



ABOUT THE COMPANY



SHAKING INCUBATORS



SHAKERS



INCUBATORS



DRYING OVENS

LABWIT Scientific has been a specialized supplier of environmental controlled laboratory equipments since 1998. With strong manufacturing background, we are able to provide innovative solutions to your laboratory requirements. We are driven by innovations and our extensive product ranges are at the cutting-edge internationally for both industrial and scientific applications where temperature and atmosphere control are paramount.



LABWIT Scientific Pty Ltd.
 1 Aldinga St, Blackburn South, VIC, 3130, Australia
 Www.labwit.com.au
 Tel/Fax: +61-3-8838 2793 ABN: 99 155 819 980
 Info@labwit.com.au

LABWIT can accept no responsibility for possible errors in catalogues, brochures and other printed materials. LABWIT reserves the right to alter its products and specifications without notice. All trademarks and logotypes in this material are the property of LABWIT and the respective companies.



Optimum Solutions for Better Results!

CO₂ INCUBATOR

ZOCR SERIES- DIRECT HEATING



YOUR SEARCH FOR QUALITY EQUIPMENTS ENDS HERE!



INTRODUCTION:

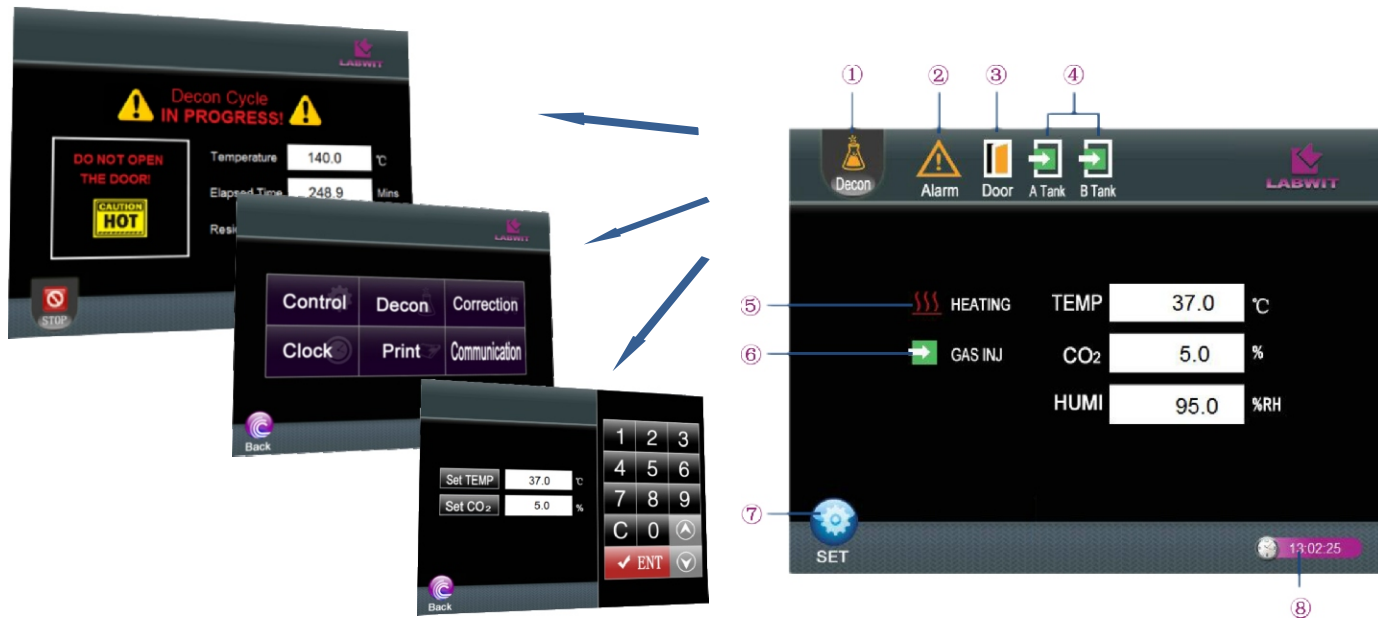
LABWIT ZOCR Series CO₂ Incubators have been carefully engineered and proven to provide clean, reliable and easy-to-use environment control to protect your samples and optimize cell growth.

