

# WATER JACKET TYPE PERSONAL INCUBATORS

Digital control reliability and water-jacket thermal stability

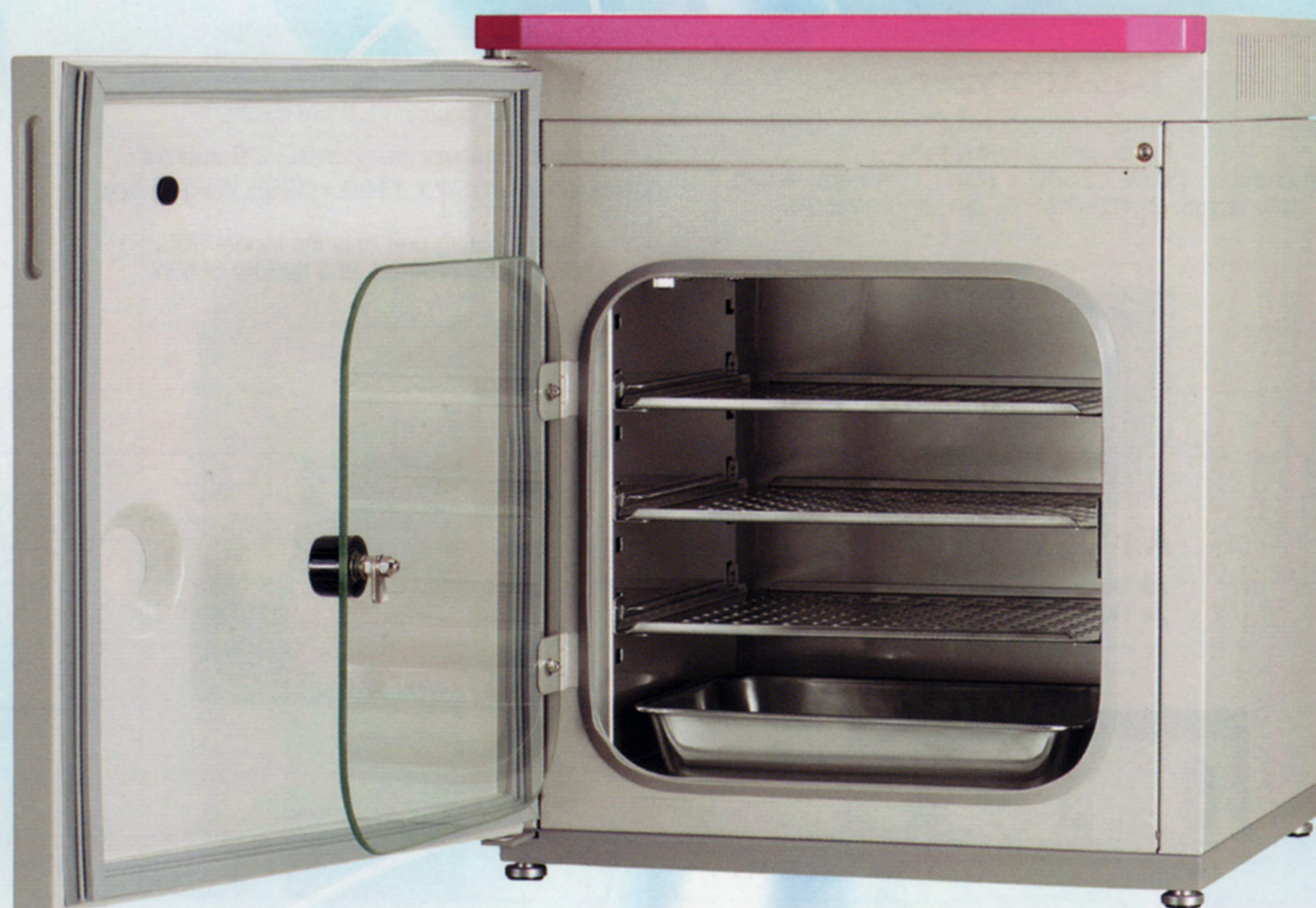


Photo shown with CCM-500F inside.

