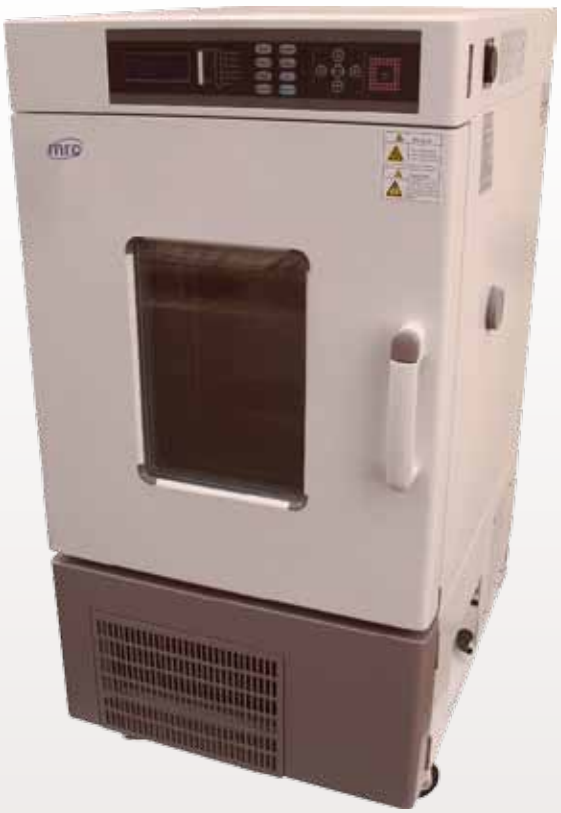
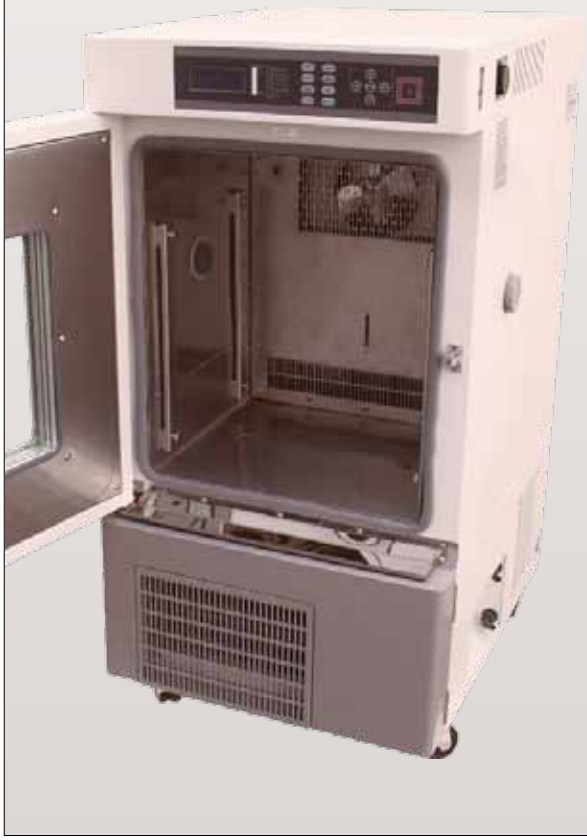
CCG-100/150/250, Constant Temperature & Humidity Chamber



CCG-100, **100 Liter**



Airduct structure
It applies circular airflow design concept & forced convection simulated air circulation principle. The large power air circulating blades designed specially can produce higher air flow rate and guarantee high even and stable inner bag temperature and humidity.

Electronic humid. sensor
It is used for absolute precise humidity measurement. The humidifying and dehumidifying system is control led electronically.
ROTRONIC electronic humid. sensor can guarantee the reliability of humidity inspection even if the samples are changed frequently. The senor does not require maintenance.

Innovative refrigerating system
International famous brand refrigerant compressor and Germany EBM condenser applying 134a refrigerant and featuring fluorine free, environmental protection, precision and high efficiency are applied.

