



32Liters / 1.1cf



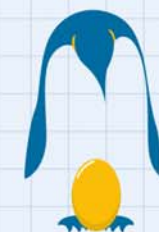
57Liters / 2.0cf



WATER JACKET CO<sub>2</sub> / TRI-GAS INCUBATOR

Penguin Incubator

# Penguin AQ



## SPECIFICATIONS

	CO <sub>2</sub> Incubator	Tri-Gas Incubator	CO <sub>2</sub> Incubator	Tri-Gas Incubator
Model	APC-30DR	APM-30DR	APC-50DR	APM-50DR
Exterior dimensions (mm/inch)	410Wx400Dx500H / 16.1x15.7x19.7		450Wx472Dx605H / 17.7x18.6x23.8	
Chamber Size	32L / 1.1cf Model		57L / 2.0cf Model	
Inner chamber dimensions (mm/inch)	320Wx300Dx330H / 12.6x11.8x13.0		360Wx370Dx430H / 14.2x14.6x16.9	
Shelf dimensions	280Wx266D / 11.0x10.5		338Wx332D / 13.3x13.1	
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°C, up to 50°C			
Temp control accuracy	±0.1°C			
CO <sub>2</sub> sensor	Infra-Red			
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	—	1-20%@RH95%(CO <sub>2</sub> :5%)	—	1-20%@RH95%(CO <sub>2</sub> :5%)
O <sub>2</sub> control accuracy	—	±0.5%	—	±0.5%
Power	US standards or to international (100-240V – 50-60HZ)			
Weight	28kg / 61.7lb		46kg / 101.4lb	

\*Access port (internal diameter 30Φmm) is standard for 57L model.

\*\*Caution: Federal law restricts this device to the sale by or an order of a physician or practitioner trained in its use.



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# Water Jacket / Penguin AQ

CO<sub>2</sub> Incubator

APC-30DR/APC-50DR

Tri-Gas Incubator

APM-30DR/APM-50DR

The Smallest Water Jacket Incubator in the World with a state-of-the-art, reliable and stable CO<sub>2</sub> and Temperature control.

## 1. Precise Temperature Control

Water Jacket Chamber provides exceptionally stable and accurate temperature control.

## 2. Chamber Size

The small chamber allows for fast temperature and gas concentration recovery. Its reduced size allows culturing a reduced number of patients (dishes) in the incubator including the dedication of an entire shelf or incubator per IVF patient (Personal incubation).

## 3. Automatic Maintenance

Easy set-up with Automatic Set-Up Function. Penguin AQ also offers Automatic ZERO Calibration on CO<sub>2</sub> Concentration every 10 days (can be programmed with a customized interval).

## 4. User-Friendly

All the interiors can be removed without any tools for easy cleaning. The chamber construction includes rounded corners helping the cleaning and disinfection process.



The photo shown is equipped with optional OCC-30D and AP-100.

### Control



CO<sub>2</sub> Incubator



Tri-Gas Incubator

## 5. Adaptable to your needs

The Penguin AQ AP Series include two different chamber sizes and two gas configurations (CO<sub>2</sub> or Tri-Gas) adapting to your IVF culture needs.

## 6. Versatile

Access port (30mm / 1.3") is available for 57L (2.0cf) models as standard feature (available as an option for 32L models).

## 7. Tri-gas, Low-Oxygen Concentration

APM-30DR and APM-50DR models offer oxygen control for standard IVF or for extended embryo culture to blastocyst stage.

## 8. Dependable

Each Penguin AQ incubator includes an alarm system for: water level in the water jacket, CO<sub>2</sub>, O<sub>2</sub> (in APM models) and temperature. Each incubator is equipped with a BMS connector for remote alarm monitoring.



## Penguin AQ / Tri-Gas INCUBATOR

## Options

### Penguin AQ Accessories



### Shelf Doors AP-100/AP-500

Independent inner door kit.

AP-100 (for APC/M-30) 285mm x 95mm / 2 doors/kit  
AP-500 (for APC/M-50) 325mm x 95mm / 3 doors/kit



### Door Counter OCC-30D

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

Size (mm): W30 x D65 x H35



### Base Stand AP30STD/AP50STD

Solid base stand with casters.

AP30STD (for APC/M-30)  
Size (mm): a)560 x b)440 x c)900 x d)345 x e)530  
AP50STD (for APC/M-50)  
Size (mm): a)600 x b)510 x c)1005 x d)345 x e)635

### Other ASTEC products



### 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



### Regulator IM-055

Double-phase gas pressure regulator.

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



### 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