Going Green with Fisher Scientific

Like you, Fisher Scientific is committed to protecting our environment. We’ve adopted green sustainable business practices and implemented “Reduce, Reuse and Recycle” initiatives throughout our organization.

We also support the sustainable green initiatives of our customers, and this catalog reflects that. Most of the products are environmentally friendly. Many are reusable and/or recyclable. All bring the quality and value you expect to your workbench.

Fisher Scientific is a leading provider of equipment, supplies, and services for the scientific research and clinical laboratory markets. Our broad product offering, electronic commerce capabilities, integrated global logistics network, and manufacturing facilities enable us to provide an extensive product portfolio to thousands of customers. And our expertise in delivering leading-edge technologies and products reliably, efficiently, and globally is supporting scientific research today for the discoveries — and environment — of tomorrow.

All of the green products featured in this product guide have one or more of the following health and/or environmental attributes:

• They do not contain CFCs, HCFCs or other ozone depleting substances
• They do not contain highly toxic compounds, and their production does not result in highly toxic by-products
• They can be easily reused (either whole or through disassembly)
• They can be readily recycled (preferably in a closed-loop recycling system)
• They are biodegradable
• They can be more energy efficient
• They promote good indoor air quality (typically through reduced emissions of VOCs and/or formaldehyde)
• They are durable, and have low maintenance requirements
• They may incorporate recycled content (post-consumer and/or post-industrial)
• They are made using natural and/or renewable resources
• They have low "embodied energy" (the energy required to produce and transport materials)
Planes, Trucks, and Automobiles—Hazards to Everyone’s Health

Shipping and receiving products—trying to get something from Point A to Point B, in as short a time as possible—is always a concern for businesses. But according to the U.S. Department of Transportation Federal Highway Administration, freight transportation is a major source of greenhouse gas (GHG) emissions that may be helping to change the global climate.

Many trucks have diesel engines, which emit particulate matter, carbon (0.0054 pounds/mile), and nitrogen oxides (0.057 pounds/mile). These GHG can affect a human's respiratory system, and may contain carcinogens.

Air freight is a rapidly growing mode of shipping, almost doubling since 1990. Emissions from airplanes mix with the atmosphere to affect ground level GHG concentrations: 0.77 pounds/mile of carbon; 0.00002 pounds/mile of nitrogen oxides. As you can see, air transportation is a major contributor of GHG compared to ground freight.

Ordering and Shipping Made Cleaner—Reducing Costs and Waste

Fisher Scientific’s integrated global logistics network and electronic commerce capabilities greatly improve and support our sustainable business practices. Fisher gives customers the ability to purchase all necessary lab supplies from one place.

By consolidating orders, Fisher reduces the transporting of products from several times a day to a single daily delivery, and decrease fossil fuel usage and greenhouse gas emissions. Fisher is the one source that gives you an infinite choice of products and multiple brand name suppliers to choose from.

Electronic order approval and blanket orders for contract vendors diminishes paperwork, conserves paper, and reduces duplicated work processes that drains human resources and drives energy consumption.

Close proximity of secure Fisher warehouses nationwide lessens the need for multiple transportation requirements; and reduces the risk of hazardous chemical spillage during long distance transportation that would contaminate the environment. Allows for ground delivery rather than air delivery that further reduces more than 90% of GHG emissions from aircraft.

Reference: http://www.epa.gov
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Air/Air monitors
Noncorrosive, Nonflammable - Dusters

Fisherbrand Super Friendly Air‘It Aerosol Duster

23-022523 - Case of 6 for $127.77
Duster, Aerosol; Fisherbrand; 11 oz.; Blows lint, dust and loose dirt away instantly; gas is triple-filtered to 0.3micron; noncorrosive, nonflammable, dry, and odorless; 5 in. polyethylene snorkel

Calculators
Solar Counting Devices

Fisherbrand Solar-Powered, Big-Digit Calculator

12-099-20 - Each for $14.91
Calculator, Big digit, Solar-powered, 4-1/4 L x 2-3/8 W x 1/4 in H, Fisherbrand

Centrifuges
Refrigerated centrifuges are CFC-Free, Eppendorf reduce power consumption

Benchtop Centrifuges

Fisher Scientific accuSpin Models 1/1R Benchtop Centrifuges

13-100-582 - Each for $5242.18
Centrifuge; Fisher Scientific accuSpin 1; Non-refrigerated benchtop; Capacity: 4 x400mL; Max speed 15,500rpm; Max RCF 21,200xG (less rotors, buckets and accessories); 120V
13-100-581 - Each for $8038.47
Refrigerated

Eppendorf 5804/5810 Multipurpose Centrifuges

05-400-90 - Each for $4540.00
Centrifuge; Nonrefrigerated; Eppendorf Model 5804; For 115V 60Hz, 15A; Capacity: 4 x 100mL capacity, Max Speed 14,000rpm (20,800xG); Net weight: 121 lb. (56kg)
05-400-91 - Each for $4540.00
Nonrefrigerated; Model 5804, 4 x 100mL capacity; For 220V 50Hz, 15A (Intl.)
05-400-60 - Each for $5855.00
Nonrefrigerated; Model 5810; 4 x 400mL capacity; 115V
05-400-93 - Each for $7740.00
Refrigerated; Model 5804R, 4 x 100mL capacity; For 115V 60Hz, 15A
04-987-372 - Each for $7740.00
Refrigerated; Model 5804R; 4 x 100mL capacity; For 115V 60Hz, 20A

Cleaners
Phosphate-free, Biodegradable, Chlorine-free, Noncorrosive, Clean-rinsing

Detergents and Cleaners - Concentrated

Fisherbrand Sparkleen 1 Detergent

04-320-4 - Each for $32.75 and Case of 12 for $322.87
Detergent; Fisherbrand Sparkleen 1; 3-1/4 lb. (1.5kg); For manual washing; Removes organic and inorganic deposits; Contains phosphates
04-320-5 - Each for $520.00
100 lb. (45kg)
### Fisherbrand Sparkleen 2 Detergent

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
</table>
| 04-320-6 | $26.50 | Each for $26.50 and Case of 12 for $260.27  
Detergent; Fisherbrand Sparkleen 2; 3-1/4 lb. (1.5kg);  
For automated glassware washers; Concentrated;  
Chlorinated; Contains phosphates |

### Decon Contrad 70 Liquid Detergent

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
</table>
| 04-355  | $28.95 | Each for $28.95 and Case of 12 for $294.48  
Detergent, Liquid; Contrad 70; 34 oz.; 1L; Concentrated;  
Nontoxic; Phosphate-free, Chlorine-free; Cleans glass,  
plastic, ceramic and ferrous metals; For soaking,  
scrubbing, or ultrasonic cleaning; USDA approved |