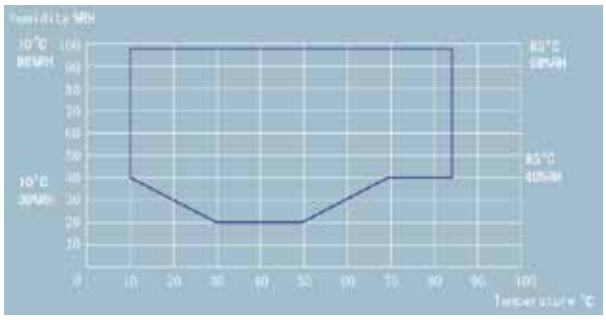
Test hole
One test hole with the diameter of 45mm made with special mould is arranged on the left and right of the incubator respectively for observation. Internal silica gel soft plugs are provided to make sure the temperature and humidity inside the incubator are not affected during the test.

Easy for maintenance
It is easy to maintain and clean condenser to improve the refrigerating performance and save energy.

RS232 interface
It is a special interface for PC. One software CD WINDOWS2000 or simplified Chinese WINDOWS XP operating system) is attached. Test program is written, monitored & saved with special PC software. Test data is directly displayed and printed with special PC software.

Ponded water inside inner bag can be discharged easily
The inner bag applies side, high, middle and low structures to discharge water easily and keep the incubator clean.

Temperature and humidity



Features:

- The incubator is made with imported NC machine tool and laser processing technology. The outside incubator body applies high quality cold rolling plate, which is strongly resistant to rusting. The inner bag applies SUS304 stainless plate
- The incubator bottom truckle is imported from Japan. Its direction is adjustable and it can be locked. The outside incubator body is sprayed with American Dupont powder.
- One test hole with the diameter of 45mm made with special mould is arranged on the left and right of the incubator respectively for observation. Two silica gel soft plugs are provided inside. Temperature and humidity
- The heat insulating material of incubator applies Germany Bayer freon-free polyurethane one-time foaming technology to improve the insulating property and reduce energy consumption. It can save over 30% energy in comparison with similar products. The overall strength of incubator is good.
- Rational air duct structure; balance type control method; imported special electric motor and blade are applied to make temperature and humidity distribution even and greatly improve test precision and evenness of temperature and humidity.
- International famous brand refrigerant compressor and Germany EBM condenser applying 134a refrigerant and featuring fluorine free, environmental protection are applied and conform to the world trends.
- Programmed temperature and humidity control; micro-computer fuzzy control PID control; temperature priority and time priority; optional for the user. Intelligent programmed mode is applied. The control part applies high brightness super large LCD and fuzzy PID control method to be more humanized.
- Temperature sensor PT1 00 applies Honeywell product. The humidity sensor applies Swiss Rotronic capacitive sensor.
- Over-temperature protection, creepage protection, door open alarm, current failure;.e alarm and sensor alarm functions are provided to improve the safety. Meanwhile, automatic start, stop, timed operation, clock display and self recover after power fails are provided.
- Automatic defrosting and manual defrosting functions are provided for long term test to solve the problem of temperature and humidity drifting.

Model	CCG-100	CCG-150	CCG-250
Convection method	Compulsory convection method		
Control method	Balance type		
Temperature range	-10°C ~ +85°C		
Humidity control scope	20 ~ 98%		
Temperature resolution	0.1°C		
Temperature fluctuation	±0.1°C		
Temperature evenness	±0.5°C (65°C)		
Humidity fluctuation	Within ± 1.5% (65°C)		
Working room temperature	5 ~ 35°C		
Insulating material	Overall foaming of polyurethane		
Programmed control	Fuzzy logistic PID control method common operating mode/programmed operating mode		
Overall dimension(mm)	W590 x D733 x H1140	W665 x D733 x H1300	W765 x D773 x H1490
Inner dimension (mm)	W465 x D400 x H540	W540 x D400 x H700	W640 x D440 x H890
Weight	About 93KG	About 114.5KG	About 137KG
Effective volume	100L	151L	250L
Total power of heating and humidifying	1000W	1450W	2000W
Refrigerating power- refrigerant	175W,R134a	245W,R134a	270W,R134a
Water supply volume	Inside: 10 L Outside: 25 L		
Power voltage	AC-220V 50/60Hz		
Tray (standard configuration)	Two layers	Three layers	Three layers

- Performance parameter test under empty load: Ambient temperature of 20°C, ambient humidity of 50%RH.
- Temperature and humidity fluctuation exceeding the scope noted in the table is normal under defrosting condition.
- The change of product appearance and parameter will not be notified additionally. Product appearance may deviate due to shooting and printing reasons.