



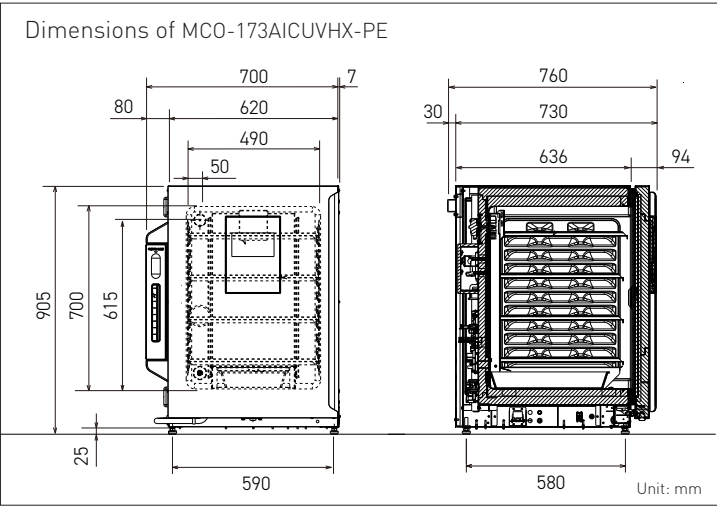
IncuSafe Series

Model Number	MCO-173AICUVHX-PE
Capacity	165 L.
Number of shelves	4, perforated
90ø Dishes per shelf	20
90ø Dishes per unit	80
Factory certifications	ISO9001, ISO13485, ISO14001
Product certifications	CE, Class IIa Medical Device USP i
Disposal information	WEEE directive

Temperature Range	-AT +5 ~ +50°C, ±0.1°C
Temperature Uniformity	±0.25°C
Temperature Sensor	Thermistor with P.I.D. control
Heating Method	Direct Heat & Air Jacket System USP i
CO ₂ Control Range and Fluctuation	0 ~ 20 %, ±0.15 %
CO ₂ Sensor	Dual IR and P.I.D. Control
Humidity Level and Fluctuation	95 %, ±5 %
Humidity Systems	Forced evaporation by heater + Natural evaporation with humidifying pan USP i
Active Humidification System	Consisting in humidified water heated from an external water tank (2L. volume) and evaporated at 140°C by the humidification unit and sprayed into the chamber. The chamber humidity is controlled at 80–90%, enabling faster humidity recovery. USP i
Natural Humidification system	Consisting in a water pan of 4.7 L. volume. With natural humidification, heating the water pan from the bottom heater of the chamber
Humidification Modes	High Humidity (>95% RH). No control over 91% RH. Active Humidification (80 to 90% RH). Humidity settings in 1% increments
Humidity Sensor	Digital Humidity Sensor from 0 to 100% RH.
Air circulation	Fan-assisted
Air Filter	0.3 µm, Efficiency: 99.97 % or higher
Sterilization Methods	H₂O₂ decontamination cycle USP i UV light USP i
Condensation Management	A '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.
Exterior Material	Painted Steel (rear cover not painted)
Insulation Material	Extruded polystyrene
Interior Material	Stainless Steel Copper-Enriched Alloy including the shelves USP i



Inner door	1 gas tight - made of tempered glass
Display	Large LCD Colour Touchscreen, controlled with gloves, with USB port
Access ports	1, location: Rear Upper Left, inner diameter: 30 mm.
Alarms	Power failure alarm, Out of Temperature Setting, High Temperature, Out of CO ₂ setting, Door Open
Remote Alarm Contact	Allowable contact capacity: DC 30 V, 2 A Analogue interface (4-20mA)
Power	230V, 50Hz, single phase
Installation Requirements	Indoor use, altitude up to 2000m, ambient temperature 5 to 40°C, maximum relative humidity of 80% up to 31°C, mains supply voltage fluctuations up to +/-10% of nominal voltage
External Dimensions (W x D x H)	700 x 730 x 905 mm
Footprint	0.51 m ²
Internal Dimensions (W x D x H)	490 x 523 x 665 mm
Net Weight	79 kg



CO ₂ Gas consumption				
Gas consumption Liters/Day	Door open for 30 sec		Door open for 60 sec	
Number of Door openings Times/Day	0x	3x	0x	3x
MCO-173AICUVHX-PE	24	46.21	24	47.33

Testing conditions
AT: 23 °C
SV: 37 °C
CO₂: 5%

Typical Performance Characteristics MCO-173AICUVHX-PE (230V, 50Hz)				
Temperature Pull Up Reference data	to 37 °C from Tamb: 23 °C 110 mins			
Temperature Recovery Time Reference data	Door Opening 60 secs. 25 min.			
CO ₂ Density Recovery Time Reference data	Door Opening 60 secs. 5 min.			
CO ₂ Cylinder Life Reference data	Door Opening 0 685 days	Door Opening 1 525 days	Door Opening 2 425 days	Door Opening 3 300 days
Humidity Recovery Time with Active Humidification System Reference data	Door Opening 30 secs – For 90% 12 min.			
Power Consumption	Max. 440 W			
Heat Emission	Max. 1440 kJ/h			
Noise Level	25 dB[A]			



PHC Europe B.V.
Eikdonk 1 | 4825 AZ Breda | Netherlands
T: +31 (0) 76 543 3833
www.phchd.com/eu/biomedical

CE 0123 Available in these countries as a Class IIa MDR Medical Device.
Austria, Belgium, Cyprus, France, Germany, Ireland, Italy,
Liechtenstein, Luxemburg, Malta, the Netherlands, Poland,
Spain, Switzerland and the United Kingdom.

CE Available as equipment for laboratory use in:
EEA countries, Switzerland, the United Kingdom and Turkey.