MBIND Laboratory Incubator - Standard

Double layer door structure, High temperature uniformity

LED

Natural air circulation

Download Catalogue

RT+5°C to 80°C

Natural air circulation

With natural air circulation this unit provide high temperature uniformity in chamber and preventing cross contamination of samples

Intelligent PID controller

Microprocessor controlled temperature with timing function provide minimum temperature deviation

Timing Function with alarm

Integrating timer function with alarm from 1 minute to 99 days. The process time does not start until the set temperature is reached

Overheating alarm

Class 3.1 integrated independent temperature safety device (DIN 12880) with visual alarm the case of overheating visual and sound alarm indicate temperature abnormality

Double layer door structure

Inner tempered glass door with silicone packing, provide samples observation without door opening and lost of temperature inside of the cnamber

The COLO incubators are designed to be the ultimate device in your laboratory where you can, under precise temperature conditions, cultivate bacteria for microbial testing, incubating of cell cultures for in vitro fertilization...
Precision temperature sensor, programmable thermo controller, interior made of stainless steel and exterior made of high-quality materials, will give your work precision and comfort. Different types with above and below room temperature, CO2 incubators, incubators with shaking, with light.. it will help you to perform stability test in pharmacy, industry, medicine research ...
Controller software can be upgraded trough USB port (optional).
USB connection and software for acquisition of time and temperature data, operating duration up to 90 days. (optional)
Programme stored in case of power failure.
Stainless steel shelves as standard or PE-coated steel wire shelves as optional.
Natural air circulation or forced air circulation provide high temperature uniformity in chamber and protect your samples. High quality corrosion resistant material is ideal for easy cleaning and long-term exploitation. Recovery time after door was opened for 30 s at 37°C is 8 min, at 50 °C is 12min. Temperature resolution is 0,1 °C and temperature uniformity is 1 °C .

- MBIN7 – Portable Incubator, natural air circulation, LED display, full control with PID regulation, over temperature protection, light and sound alarm, 1 pc shelf,
- MBIN18 – Small volume incubator, natural air convection, LED display, full control with PID regulation, over temperature protection, light and sound alarm, built in glass observation window.
- MBINE – Forced air circulation, LCD display, additional temperature limit protection, fan speed four step regulation (0,1,2,3), built in glass observation window
- MBIND – Natural air circulation, LED display, temperature protection, Inner tempered glass observation window, over temperature protection,
- MBINF – Forced air circulation, LCD display, additional over temperature protection, alarm, inner glass observation window, fan speed four step regulation (0,1,2,3), UV sterilization light, LED light.
- DRYMB/DRYMBE – Dual function of Drying Oven and Incubator, forced air circulation, LED/LCD display, built in glass observation window, over temperature protection, additional over temperature limit protection (DRYMBE), fan speed four step regulation (0,1,2,3), (DRYMBE), alarm
- MBINC Laboratory cooling incubators 0-60°C
- MBINCO Air jacked CO2 incubator

ITEM	MBIND45	MBIND55	MBIND65	MBIND125	MBIND210
Working/Chamber Volume L	45	53	62	120	210
Air Circulation	Natural Air Circulation				
Temperature range	Rt+5 - 80°C				
Setting accuracy temperature	0,1°C				
Temperature variation at 37°C	± 0.6 °C				
Temperature variation at 50°C	± 1.0 °C				
Temperature fluctuation at 37°C	± 0.2 °C				
Temperature fluctuation at 50°C	± 0.3 °C				
Heat-up time	25 min to 37°C, 40 min to 50°C			30 min to 37°C, 40min to 50°C	
Display	LED with backlight, display of current and set temperature and time, temperature (Celsius or Fahrenheit), programe time, time zones, summertime/wintertime				
Temperature control mode	Two temperature section PID intelligent, sensor deviation correction, auto tuning				
Adjustable exhaust air flap with stainless steel cap	Inner Ø 28 mm on top	Inner Ø35 mm on top			
Timer	Adjustable from 0-9999 days with timing wait function	Adjustable from 1 minute to 99 days with timing wait function			
Housing	Cold rolling still with electro static spraying exterior				
Temperature sensor	Pt100 DIN class A in 4-wire-circuit				
Door with inner tempered glass observation window	Inner tempered glass observation window				
Operation function	Temperature settings, timing function, auto stop, internal parameter locking, temperature correction, auto tuning, and parameter memory in the case of electrical cut off, over temperature sound and light alarm, error status alarm.				
Standard shelf number	2				
System housing protection acc. EN 60529	IP20				
Permitted load	45kg				
Optional shelf number (max)	7	8	9	13	14
Load per rack (max)	16kg				
Voltage	220-230V/50-60Hz				
Wall clearance back	160mm				
Wall clearance sidewise	100mm				
Power	0,35kW	0,20kW	0,45kW	0,6kW	0,7kW
Energy consumption at 37°C	20 Wh/h	23 Wh/h	25 Wh/h	40 Wh/h	60 Wh/h
Inner chamber size W*D*H mm	350*350*350	370*350*420	400*350*440	500*450*550	600*580*600
Outer dimension W*D*H	525*480*620	520*540*710	614*577*625	675*580*820	775*710*870
NV/GV kg	27/30	30/33	32/35	45/49	58/63
Standard Temperature Certificate	At 40°C in the chamber centre Issued by COLO technical service				
Temperature certificate (optional)	One or multi point temp, mapping, issued by accredited laboratory				
Test hole	Yes				
Optional accessories	Shelf, RS485 interface, Printer, Program Temperature Control device, Remote control, WF control, Temperature Controller with ramp settings, USB data storage, Touch Screen Display				

Please note
If this Incubator does not match the specific needs of your application, or some options are not listed for sale, please feel free to contact us. Our manufacturing engineers will come up with technical solutions to meet your needs. We reserve the right to change technical specifications at any time.

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