



> in jar



> get your atmosphere!





Anaerobic Gas-System

Quick and convenient solution

Create atmospheres suitable for the culturing of anaerobic, microaerophilic and capnophilic bacteria in common anaerobic jars

Extremely rapid oxygen depletion

Develop anaerobic atmospheric conditions inside the jar in less than 1 minute

Flexibility

Chose the level of oxygen depletion (microaerophilic atmosphere)

Significant cost savings

Reduce capital and operating costs

Multiplt simultaneous atmospheresWithin multiple jars

BIOTOOL SWISS

PETRISPHERE - RAPID OXYGEN DEPLETION - NO CONSUMABLES

Principle

When performing quality control for food, drink, cosmetic or hygiene products, samples are tested for the presence of anaerobic bacteria, the cause of many infectious diseases and food poisoning. Such sample are incubated in containers under anaerobic atmospheric conditions. Specific, expensive compounds are normally required to replace the oxygencontaining air

The new PetriSphere™ system consists of a microprocessor-based controller, a diaphragm vacuum pump and a gas reservoir connection which enables the air to be replaced by nitrogen or carbon dioxide gas.

Cost and convenience

Traditional methods may involve high capital cost (e.g. glove boxes) and significant use of consumables (e.g. bag-based anaerobic jars).

PetriSphere lowers the cost of consumables required and reduces the need for compound supplies and waste products. The power and control of the vacuum system is sufficient to operate without sachets or catalysts.

Simple to use

Programmed using keyboard. Draining and filling with replacement gas (nitrogen or carbon dioxide) managed automatically. Gas extraction can be controlled (up to 2mbar) to reduce the risk of cell lysis.



Alternative Gases

Where alternative gases / customized gas-mixtures are desirable, only one lecture bottle is required.

Rapid Oxygen Depletion

PetriSphere generates an anaerobic atmosphere (O2<0.05%) in less than 3 minutes (using a standard jar). Sensitive strains remains viable.

Simple Assembly

The click connectors, equipped with an inbuilt one-way valve, make it easy to disconnect the jar when placing in an incubator.

Specification motor

Ultimate pressure Pumping speed (at 50/60 Hz) Max, inlet pressure (mbar) Max. outlet Powerpressure (mbar)

Reference surface sound (Din 45635)

Power

Protection (motor) DIN EN 600034-1 Class of insulation DIN EN 600034-1

< 2 mbar 0.8/0.9 m³/h 1 mbar

1 mbar maintenance free

< 44 dB (A) 0.83 kW IP 20 F (160°C)

Specification vacuum controller

3 conductor Sensor interface Scan frequency 10 Hz Resolution ADC 12 Bit +5 stabilized Power supply Sensor signal 0.5 to 4.5 V Sensor (integrated ceramic sensor) 1-1100 mbar +/- FS mbar Sensor uncertainty Pumping speed (m³/h at 50/60 Hz) 0.8/0.9

Specification dimensions

Dimensions (W/D/H) Weight

(235/145/345 mm) 17 kg (5.5 Lbs)



Order information



112011-04 PetriSphere Processing unit with 1 iar and quick connection kit



829996-1 Elbow Union With hose nozzle, grey, fits to anaerobic jar, polypropylene



112011-05 PetriSphere Stand-alone processing unit. connectable to existing jars

Service Kit



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112555 Anaerobic Jar Complete with lid, seal, valve and rack



Media Preparator 10/20 L ProfiClave PC10, benchtop ProfiClave PC20, benchtop



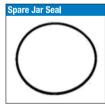
112555-06 Spare Rack In anaerobic jar, for 11-12 petri dishes, stainless steel



Petri Dish Filler Petriswiss PS900 HTS Petriswiss PS20 mini



828374 Silicone Tubing For jar connection, 1 meter



112555-08 Jar Seal



Safety Bunsen Burner LabFlame IR



Persistaltic Pumps Dosipump DP 1000 Dosipump DP 500

BIOTOOL AG Mühlegasse 7

402044 Service Kit

contains unit seals

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