### Decon Contrad 100 Equipment Cleaner

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
<th>Description</th>
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</thead>
</table>
| 04-355-27 | $35.52 | Each for $35.52 and Case of 4 for $120.40  
Detergent; Contrad 100; Equipment Cleaner; 1 gal.;  
3.8L; Alkaline; Low-foaming; Phosphate-free; For  
clean-in-place systems and high-pressure cleaning  
applications |

### Decon Contrad NF Liquid Concentrate Detergents

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
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</thead>
</table>
| 04-355-37 | $49.50 | Each for $49.50 and Case of 4 for $168.48  
Detergent; Contrad NF; 1 gal.; 3.8L; Alkaline liquid;  
Nonfoaming; For automatic washing machines; Removes  
organic and inorganic contaminants; Phosphate and  
Chlorine-free |

### Decon Contrex AL Alkaline Liquid Detergent

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
<th>Description</th>
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</thead>
</table>
| 04-355-11 | $17.62 | Each for $17.62 and Case of 12 for $180.72  
Detergent; Decon Contrex AL; 1 qt. (947mL);  
Concentrated alkaline liquid; Phosphate-free; For use in  
manual, soak, or ultrasonic cleaning of labware, scientific  
apparatus, and process equipment |

### Decon Contrex AW Powdered Autowasher Detergent

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
</table>
| 04-355-12 | $26.52 | Each for $26.52 and Case of 9 for $204.03  
Detergent; Decon Contrex AW; 4 lb. (1.8kg); Powder;  
Low-foaming; For use in all automatic labware washing  
machines; Biodegradable |

### Decon Contrex CA Acidic Liquid Detergent

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
<th>Description</th>
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</thead>
</table>
| 04-358-21 | $51.81 | Each for $51.81 and Case of 4 for $177.12  
Detergent; Decon Contrex CA; 1 gal. (3.8L);  
Concentrated acidic liquid; Formulated with organic acid;  
Phosphate-free; For manual, soak, or ultrasonic cleaning;  
For descaling, mineral removal, oxide removal |

### Decon Citrad Acidic Detergent

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
<th>Description</th>
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</thead>
</table>
| 04-355-90 | $44.70 | Each for $44.70 and Case of 4 for $152.80  
Detergent; Citrad; 1 gal.; 3.8L; Acidic; Phosphate-free,  
free-rinsing and biodegradable; Removes salts, scale,  
hard-water mineral deposits and metal oxide |

### Decon Contrex CF Cation- and Phosphate-Free Liquid Detergent

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<tr>
<th>Code</th>
<th>Price</th>
<th>Description</th>
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| 04-358-26 | $66.54 | Each for $66.54 and Case of 4 for $235.55  
Detergent; Contrex CF; 1 gal.; 3.8L; Cation- and  
Phosphate-free liquid; Phosphate-free; For cleaning of  
equipment and electronics that are sensitive to metal  
cations and phosphates; For soak, scrub, sonication, and  
autowashing |
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<th>Product Name</th>
<th>Code</th>
<th>Price per unit</th>
<th>Price per Case</th>
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<td>Decon Contrex EZ Powdered Enzymatic Detergent</td>
<td>04-358-23</td>
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<td>$240.74</td>
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<td>Decon Contrex EZ Powdered Enzymatic Detergent</td>
<td>04-358-24</td>
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<tr>
<td>Decon Contrex EZ Powdered Enzymatic Detergent</td>
<td>04-358-25</td>
<td>$207.20</td>
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<td>LabSolutions Liquid Detergent</td>
<td>04-334-1</td>
<td>$94.75</td>
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<td>Pierce RBS 35 Detergent Concentrate</td>
<td>PI27950</td>
<td>$34.00</td>
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<td>Stanbio Bio-Clean Concentrated Detergent and Deodorizer</td>
<td>SB-0602-380</td>
<td>$100.25</td>
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<td>OSM All-Natural All-Purpose Cleaner</td>
<td>15-336-500</td>
<td>$7.80</td>
<td>$93.33</td>
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<td>OSM All-Natural Concrete Cleaner</td>
<td>15-336-506</td>
<td>$8.16</td>
<td>$97.69</td>
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<td>OSM All-Natural Degreaser</td>
<td>15-336-502</td>
<td>$8.16</td>
<td>$97.69</td>
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OSM All-Natural Glass and Surface Cleaner
15-336-503 - Each for $7.80 and Case of 12 for $93.33
Cleaner, Glass and Surface; All-Natural, Streak-free shine with no smearing; Nonallergenic, water-based product with enzyme-based cleaning agents and plant-based surfactants; disposes down the drain; 32 oz.
15-336-512 - Each for $29.40 and Case of 4 for $117.22
1 gal.
15-336-521 - Each for $139.36
5 gal.

OSM All-Natural Instrument Detergent
15-336-507 - Each for $7.07 and Case of 12 for $84.63
Cleaner, Instrument Detergent; All-Natural, Multi-enzyme formula effectively works within minutes to disintegrate and carry away soils; Nontoxic, nonflammable, noncaustic, and biodegradable; Safe to dispose down drain; 32 oz.
15-336-516 - Each for $26.86 and Case of 4 for $107.08
1 gal.
15-336-525 - Each for $126.69
5 gal.

OSM All-Natural No-Rinse Floor Cleaner
15-336-501 - Each for $7.07 and Case of 12 for $84.63
Cleaner, Floor; No-Rinse, All-Natural, Cleans gently, leaving a beautiful luster; Nonallergenic, noncaustic, nontoxic, and biodegradable; Ozone-safe formula disposes down the drain; 32 oz.
15-336-510 - Each for $26.86 and Case of 4 for $107.08
1 gal.
15-336-519 - Each for $126.69
5 gal.

OSM All-Natural Odor Control
15-336-504 - Each for $8.16 and Case of 12 for $97.69
Odor Control; All-Natural; Eliminates odor on contact; Nontoxic and biodegradable; nonaerogel and ozone-safe; Safe to use around people and animals; Disposes down drain; 32 oz.
15-336-513 - Each for $30.67 and Case of 4 for $122.28
1 gal.
15-336-522 - Each for $144.61
5 gal.

OSM All-Natural Stain Remover
15-336-505 - Each for $8.16 and Case of 12 for $97.69
Stain Remover; All-Natural; Works on hard surfaces or carpet; Noncaustic, nonallergenic, and biodegradable; Safe to use around people and animals; Ozone-safe; Disposes down drain; 32 oz.
15-336-514 - Each for $30.67 and Case of 4 for $122.28
1 gal.
15-336-523 - Each for $144.61
5 gal.

OSM Eco-Friendly Instrument Lubricant
15-336-508 - Each for $8.16 and Case of 12 for $97.69
Lubricant, Instrument; Eco-Friendly; Powerful anti-corrosive agent for use in autoclaving; Bacteria static, nontoxic, nonflammable, noncaustic, noncorrosive, and biodegradable; Water soluble; Dispose down drain; 32 oz.
15-336-517 - Each for $30.67 and Case of 4 for $122.28
1 gal.
15-336-526 - Each for $144.61
5 gal.