In recent times, CO₂ incubators have become more commonplace in the laboratory for their ability to replicate the growth of mammalian cells and tissues for in vitro fertilization, animal research and the many clinical outcomes and fields of medical research. By controlling three essential variables of constant CO₂ level (%), temperature (°C), and relative humidity (RH%), CO₂ incubator can create a balanced and stable environment for cell to grow and thrive. As a result, a controlled pH level (7.1-7.4), controlled CO₂ level (5%), constant temperature (37°C), and high relative humidity (>95%) are well maintained from there.



LABWIT Smart Touch Screen Panel----

Start your complete access and full control from your fingertips



Integrated

Comprehensive information available at your fingertips

User-friendly

Graphic user interface, easy to operate with icons and prompts

Intelligent

Self diagnostic alarm system monitors all functions and parameters and prompts the user in case of errors

- | | | |
|---|--|--|
| <p>1. DECON
Start/ stop Decon Cycle</p> <p>2. ALARM INDICATOR
Blinks when alarm occurs. Alarms (except for sensor failures) can be muted by pressing this icon, and may ring back in 5 minutes if alarm conditions still persist.</p> | <p>3. DOOR AJAR
Lights when door is opened.</p> <p>4. CO₂ TANK INDICATOR
Lights when indicated CO₂ tank supply is in use
A Tank: Primary
B Tank: Secondary</p> <p>5. HEATING INDICATOR
Lights when heating elements are working</p> | <p>6. GAS INJECT INDICATOR
Lights when CO₂ gas is injected.</p> <p>7. ENTER SET MENU</p> <p>8. CLOCK DISPLAY</p> |
|---|--|--|

LABWIT Precise Parameter Controlling System

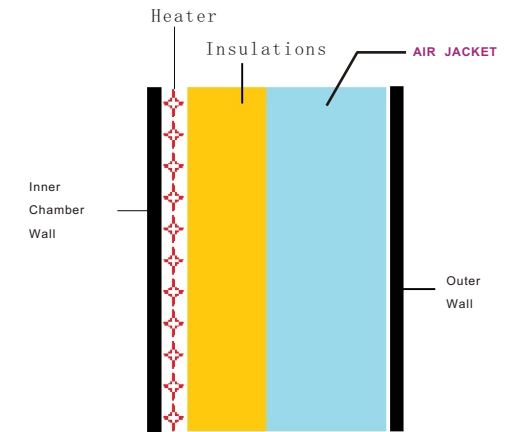
All-round cares about your cell growth

Direct Heating and Air Jacket System

The chamber design combines direct heating and air jacket elements resulting in efficient thermal isolation of the chamber, rapid temperature recovery and superior protection of samples from ambient temperature fluctuations.

Multiple direct heating elements are mounted on each side of the chamber and are controlled independently by the microprocessor to provide outstanding temperature uniformity. One element in the external door and a second within the main unit and adjacent to the perimeter of the glass door, are controlled proportionally to eliminate any of condensation on the glass door.

The unique Air Jacket system creates isolations between insulation and ambient, thereby minimizing the impact of ambient temperature fluctuations on the working chamber, and maintaining more stable temperature control.

