

Esco CelCulture® CO₂ Incubators

Sleek, reliable and intuitive

Introducing Esco CelCulture® - world class CO₂ 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, CO₂ 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 CO₂ tank and ULPA filter
- Easy to clean: glass door, inner gasket, ductwork, plenums and shelves are all removable without tools



ESCO
WORLD CLASS. WORLDWIDE.

**EXCLUSIVE TO
MANDEL**



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

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™ microprocessor
- Available in 3 – 6 foot sizes



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

www.mandel.ca
For product information
and pricing!

Or contact technical support at
technicalsupport@mandel.ca or 1-888-883-3636

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



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	\$2,759.20
4ft Ascent Opti Ductless Fume Hood	ESC-SPD-4A2	3,535.00	2,828.00
3ft Ascent Max Ductless Fume Hood	ESC-ADC-3B2	4,619.00	3,695.20
4ft Ascent Max Ductless Fume Hood	ESC-ADC-4B2	4,619.00	3,695.20
5ft Ascent Max Ductless Fume Hood	ESC-ADC-5B2	5,067.00	4,053.60
6ft Ascent Max Ductless Fume Hood	ESC-ADC-6B2	5,067.00	4,053.60



Frontier Acela™ Fume Hoods



**EXCLUSIVE TO
MANDEL**

- Unique Hot Zone Baffles capture fumes quickly
- Tapered fiberglass exhaust collar reduces airflow turbulence, static pressure loss, noise level and increases face velocity uniformity
- Sash stop limits sash movement beyond 457mm (18"). When raised above this height, sash will automatically and gently fall back to the safe level (Esco's CreepDown Mechanism)
- Delivers outstanding containment (less than 0.05ppm, as manufactured) down to 60fpm face velocity at both 18" restricted and full open sash openings

Also available: Frontier PVC Acid Digestion Fume Hoods

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	\$3,256.00
4ft Airstream Vertical Laminar Flow Clean Bench	ESC-AVC-4D2	4,072.00	3,257.60
5ft Airstream Vertical Laminar Flow Clean Bench	ESC-AVC-5D2	4,946.00	3,956.80
6ft Airstream Vertical Laminar Flow Clean Bench	ESC-AVC-6D2	6,128.00	4,902.40

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)	NLI-5311-DS	\$6,033.00	\$4,524.75
Platform pre-drilled for flask clamps for 311DS	NLI-5330	423.00	317.25
Additional shelf for 311DS incubator	NLI-5322	210.00	157.50
Flat shaker platform with nonslip rubber mat	NLI-5331	362.00	271.50



**EXCLUSIVE TO
MANDEL**

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) O₂ 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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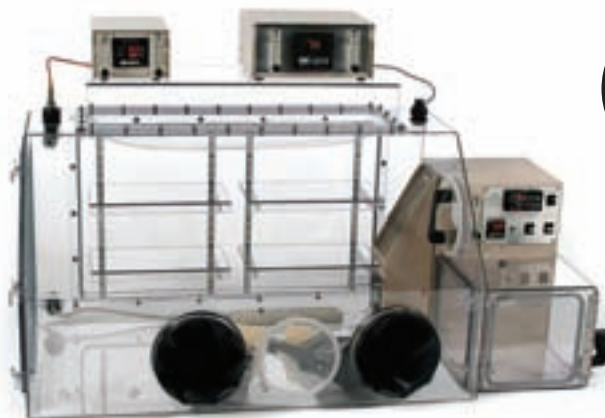
Hypoxic Chamber

Now cells and tissue culture can be incubated in an oxygen and temperature controlled, environment, enriched with CO₂, that allows SAMPLE MANIPULATION without exposing them to ambient conditions.

- O₂ 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



**For
in vivo and
in vitro
studies!**



Hypoxic Cabinet with Optional CO₂ 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



- HD (High Density) technology delivers high efficiency storage
- Highly efficient, innovative thin-wall insulation technology for expanded capacity without a larger footprint
- Sophisticated, easy-to-read microprocessor
- Higher heat removal capacity than competitors, ensuring faster temp. recovery after door openings
- Environmentally-friendly, CFC-free refrigerants
- Low power consumption
- Various sizes and temperature ranges available

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Revco High-Performance Chromatography Refrigerators

Designed for a variety of applications requiring close temperature control



- Adjustable temperatures between 1°C and 8°C, factory preset setpoint at 4°C
- Two 2-inch diam. access ports with hinged covers allows full access to chromatography instrumentation within the chamber
- Advanced microprocessor control systems
- Positive, forced-air circulation maintains temp. uniformity
- Industrial-quality cabinet construction
- Extra-strength refrigeration compressors
- Peripheral closed-cell door gaskets maintain temperature integrity
- Automatic condensate removal and defrost



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 CO₂ 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



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