



## MBINCHT Laboratory Cooling Incubator 0°C to 70°C

LCD



Smart air circulation

Download Catalogue



0°C to 70°C



### Forced air circulation



### Intelligent PID controller

Microprocessor controlled temperature provide minimum temperature deviation



### 3- zone PID algorithm



### Double over heating protection

Additional double heating protection, prevent samples overheating and loss it



### Double tempered glass door

Tempered glass door 5 mm thick

The COLO MBINCHT 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 and exterior made of high-quality materials, will give your work precision and comfort. Forced air circulation microprocessor controlled, provide high temperature uniformity in chamber and protect your samples. High quality corrosion resistant material is ideal for easy cleaning and long-term exploitation. Forced ventilation for all type MBINCHT cooling incubator provides temperature uniformity and indicator display setting and actual temperature in chamber.

- Forced air circulation for excellent thermal accuracy and uniformity
- Aero-dynamic chamber designed with circulation blower to achieve superior thermal uniformity
- Separate heating compartment located on back wall for contamination free and maintenance free
- Air cooled refrigeration system with hermetically sealed compressor
- Metal housing protected with an epoxy anti-corrosion finish
- Corrosion resistant Stainless Steel 304 chamber with seamless round cornered edge allows easy cleaning and prevent leakage
- Tempered safety inner glass door, 5 mm thick, for easy observation of samples
- Temperature range is divided into three zones (low/middle/high)
- Each zone has its individual PID algorithm to provides precise and superior temperature control characteristic of whole temperature range
- Three-point temperature calibration that provides better accuracy over the entire temperature range
- Integrated digital microprocessor PID temperature control system
- Back light graphic LCD display provides user-friendly operating information
- Capacitive LED lighting touch button provides sensitive touching operation and durability
- Temperature and timer memory function
- Programming up to 10 steps of operation at different temperatures and times with the possibility of repeating up to 999 times
- Audio and visual alarm for PT sensor
- Audio and visual alarm for high temperature +5°C above the set value and for low temperature -5°C below the set value
- Circuit breaker for protection against excessive current
- Dual protection against overheating via a heater cut-out using a controller and an independent analog thermostat
- Logging temperature with a data logger in the temperature range of +0°C to +70°C, with a minimum interval of 10 seconds. Memory capacity of 32,000 temperature records with a resolution of 0.1 °C. Integrated NTC thermistor temperature control sensor with a minimum accuracy of ±0.5 °C (in the range of -20 to +40 °C).Data transfer to PC via USB connection. Creation of temperature reports in PDF format (optional)

Incubator Type	MBINCHT100	MBINCHT150	MBINCHT200	MBINCHT250
Volume Litre	100	150	200	250
Air Circulation	Forced Air Circulation (Convection) with hermetically sealed air cooled compressor			
Temperature range	0 - 70°C			
Temperature accuracy at 20°C	±0.2°C			
Temperature uniformity at 20°C	±0.5°C			
Temperature motion	High Temp. : ±0.5°C			
Temperature display resolution	0.1°C			
Display type	Graphic LCD display with back light			
Temperature control mode	Three temperature zone PID algorithm, three point calibration			
Auto start timer with alarm	1 min ~ 99 hour 59 min			
Auto stop timer with alarm	1 min ~ 99 hour 59 min			
Audio and visual alarm for open door	Yes			
Test hole	Ø52mm		Ø43mm	
Housing	Metal housing protected with an epoxy anti-corrosion finish			
Temperature sensor	Class A PT-100 Ω			
Inner glass observation window	Yes			
Self-diagnostic function	Yes			
Operation function	Temperature settings, timing function, auto stop, internal parameter locking, temperature correction, auto tuning, parameter memory in the case of electrical cut off, over temperature sound and light alarm			
Standard shelf number	2 by 25mm spacing			
Optional shelf number (max)	9		12	
Load per shelf (max)	15kg			
Voltage	220V±10%/50-60Hz			
Power	1300W	1600W	1650W	1700W
Inner chamber size W*D*H mm	450*450*500	500*500*600	600*450*750	660*450*850
External size	630*690*920	680*825*1370	742*743*1340	802*743*1440
GV kg	105	120	130	145
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			
Optional accessories	Shelf, RS485 interface, Printer, Data logger, Program Temperature Control device, Remote control, Wi-Fi Smart phone control, Temperature Controller with ramp settings, USB data storage, Touch Screen Display, Calibration certificate, Service Certificates,			

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.

## COLO LabExperts

Laboratory Equipment production and Distribution

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