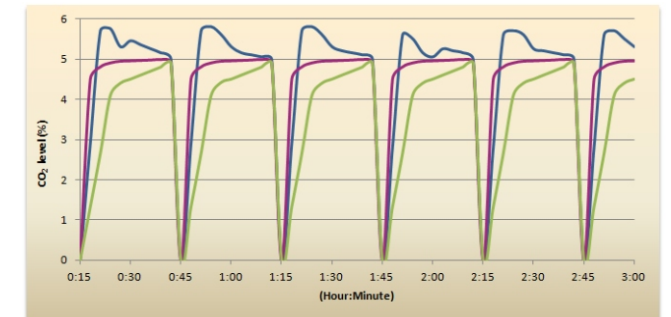


World Class Infrared (IR) CO₂ Sensor

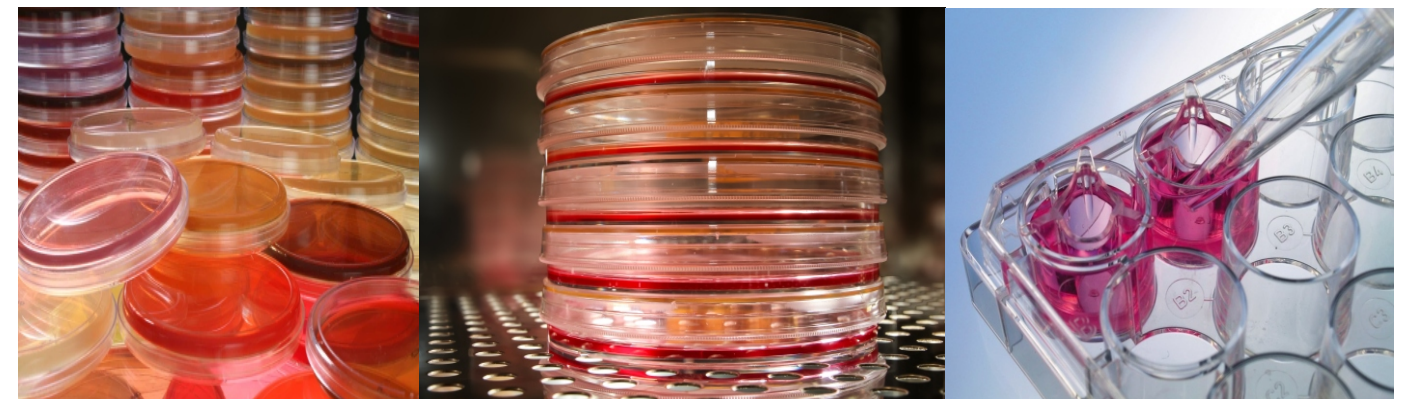
LABWIT incorporates a single beam, dual wavelength IR CO₂ sensor, providing the most accurate measurement of CO₂ concentrations available to the market. The superior performance and accuracy of the IR sensor are the most noticeable when applied to situations where temperature and humidity fluctuate rapidly, such as when the door is opened frequently.

IR sensor is located out of the chamber; meaning removal is not required when performing the high temperature decontamination cycle.

IR sensor is drift-free, auto-zero automatically adjusts baseline for optimum accuracy, no need to calibrate by the users.



■ Company A's Model: Slow recovery (Typical TC Sensor)
■ Company B's Model: Overshoot
■ LABWIT ZOCR Model: Fast recovery, non-overshoot (IR Sensor)



Superior Contamination Controlling Features

Maximizing the safety for where your cells will be thriving

The LABWIT ZOCR CO₂ incubator incorporates the latest proven design paradigms and technologies to prevent and minimize the contamination and keep your samples safer than ever.



IN-LINE HEPA FILTER

Protects cultures by removing potential contamination sources before CO₂ gas is injected into the chamber. In-line filter should be checked and replaced regularly.

INNER CHAMBER HEPA FILTER

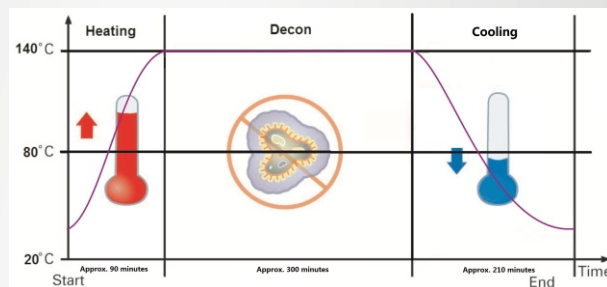
If door openings expose your culture samples to airborne particulates from your room, the inner chamber HEPA filter will dramatically improve air quality (up to 99.97% efficiency in capturing 0.3 micron particles), while maintaining the atmosphere of the still air culture environment avoiding high-speed airflow.

SEAMLESS CHAMBER & COVED CORNERS

The entire inner chamber is made of high grade electro polished easy-to-clean stainless steel. All coved corners minimizes the unnecessary chamber surfaces where contaminants can hide.

140°C DECONTAMINATION CYCLE

The ZOCR Series uses a time-tested, effective and maintenance free method of decontamination. The high temperature decontamination cycle uses 140°C dry heating cycle to ensure the contaminating agents are eradicated. Your incubator can be fully sterilized and ready for a new application after an 10-hour overnight, maintenance free Decon Cycle.