## PERSONAL CO<sub>2</sub> INCUBATOR



APC-30D (TC Sensor)  
APC-50D (TC Sensor)  
\*APC-30DR (IR Sensor)  
APC-50DR (IR Sensor)

## MULTI-GAS INCUBATOR



APM-30D (TC Sensor)  
APM-50D (TC Sensor)  
\*APM-30DR (IR Sensor)  
APM-50DR (IR Sensor)

\*CE marking version is available (220V only)



### Excellent Temperature Stability

The Personal Incubator water-jacket and digital control minimize the effect of outside temperature changes, ensuring a stable temperature and environment.

### High-Performance Digital Controls

Chamber temperature, door-heating and CO<sub>2</sub>/O<sub>2</sub> levels (Multi-Gas type only) are all digitally controlled. Setting, adjustments and calibration are all easily adjusted from the digital front panel.

### Automatic Setup Function

Automatic Setup Function makes the setup operation easier than ever. At startup, ASF automatically calibrates the CO<sub>2</sub> zero adjustment, then attains the set temperature and CO<sub>2</sub> level.

### Compact Design

In addition to its small footprint, the compactness of the Personal Incubator also improves its heating efficiency. Plus, Personal Incubators can be stacked two- or three-high to expand capacity.

### IR Sensor

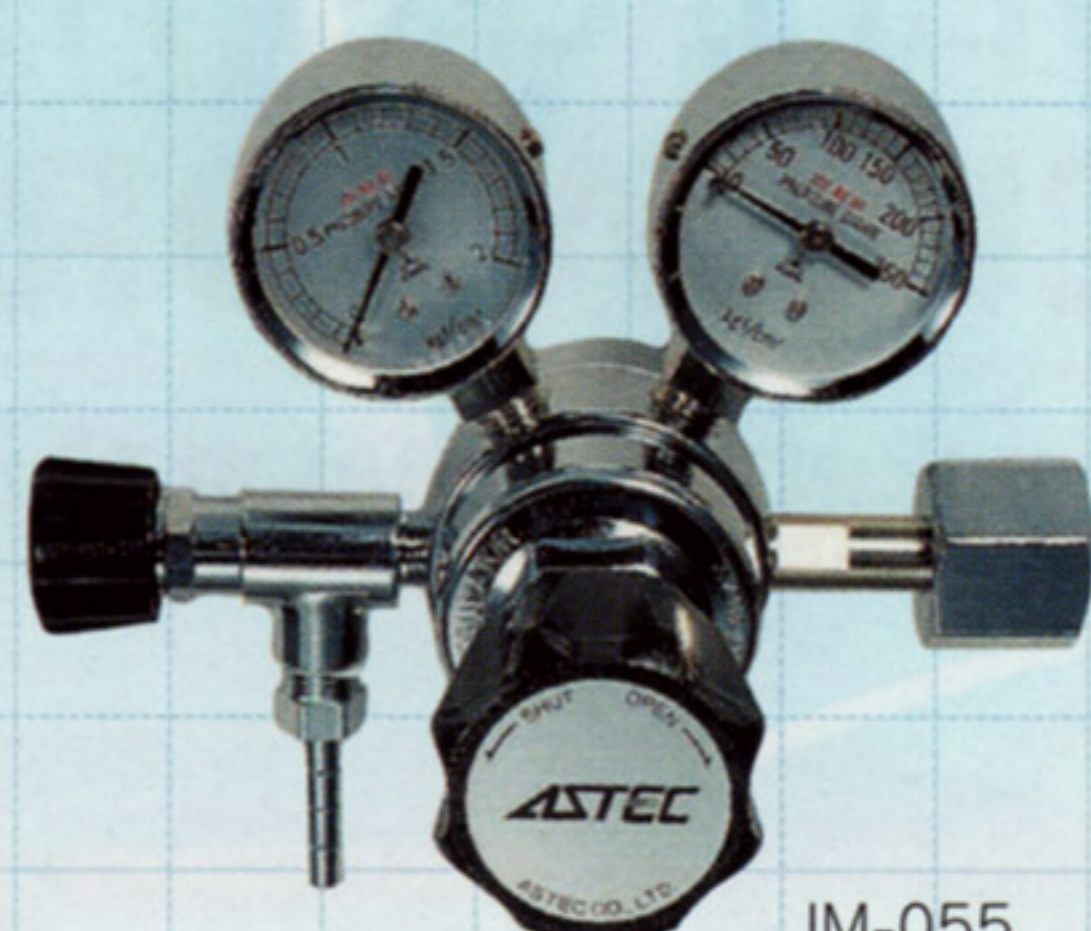
Our new infrared (IR) sensor maintains the CO<sub>2</sub> level more accurately than other types of sensor and recovers faster after door openings. It is unaffected by variations in chamber temperature and humidity.