Consumables
Reduces packaging waste, reusable rack and recyclable carrier for pipetter tips

Examination Gloves
Kimberly-Clark Sterling Nitrile Gloves
19-161-590B - Pack of 150 for $30.72 and Case of 10 Packs for $262.56
Gloves, Nitrile; Kimberly-Clark Sterling Nitrile; Have excellent tactile sensitivity that allows easy handling of delicate instruments; Color: Sterling (Gray/Silver); Size: Small
19-161-590C - Pack of 150 for $30.72 and Case of 10 Packs for $262.56
Medium
19-161-590D - Pack of 150 for $30.72 and Case of 10 Packs for $262.56
Large
19-161-590E - Pack of 140 for $30.72 and Case of 10 Packs for $262.56
X-Large

Specialty Pipetter Tips
Fisherbrand SureGrip Pipet Tip Reload System
05-408-187 - Pack of 960 for $53.50 and Case of 5 Packs for $242.60
Pipet Tip, Reload System; Fisherbrand; SureGrip; Nonsterile; 10microL Long Reach, Natural, 960/Pk
05-408-184 - Pack of 960 for $53.50 and Case of 5 Packs for $242.60
100uL
05-408-189 - Pack of 960 for $44.00 and Case of 5 Packs for $219.75
200uL True Tip, for Multichannel Pipettes
05-408-194 - Pack of 768 for $42.00 and Case of 5 Packs for $189.05
1250uL, Graduated

Containers
Reusable
Ice/Insulated Containers
ThermoSafe Polar Pack Foam Bricks
03-530-010 - Case of 72 for $48.33
Brick, Foam; ThermoSafe; Semigrid Foam Blocks; 7 oz.; L x W x Thickness: 4-1/2 x 4 x 3/4 in.; Reusable; Freezes at 0 degree C
03-530-011 - Case of 36 for $27.12
15 oz.; L x W x Thickness: 4-1/2 x 4 x 1-1/2 in.
03-530-012 - Case of 18 for $22.84
31 oz.; L x W x Thickness: 9 x 4 x 1-1/2 in.
03-530-013 - Case of 10 for $22.84
64 oz.; L x W x Thickness: 10-1/2 x 6-1/2 x 1-3/4 in.

ThermoSafe U-Tek Phase Change Materials
03-528-1 - Case of 24 for $27.14
Mailing Refrigerant Pack; U-Tek; ThermoSafe; Reusable; Freezing Point: -23 Deg. C/+/-10 Deg. F; Weight: 12 oz.; L x W x Thickness: 6-3/4 x 4 x 1 in.; Phase Change Material
03-528-6 - Case of 36 for $35.20
Freezing Point: +30 Deg. F; Weight: 8 oz.; L x W x Thickness: 6 x 4 x 3/4 in.
Furniture

Consume 60% less energy than other products

Safety Cabinets

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<th>Model</th>
<th>Description</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>13-261-304</td>
<td>Biological Safety Cabinet; Class II A2; 48 in. wide; Exhaust volume, 328-361cfm; Sash opening, 10 in.; HEPA filter, 99.995% at 0.3microns; 115V 50/60Hz; With stand, UV light, armrest</td>
<td>$7725.00</td>
</tr>
<tr>
<td>13-261-305</td>
<td>Each for $7453.00</td>
<td></td>
</tr>
<tr>
<td>13-261-306</td>
<td>Each for $8755.00</td>
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<tr>
<td>13-261-307</td>
<td>Each for $8755.00</td>
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<tr>
<td>13-261-302</td>
<td>Each for $8045.00</td>
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</tr>
<tr>
<td>13-261-303</td>
<td>Each for $8045.00</td>
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</table>

Instruments

Nonmercury Electrochemistry, Electrodes

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<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-645-151</td>
<td>Electrode, pH Combination; Aquapro Electrodes; Thermo Scientific Orion; Glass Body; Rugged bulb standard glass body pH electrode</td>
<td>$287.00</td>
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<tr>
<td>13-645-152</td>
<td>Each for $322.56 Semi-micro epoxy body pH electrode; Volumes down to 0.2mL</td>
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<tr>
<td>13-645-150</td>
<td>Each for $300.00 Standard epoxy body pH electrode</td>
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Thermo Scientific Orion Ross PerpHecT Combination pH Micro Electrode

<table>
<thead>
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<th>Model</th>
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<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-642-800</td>
<td>Electrode, pH Combination; PerpHecT Combination pH Micro Electrode; Ross; Glass body; Measurement Range: 0-14 pH; Temperature Range: 0 - 100 deg. C</td>
<td>$479.60</td>
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Thermo Scientific Orion Ross Ultra pH Combination Electrodes

<table>
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<tbody>
<tr>
<td>13-642-240</td>
<td>Electrode, pH Combination; Ultra pH Combination Electrodes; Ross; Semi-micro epoxy body pH electrode, volumes down to 0.2mL</td>
<td>$428.00</td>
</tr>
<tr>
<td>13-642-238</td>
<td>Each for $502.00 Semi-micro glass body pH electrode, volumes down to 0.2mL</td>
<td></td>
</tr>
<tr>
<td>13-642-241</td>
<td>Each for $383.00 Standard epoxy body pH electrode</td>
<td></td>
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</table>

Thermo Scientific Orion Standard Series Glass Body and Epoxy Body Combination Electrodes

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>13-643-101</td>
<td>Electrode, pH Combination; Standar Series; Thermo Scientific Orion; Semi-micro glass body, re?llable pH electrode, volumes down to 0.2mL</td>
<td>$175.99</td>
</tr>
<tr>
<td>13-643-102</td>
<td>Each for $155.00 Standard epoxy body, non-re?llable pH electrode</td>
<td></td>
</tr>
<tr>
<td>13-643-100</td>
<td>Each for $164.00 Standard glass body, re?llable pH electrode</td>
<td></td>
</tr>
</tbody>
</table>
Nucleic Acid Purification
Reduces plastic and packaging waste by 80%

Molecular Biology Reagents and Kits, DNA Extraction and Purification

5 PRIME PerfectPure DNA Blood Kits

FP2301900 - Each for $37.81
PerfectPure DNA Purification Kit; Trial size; produces genomic DNA using mini-columns and non-chaotropic reagents
FP2301910 - Each for $127.44
For samples sizes 0.05-0.4mL
FP2301920 - Each for $283.89
For samples sizes 0.4-3mL
FP2301930 - Each for $458.09
For samples sizes 0.4-10mL

Molecular Biology Reagents and Kits, RNA Preparation and Purification

5 PRIME PerfectPure RNA Blood Kit

FP2302110 - Each for $350.47
PerfectPure RNA Purification Kit; for samples sizes 0.05-3mL; isolates pure RNA from blood, animal tissue, or cultured cells
FP2302120 - Each for $465.04
For samples sizes 3-10mL
FP2302130 - Each for $140.04
10 samples

