



EXCLUSIVE TO MANDEL

WORLD CLASS. WORLDWIDE.

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## Esco CelCulture<sup>®</sup> CO<sub>2</sub> Incubators

Sleek, reliable and intuitive

Introducing Esco CelCulture<sup>®</sup> - world class CO<sub>2</sub> incubators with the technologies and compliance to prove it. Precise parameter control, robust contamination control with low service costs provide all-rounded sample protection that brings your scientific dreams one step closer to reality.



- VivoCell™ precise temperature, CO<sub>2</sub> control and high humidity
- 90°C moist heat decontamination cycle
- Air jacket provides isolation against ambient temperature fluctuations
- CelSafe™ contamination control system provides seamless protection
- SteriSafe™ ULPA filtration enables the chamber air to be maintained at ISO class 5 condition
- Comprehensive user-configurable alarms for all parameters
- CelAlert™ alarm system reminds user to replace CO<sub>2</sub> tank and ULPA filter
- Easy to clean: glass door, inner gasket, ductwork, plenums and shelves are all removable without tools



Please contact Mandel at 1-888-883-3636 or email [quotes@mandel.ca](mailto:quotes@mandel.ca) for pricing and a quote

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**BIOSAFETY CABINETS**

**Labculture® Class II Type A2**

The most widely accredited biosafety cabinet in the world

- Largest work zone in the industry
- Tri-wall construction surrounds the work zone with negative pressure plenums for maximum safety
- Dual, long-life ULPA filters with 99.999% efficiency for particle size between 0.1 and 0.3 microns
- Esco Sentinel™ Gold microprocessor
- Available in 3 – 6 foot sizes



**Labculture® Reliant Class II Type A2**

The best value Class II biosafety cabinet

- Lowest height profile of any benchtop biological safety cabinet
- Dual-wall construction surrounds the work zone with negative pressure plenums for maximum safety
- Dual, long-life ULPA filters with 99.999% efficiency for particle size between 0.1 and 0.3 microns
- Available in 4 & 6 foot sizes



**Starting from \$5,700 including STL Free Stand**

[www.mandel.ca](http://www.mandel.ca)  
For product information and pricing!

Or contact technical support at [technicalsupport@mandel.ca](mailto:technicalsupport@mandel.ca) or 1-888-883-3636

**DUCTLESS FUME HOODS**

- Environmentally-friendly: does not discharge toxic gases to the environment
- Safe carbon filtration – compliance to international standards
- Low cost – no ductwork required
- Over 7 Nanocarb™ carbon filter types: volatile organic compound acid, mercury, sulphur, halogen aldehyde, ammonia or HEPA – all sold separately

**Ascent™ Opti**

- The most technologically advanced, low-cost ductless fume hood
- Equipped with features found only on high-end ductless fume hoods

**Ascent™ Max**

- Balance of quality, performance and cost-effectiveness
- Operates at a very low noise level
- Extremely low energy consumption



Ascent Max

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
3ft Ascent Opti Ductless Fume Hood	ESC-SPD-3A2	\$3,449.00	<b>\$2,759.20</b>
4ft Ascent Opti Ductless Fume Hood	ESC-SPD-4A2	3,535.00	<b>2,828.00</b>
3ft Ascent Max Ductless Fume Hood	ESC-ADC-3B2	4,619.00	<b>3,695.20</b>
4ft Ascent Max Ductless Fume Hood	ESC-ADC-4B2	4,619.00	<b>3,695.20</b>
5ft Ascent Max Ductless Fume Hood	ESC-ADC-5B2	5,067.00	<b>4,053.60</b>
6ft Ascent Max Ductless Fume Hood	ESC-ADC-6B2	5,067.00	<b>4,053.60</b>



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## Airstream® PCR Cabinets

More energy-efficient than typical laminar flow clean benches

- True vertical laminar airflow for better protection against cross contamination
- High-quality polyester pre-filter and main HEPA filter with a typical efficiency of 99.99% at 0.3 microns provide the best product protection in the world
- Admin PIN can be set on the control to restrict unauthorized access to menu parameters
- UV decontamination cycle is fully programmable using the microprocessor keypad; a timer will turn off the UV lamp after the set period of time.
- Available in 3 & 4 foot sizes



## Airstream® Vertical Laminar Flow Clean Bench



- Vertical flow reduces airflow turbulence in the work zone when large instruments are used compared with conventional horizontal flow models
- Glass sides enhance visibility
- A curved work surface front edge, and an angled front promotes ergonomics
- ULPA filters operate at a typical efficiency of >99.999% at 0.1 to 0.3 micron sizes, providing superior product protection over conventional HEPA filters



DESCRIPTION	CAT. NO.	PRICE	SPECIAL
3ft Airstream Vertical Laminar Flow Clean Bench	ESC-AVC-3D2	\$4,070.00	<b>\$3,256.00</b>
4ft Airstream Vertical Laminar Flow Clean Bench	ESC-AVC-4D2	4,072.00	<b>3,257.60</b>
5ft Airstream Vertical Laminar Flow Clean Bench	ESC-AVC-5D2	4,946.00	<b>3,956.80</b>
6ft Airstream Vertical Laminar Flow Clean Bench	ESC-AVC-6D2	6,128.00	<b>4,902.40</b>

## 311DS Shaking Incubator

High performance incubator with a built-in orbital shaker



Ideal for:

- Bacteria cultures
- Yeast cultures
- Entomology studies
- Egg hatching
- Hybridization washes
- Mixing and resuspensions

- Temperature range ambient +5°C to 80°C
- Built-in shaker with multiple platform options
- Shaker orbit/speed: 19mm/20 to 300rpm
- Flask capacity: 4 x 2L, 6 x 1L, 8 x 500mL, 12 x 250mL, 20 x 125mL, 30 x 50mL
- Timer: 0 – 99 minutes or continuous
- Chamber volume: 2.5cu. ft.

