

<u>Denguin</u> Incubator

Penguin DH

Direct Heat - CO₂ / Tri-Gas Incubator





Control



CO₂ 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 CO2 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



AGA-2008

Gas concentration analyzer, measures both CO2 and O2 ampling. Battery rechargeable.

Size (mm): W150 x D280 x H187 Wgt ; 4.5kg / 9.8 lb AC100V~230V/1A



AP-100A

Independent inner door kit.

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



Air Filter Kit IF-30A

Optional, in-chamber Air filter

Pore size: 0.3µm Replacement Filter: IF-15



AP30STD

Solid base stand with

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



Some species of Penguins breed and give birth to their chicks in the harshest winter of the Antarctic so their diffspring become independent in the most tavorable 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.



Regulator IM-055

Double-phase gas pressure regulator.

1st stage scale: 0~25Mpa 2ⁱⁱⁱⁱ stage scale: 0~0.3Mpe



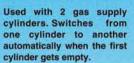
OCC-30D

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

Size (mm): W30 x D65 x H35



Gas Guard System GS-701



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



Specification

| Model | SCA-30D | SCA-30DR | SMA-30D | SMA-30DR |
|-------------------------------------|--|----------|----------------------------------|----------|
| Exterior Dimention (mm/inch) | W415 x D410 x H510 / 16.3 x 16.1 x 20.1 | | | |
| Inner Chamber Dimention (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°C | | | |
| Temp Uniformity | ±0.3 | | | |
| CO ₂ Sensor type | T/C | IR | T/C | IR |
| CO ₂ Control Range | 0 % ~ 20.0% | | | |
| CO ₂ Control Accuracy | ±0.1% | | | |
| O2 Sensor | \$ 2 | | Galvanic Battery, ON-Off Control | |
| O2 Control Range | - | | 1.0 % ~ 89.0 % **1 | |
| O ₂ 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, CO2, O2 | | | |
| 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 CO2: 5.0% O2: 5.0% **1 O2 concentration from 18.0%-22% may not be uncontrollable due to various conditions.



URL http://www.astec-bio.com E-mail info@astec-bio.com

ASTEC Co., Ltd.

4-6-15, Minamizato, Shime, Kasuya

Fukuoka, Japan 811-2207

Tel: +81-92-935-5585 Fax: +81-92-936-6613