Refrigeration
Use less energy than other products

Chest Freezers

Fisher Scientific Isotemp Basic Ultralow-Temperature Chest Freezers

13-990-18 - Each for $8002.20
Freezer, Fisher Scientific Isotemp Basic -86 deg. Ultra-low temp; Model: Chest; Capacity: 3 cu.ft.; -86 deg. to -40 deg. C. Solid-state controls; Alarm monitoring sys.; Air-cooled refrigeration; CFC-free; Meet UL/CUL; 115V 60Hz
13-990-19 - Each for $8002.20
Capacity: 3 cu. ft.; 208-240V 60Hz
13-990-22 - Each for $8002.20
Capacity: 3 cu. ft.; 220V 50Hz
13-990-24 - Each for $9120.31
Capacity: 7 cu. ft.; 115V 60Hz
13-990-25 - Each for $9120.31
Capacity: 7 cu. ft.; 208-240V 60Hz
13-990-26 - Each for $9120.31
Capacity: 7 cu. ft.; 220V 50Hz
13-990-28 - Each for $9855.90
Capacity: 10 cu.ft.; 115V 60Hz
13-990-29 - Each for $9877.97
Capacity: 10 cu.ft.; 208-240V 60Hz
13-990-30 - Each for $9855.90
Capacity: 12 cu.ft.; 220V 50Hz
13-990-32 - Each for $10600.95
Capacity: 14 cu. ft.; 115V 60Hz
13-990-33 - Each for $11096.95
Capacity: 14 cu. ft.; 208-240V 60Hz
13-990-34 - Each for $11096.95
Capacity: 14 cu.ft.; 220V 50Hz

Thermo Scientific Revco Value Series Ultralow-Temperature Chest Freezers

13-990-84 - Each for $8165.00
Freezer; Value Series Ultralow-Temperature; Model: Upright; Capacity: 3.1 cu. ft.; -86 to -40 deg. C; IntrLogic microprocessor control; Legaci refrigeration system; CFC-free; 115V 60Hz
13-990-64 - Each for $5372.00
3.1 cu. ft. Chest; -40 deg. to -10 deg. C; 115V 60Hz
13-990-65 - Each for $5372.00
3.1 cu. ft. Chest; -40 deg. to -10 deg. C; 208/230V 60Hz
13-990-66 - Each for $6010.00
6.8 cu. ft. Chest; -40 deg. to -10 deg. C; 115V 60Hz
13-990-86 - Each for $9308.00
6.8 cu. ft. Chest; -86 deg. to -40 deg. C; 115V 60Hz
13-990-68 - Each for $10117.00
10.3 cu. ft. Chest; -86 deg. to -40 deg. C; 115V 60Hz
22-291780 - Each for $10117.00
10.3 cu. ft. Chest; -86 deg. to -40 deg. C; 208/230V 60Hz
13-990-70 - Each for $7086.00
13.7 cu. ft. Chest; -40 deg. to -10 deg. C; 115V 60Hz
13-990-90 - Each for $10834.00
13.7 cu. ft. Chest; -86 deg. to -40 deg. C; 115V 60Hz
13-990-91 - Each for $10834.00
13.7 cu. ft. Chest; -86 deg. to -40 deg. C; 208/230V 60Hz
13-990-72 - Each for $7658.00
17.1 cu. ft. Chest; -40 deg. to -10 deg. C; 115V 60Hz
13-990-93 - Each for $11531.00
17.1 cu. ft. Chest; -86 deg. to -40 deg. C; 115V 60Hz
13-990-74 - Each for $8165.00
20.5 cu. ft. Chest; -40 deg. to -10 deg. C; 115V 60Hz
13-990-94 - Each for $12165.00
20.5 cu. ft. Chest; -86 deg. to -40 deg. C; 115V 60Hz
13-990-95 - Each for $12165.00
20.5 cu. ft. Chest; -86 deg. to -40 deg. C; 208/230V 60Hz

### General-Purpose Freezers

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Capacity</th>
<th>Temperature Range</th>
<th>Accessories</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-990-212</td>
<td>Thermo Scientific Revco Basic General-Purpose Freezer</td>
<td>4.9 cu. ft.</td>
<td>-20 to -12 deg. C</td>
<td>Adjustable Temperature Range, Upright, 20.7 cu. ft., CFC-free, Hermetically Sealed Compressor For Quiet Operation</td>
<td>$4839.00</td>
</tr>
<tr>
<td>13-986-125A</td>
<td>Fisher Scientific Isotemp Plus Lab Freezer</td>
<td>45.4 cu. ft.</td>
<td>-30 to -12 deg. C</td>
<td>Recorder Alarm, 230V 60Hz</td>
<td>$9590.00</td>
</tr>
<tr>
<td>13-986-223A</td>
<td>Fisher Scientific Isotemp Plus Lab Freezer</td>
<td>208/230V 60Hz</td>
<td>-41 to -18 deg. C</td>
<td>Microprocessor controlled; CFC-free; 1 hinged glass door; 3 shelves; 115V 60Hz</td>
<td>$8305.00</td>
</tr>
<tr>
<td>13-991-127A</td>
<td>Fisher Scientific Isotemp Plus Lab Freezer</td>
<td>30 cu. ft.</td>
<td>-30 to -12 deg. C</td>
<td>Automatic Defrost, 115V 60Hz</td>
<td>$8138.00</td>
</tr>
</tbody>
</table>

### Lab Freezers

#### Fisher Scientific Isotemp Plus Lab Freezers

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Capacity</th>
<th>Temperature Range</th>
<th>Accessories</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-986-223F</td>
<td>Fisher Scientific Isotemp Plus Lab Freezer</td>
<td>45.4 cu. ft.</td>
<td>-30 to -12 deg. C</td>
<td>CFC-free; 1 hinged glass door; 3 shelves; 115V 60Hz</td>
<td>$8381.00</td>
</tr>
<tr>
<td>13-986-125F</td>
<td>Fisher Scientific Isotemp Plus Lab Freezer</td>
<td>45.4 cu. ft.</td>
<td>-30 to -12 deg. C</td>
<td>Recorder Alarm, 230V 60Hz</td>
<td>$9515.00</td>
</tr>
<tr>
<td>13-986-145F</td>
<td>Fisher Scientific Isotemp Plus Lab Freezer</td>
<td>4.9 cu. ft.</td>
<td>-20 to -12 deg. C</td>
<td>CFC-free, Hermetically Sealed Compressor For Quiet Operation</td>
<td>$4839.00</td>
</tr>
</tbody>
</table>

