

## CB 53 series

### BINDER's CB family has grown again!

The new CB CO<sub>2</sub> incubator has just been released to round off BINDER's proven CB series for the most demanding level of cell cultivation; it is particularly suited for use in IVF laboratories. The new CB 53 presents a unique package of BINDER's CB CO<sub>2</sub> incubators in a very small footprint – absolutely contamination-free thanks to hot air sterilization at 180 °C, reliably stable pH, condensation-free interior. BINDER CO<sub>2</sub> incubators can simulate these ideal conditions for culture growth also in an especially 53 litre compact design.



#### The most important key features:

- ▶ Contamination-free as a result of conform to standard over night hot air sterilization at 180°
- ▶ Condensation-free, even at high humidity levels
- ▶ Easy-to-clean interior thanks to the seamless, deep-drawn interior chamber and the absence of fans or HEPA filters
- ▶ Stable pH values thanks to short recovery times with the drift-free FPI infrared measurement system
- ▶ Standard innovative equipment with IR sensor, gas mixing head with Venturi effect or high quality program controller

**BINDER CO<sub>2</sub> incubators utilize the interaction of these multiple factors to provide optimum conditions for cell growth.**



### ► Options:

- O<sub>2</sub> control,
- Ethernet interface,
- Connection kit for CO<sub>2</sub> / O<sub>2</sub> / N<sub>2</sub>
- Temperature and CO<sub>2</sub> calibration certificate

### ► Standard equipment:

- Electronically controlled APT.line™ preheating chamber technology
- Temperature range of 5 °C above ambient temperature up to 50 °C
- MCS controller for temperature and CO<sub>2</sub> concentration
  - User-friendly LCD screen
  - Easy-to-read menu guide
  - Integrated electronic chart recorder
  - Variety of options for the graphic display of process parameters
  - Real-time clock
- Standard-compliant hot-air sterilization at 180 °C (356 °F) (DIN 58947)
- VENTAIR jacket system™
- Drift free infrared CO<sub>2</sub> measurement system
- Gas mixing head
- Weldless deep-drawn inner chamber made of stainless steel with integrated shelf support system.
- Permadyr™ system, condensation-free double-pan humidification system
- Electronic self-diagnostic system for errors with optical and acoustic alarm, as well as relay contact for central monitoring
- Independent adjustable temperature safety device, Class 3.1 (DIN 12880) with visual and acoustic temperature alarm
- Tightly closing inner glass door
- RS 422 interface for communication software APT-COM™ DataControlSystem
- 3 perforated shelves made of stainless steel
- BINDER test certificate

### Technical data:

Exterior dimensions, excl. 52mm I-panel (HxWxD mm)	720 x 580 x 545
Interior dimensions (HxWxD mm)	400 x 400 x 330
Interior volume in L	53
Perforated shelves, stainless steel (number standard/max.)	2 / 3
Weight empty (kg)	60
Temperature range	5° C above ambient up to 50° C
Nominal voltage 50/60 Hz ± 10 % (V)	230
Nominal voltage 60 Hz ± 10 % (V)	115
Nominal power (W)	1000



- Weldless deep-drawn inner chamber



- Gas mixing head for homogenous gas distribution without the use of fans in the interior



- Lockable door prevents unauthorized access and interferences with process in the chamber