### Anti-Contamination Features

Shelves and brackets are removed easily without tools. All chamber corners are rounded for complete and easy cleaning.



## ▼ OPTIONS

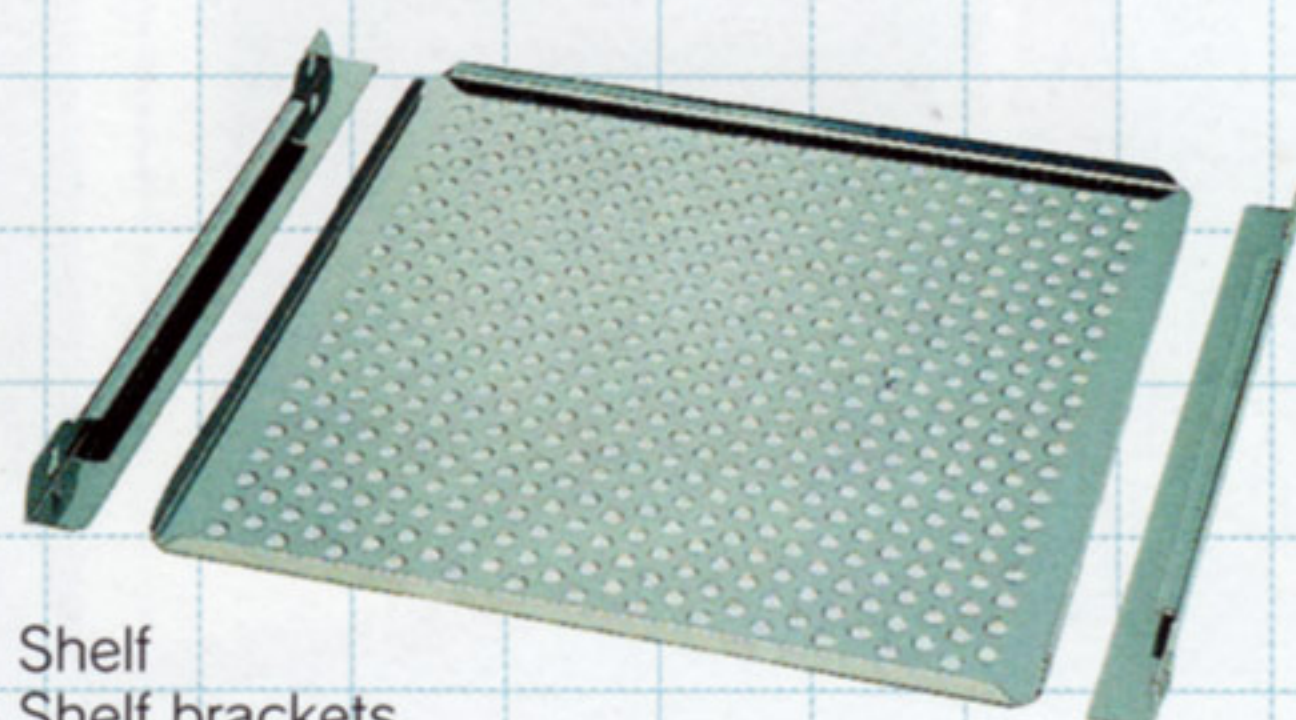


IM-055

### Gas Pressure Regulator

Two-phase pressure regulator.

Primary pressure regulator: 0-25 Mpa  
Secondary pressure regulator: 0-0.3 Mpa



360001 Shelf  
360002 Shelf brackets

### Shelf and Shelf brackets

Meshed Stainless sheets.

30L model: Standard 3, expandable up to 7  
50L model: Standard 3, expandable up to 10.