#### General-Purpose Freezers

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Capacity</th>
<th>Temperature Range</th>
<th>Accessories</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-990-231</td>
<td>Thermo Scientific Revco Basic General-Purpose Freezer</td>
<td>11.5 cu. ft.</td>
<td>-80 deg. C</td>
<td>Space-Saver, One Solid Door, Intralogic Microprocessor Control, Automatic Defrost, -30 deg. C, 115V 60Hz</td>
<td>$4839.00</td>
</tr>
<tr>
<td>13-986-129A</td>
<td>Fisher Scientific Isotemp Plus Lab Freezer</td>
<td>20.6 cu. ft.</td>
<td>-20 to -12 deg. C</td>
<td>With warning label; 115V 60Hz</td>
<td>$11181.00</td>
</tr>
</tbody>
</table>

#### Fisher Scientific Isotemp Plus Lab Freezers

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Capacity</th>
<th>Temperature Range</th>
<th>Accessories</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-986-142</td>
<td>Fisher Scientific Isotemp Plus Lab Freezer</td>
<td>30 cu. ft.</td>
<td>-30 to -12 deg. C</td>
<td>CFC-free; 1 hinged glass door; 3 shelves; 115V 60Hz</td>
<td>$8305.00</td>
</tr>
<tr>
<td>13-986-125FA</td>
<td>Fisher Scientific Isotemp Plus Lab Freezer</td>
<td>60Hz</td>
<td>-30 to -12 deg. C</td>
<td>Recorder Alarm, 208/230V 60Hz</td>
<td>$8871.00</td>
</tr>
</tbody>
</table>

#### Thermo Scientific Revco Basic General-Purpose Freezers

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Capacity</th>
<th>Temperature Range</th>
<th>Accessories</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-990-251</td>
<td>Fisher Scientific Isotemp Plus Lab Freezer</td>
<td>30 cu. ft.</td>
<td>-30 to -12 deg. C</td>
<td>CFC-free, Hermetically Sealed Compressor For Quiet Operation</td>
<td>$4839.00</td>
</tr>
</tbody>
</table>
Undercounter Freezers

Fisher General-Purpose Undercounter Freezers

- 97-926-1 - Each for $1470.30
  Freezer; Undercounter; Fisher; Model: Flammable materials storage; Capacity: 5.6 cu. ft.; -26 to -15 deg. C; Manual defrost; 3 fixed interior shelves

Upright Freezers

Fisher Scientific Isotemp Basic Ultralow-Temperature Upright Freezers

- 13-990-01 - Each for $10404.44
  Freezer; Fisher Scientific Isotemp Basic; -86 deg. C; Ultra-low temp; Model: Upright; Capacity: 13 cu. ft.; 4 shelves; -86 to -50 deg. C; Solid-state controls, Alarm monitoring syst.; CFC-free; Meet UL/CUL criteria, 115V 60Hz
- 13-990-02 - Each for $10404.44
  Capacity: 13 cu. ft.; 208-230V 60Hz
- 13-990-03 - Each for $10555.76
  Capacity: 13 cu. ft.; 220V 50Hz
- 13-990-05 - Each for $11356.51
  Capacity: 17 cu. ft.; 115V 60Hz
- 13-990-06 - Each for $11356.51
  Capacity: 17.2 cu. ft.; 208-230V 60Hz
- 13-990-07 - Each for $11522.54
  Capacity: 17.2 cu. ft.; 230V 50Hz
- 13-990-09 - Each for $12023.80
  Capacity: 20 cu. ft.; 115V 60Hz
- 13-990-11 - Each for $12023.80
  Capacity: 20.2 cu. ft.; 208-230V 60Hz
- 13-990-12 - Each for $12198.24
  Capacity: 20.2 cu. ft.; 230V 50Hz; NEMA P7
- 13-990-13 - Each for $9256.00
  Capacity: 20.2 cu. ft.; 230V 50Hz; NEMA P8
- 13-990-14 - Each for $12839.25
  Capacity: 24 cu. ft.; 115V 60Hz
- 13-990-15 - Each for $12839.25
  Capacity: 24 cu. ft.; 208-230V 60Hz
- 13-990-16 - Each for $12839.25
  Capacity: 24.4 cu. ft.; 230V 50Hz

Thermo Scientific Revco Elite Plus -86C Upright Freezers

- 13-999-103 - Each for $8939.00
  Freezer; Ultralow-Temperature; Revco Elite; 13.4 cu. ft.; -86 to -10 deg. C; Programmable microprocessor control; 17.2 cu. ft.; 115V 60Hz
- 13-999-104 - Each for $11768.00
  Capacity: 17 cu. ft.; -86 to -50 deg. C; Built-in alarm system; 115V 60Hz
- 13-999-105 - Each for $9750.00
  Capacity: 17.2 cu. ft.; -40 to -10 deg. C; Ext. 36-7/8 x 37 x 77-1/2 in. (93 x 94 x 197cm), 115V 60Hz
- 13-999-106 - Each for $10384.00
  Capacity: 20 cu. ft.; -40 to -10 deg. C; Ext. 36 x 48 x 77-1/2 in. (92 x 122 x 197cm), 115V 60Hz
- 13-999-107 - Each for $11525.00
  Capacity: 24 cu. ft.; -40 to -10 deg. C; Ext. 36 x 48 x 77-1/2 in. (92 x 122 x 197cm), 208/230V 60Hz

Thermo Scientific Revco Elite Series Ultralow-Temperature Upright Freezers

- 13-999-01 - Each for $14921.00
  Freezers, -86 deg. C to -50 deg. C; Thermo Scientific Revco Elite Series; Upright; 17.2 cu. ft.; Programmable microprocessor control; Monitoring and alarm systems; 115V 60Hz
- 13-999-02 - Each for $14921.00
  Capacity: 17 cu. ft.; 208-230V 60Hz
- 13-999-03 - Each for $15600.00
  Capacity: 20 cu. ft.; 115V 60Hz
- 13-999-04 - Each for $15600.00
  Capacity: 20.2 cu. ft.; 208-230V 60Hz
- 13-999-05 - Each for $16156.00
  Capacity: 24 cu. ft.; 115V 60Hz
- 13-999-06 - Each for $16156.00
  Capacity: 24.4 cu. ft.; 208-230V 60Hz

Thermo Scientific Revco Ultima Plus -86C Upright Freezers

- 13-999-717 - Each for $14921.00
  Freezers, -86 deg. C; Programmable microprocessor control; Real-Time Monitors; Alarms; 487 Liters; 17.2 cu. ft.; Cryobox Capacity: 2 in.: 320; 3 in.: 240; 230V/450Hz, 720 lbs.
- 13-999-718 - Each for $15600.00
  572 Liters; 20.2 cu. ft.; Cryobox Capacity: 2 in.: 400; 3 in.: 300; 230V/50Hz, 770 lbs.
- 13-999-719 - Each for $16156.00
  691 Liters; 24.4 cu. ft.; Cryobox Capacity: 2 in.: 280; 3 in.: 360; 230V/50Hz, 830 lbs.

