

SG-3170

Seed Germinator



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

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►► APPLICATIONS

- Germinators are useful for seed testing, biological studies, forestry research works etc. With a solid see thru double walled door and a full view inner plexi-glass door enables inspection and monitoring of inner chamber specimens without distributing the process temperature.
- Excellent quality magnetic gum packing door gasket for external door.
- User oriented design of shelves makes you adjust each space of shelves without difficulty.
- Forced air circulation at triple walled back by durable coaxial blower, maintains optimum
- temperature uniformity and homogeneity.
- High grade PUF Insulation between outer and inner chamber for minimal thermal losses.
- Caster wheel mounted for easy portability.
- Front double walled door is provided with lock and key arrangement.
- Door operated illumination lamp is fitted inside the chamber for easy visibility.
- Finned tube evaporator facilitates uniform and faster cooling effects.

►► CONSTRUCTIONAL AND SALIENT FEATURE

- Advanced Cooling Refrigeration
- Corrosion resistant exterior and interior
- CFC free insulation
- Microprocessor based controls
- Fluorescent lighting
- Single and double door as required
- Germination test in both hot and cold cycles
- Safety thermostat to prevent over heating
- Heavy duty caster wheels
- Unique air flow assurance
- Digital display for temperature and humidity
- Precise test results

Seed germinators often known as Seed Germination Incubator systems, provide accurate solution for seed germination process. These units feature advanced insulating, lighting technology, excellent climatic control and programmable microprocessor control system. Below mentioned are some of excellent features that make these seed germinator units most suitable for laboratory, agriculture and other applications.

►► **Capacity:**

These units are available with four different models which have been classified with capacities of 170, 285, 340 and 442 liters respectively. However on demand new custom designed equipment are also manufactured with required capacity.

►► **Temperature / Humidity:**

Our seed germinators provide precise temperature control from 5°C to 50°C (as required) with accuracy of $\pm 0.5^{\circ}\text{C}$. The humidity range varies from 10%RH to 95%RH as per required temperature. This varied temperature range makes the equipment ideal for various applications in research centers and laboratories. Temperature is controlled by microprocessor based controllers and displayed on high contrast LCD display.

►► **Construction:**

These equipment comes with durable double walled construction, where exterior wall is made of powder coated 304 grades stainless steel. Inner chamber is made of corrosion resistant stainless steel and provides the appropriate climatic and lighting conditions for seed germination testing applications. Polyurethane insulation minimizes heat loss. Doors come in solid construction or with tempered glass with magnetic gasket. Shelves are made of painted steel wire, easy to lift out and easy to clean. Depending upon models these shelves are provided from 2, 3 or 5 in numbers. Extra shelves are available on demand.

►► **Refrigeration System:**

These equipment incorporate high quality continuous running refrigeration system which ensures precise temperature control by alternately cycling refrigerant this also extends compressor life, and eliminates the risk of ice buildup in the coil. Compressor is used only branded featuring low noise level ($<60\text{dB}$) and minimal vibration. Solenoid valves have an extended stem for quiet and long life operation. Evaporator coil is ceiling mounted and incorporates twin air circulation fans in an aluminum housing.

►► **Lighting System:**

These seed germinators use high frequency fluorescent lighting and equipped with high quality up to 6 fluorescent lamps that use up to 25% less energy than ordinary fluorescent lamps. This high efficiency lighting system features long operating life and enables users to regulate the light output to the exact level required.

►► TECHNICAL SPECIFICATION & ORDERING INFORMATION

Model	APS-SG170	APS-SG285	APS-SG340	APS-SG442
Capacity (Liters)	170 liters	285 liters	340 liters	442 liters
Capacity (Cubic Feet)	6.0 C. Ft	10 C. Ft	12 C. Ft	15.6 C. Ft
Product Type	Seed Germinator			
Temperature Range	5°C to 50°C			
Temperature Fluctuation	±0.5°C			
Temperature Uniformity	±1°C			
Temperature Precision	±0.1°C			
No. of Chambers	Single / Double Chamber			
Temperature Controller	PID Controller			
Relative Humidity Range	10% RH to 95% RH			
Humidity	Natural humidity with water inside			
External Construction	Powder Coated 304 Grades Stainless Steel			
Lighting	Fluorescent Lamps			
Doors	Solid and Glass Doors w/ magnetic gasket			
Insulation	PU Foam			
Shelves	Painted Steel wire			
No. of Trays	2, 3 or 5 as required (Extra Trays Available on demand)			
Refrigerant	CFC-free refrigerant			
Compressor	Any Branded Compressor as required			
Evaporator	Finned tube			
Heater	Kanthal A-1 Tubular Heater			
Timer	Automatic			
Alarm	Audio / Visual Alarm for temp & humidity deviations			
Display	LED / LCD Display w/ Backlit			
Optional	<ul style="list-style-type: none"> - Remote Monitoring - Caster Wheels - Temperature chart recorder - Dot matrix printer - PLC controller with HMI - RS232 port 			
Certifications	CE and ISO			
Power Supply	220 Volts			

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HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

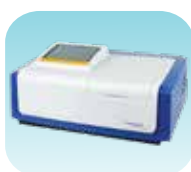
Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



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Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



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Atomic Absorption
Spectrophotometer



Liquid Particle
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
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RTPCR



TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

Regulatory compliances



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