### Shelf Door Set

Split inner glass doors  
AP100(for 32L model 2splits)  
AP500(for 57L model 3splits)



AGA-2004

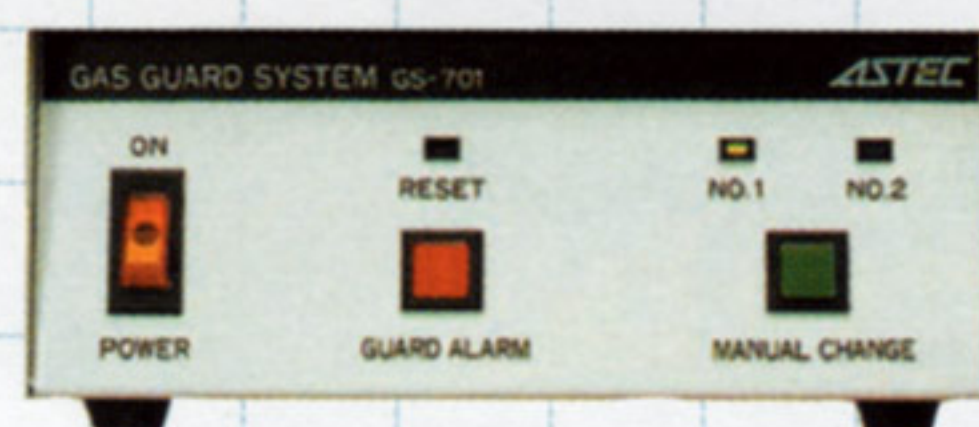
### Gas Analyzer

Gas analyzer precisely measures CO<sub>2</sub> or O<sub>2</sub> density for incubator calibration.  
Dimensions: 150W x 280D x 187H Weight: 4.5kg  
CO<sub>2</sub> range: 0~18.0% O<sub>2</sub> range: 0~22.0%



### Air Dust Filter

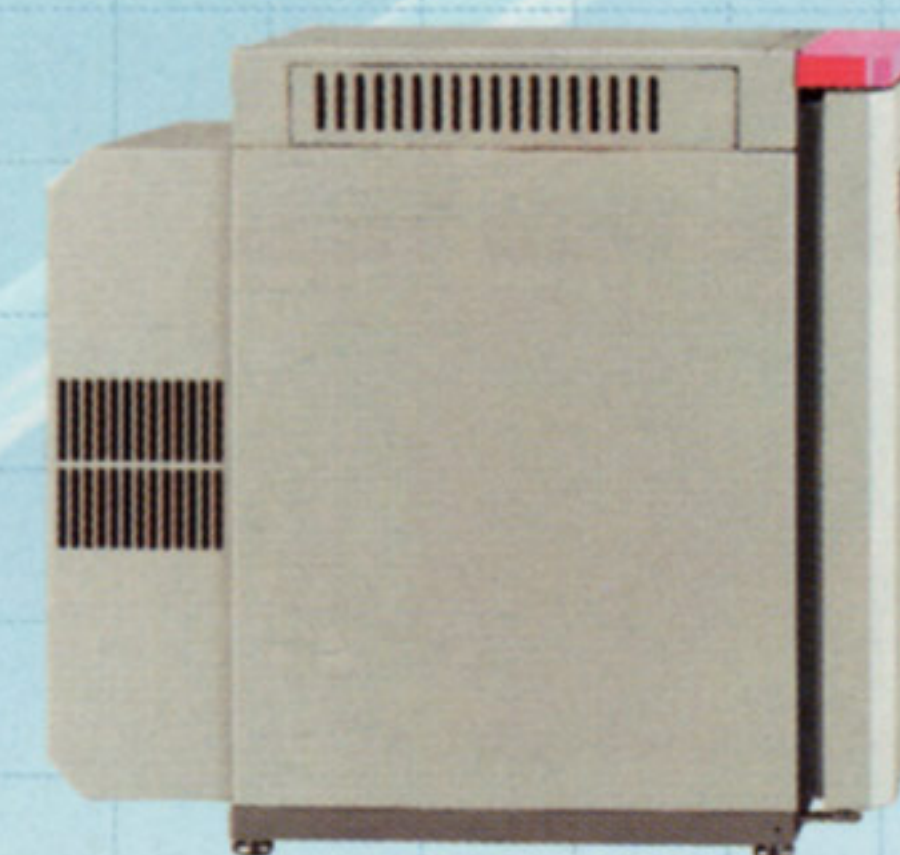
Air Dust Filter Kit IF-30/IF-50  
Air Dust Filter IF-15



GS-701

### Gas Guard System

Gas guard system automatically switches to a backup gas tank when primary tank runs out.



