

CytoGrow ReachIn Series

Large Capacity CO₂ Incubators



Space Saving Design

Large capacity and flexibility to grow with your culturing needs, while providing a precise and repeatable interior environment.

Consistent Environment

Dual Detector IR2 Sensor for quick CO₂ recovery.

Optimum Anti-Contamination Measures

- Copper enriched stainless steel inCu-saFe® technology for germicidal protection.
- Optional UV decontamination system for humidity reservoir.
- Extra heaters positioned around the outer glass door to eliminate condensation.

InCu-saFe®



SafeCell UV



Active Background Control

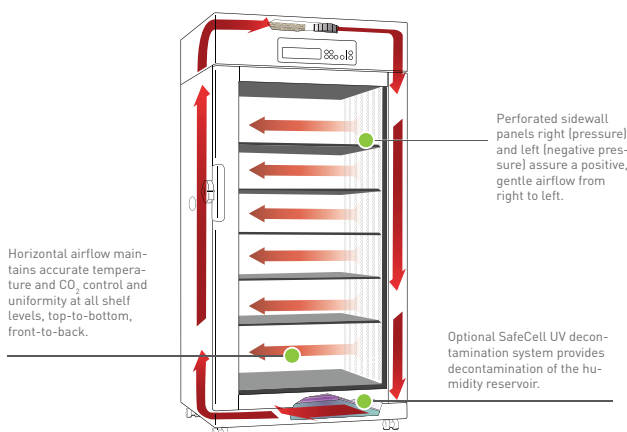


30.1 cu.ft.



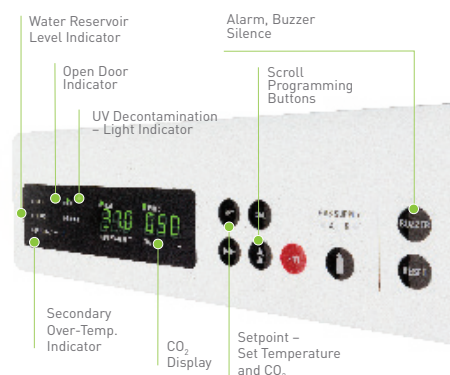
Horizontal Laminar Airflow System

The cross-shelf directed air flow system promotes optimum temperature uniformity throughout the chamber and contributes to quick temperature recovery after door openings.



Control & Monitoring

The incubator functions are managed by a fully integrated microprocessor controller with a range of setpoint, alarm, and programmable inputs that are established through the use of function key.





CytoGrow ReachIn Series: Large Capacity CO₂ Incubators

The MCO-80IC-PA is ideal for culturing large volumes of biological samples, performing microbiological studies, and working with large volume cell culture apparatus.

InCu-saFe® Interior

InCu-saFe® forms an integral germicidal barrier against airborne contaminants and helps eliminate mold, spores, and other contaminating spills, while providing a noncorrosive environment.

CO₂ Recovery

IR2 CO₂ sensor with P.I.D. microprocessor control and forced air circulation system delivers fast CO₂ recovery characteristics. Exceptionally low CO₂ gas consumption rates, less than half of similar competitive units. P.I.D. temperature control with deviation of $\pm 0.1^{\circ}\text{C}$.

Patented SafeCell UV Protection (optional)

Located safely below the interior base, SafeCell UV destroys airborne contaminants as they pass over the humidity reservoir surface. Pathogens introduced during door openings are ultimately removed.

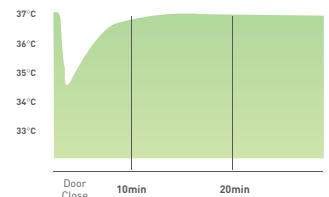
Humidity Control

Humidity reservoir heaters are located outside the walls of the reservoir. They are not as susceptible to corrosion and scaling from water as competitive systems are. The unit can be set to both nominal (above 80% RH) and high humidity setpoints (above 90% RH).

Usability

30.1 cu.ft. large capacity cabinet allows flexibility in usage. Cabinet will also accommodate a roller bottle apparatus, 5 bottles wide x 7 bottles high (requires mounting ramp kit).

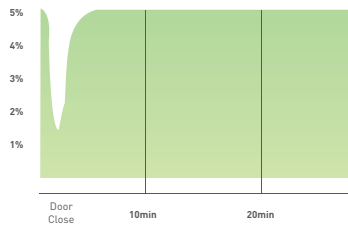
Temperature Recovery



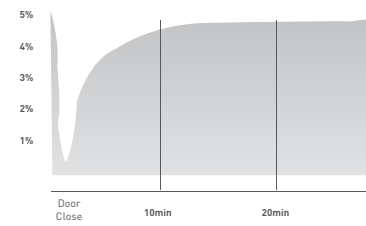
CO₂ Recovery

IR CO₂ sensors offer exceptional control and faster CO₂ recovery, giving the CytoGROW ReachIn incubator a substantial competitive edge as seen in the adjacent diagrams.

CO₂ Recovery after 60 second door opening for the Panasonic MCO-80IC-PA



CO₂ Recovery after 60 second door opening for Competitor



| MODEL | MCO-80IC-PA |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| CONTAMINATION CONTROL | InCu-saFe® - Copper alloy Stainless Steel SafeCell UV (Optional) |
| IR ₂ SENSORS - CO ₂ RECOVERY | Standard |
| INTERIOR DIMENSIONS | 31.7" x 27.3" x 60.0" / 806 x 693 x 1524 mm |
| EXTERIOR DIMENSIONS | 33.8" x 33.6" x 80.3" / 986 x 853 x 2040 mm |
| VOLUME | 30.1 cu.ft. / 851 L |
| SHELVES | Copper alloy Stainless Steel (5 standard) 30.5" x 25.9" x 0.4" / 776 x 659 x 10 mm Load Capacity: 66 lbs. / 30 kg |
| TEMPERATURE CONTROL RANGE | +5°C above ambient to 50°C (in a 20°C to 35°C ambient) |
| NET WEIGHT | 605 lbs. / 275 kg. |
| TEMPERATURE CONTROL UNIFORMITY DEVIATION | $\pm 0.5^{\circ}\text{C}$ (in 25°C ambient, setting 37°C, 5% CO ₂ , no load 9 point measurement) |
| CO ₂ CONTROL RANGE AND DEVIATION | 0 to 20% $\pm 0.15\%$, no load |
| INTERIOR HUMIDITY | Over 80% RH (High humidity mode: over 90% RH) |
| TEMPERATURE AND CO ₂ CONTROL | Microprocessor P.I.D. with thermistor sensor, temperature fluctuation of $\pm 0.1^{\circ}\text{C}$ |
| OUTER DOOR | Double Paned Glass Door with out door latch |
| ACCESS PORT | 40 mm (1.57"), 2 locations (right and left sides) with silicone rubber stopper |