Thermo Scientific Revco Ultra PLUS -86C Upright Freezers

- 13-999-727 - Each for $14921.00
  Freezer, Upright; Revco Ultra PLUS; -86 deg. C; Microprocessor Controls; 17.2 cu. ft.; 230V/450Hz, 720 lbs.
- 13-999-730 - Each for $15600.00
  572 Liters; 20.2 cu. ft.; Cryobox Capacity: 2 in.: 400; 3 in.: 300; 230V/50Hz, 770 lbs.
- 13-999-733 - Each for $16156.00
  691 Liters; 24.4 cu. ft.; Cryobox Capacity: 2 in.: 280; 3 in.: 360; 230V/50Hz, 830 lbs.

Thermo Scientific Revco Value PLUS -86C Upright Freezers

- 13-999-723 - Each for $11525.00
  Freezer; Ultralow -86 deg. C; Thermo Scientific Revco Value PLUS; Basic control platform; 17.2 cu. ft.; 115V 60Hz
- 13-999-724 - Each for $11525.00
  Capacity: 17 cu. ft.; 208-230V 60Hz
- 13-999-725 - Each for $12231.00
  20.2 cu. ft.; 115V 60Hz
- 13-999-726 - Each for $12231.00
  20.2 cu. ft.; 208-230V 60Hz
- 13-999-727 - Each for $13054.00
  24.4 cu. ft.; 115V 60Hz
- 13-999-728 - Each for $13054.00
  24.4 cu. ft.; 208-230V 60Hz

Thermo Scientific Revco Value PLUS Upright Freezers

- 13-999-729 - Each for $11525.00
  Freezer; Ultralow -86 deg. C; Thermo Scientific Revco Value PLUS; Basic control platform; 17.2 cu. ft.; 115V 60Hz
- 13-999-730 - Each for $11525.00
  Capacity: 17 cu. ft.; 208-230V 60Hz
- 13-999-731 - Each for $12231.00
  20.2 cu. ft.; 115V 60Hz
- 13-999-732 - Each for $12231.00
  20.2 cu. ft.; 208-230V 60Hz
- 13-999-733 - Each for $13054.00
  24.4 cu. ft.; 115V 60Hz
- 13-999-734 - Each for $13054.00
  24.4 cu. ft.; 208-230V 60Hz
**Water Purification Systems**

Avoids chemical regenerations, and minimizes energy consumption

**Millipore Elix 3/5/10 Water Purification Systems**

- **ZLS56003Y** - Each for $4127.00
  Water, Electrodeionization System, Elix 3, 120v 60Hz, Flowrate 3L/hr, Type II analytical-grade water from Potable Tap Feed
- **ZLX56010Y** - Each for $5857.00
  Elix 10 Water Purification System; 120v 60Hz
- **ZLS56010Y** - Each for $4721.00
  Elix 3 UV Water Purification System
- **ZLS56010Y** - Each for $6411.00
  Elix 10 UV Water Purification System

**Millipore Milli-Q Advantage A10 Ultrapure Water Purification System**

- **Z00QW0US** - Each for $7428.00
  Water Purification System; Milli-Q Advantage A10; Benchtop/wall production unit; Flowrate up to 2L/min.; Resistivity 18.2; TOC <=5ppb; 100/230V 50/60Hz

**Millipore Q-POD Water Delivery Unit**

- **ZM0SP0D01** - Each for $1415.71
  Dispenser; Q-Pod Water Delivery Unit; Millipore; For MQ Advantage; For the polishing and delivery of up to 250L per day; Filter size: 0.39um; Cartridges: Millipak, Biopak

**Millipore BioPak Ultrafiltration Cartridge**

- **CDUF001** - Each for $192.33
  Cartridge, Ultrafiltration; BioPak; Use for production of pyrogen-free and Rnase-free water

**Millipore Cartridges for Milli-Q Advantage**

- **QGARD1X1** - Each for $331.24
  Lamp, UV; Millipore; Replacement Part For Use with Milli-Q Gradient (purple door) and Synthesis (orange door) Models purchased after mid-2001; 254/185nm

**Millipore Millipak-20 Filter Unit**

- **MPG002001** - Each for $129.66
  Filter; Millipore; Millipak Express 20; Standard point-of-use filter; Nonsterile; For Synergy

**Millipore Pure Water Storage Reservoirs**

- **TANKPE030** - Each for $768.00
  Reservoir; Millipore; Holds purified water; 30L capacity; Polyethylene; Hermetically-Sealed Lid, Conical-bottom; Auto refill trigger;Connections for water polishing system and glassware washer; 15 dia. x 23-5/8 in. H, Wt. Full 66 lb.

**Millipore Vent Filters for Water Storage Reservoirs**

- **TANKMPK01** - Each for $215.00
  Filter; Reservoir vent; Millipore; Polyethylene; For Elix 3/5/10 systems

**Millipore Direct-Q Ultrapure Water Systems Accessories and Cartridges**

- **PRG00002** - Each for $261.00
  Water Purification, Cartridges; Direct-Q Ultrapure; Progard 2 Pretreatment Pack; Pretreats feedwater; Antiscaling compound for primary purification and RO membrane protection; For use w/ Elix 3/5/10, ROs 3/5/8/16 systems
**THINK GREEN—BE GREEN**

*Fisher Scientific provides all the tools and services you need to help you be Green!*

Partnering with you and industry-leading suppliers to develop sustainable environmentally friendly business practices—that’s our goal, and our commitment.

**THINK GREEN—THINK FISHER SCIENTIFIC**

### WHAT YOU CAN DO

<table>
<thead>
<tr>
<th>Consolidate orders; combine purchases so that each order is $500 or more</th>
<th>BENEFITS</th>
</tr>
</thead>
</table>
| Purchase multiple-item packs instead of singles | - Reduces multiple deliveries and greenhouse gas emissions  
- Saves on freight charges  
- Saves time |
| Increase item lines per order | - Reduces waste from packaging materials |
| Take advantage of one-stop purchasing | - Provides a way to consolidate orders  
- Reduces order processing time |
| Order online at fishersci.com | - Saves paper  
- Faster order processing  
- Reduces fulfillment errors |
| Adopt EDI/XML transmission standards for common business documents | - Eliminates paper waste  
- Increases accuracy |
| Support institutional supplier consolidation initiatives | - Avoids multiple shipments from multiple vendors  
- Eliminates loss of potentially hazardous materials via common couriers |
| Avoid air shipments where possible | - Reduces CO₂ emissions  
- Avoids expensive freight charges |

### OTHER WAYS THAT FISHER SCIENTIFIC DOES GREEN

<table>
<thead>
<tr>
<th>Recycling</th>
<th>BENEFITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer paper at all offices and facilities</td>
<td>- Surplus IT equipment through a federally certified recycler—processed 16 pallets of used equipment last year</td>
</tr>
</tbody>
</table>
| Saving Energy | - Air conditioning is turned off and lights turned down at our corporate offices on nights/weekends  
- A 2005 renovation of the data center included removal of 35 miles of underfloor cabling, which improved airflow and lowered energy costs by 10% |
| Scheduled Shipment Program | -Introduced in 2005, the program identifies scheduled delivery days for a customer and automatically consolidates customer orders for a single shipment based on the delivery schedule for that customer  
-Lowers number of physical shipments to the customer without affecting the customer ordering cycle |
| FTP Conversion | - Tape distribution is done electronically whenever possible  
- Conversion eliminates four physical shipments per month between U.S. and Canada |

