Environmental responsibility is more than just words at Delfield.**

The lower the Lambda Value the better the efficiency.



### SOLUTIONS

Delfield provides many of the operational solutions from Enodis, a global company dedicated to bringing value to foodservice operators by equipping them with highly individualized real-world answers that enhance menus, service, profits, and efficiency.



### FINANCING

Enodis offers low-rate, fast-approval financing on equipment from Enodis brands and on other equipment when purchased with Enodis brands. Preserve capital, simplify budgeting, and get the equipment you need today, from Enodis Authorized Dealers with Enodis financing.



### SERVICE

Delfield products are backed nationwide by Enodis STAR Service. This network of certified service agents provides fast response with factory-trained experts to assure your equipment will be fixed right the first time. Enodis STAR service agents guarantee their work and use genuine OEM parts for best equipment performance and longer life.

To learn how Delfield and other leading Enodis brands can equip you, or to apply for financing, visit [www.enodis.com](http://www.enodis.com), consult your dealer, or call 727-375-7010.



# Moving to a “Environmental Responsibility” Delfield Culture



Helping operators reduce their environmental footprint is a priority for Delfield. Enerlogic™ now encompasses all aspects of the company's internal and external resource-conservation efforts including research and technology development, manufacturing process, employee recruitment and career development and efforts supporting the industries and communities served by the company and its portfolio of products. The following outlines specific and relevant ways Delfield is helping the industry move towards a **Environmentally Responsible** tomorrow.

- Product design efforts stress energy efficiency, use of environmentally responsible materials and operator flexibility and versatility, with the goal of helping you do more with less to put less strain on the planet's resources.
- In the past three years the implementation of Lean manufacturing processes has improved productivity in our Custom division by 20% and in the Reach-in division by 30%.
- By installing more efficient 128 watt lights in both manufacturing facilities, Delfield has reduced energy use by approximately 12.5%.
- Wood waste products are separated and ground for use as a generator of electricity.
- All refrigeration technicians are certified in the handling of refrigerants, minimizing release of toxins into the environment.
- Recycling programs are in place in both plants for paper, cans/bottles, cardboard, steel and aluminum.
- Use of bottled water has been eliminated. Instead, reverse osmosis water dispensers have been installed and employees have been given environmentally friendly reusable containers.
- All sales brochures are now printed on environmentally responsible paper that meets FSC (Forest Stewardship Council) standards.
- “Environmentally Responsible” cleaning products are used throughout all operations.
- The proximity of our suppliers is factored into all of our sourcing decisions. Deliveries consume less energy and create less pollution.
- Site locations of our operations allow the workforce to live close to those operations, minimizing the commute which lowers energy requirements and creates less pollution.

# Delfield's New Refrigeration System - Better Performance, Low Energy Costs, Low Service Costs, Longer Life, Helping Create an Environmentally Responsible Kitchen.

Low energy costs, low service costs, long equipment life, high performance; it's all standard with Delfield's new Refrigeration Systems - available on Specification Line® and 6000XL™ Reach-in products. These newly redesigned systems were developed to be **Energy efficient** and **Performance capable**. Built with quality components and assembled with attention to detail, these systems can help you cut your operational costs and produce a high quality menu. Get the performance you need with the low operating costs you expect with the new Reach-in Refrigeration Systems from Delfield.



#### RELIABLE, SOLID STATE ELECTRONIC CONTROL

Out performs conventional electromechanical controls with more precise efficient performance and longer life.

#### ADAPTIVE DEFROST

Our refrigeration systems on both refrigerators and freezers are designed to defrost on demand, assuring continuous performance in any work environment. Hot humid kitchens, heavy use, lots of door openings and closings? No problem. Adaptive defrost senses conditions and assures a clean, ice free evaporator all the time. And adaptive defrost **lowers energy usage**, saving you money.



#### WIDE OPERATING RANGE

Our systems allow for 27°F to 40°F operation on refrigerators without any special modifications. They have the range to meet the temperature needs of your diverse menu. This minimizes the need for additional, special use units in your kitchen, letting you do more with less.



#### EFFICIENT THREE PASS DESIGN EVAPORATOR COIL

Air moves thru the coil more efficiently, creating better heat transfer, resulting in improved temperature performance, faster recovery and overall more **efficient operation**.

#### EXPANSION VALVE METERING

All models are standard with expansion valves. This provides variable refrigerant flow into the evaporator for **efficient operation**, exceptional temperature performance and fast recovery.

#### EVAPORATOR FAN, ONE FAN/IMPROVED AIRFLOW

Better **energy efficiency** with one fan motor rather than two. Fewer parts to wear out. Improved airflow allows for better temperature maintenance and fast recovery.

#### LARGE CONDENSER COIL

More condensing surface allows for lower refrigerant pressures which result in better **energy efficiency**. Larger coil surface also doesn't clog as quickly from dirt and grease, requires less cleaning, provides more efficient operation. Also optional condenser filter screen is available.

#### CONTROL PLACEMENT

Controls are mounted integral to system base and are easy to access. **Energy saver** door heater on/off switch placed next to the temperature mount. Wiring is now concealed within the base of the system. The condenser is easy to get at for cleaning.

#### LARGE CAPACITY CONDENSATE REMOVAL

Condensate removal extends all the way under the system base and has the capacity to handle condensate in humid environments. The plastic pan will not corrode. Uses **energy efficient** hot gas refrigerant line to evaporate condensation.

#### ROHS (RESTRICTION ON THE USE OF CERTAIN HAZARDOUS SUBSTANCES) COMPLIANT

Hazardous heavy metals are not used in electronic components so they can't get to landfills to be released into the environment.

