

Gas Pressure Regulator

IM-055



Dual-stage regulator with easy-to-read meters, optimum for use with an incubator. Easy fine adjustment in the low-pressure range.

Primary pressure gauge 0~25Mpa
Secondary pressure gauge 0~0.3Mpa

Filter Kit

IF-160



The optional 0.3 μ glass paper air dust filters capture dust particles and fungus spores circulating in the chamber, reducing the risk of contamination.

Replacement Air Dust Filter: IF-15

Gas Guard System

GS-701



Gas Guard System automatically switches to a backup tank when the tank in use runs out of gas. It is equipped with audio and visual alarms and can also be operated manually.

Dimensions: W210×D390×H94mm
Weight: 4.5kg
Power Supply: AC100V/110V/220V

Auto Gas Analyzer

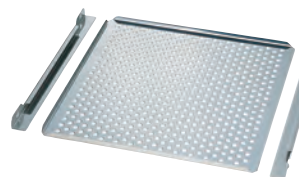
AGA-2008



Auto Gas Analyzer is equipped with a rechargeable built-in battery and can measure both CO₂ and O₂ concentration.

Dimensions: W150×D280×H187mm
Weight: 4.5kg
Power Supply: AC100V/110V/220V

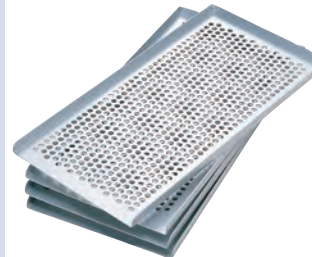
Shelves and Shelf Brackets



Shelves made of stainless steel, sturdy with smooth surface. Shelf brackets come in a set of two and are easy to install.

Shelf: 165001
Shelf Brackets: 165002 (2/set)

Half-Sized Trays



Two half-sized trays can fit into each level of shelves and are available in aluminum and stainless steel. Lightweight and easy to handle, they greatly improve working efficiency.

Aluminum Half Tray: 165003
Stainless Steel Half Tray: 165008

Shelf Doors



Shelf doors minimize the drastic change in the environment inside the chamber and reduce the amount of gas consumption and the risk of contamination.

IM-102 (2pcs) W451×H234mm×2pcs
IM-103 (3pcs) W451×H155mm×3pcs
IM-104 (4pcs) W451×H116mm×4pcs
IM-100 (6pcs) W451×H77mm×6pcs

Incubator Pedestals

IM-011/IM-022/IM-033



Incubators can be secured on stable pedestals. Tools for securing the pedestal onto the floor or wall are also available.

IM-011: W670×D580×H596mm
IM-022: W670×D580×H191mm
IM-033: W670×D580×H203mm

WATER JACKET TYPE

CO₂/TRI-GAS INCUBATOR

CO₂/TRI-GAS INCUBATOR

CO₂ Incubator

WCI-165 (WCI-325 for double) / WCI-165R (WCI-325R for double)

Tri-Gas Incubator

WMI-165 (WMI-325 for double) / WMI-165R (WMI-325R for double)

1 Auto Setup and Auto Calibration Function

With the Auto Setup Function, the unit is ready to use in 12 hours with precisely controlled CO₂ and O₂ concentrations. The models equipped with the IR sensor and with the O₂ sensor can be regularly calibrated.

2 Access Port

The WCI models come standard with an access port to provide power or to introduce air into the inner chamber.

3 Stackable Design

The WCI model incubators can be stacked in places where space is limited.

4 Safety Alarms

The incubators come equipped with alarm functions for water jacket level, overtemperature and CO₂/O₂ concentration.

5 Your Choice of Gas Sensors

With 2 types of CO₂ sensors (IR or TC), and the O₂ control feature, there are four models to choose from to accommodate your needs. The thermocouple (TC) sensor is a traditional CO₂ sensor and varies with humidity and CO₂ density. It is best for applications where gas, temperature and humidity are kept constant, and there are not frequent door openings. The infrared (IR) sensor is unaffected by temperature and humidity. It is ideal for applications that require frequent door openings and changes of the temperature and humidity settings.

6 Safety against Contamination

Shelves and shelf holders can be removed without any tools. The Air Dust Filter Kits can be selected as an option to capture dust particles and fungal spores that may be circulating in the chamber.

7 Why Tri-Gas?

Many cell lines grow better in the presence of low oxygen -- the natural environment for many tissues in situ. For example, the ability to lower O₂ concentration while maintaining high CO₂ has been critical for culturing mammalian embryos and some embryonic cell lines.

(Dimensions unit = mm)

Model (for double type)	WCI-165 (WCI-325)	WCI-165R (WCI-325R)	WMI-165 (WMI-325)	WMI-165R (WMI-325R)	
Outer Dimensions	W625 x D625 x H955 (H1910 for double)				
Inner Chamber Dimensions	W500 x D480 x H680				
Capacity	163L				
Shelf Dimensions	W430 x D430 x H15				
No. of Shelves	5 (Max 21)				
Heating Method	Water Jacket (41L)				
Temp. Control	Digital PID				
Temp. Control Range	Ambient temp. +5°C~50°C				
Temp. Control Accuracy	±0.1°C				
Humidity	Natural Evaporation with humidify tray				
Access Port	30mmφ				
Shelf Doors	Optional		Yes		
CO ₂	Sensor	TC Sensor	IR sensor	TC Sensor	IR sensor
	Control	ON/OFF	DUTY	ON/OFF	DUTY
	Control Range	0~19.9%			
	Stability	±0.1%			
Auto CAL Function	--	Yes	--	Yes	
O ₂	Sensor	--		Galvanic	
	Control	--		ON/OFF	
	Control Range	--		2~80%	
	Stability	--		±0.5%	
Auto CAL Function	--		Yes		
Options	Analog Output, HEPA Filter Kit, Additional Shelves etc.				
Power	100/110/220V				
Weight	92Kg (133Kg when water filled)/ 184Kg for double (266Kg when water filled)				

A water-jacket incubator allows to culture cells in a much more “cell-friendly” manner.

Why Water Jacket?

The water-jacket creates a stable environment for the cell, in which changes occur gradually. The system's PID controller means excellent temperature control and stability in the high-humidity conditions in the incubator. Because of its high specific heat, the water jacket is more reliable than an air jacket, and can save cell cultures in case of power failure.

A new Tri-Gas Water-Jacket model of incubator has been now added to our WCI series!



Control Panel



CO₂ Incubator



Tri-Gas Incubator



※Image: WMI-325