### Did you know?*

- Fisher Scientific helps reduce 3.8 million lbs. (1.7 tons) of CO₂ emissions through fuel savings realized by shorter shipments via our nationwide warehouse network.
- Customer-driven e-commerce through Fisher Scientific’s multiple IT platforms eliminated more than 7.3 million invoices and purchase orders that previously required paper transactions. Savings from reduced electrical energy and paper usage eliminated more than 1.3 million lbs. of annual carbon emissions.
- Improved operations at Fisher Scientific warehouses eliminated 1.8 million lbs. of CO₂, 23,000 lbs. of SO₂, and 8,000 lbs. of nitrous oxide emissions.
- Through better management of the 2006/07 Research Catalog production process, Fisher Scientific saved 111,696,244 pages of paper—equal to saving 1,388 trees (1 foot in diameter and 60 feet tall)! Customers can save even more by requesting the electronic version of the catalog.

### Introducing Fisher Scientific’s EcoSafPak Chemical Packaging

This innovative, patented corrugated honeycomb packaging is expected to reduce greenhouse gas emissions and lower chemical spills. A typical box eliminated 1.4 cubic feet of Styrofoam material (based on two pieces: the base pad is 1.2 cubic feet [15”x15”x9.5”] and the top pad is 0.2 cubic feet). Based on estimated annual usage of approximately 390,000 of these Styrofoam pieces, GreenPak saves 215 tons of foam (429,000 lbs.), and 561,600 cubic feet—equivalent to 1040 twenty-yard dumpsters.

### ADVANTAGES

- 100% recyclable packaging
- Significantly reduced Styrofoam impact on garbage landfills
- Eliminated 1.2 million lbs. of annual Greenhouse Gas emissions
- Eliminated 160-miles-long “line of Styrofoam” based on annual usage
- Actively expand changeover for other package sizes 1x4L, 1x1L, 1x500mL, and our 6x2.5L, 1x2.5L, 6x1L, 6x500mL
- Corrugated honeycomb meets UN and ISTA standards

*Based on an April 2007 Survey of Fisher Suppliers*
An April 2007 survey of 22 Fisher Scientific suppliers showed a greening trend, as more than 80% surveyed have integrated sustainability principles into their manufacturing and distribution processes, facilities management, and/or waste handling systems (see list below).

According to the survey, recycling, energy conservation and greener manufacturing processes are the most widespread applications of “green business” among these manufacturers.

- **Recycling**
  - 82% of surveyed suppliers use recycled packaging materials
  - 73% are redesigning their packaging to utilize greener packing materials

- **Saving Energy**
  - 77% use energy-efficient light fixtures and alternative fuels
  - 59% use energy-efficient light fixtures and alternative fuels in the warehouse
  - 18% participate in delivery-fleet fuel conservation

- **Greener Manufacturing**
  - 55% participate in reduction of virgin plastic
  - Three out of five companies have products that contain post-consumer recycled material
  - Three out of five companies offer products that have replaced high-electrical energy usage processes
  - Four out of five companies offer products that have replaced potentially toxic chemicals used in manufacturing
  - 14% participate in Life Cycle Analysis

- **Water Conservation**
  - 14% participate in water conservation in production

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**Lab Equipment Comparisons**

**THERMO SCIENTIFIC VERSUS OTHER BRAND**

In June 2007 an energy consumption study was conducted by a major research university. The study included freezers, biological safety cabinets, and centrifuges, which are considered to be the biggest energy drain in laboratories today. The study shows significant energy savings for Thermo Scientific equipment when compared to other brands. The following graphs show the energy savings, which is then translated into cost savings and CO₂ savings per year.
**The Revco PLUS Advantage: Highest Sample Integrity**

Our Revco PLUS -86°C freezers deliver the best sample protection with advanced refrigeration technology. We guard your samples by combining the highest temperature stability, maximum recovery time and outstanding energy efficiency.

![Temperature Recovery Graph](image)

**Maximum Heat Removal**

Our Revco PLUS -86°C freezers feature 20% more heat removal capacity. This delivers very quick temperature recovery after door openings for stable, uniform temperatures and ultimate sample protection.

<table>
<thead>
<tr>
<th>Fisher No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-643-101</td>
<td>Semi-micro glass body, refillable pH electrode, volumes down to 0.2mL</td>
</tr>
<tr>
<td>13-643-100</td>
<td>Standard glass body, refillable pH electrode</td>
</tr>
<tr>
<td>13-643-102</td>
<td>Standard epoxy body, non-refillable pH electrode*</td>
</tr>
</tbody>
</table>

**Energy Efficiency**

Greater than 15% energy savings and 15% less heat rejection over other leading freezers, our Revco PLUS -86°C freezers conserve valuable energy resources to keep your lab comfortable and samples protected.

![Energy Usage Graph](image)

**Non-mercury**

Thermo Scientific offers non-mercury Orion electrodes specifically developed to perform even in your most difficult samples. Plus, Orion electrodes with APWP, BNUWP or DJWP connections will work on any pH meter with a BNC connector.

**Ordering Information**

<table>
<thead>
<tr>
<th>GOOD</th>
<th>Fisher No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-643-101</td>
<td>Semi-micro glass body, refillable pH electrode with 0.02 to 0.05pH unit precision and a one-year warranty</td>
<td></td>
</tr>
<tr>
<td>13-643-100</td>
<td>Standard glass body, refillable pH electrode</td>
<td></td>
</tr>
<tr>
<td>13-643-102</td>
<td>Standard epoxy body, non-refillable pH electrode*</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BETTER</th>
<th>Fisher No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-645-150</td>
<td>Semi-micro glass body pH electrode, volumes down to 0.2mL</td>
<td></td>
</tr>
<tr>
<td>13-645-151</td>
<td>Rugged bulb standard glass body pH electrode</td>
<td></td>
</tr>
<tr>
<td>13-645-152</td>
<td>Semi-micro epoxy body pH electrode, volumes down to 0.2mL</td>
<td></td>
</tr>
<tr>
<td>13-645-154</td>
<td>Standard epoxy body pH electrode</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BEST</th>
<th>Fisher No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-642-237</td>
<td>Standard glass body pH electrode</td>
<td></td>
</tr>
<tr>
<td>13-642-241</td>
<td>Standard epoxy body pH electrode</td>
<td></td>
</tr>
<tr>
<td>13-642-238</td>
<td>Semi-micro glass body pH electrode, volumes down to 0.2mL</td>
<td></td>
</tr>
<tr>
<td>13-642-240</td>
<td>Semi-micro epoxy body pH electrode, volumes down to 0.2mL</td>
<td></td>
</tr>
<tr>
<td>13-642-800</td>
<td>Micro glass body pH electrode, 3mm diameter sensing bulb</td>
<td></td>
</tr>
</tbody>
</table>


*9156DJWP Gel filled electrode is warranted to be free from defects in material and workmanship for a period of six (6) months from date of purchase by customer or twelve (12) months from date of shipment from Thermo Scientific, whichever is earlier.

