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PHCbi

MCO-50AIC-PE

IncuSafe

CO, Incubators

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Optimising cell culture outcomes and reproducibility

PHCbi CO_2 Incubators provide precise control of CO_2 concentration and accurate, uniform, and highly responsive temperature control within the chamber. During cell culturing, contamination is prevented by germicidal interior and optional UV lamp. During cell culturing the inCu-saFe germicidal interior and SafeCell UV lamp work continuously to prevent contamination.

Precise & Regulated Environment

InCu-saFe and SafeCell UV both function to prevent contamination. The Direct Heat and Air Jacket System regulates the temperature whilst the Dual IR sensor controls the CO_o level.

Time-Saving Decontamination

The high-speed decontamination system uses vaporised hydrogen peroxide and UV light. It cleans the chamber of the incubator safely in less than three hours, achieving a minimal 6 log reduction of major contaminants.

Precise Control & Intelligent Monitoring

An OLED alphanumeric keypad allows convenient but secure user control. It can display internal conditions, such as CO₂ level and temperature. Transfer of data is easy via a USB port.



Optimum Cell Growth

Outstanding quality and performance for successful cell growth, optimal results and reproducibility. Perfect fit for the strictest and most sensitive protocols.



Individual Cell Culturing

Compact and stackable these incubators are ideal for individual cell cultures from patient samples or small scale research projects.



Easy to Use

Adjustable audible and visual alarms are standard, along with integrated system diagnostics and predictive performance supervision. The password-protected control panel provides security and minimizes risk of accidental changes in setpoint.

IncuSafe CO, Incubators

Direct Heat and Air Jacket System

Achieves accurate, uniform, and highly responsive temperature control within the chamber, providing exceptional uniformity and rapid recovery after door-openings.

Dual IR CO, Sensor

The incubator's Dual IR sensor and P.I.D control enables ultra-fast CO₂ recovery without overshoot, even following multiple door-openings.

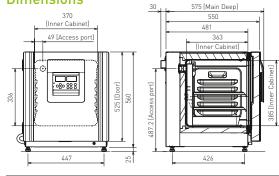
Active Background Decontamination

The exclusive inCu-saFe copper-enriched stainless steel alloy interior offers the germicidal properties of copper and the durability of stainless steel. The optional, isolated, SafeCell UV lamp decontaminates circulating air and water in the humidifying pan, without harming cultured cells.

Condensation Management

The 'dew stick'—controlled by Peltier technology condenses water on its surface, which then drips into the humidifying pan, preventing unwanted condensation in the chamber and possible contamination.

Dimensions





MCO-170PS-PW



EEA, Switzerland and Turkey only

Medical device

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The MCO-50AIC-PE is in conformity as a Class I Medical Device Applicable countries: Austria, Belgium, Cyprus, Denmark, Finland, France, Germany, Ireland, Italy, Liechtenstein, Luxembourg, Malta, the Netherlands, Spain, Switzerland and the United Kingdom only

Research device

Applicable countries: EEA countries, Switzerland and Turkey



External Dimensions W x D x H P	Model Number		MCO-50AIC-PE
Internal Dimensions W x D x H mm 370 x 363 x 385 Volume		mm	
Volume liters 50 Net Weight kg 46 Performance Temperature Control Range & Fluctuation** °C AT +5 -+50, ±0.1 Temperature Uniformity** °C ±0.25 CO₂ Control Range & Fluctuation % 0 to 20, ±0.15 Humidity Level & Fluctuation % Thermistor CO₂ Control *** *** Enterior Material *** Dual IR Display Digital (white graphic OLED) *** *** Display Display Starines Starl (Level on the park along the park al			
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Electric door lock with password MCO-170EL-PW CO ₂ /N ₂ gas pressure regulator MCO-010R-PW	<u>'</u>		
CO ₂ /N ₂ gas pressure regulator MCO-010R-PW			
	Electric door lock with password		MCO-170EL-PW
A	CO ₂ /N ₂ gas pressure regulator		MCO-010R-PW
Automatic LU ₂ cylinder changeover system MCU-50GC-PW	${\rm Automatic}\;{\rm CO_2}\;{\rm cylinder}\;{\rm changeover}\;{\rm system}$		MCO-50GC-PW
Tray MC0-50ST-PW	Tray		MCO-50ST-PW
Double stacking bracket MCO-170PS-PW	Double stacking bracket		MCO-170PS-PW
Stacking plate MCO-50SB-PW	Stacking plate		MCO-50SB-PW
Roller base MCO-50RB-PW			
Optional Communication Systems			

Appearance and specifications are subject to change without notice.

Analogue interface (4-20 mA)

- 1] External dimensions of main cabinet only, excluding handle and other external projections 2] When set temperature is 37° C, ambient temperature must be 32° C or less.
- Regardless of ambient temperature, the maximum of temperature control range is always 50°C
- 3) The measurement condition complies with PHCbi specified measuring method
- The optimum performance may not be obtained if the ambient temperature is not above 15°C. Ambient temperature: 23°C, setting: 37°C, C02: 5 %, no load MC0-50AlC-PE + UV requires MC0-170UVS-PE UV system set

- MCO-50AIC-PE + UV requires MCO-170UVS-PE UV system set
 MCO-50AIC-PE requires MCO-50HB-PE, MCO-170EL-PW, MCO-50HP-PW and SafeCell UV option for HzOz decontamination

MCO-420MA-PW



Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.