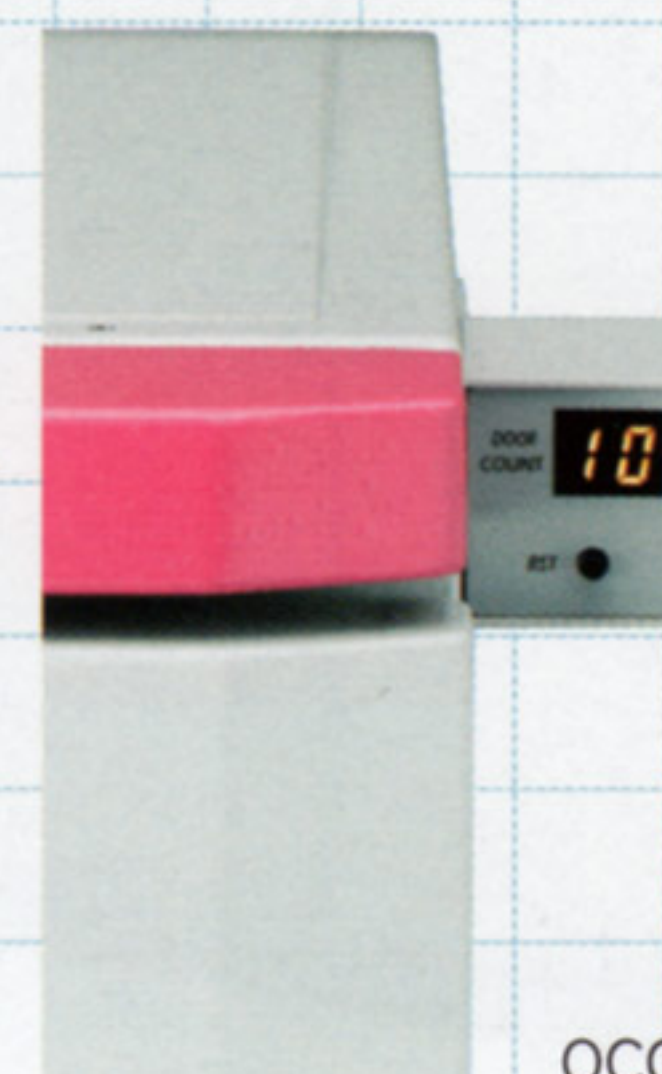
CL-30

### Cooling Unit CL-30

Increases temperature range to 10-50 °C (at 25 °C ambient).  
Installs on the back of the Personal Incubator adding only 11.5 cm depth.

Temp control accuracy: ±0.1°C@ambient  
Dimensions: 405W x 115D x 399H Weight: 5kg

Note: Cooling unit only fits model 30L, and must be ordered as a factory option.



OCC-30D

### Door Counter

Door counter counts every door opening to max 99 times.  
Dimensions: 33W x 65 D x 35H

## ▼ SPECIFICATIONS

	32L Model				57L Model			
	CO <sub>2</sub> Incubator		Multi-gas Incubator		CO <sub>2</sub> Incubator		Multi-gas Incubator	
Model	APC-30D	APC-30DR	APM-30D	APM-30DR	APC-50D	APC-50DR	APM-50D	APM-50DR
Exterior dimensions(mm)	410Wx400Dx500H				450Wx472Dx605H			
Inner chamber dimensions(mm)	320Wx300Dx330H				360Wx370Dx430H			
Shelf dimensions	280Wx266D				338Wx332D			
Shelves per chamber	Standard:3 Maxium:7				Standard:3 Maxium:10			
Heating method	Water-jacket							
Temperature control	Digital PID Control							
Temperature range	Ambient temperature +5℃ up to 50℃							
Temp control accuracy	±0.1℃							
CO <sub>2</sub> sensor	T/C	IR	T/C	IR	T/C	IR	T/C	IR
CO <sub>2</sub> range	0-19.9%							
CO <sub>2</sub> precision	±0.1%							
O <sub>2</sub> control system			On-Off control (Galvanic)				On-Off control (Galvanic)	
O <sub>2</sub> control range			1-89%@RH95%(CO <sub>2</sub> 5%)				1-89%@RH95%(CO <sub>2</sub> 5%)	
O <sub>2</sub> control accuracy			±0.5%				±0.5%	
Power source	AC 100-120V 3A							
Weight	28kg (33kg with CL-30)				46kg			

\*Access port (bore diameter 30Φmm) is attached for 50L model.



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