ROSS and the COIL trademark are trademarks of Thermo Scientific. US Patent 6,793,787
Tips for going green:

- Unplug appliances to eliminate "standby power." If you plug your appliances into a power strip, and turn the power strip off instead of simply turning off the device in question, it can reduce energy consumption and your carbon dioxide emissions by approximately 200 pounds annually.

- Reuse Styrofoam and cardboard packaging. The boxes make great temporary storage for enzymes, media, and other reagents for your experiments. You can also use the boxes to send samples to other labs.

- Use a laptop computer. A regular desktop computer uses 50 percent more energy when compared to a laptop.

- Recycle used ink cartridges. It can take up to three gallons of oil to create a brand-new one.

- Always make two-sided copies when using a photocopier. Every year on average, each office throws away 350 pounds of paper, per employee. That translates into building a 12-foot-high wall from New York to Seattle every year.

- Save energy by turning off lights in unoccupied conference rooms and offices. At home, only use the lights you need and turn them off when you leave the room.

- Change your light bulbs. Replacing just one 75-watt incandescent bulb used two hours a day with a 19-watt CFL cuts 55 pounds of carbon dioxide emissions per year and up to 550 pounds for the life of the bulb. Source: National Geographic’s The Green Guide

- If possible, use computer emails to distribute documents instead of via paper hard copy.

- A full refrigerator saves more energy. It takes 50 percent more energy to cool a near empty fridge.

- Switch to green power through your local utility company. In many states you can choose to purchase renewable energy from your local power company.

- An average driver can save 143 gallons of gasoline and prevent about 2,778 pounds of carbon dioxide out of the atmosphere in a year, by driving two fewer days each week. (Based on 12,000 miles traveled annually and average gas mileage of twenty-four miles per gallon.)

- Recycle old cell phones. When discarded improperly, old cell phones can release lead, mercury and cadmium into the environment.

- Use a programmable thermostat. You can save up to 5 percent on your energy bill for every degree you lower your thermostat below 70 in winter and 2 percent for every degree above 72 in the summer.

Resources:
http://www.globalstewards.org/main.htm
http://www.epa.gov
http://www.eere.energy.gov/greenpower/buying/buying_power.shtml
http://www.globalstewards.org/main.htm
National Recycling Coalition: http://www.nrc-recycle.org/

Please go to: http://www.fishersci.com for more information about the products in this catalog.
## MULTIPLE SHIPMENTS

| How many vendors do you typically order your lab supplies from? |   |
|__________________________________________________________|---|
| How many vendors are within 150 miles of your laboratory?     |   |
| What is the delivery frequency per month?                    |   |
| Multiply both numbers. Enter your result in (A), below.       |   |
| How many vendors are more than 150 miles from your laboratory?|   |
| What is the delivery frequency per month?                    |   |
| Multiply both numbers. Enter your result in (B), below.       |   |

**CO2 CALCULATOR**

\[
\text{Carbon Emission} = ([A] \times 100 \times 0.0054) + ([B] \times 1600 \times 0.77) = \text{lbs. of Carbon Emission}
\]

## ORDER PROCESSING

| How many times a week do you place orders for lab supplies? |   |
|__________________________________________________________|---|
| How many different vendors do you typically order from in a week? |   |
| Do you use Purchase Orders?                                |   |
| On average, how many orders do you place per week (usually take four pieces of paper)? |   |
| (A) Conversion for energy factors:                         |   |
|                                                            |   |
|                                                            |   |
|                                                            |   |
|                                                            |   |
| (B) Add for Paper Purchase Orders Conversion:              |   |
|                                                            |   |
|                                                            |   |
|                                                            |   |
| (C) Total per Week:                                        |   |

**FACTS:**

- Diesel engine trucks usually make deliveries that are within 100 miles. Carbon emissions from trucks are estimated to be 0.0054 lbs. per mile. The average distance of vendors to labs nationwide is about 1,600 miles. Carbon emissions from airplanes are estimated to be about 0.77 lbs. per mile.

**To help conserve fuel and lower greenhouse gas emissions into the atmosphere:**

- Consolidate orders through Fisher Scientific—save gas through fewer truck rolls and shorter trips thanks to Fisher Scientific’s extensive nationwide warehouse network
- Join Fisher Scientific’s CORE program today—efficient stocking and ordering = fewer deliveries

**FACTS:**

- Paper is about 100% cellulose, which is 40% carbon. Hence discarded papers, whether virgin or recycled, will eventually contribute 40% of their weight to the environment as carbon.
- A typical hardcopy purchase order form is faxed for approval; order is usually called in or faxed; operators will process order, order sent for delivery; purchase order will usually be photocopied for Purchasing Department and packing slip generated. Usually require one purchase order per vendor.
- Estimated 0.150 KWH (CPU 100 Watt, Monitor 100 Watt, Printer 100 Watt, 30 minutes) to process one order

**To help reduce the amount of paper and energy you consume:**

1. Consolidate vendors—place all orders through Fisher Scientific
2. Consolidate orders—keep running total of products and order at the end of the week
3. Order online at [www.fishersci.com](http://www.fishersci.com)
### RESEARCHING PRODUCTS

Do you use paper catalogs to research your products?  
How many catalogs do you have from various vendors?

**CO₂ CALCULATOR**  
**Carbon Emission:**

\[
\text{# of catalogs} \times 50,000,000 \times 0.004 \text{ lb.} = \]

**Trees Utilized:**

\[
\text{# of catalogs} \times 621 \text{ trees} = \]

### WASTE DISPOSAL

Which of the following scenarios best describes your lab’s waste disposal practices?

- (A) We don’t recycle at all
- (B) We recycle about half of all recyclable materials
- (C) We recycle everything we can

**FACTS:**

- One paper catalog is typically 500 pages thick and prints 100,000 copies. That’s 50 million pages—the equivalent of 621 trees!
- Paper is about 100% cellulose, which is 40% carbon. Discarded papers, whether virgin or recycled, will eventually contribute 40% of their weight to the environment as carbon.

To reduce the amount of paper you consume:

- Where possible, use electronic or CD versions of catalogs
- Use online research and ordering at [www.fishersci.com](http://www.fishersci.com)

**FACTS:**

- If you answered a or b, you can help to reduce landfill waste deposits by better utilizing your institution’s recycling facilities, and by reusing and/or recycling packaging materials.