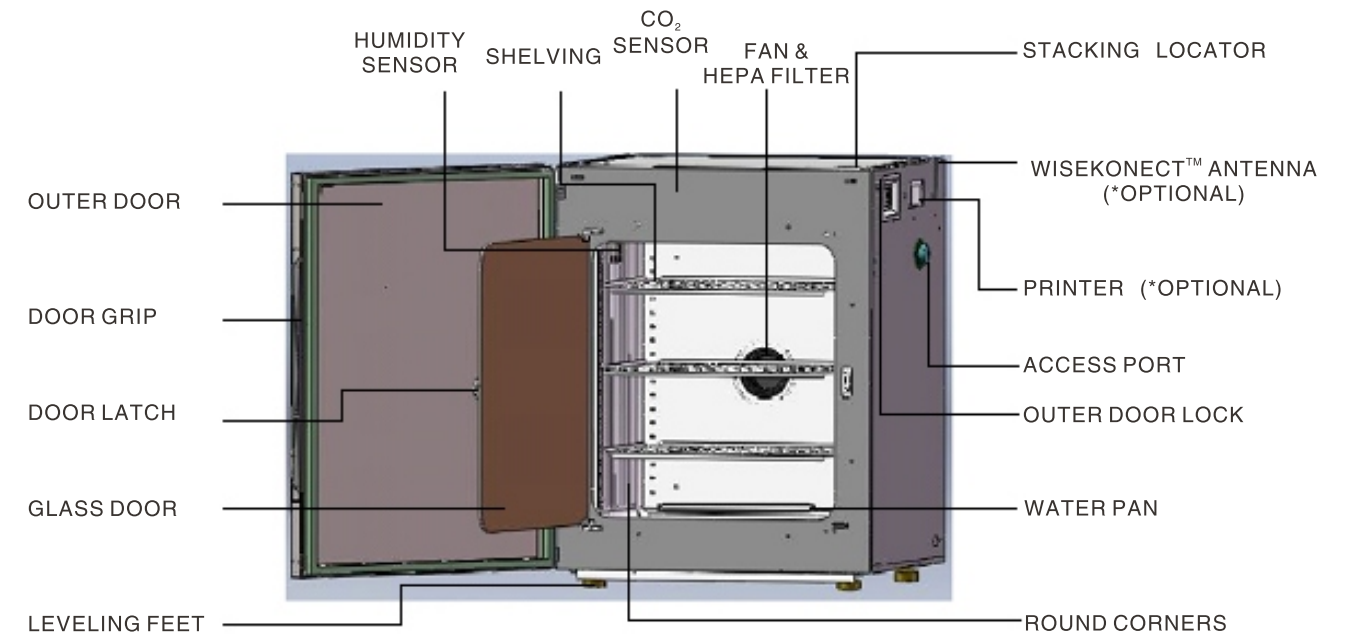
SAFETY FEATURES

This incubator has been designed to include many features for the complete protection of your applications and your sample safety, so providing you with added peace of mind.

1. Non-volatile memory guarantees data integrity in the event of power interruption.
2. Over-temperature protections unit: alarms when temperature deviation is detected, and heaters are cut off when the temperature is overshoot by 3°C.
3. CO₂ deviation alarm protects the pH value of the culture media.
4. CO₂ supply is interrupted upon door opening to avoid unnecessary gas waste.
5. Audio and visual alarm reminds of low supply of CO₂ gas.
6. Alarms provide optimum protections over all sensor failures
7. Over-current and leakage protection.
8. Password protection ensures the integrity of all programmable system settings.
9. Lockable outdoor protects biohazard samples from unauthorized access.
10. CO₂ tank backup system(Optional) : integrated gas tank switcher allows the connection of two CO₂ gas supplies. When low gas supply in the primary tank is detected, the controller switches automatically to the secondary supply.

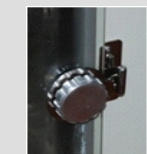


FEATURES



OUTER DOOR

- *Right or Left Hinge Reversible
- *Heated for preventing condensations



DOOR LATCH

- *Right or Left Hinge Reversible
- *Easy to operate, lock/unlock the glass door

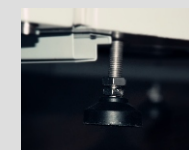


DOOR GRIP

Sleek, ergonomic design

GLASS DOOR

Tempered glass, door allows observations without interference to the inner chamber environment.



