

## C series

## The new STANDARD in CO2-incubators

The C 150 sets new standards for cell cultivation: contamination-free as a result of hot air sterilization at 180 °C, stable pH thanks to a drift-free FPI infrared measurement system, superior temperature precision with excellent dynamics, and an interior that is condensation-free even at high humidity levels to ensure best growth results. Used stand alone or as a stack the C 150 is easily accessible.

**Leistungsmerkmale/Ausstattung:**

- Electronically controlled APT.line™ preheating chamber technology
- Temperature range of 7 °C above ambient temperature up to 50 °C
- Microprocessor with LED display for temperature and CO2-concentration
- Various alarm and status displays
- Locking of controller keyboard via 3 digit password
- Standard-compliant hot-air sterilization at 180 °C (acc.to DIN 58947, Pharmacopoeias, ANSI)
- Air jacket system
- Drift free infrared CO2 measurement system
- Gas mixing head
- Weldless deep-drawn inner chamber made of stainless steel Mat. No. 1.4301 (V2A) / AISI 316 Ti with integrated shelf support system
- Humidification by water pan with built-in condensation control
- Automatic diagnostic system with optical and acoustic alarm, as well as zero-voltage relay contact for central monitoring
- Temperature safety device, Class 3.1 (DIN 12880) with visual and acoustic temperature alarm
- Tightly closing inner glass door
- Lockable door
- Door hinged left or right, factory fitted
- 3 perforated shelves made of stainless steel Mat. No. 1.4301 (V2A) / AISI 316 Ti
- Units are stackable with stacking adapter
- BINDER test certificate

	<b>C 150</b>
<b>Exterior dimensions</b>	
Width (mm/inch)	680 / 26.8
Height (mm/inch)	819 / 32.2
Depth (mm/inch)	815 / 32.1
plus door handle, I-triangle (mm/inch)	54 / 2.1
plus mains- and gas connection (mm/inch)	60 / 2.4
Wall clearance rear / side (mm/(inch))	100 / 50 / (3.9 / 2.0)
<b>Interior dimensions</b>	
Width (mm/inch)	500 / 19.7
Height (mm/inch)	600 / 23.6
Depth (mm/inch)	500 / 19.7
Interior volume (l/cu.ft.)	150 / 5.4
Perforated shelves, stainless steel (number standard/max.)	3 / 6
Dimensions of perforated shelves, width x depth (mm)	491 x 442
width x depth (inch)	19.3 x 17.4
Weight of the unit (kg/lbs.)	95 / 209
<b>Temperature / CO2 data</b>	
Temperature range, 7 °C (13 °F) above ambient up to °C/°F	50 / 122
Temperature variation at 37°C (98.6°F) (± °C)	0.4
Temperature fluctuation (± °C)	0.1
Recovery time after door was opened for 30 sec. at 37°C (98.6°F) (Min)1)	5
CO2-range (Vol.-% CO2)	0-20
Setting accuracy (Vol.-% CO2)	0.1
Recovery time after door was opened for 30 sec. up to 5 vol. % (Min) 1) 2)	7
Hose connectors for CO2 (mm/inch)	6
Humidity (average values) (±2 % RH)	≤ 95
<b>Electrical data</b>	
Housing protection acc. to EN 60529	IP 20
Nominal voltage (±10 %) 50/60 Hz (V)	230
Nominal voltage (±10 %) 60 Hz (V)	115
Nominal voltage (±10 %) 50/60 Hz (V)	100
Nominal power (W)	1200

1) up to 98 % of the set value

2) The recovery times of the gas concentration inside the chamber following a door opening refer to an inlet pressure of 2.0 bars (psi).

Specified ambient temperature range 18 °C (64 °F) to 30 °C (86 °F). All technical specification are specified for units with standard equipment at an ambient temperature of 25 °C (77 °F) and a voltage fluctuation of ±10 %. The temperature data are determined in accordance to factory standard following DIN 12880, part 2 respecting the recommended wall clearances of 10 % of the height, width and depth of the inner chamber. All indications are average values, typical for units produced in series. We reserve the right to alter technical specifications at all times.

### CTM 01 measuring unit for CO<sub>2</sub> concentration and temperature



Universally usable, portable measuring unit for precise determination of CO<sub>2</sub> concentration and temperature.



### Cleaning kit

Halogenfree detergents for gentle cleaning of interior chamber without causing corrosion:

- Mild cleaner for stainless steel to provide long -therm-protection
- Clinically approved disinfectant
- Celaning cloth



### Calibration certificates

Measurement in the center at specified values. Additional measuring points or test values according to your specification.

	<b>C 150</b>
Perforated shelf, stainless steel	O
Base on castors	O
Stacking adapter for direct thermal decoupled stacking of two C 150 models	O
Factory calibration certificate	O
Temperature measurement acc. to DIN 12880-2	O
Qualification folder	O
Manual for Primary Human Cell Culture, in English	O
Rack, stainless steel, for stacking petri dishes	O
Rack, epoxy-coated for stacking petri dishes	O
Tray, stainless steel for 1 x 6 petri dish	O

O Option - not available

Technical specifications subject to change