

HERAEUS® HERACELL® 150 TRI-GAS CELL CULTURE INCUBATOR

POWERFUL contamination prevention
with **PRECISE** O₂ atmosphere control



Available with a stainless steel or a fungicidal/bactericidal solid copper interior, the 5.4 cu. ft. (150 L) Heraeus® HERAcCell® 150 tri-gas incubator features the acclaimed ContraCon 90°C decontamination routine for unsurpassed contamination prevention, even against mycoplasma.

The HERAcCell 150 provides a safe, stable, precisely-controlled hypoxic or hyperoxic cell culture environment with the proven contamination control and convenience offered by ContraCon. *Only the HERAcCell 150 gives you precise O₂/N₂ control with the convenience of a decon routine that does not require the removal and re-fitting of sensors and shelves.*

Unique O₂ Control with Auto-Cal

Two O₂ control ranges precisely control oxygen concentration for applications requiring decreased or increased O₂ conditions.

- 1 – 21% O₂ or 5 – 90% O₂
- Accurate, maintenance-free zirconium sensor is automatically calibrated by integral Auto-Cal system for long-term stability
- Sensor is left in place during ContraCon decontamination

TC or New IR CO₂ Sensor Option

Choose the standard thermal conductivity (TC) sensor with accurate gas sensor technology, or select the optional infrared (IR) sensor with exclusive dual-beam technology – the perfect sensor for precise CO₂ control in fluctuating temperature and humidity conditions.



HERAcCell 150
Tri-Gas Cell Culture Incubator

- Auto-zero self-calibration for long-term stability and more constant pH
- Sensors remain in place during ContraCon decontamination

Superior Contamination Prevention

Heraeus leads the market in pioneering innovations that reduce incubator contamination. The HERAcCell 150 tri-gas incubator incorporates:

- The ContraCon 90°C automatic decontamination routine, which decontaminates the entire interior and water reservoir without the need to remove sensors and fittings (in independent tests, ContraCon was proven to completely eliminate mycoplasma)

- Reduced internal surface area minimizes contamination-prone surfaces
- Smooth interior with rounded corners for easy cleaning
- Optional solid copper interior

Rapid Humidity Recovery

Fast humidity recovery times prevent cultures from drying out – a vital feature when the door is opened frequently or low media volumes are used.

- Large, directly-heated water reservoir
- Recovery times are up to 5 times faster than those of incubators with conventional water pans
- Water level alarm with audible and visual alerts

GENERAL FEATURES

- Air-jacketed heating system maintains temperature uniformity
- 1.6" (42 mm) access port
- Left-hinged door option (standard model is right-hinged)
- 3 adjustable shelves
- 3 gas-tight inner glass doors
- Auto-start function
- RS 232 interface
- Central monitoring connection

SPECIFICATIONS

Heraeus® HERAcCell® 150 Tri-Gas Cell Culture Incubator

Temperature		
Temperature control range	°C	air jacket temperature control ambient, +3 to +55
Temperature deviation, time/spatial	°C	± 0.1/± 0.5
Ambient temperature range	°C	+18 to +33
Recovery time at 37°C ¹	min	≤ 10
CO₂		
Measure and control range	% by volume	thermal conductivity sensor 0 to 20
Control accuracy	% by volume	± 0.1
Recovery time, 5% CO ₂ ¹	min	≤ 5
O₂		
Measure and control range	% by volume	zirconium sensor 1 to 21 or 5 to 90
Control accuracy	% by volume	± 0.1
Recovery time ¹	% O ₂ /min	≤ 21% O ₂ = 0.5, > 21% O ₂ = 1.0
Humidity		
Constant humidity ²	% rH	≥ 95
Fill amount/water quality	L	max. 3/distilled or autoclaved
Recovery time at 95% rH ^{1,2}	min	≤ 30
ContraCon decontamination routine		
Decontamination phase	°C (hrs)	verified by accredited laboratories 90 (9)
Period (ambient temperature 20 °C)	hrs	27
Efficiency spectrum		bacteria, fungi, spores (USP 23) mycoplasma
Dimensions		
Internal (w x h x d)	inch (mm)	25.1 x 34.1 x 30.2 (637 x 867 x 766)
Internal (w x h x d)	inch (mm)	18.5 x 23.9 x 20.9 (470 x 607 x 530)
Total volume	cu. ft. (L)	5.4 (150)
Weight (excl. accessories)	lb (kg)	165 (70)

¹ 30 sec. door open, to 98 % of initial value. ² the relative humidity inside the incubator may increase during incubation of open culture vessels.



HERAcCell 150 Tri-Gas Cell Culture Incubator with 3 gas-tight door assembly minimizes recovery times and reduces contamination risks.

CATALOG NUMBERS

Standard equipment:

air-jacket heating, ContraCon decontamination routine, auto-zero, water-level alarm, right hinged door

HERAcCell 150 Tri-Gas with TC Sensor	Description	Catalog No.
HERAcCell 150 (120 V, 50/60 Hz)	stainless steel interior, O ₂ control range 1-21%	51022872
HERAcCell 150 (120 V, 50/60 Hz)	stainless steel interior, O ₂ control range 5-90%	51022547
HERAcCell 150 (120 V, 50/60 Hz)	solid copper interior, O ₂ control range 1-21%	51022545
HERAcCell 150 (120 V, 50/60 Hz)	solid copper interior, O ₂ control range 5-90%	51022874

HERAcCell 150 Tri-Gas with IR Sensor	Description	Catalog No.
HERAcCell 150 (120 V, 50/60 Hz)	stainless steel interior, O ₂ control range 1-21%	51022894
HERAcCell 150 (120 V, 50/60 Hz)	stainless steel interior, O ₂ control range 5-90%	51022912
HERAcCell 150 (120 V, 50/60 Hz)	solid copper interior, O ₂ control range 1-21%	51022915
HERAcCell 150 (120 V, 50/60 Hz)	solid copper interior, O ₂ control range 5-90%	51022916

For Ordering or Technical Information

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