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
Digital incubator with shaker and 2 shelves, Model 311DS, 120V (platform not included)	NL-I-5311-DS	\$6,033.00	<b>\$4,524.75</b>
Platform pre-drilled for flask clamps for 311DS	NL-I-5330	423.00	<b>317.25</b>
Additional shelf for 311DS incubator	NL-I-5322	210.00	<b>157.50</b>
Flat shaker platform with nonslip rubber mat	NL-I-5331	362.00	<b>271.50</b>

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## Anaerobic Vinyl Chamber

Used for over 30 years in critical anaerobic research and clinical diagnostic labs, these chambers maintain a strict 0-5 ppm (parts per million) O<sub>2</sub> environment using a hydrogen gas mix reacting with a palladium catalyst.

- Durable optically clear vinyl gives long life
- More useable workspace than competitive designs
- Flexible materials reduce operator fatigue
- Available: 36", 59", 78" and custom sizes



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## Hypoxic Chamber

Now cells and tissue culture can be incubated in an oxygen and temperature controlled, environment, enriched with CO<sub>2</sub>, that allows SAMPLE MANIPULATION without exposing them to ambient conditions.

- O<sub>2</sub> Control 0 – 100%
- Temperature control from ambient to 40°C
- Gloveless sleeves for barehanded manipulation
- Various sizes available

Available with: SDR - SensorDish Reader

- Non-invasive online culture monitoring of oxygen and pH
- For 24- and 6-well plates
- Measurement under real conditions in incubator atmosphere



Hypoxic Cabinet with Optional CO<sub>2</sub> Control

## Gloveless Anaerobic Chamber

- Vacuum purge sleeves for barehanded entry
- Solid state humidifier
- Armport plugs seal box atmosphere when idle
- 3 standard sizes: 36", 48", 60" lengths





## Revco Ultra-Low Temperature Freezers

Efficient, innovative with increased storage capacity

### Revco UxF - 86°C Upright Freezers

Ultimate protection & optimum capacity

- Maximize sample storage capacity while minimizing the freezer's physical space inside your lab
- Outstanding opening recovery rate and consistent temperature uniformity
- 2 modes – Save up to 15% in energy usage in the energy-savings mode or choose the high-performance mode for ultra-tight temperature uniformity
- LCD touch-screen control panel provides access to a detailed event log without opening the door. Built-in USB port enables easy downloading of event log to a portable device
- Optional features include LN<sub>2</sub> and CO<sub>2</sub> back-up systems, chart recorder, stainless steel inventory racking and hands-free proximity card-access system
- Stainless steel interior in 5 sizes: 14.9, 19.4, 24.1, 28.8, and 33.5 cu. ft (421, 548, 682, 815 and 949L)



### Revco ExF - 86°C Upright Freezers

Dependable sample protection from -50° -86° C

- State-of-the-art refrigeration system & rugged construction
- Eye-level microprocessor LED control panel
- Optional LN<sub>2</sub> and CO<sub>2</sub> back-up systems, built-in chart recorder
- Stainless steel interior in 4 sizes: 13, 17, 23 and 28 cu. ft (240, 320, 400 and 600L)



### Revco DxF - 40°C Upright Freezers

Dependable sample protection between -10 and -40

- State-of-the-art refrigeration system & rugged construction
- Knee-level microprocessor control panel
- Optional LN<sub>2</sub> and CO<sub>2</sub> back-up systems, built-in chart recorder
- Galvaneel interior in 3 sizes: 13, 17, and 23 cu. ft (240, 320, 400 and 600L)



### Revco CxF Chest Freezers

Available in 4 sizes in both -40 and -86

- State-of-the-art refrigeration system & rugged construction
- Eye-level microprocessor control panel
- Optional LN<sub>2</sub> and CO<sub>2</sub> back-up systems, built-in chart recorder
- Stainless steel interior in 4 sizes: 3, 12.7, 17 and 20 cu. ft (84.9, 359.6, 481.1 and 566.3L)



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# Revco High-Performance Laboratory Refrigerators

Fit a variety of space and storage requirements



- Adjustable temperatures between 1°C and 8°C, factory preset setpoint at 4°C
- Advanced microprocessor control systems
- Positive, forced-air circulation maintains temp. uniformity
- Industrial-quality cabinet construction
- Automatic condensate removal and defrost
- Extra-strength refrigeration compressors



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# Revco High-Performance Laboratory Freezers

Designed for medical and scientific applications

- Storage of reagents, pharmaceuticals, biologicals or other commonly used lab materials
- Offer cabinet sizes to fit a variety of spaces and storage volume requirements
- Temp. factory-preset at -20°C or -30°C
- Capacities from 139 to 1447L
- Icon-based controls and displays



# Heraeus® HERAcCell® i Series CO<sub>2</sub> Incubators

Surround your valuable cultures with an environment you can trust

- NEW: iCAN (Interactive Control Access Navigator) Touchscreen simplifies operation and enables rapid access of important information for each critical parameter in the incubator
- ContraCon 90°C moist heat decontamination technology is proven for simple and worry-free cleaning and operation
- Direct humidification offers the fastest humidity recovery times and provides optimal growth conditions for cultures
- Auto-zero self-calibration for long-term stability and more constant pH
- Water-level alarm, 1 – 2 days before the water reservoir runs dry



HERAcCell® 240i



**Please contact Mandel at 1-888-883-3636 or email quotes@mandel.ca for pricing and a quote**

Specifications	
Total volume	150 or 240L
Decontamination	90°C/9h
Temp. range	ambient +3°C to 55°C
CO <sub>2</sub> range	0 – 20%
Humidity	≥95% rH±3