



CO₂ Incubator

OPTIKA[®]
I T A L Y

Compact CO₂ Incubator with High Precision

P170F

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P170F

P170F CO₂ incubator combines reliability, precision, and ease of use in a compact 170 L design. Featuring a SUS304 stainless steel chamber and an advanced air-jacket heating system, it ensures excellent temperature uniformity ($\pm 0.1^{\circ}\text{C}$) and stability ($\pm 0.25^{\circ}\text{C}$), with fast recovery after door openings.

Its PID-controlled CO₂ system provides accurate gas regulation (0–20%, $\pm 0.15\%$ at 5%), while forced air circulation and natural evaporation humidity create a stable environment for sensitive cell cultures.

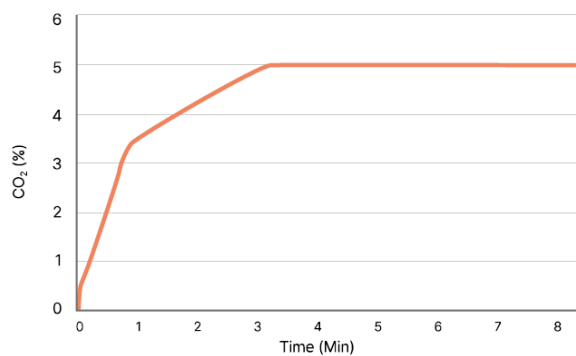
Equipped with UV sterilization, a tempered glass inner door, and a comprehensive safety alarm system, the P170F is a dependable solution for modern laboratories.

Technical Specifications

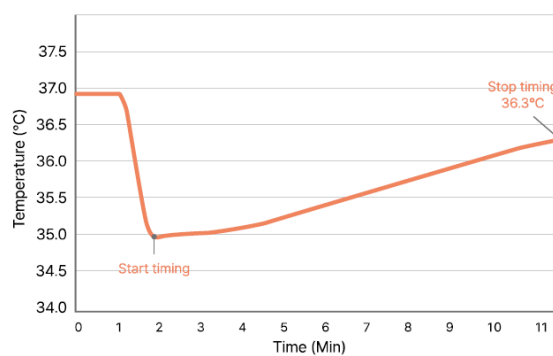


Category		
General	Model	P170F
Materials	Exterior	Painted steel sheets
	Interior	SUS304
	Inner Door	Tempered glass
Tray	Material / Size	SUS304 (4 pcs), 469×444×9 mm
Access Port	Rear Port	Ø30 mm × 1
Insulation	Method	Rigid polyurethane foam
Heating	System	Heating wire + air-jacket
	Power	330 W
Humidity	Method	Natural evaporation tray
Temperature Control	Range	Amb. +5 to 50 °C
	Stability	±0.25 °C
	Uniformity	±0.1 °C
	Recovery (door open)	< 10 min
CO ₂ Control	Range	0–20%
	Accuracy	±0.15% at 5% CO ₂
	Control Method	PID regulation
	Gas Tube	Ø8 mm hose compatible
Air Circulation	Type	Breeze stirring (fan-forced)
Alarm / Safety	Alarm Types	Temp/CO ₂ high-low, door open, sensor error, heater abnormality
Accessories	Included	4 trays, gas tube×1, clips×2, humidification tray×1, wear pads×2, stacking board×1, screws & gaskets

Controller	
Temp sensor	Dual IR sensor
Accuracy value	0.1
UV lamp	4W×1
Access Port	1
Access Port Position	Back
Access Port Diameter	30 mm
Casters	Adjustable feet



CO₂ Concentration Recovery Curve



Door Open (30s) Temperature Recovery Curve (AT: 22°C)

Technical Specifications (Electrical & Dimensions)

Electrical	
Power Supply(V)	220~240V
Frequency(Hz)	50
Rated input power	330W
Power consumption	1.4kW•h/24h

Dimensions	
External Dimensions (WxD x H)	620× 772 × 907 mm
Internal Dimensions (Wx D xH)	490 × 525× 666 mm
Volume	170L
Net weight	100kg

