

Penguin  
Incubator

# Penguin

Air Jacket CO<sub>2</sub> / Tri-Gas Incubator


Control


CO<sub>2</sub> Incubator


Tri-Gas Incubator

## Personal Incubation

Secure, promised environment for specimen.

## Precise Temperature Control

Exceptionally stable and accurate temperature control.

## Automatic Maintenance

Automatic ZERO calibration of CO<sub>2</sub> concentration.

## Dependable

Protected by various alarms for any deviation of the environment in chamber.

## User Friendly

All the interiors can be removed without using any tools.  
Every rounded corner helps thorough and easier cleaning.




## Options



### Gas Analyzer AGA-2008

Gas concentration analyzer, measures both CO<sub>2</sub> and O<sub>2</sub> concentration in one single sampling. Battery rechargeable. CE Marked

Size (mm) : W150 x D280 x H187  
Wgt : 4.5kg / 9.9 lb  
AC100V~230V / 1A



### Shelf Doors AP-100A

Independent inner door kit.

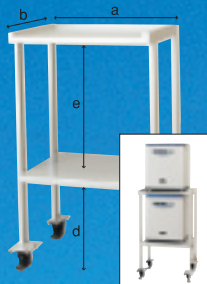
AP-100A (for SCA / SMA-30)  
285mm x 95mm / 2 doors/kit



### Air Dust Filter Kit IF-30A

Optional, in-chamber Air Dust filter

Pore size: 0.3µm  
Replacement Filter: IF-15



### Base Stand AP30STD

Solid base stand with casters.

AP30STD (for SCA / SMA-30)  
Size (mm) : a) 560 x b) 440 x c) 900 x d) 345 x e) 530



### Regulator IM-055

Double-phased gas pressure regulator.

1<sup>st</sup> stage scale: 0~25Mpa  
2<sup>nd</sup> stage scale: 0~0.3Mpa



### Door Counter OCC-30D

Counts the frequency of door openings. Analog output and alarm standard.

Size (mm) : W30 x D65 x H35



### Gas Guard System GS-701

Used with 2 gas supply cylinders. Switches from one cylinder to another automatically when the first cylinder gets empty.

Size (mm) : W210 x D390 x H94  
Wgt : 4.5kg / 9.9 lb



Some species of Penguins breed and give birth to their chicks in the harshest winter of the Antarctic so their offspring become independent in the most favorable season. We wish our "Penguin Incubator" to represent such a valiant manner of the bird's life. As global warming rapidly becoming a universal concern, ASTEC has been standing behind the preservation of the environment, contributing to protect wild life. We wish that "Penguin" symbolizes our corporate identity and mission that we continuously step forward with.

## Specification

Model	SCA-30D		SCA-30DR		SMA-30D		SMA-30DR	
Exterior Dimension (mm/inch)	W415 x D410 x H510 / 16.3 x 16.1 x 20.1							
Inner Chamber Dimension (mm/inch)	W310 x D295 x H 330 / 12.2 x 11.6 x 13.0							
Capacity	30 Liters / 1.06 ft3							
Inner Chamber	SUS304							
Inner Door	Tempered Glass / 5mm							
Shelf Size (mm/inch)	W252 x D252 x H8 / 9.9 x 9.9 x 0.3							
Number of Shelves	2 Shelves Standard, 4 Shelves Max							
Temperature Control	PID Control							
Temperature Range	Ambient +5℃ ~ 50.0℃							
Temp Control Accuracy	±0.1℃							
Temp Uniformity	±0.3							
CO <sub>2</sub> Sensor type	T/C		IR		T/C		IR	
CO <sub>2</sub> Control Range	0 % ~ 20.0%							
CO <sub>2</sub> Control Accuracy	±0.1%							
O <sub>2</sub> Sensor	—				Galvanic Battery, ON-Off Control			
O <sub>2</sub> Control Range	—				1.0 % ~ 89.0 % ※1			
O <sub>2</sub> Control Accuracy	—				±0.5 %			
Humidity	95% ±4RH							
Humidity System	Natural Evaporation							
Airflow in Chamber	Convection with a fan							
Safety functions (Software Control)	Safety Cut-off at 38 ℃							
Alarm Contact	Temperature, CO <sub>2</sub> , O <sub>2</sub>							
Options	Air Dust Filter, Shelf Doors							
Weight	30Kg / 66lb							
Power	AC100V-230V 50Hz/60Hz							

The specification may change without prior notice. The above specifications are based on the following configuration. Temperature: 37°C  
CO<sub>2</sub> : 5.0% O<sub>2</sub> : 5.0% ※1 O<sub>2</sub> concentraion from 18.0%~22% may not be uncontrollable due to various conditions.



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