



Precision is nothing else but the perfect combination of optimal growth parameters.

With the new CO₂-Incubators, Binder has developed a system, which combines precision with maximum dynamics to reproduce growth processes at any time and to keep the balance of all growth parameters constant under any circumstances due to minimum reaction times.

Indisputably the standard for the best temperature accuracies and recovery times.

The ATP.Line preheating chamber technology[®] as an enforced air jacket system without fans in the inner chamber.

Performance and safety in finest harmony.

The patented Permadyry[®] system as a controllable humidification system for maximum long-term stability and maximum humidity values.

There is nothing better!

No other technology is able to measure and control the CO₂ concentration as precisely and fast as the infrared sensor measuring technology from Binder.



The advantages:

1. The cabinet can be brought into service immediately without costly auto zero functions.
2. Absolute long-term stability.
3. Measurable dynamics: Because we can substantiate the speed of the infrared sensor technology with guaranteed identical values on the display. As has been proven, a thermal conduction system for example, cannot do this due to its dependency on humidity.

The best conditions for growth and safety everywhere in the cabinet.

The new CO₂ gas mixing head guarantees completely homogenous CO₂ distribution without any fan support to safely stop any germ turbulence.

Exclusive safety.

Intelligent fail safe as electronic safety system for safe monitoring and observance of the CO₂ concentration.

We are making sterility into a system.

With the only Three-Phase Decontamination Concept in the world.

1. Sterile incubation conditions:

A specially developed inner chamber without fans ardently prevents the spreading and building up of germs and is extremely easy to clean.

2. Germ-free growth processes:

The fan-free interior chamber and hermetically air-tight construction makes uncontrolled penetration and spreading of germs impossible. The patented Permadyry system guarantees absolutely dry interior walls at maximum humidity.

3. Correct sterilisation at 180°C

The hot air sterilisation at 180°C has been proved to be the safest and therefore internationally laid down, standard-compliant sterilisation method for complete sterility.

Clever electronics support precise mechanics.

Control technology has been one of Binder's core competence for more than 20 years. That is we permanently push ahead progress in this area, too. With the new screen controls, Binder once again serves as a model with regard to precision, dynamics and functionality.

Equipped as standard with a multitude of operating functions, additional recorder and warning functions, they offer extremely easy handling and meet the highest standards of safety and documentation.

They all have an interface. But only we have the APT-COM DataControl System.

The currently most efficient software, which offers a comprehensive function package for three important ranges: unlimited, standard-compliant documentation, network integration and remote monitoring with conductance system.

Validation is the best proof that the CO₂-Incubators from the APT.LINE really keep to what they promise.

We accompany our customers through all phases of validation! Design Qualification • Installation Qualification • Operation Qualification • Performance Qualification



Sterile incubation conditions



Germ-free culture processes



Standard hot-air sterilisation at 180°C

Technical Data CB150/210 CO₂

APT.Line CB

Standard equipment:

- APT.Line Preheating Chamber Technology
- 4-channel-microprocessor controller for temperature and CO₂-concentration
- Digital, drift-free CO₂-infrared measurement system with 2-beam difference measurement
- Fan-assisted air-jacket system
- Hot air auto-sterilization at 187,5 °C
- Gas mixing head-no fans in the inner chamber
- Permadyry-System, condensation free double-basin humidification system
- Weldless deep-drawn, polished inner chamber made of stainless steel 1.4301/V2A Round edges, no fix installations-very easy to clean
- Electronic malfunction autodiagnosis system with visual and acoustic alarm and potential-free change-over contact for central monitoring
- Safety device(TWW) class 3.1 acc. to DIN 12880
- Tightly closing inner glass door
- 3 perforated shelves, stainless steel 1.4301/V2A
- Controlled door heating

Event List

Enables to get an overview over the last 16 events or error conditions of the unit.

Chart recorder function

Offers the possibility to review the last 43200 measurements of all parameters on a history screen.

Humidity control

A setting-possibility in CB-Menu allows to increase or decrease the humidity slightly.

RS 422 and Remove alarm

Exterior dimensions		CB 150	CB 210
Width	mm	680	740
Height (incl. Feet)	mm	928	1078
Depth (plus 70 mm for instrument panel)	mm	715	715
Wall clearance	mm	50	50
Interior dimensions			
Width	mm	500	560
Height	mm	600	750
Depth	mm	500	500
Interior volume	l	150	210
Weight (empty)	kg	118	128
Perforated shelves, stainless steel	number standard/max.	3/8	3/11
Dimensions of perforated shelves			
Width	mm	473	536
Depth	mm		448
Temperature range, 5°C ambient up to	°C		60
Temperature fluctuation	≤ ± °C		0,1
Setting accuracy	% CO ₂		0,1
CO ₂ -range	% CO ₂		0-20
CO ₂ -measurement	% CO ₂		Double beam IR
Humidity (constant)	% RH		98
Nominal Voltage ±10% 50/60Hz	✓		115
Connection hose nozzle for CO ₂	mm		8
Options: 1.Locking of the keyboard/Door 2.Multiply divided glass door 3.Inner chamber made of Copper 4.Interior socket 5.Low tension access port 6.Built in-bottle changer 7.O ₂ control 0.2 ~ 95% (Sterilization of the O ₂ sensor)			

 **BINDER**
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