LEVELING FEET

Easy to adjust, especially when stacking up to two units



STACKING LOCATOR

Corners pressed for easy locating during stacking



HUMIDITY SENSOR

- * Ensures continuous monitoring over the humidity level, resolution of display: 1% Passive humidity read-out.
- * Easy to dismantle for high temperature Decon Cycle



WISEKONNECT™ ANTENNA

WiseKonecT™ --2.4GHz remote high speed communication antenna. (Optional)



SHELVING

- * SUS304 electro-polished stainless steel
- * Anti-tip, easy to dismantle without tools
- * Perforated, for improving uniformity



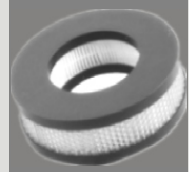
CO₂ SENSOR

- * IR sensor, single-beam, dual wavelength measurement, no drifting
- * Auto-zeroing, with flow-through aspiration
- * Out of the working chamber, no removal



FAN

Gently drives airflows across the chamber for better uniformity and recovery.



HEPA FILTER

- * 99.97% efficient to prevent particulate larger than 0.3µm
- * Heat resistant, compatible for Decon cycle
- * Chamber returns to ISO Class 5 cleanliness within 12 minutes of closing door



PRINTER

Print temperature, humidity and CO₂ level on a preset interval for continuous monitoring. (Optional)



ACCESS PORT

- * Makes validation easy and provide the user convenience for connecting instrumentation.
- * A rubber stopper is included as standard.



OUTER DOOR LOCK

Lockable outer door protects your samples against unauthorized access, especially when biologically hazardous material is involved.



WATER PAN

Autoclavable stainless steel water pan heated by controlled base heater to manage humidity and assist humidity recovery.



ROUND CORNERS

Round coved corners of the completely seamless inner chamber reduce unnecessary internal surfaces and minimize possible contaminations.

WiseKonecTM



A wireless data logging, alarming, monitoring system



LABWIT WiseKonecTM uses 2.4GHz ISM band, the most globally accepted unlicensed portion of the RF spectrum, to connect individual LABWIT equipment to PC for remote alarms control and monitoring over the its performance data.



Compared with RS-232 and RS-485 connections, 2.4GHz is a totally cable free connection, provides high speed, stable and interference free data transmission. Up to over hundreds of equipments may be interfaced to a single PC unit.

SPECIFICATIONS

Product Code	ZOCR-1150B
TEMPERATURE	
Heating Mode	Direct Heat & Air Jacket
Control Method	P.I.D Microprocessor
Temperature Range (°C)	Ambient+5 to 60
Temperature Uniformity (°C)	≤±0.2 @37°C
Temperature Accuracy (°C)	≤±0.2
Ambient Temperature Range (°C)	10-35
CO₂	
CO ₂ Control Method	P.I.D Microprocessor
CO ₂ Range (% CO ₂)	0-20
CO ₂ Accuracy (% CO ₂)	≤±0.2
CO ₂ Sensor	IR, Single-Beam, Dual Wavelength, Auto-zeroing
HUMIDITY	
Humidification Method	Water Pan
Humidity Range (RH)	Up to 95% @37°C
Humidity Display Resolution (RH)	0.01
CONTAMINATION CONTROL	
Contamination Control Methods	High Temperature 140°C Decon Cycle 0.3 Micron In-line HEPA Filter for CO ₂ Injection; Inner Chamber HEPA Filter
CONTROLLING SYSTEM	
Control Panel	5.6" TFT Touch Screen
Alarms	Low & Over temperature, Low & Over CO ₂ Deviation, Door Ajar, Low Gas Supply, All Sensor Failures, Printer Failure
CO ₂ Tank Backup System	Option, with Low Gas Supply Alarm, Auto Switch
Printer	Option, Built-in
WiseKonec TM	Option
CAPACITY	
Internal Volume (L)	150
Internal Dimensions (WxDxH)(mm)	603x488x650
External Dimensions (WxDxH)(mm)	720x710x930
Shipping Dimensions (WxDxH)(mm)	840x830x1100
Net/Gross Weight (Kg)	120/140
Door Type	Left/Right Reversible
Number of Shelves (Std/Max)	3/6
Max. Load per Shelf (Kg)	10
Shelves Size (WxD) (mm)	530x400
Electricity	220/240 Volt 50/60 Hz
Power (W)	1200W

ORDERING INFORMATION

ZOCR-1150B	ZOCR-1150B, 150L, Premium DH CO ₂ Incubator, IR Sensor, A+5-60, 0-20%
P4001	WiseKonec TM Data Connection Kit
P4002	Right Hinged Doors
P4003	Built-in Printer
P4004	Gas Tank Autoswitching Kit
P9033	Perforated Shelf Plate for ZOCR-1150B