# PLANT GROWTH CHAMBER


APPLICATIONS

- APS Many area of plant research require the use of a controller environment. In this way, a plant's response to different conditions can be monitored, or a particular habitat imitated. Standard propagation techniques can be greatly speeded up using a growth cabinet as well as achieving a higher success rate. Where micro propagation is being used a growth cabinet is essential for rooting the plantlets and adapting them to normal conditions. This plant growth cabinet is ideal for all routine propagation and research applications.

## CONSTRUCTIONS

- 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.
- Foamed-in-place PUF insulation ensures thermal stability and reduces electrical energy consumption.
- 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.
- Safety Thermostate to prevent overheating.
- Fitted with exterior illumination with fluorescent tubes/lamps.
- Works on 220/230 Volts AC (50/60 Hz frequency)



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# APS LAB INSTRUMENTS PVT.LTD.

## TECHNICAL SPECIFICATIONS & ORDERING INFORMATION

| MODEL | APS-PGC-11 | APS-PGC-17 | APS-PGC-28 | APS-PGC-34 |
|---|---|---|---|---|
| Dimension Inner (WxDxH) (in mm) | 455x410x610 | 505x415x830 | 570x550x875 | 650x580x900 |
| Capacity | 112 ltrs | 171 ltrs | 280 ltrs | 350 ltrs |
| Volume | 4Cuft | 6Cuft | 10Cuft | 12Cuft |
| MOC Outer | Powder coated CRC Steel Sheet | | | |
| MOC Inner | Chamber and trays made of Stainless Steel (SS-304) | | | |
| No. of Shelves | 2 | 2 | 3 | 3 |
| Type | Forced Convection Type | | | |
| Freezer Compressor | Hermetically sealed air cooling compressor system | | | |
| Temperature Range | $10^{O}C$ to $60^{O}C$ | | | |
| Temperature Accuracy | $+1^{O}C$ TO $+0.1^{O}C$ | | | |
| Humidity Creation | Through sophisticated steam injection process. | | | |
| Humidity range | 5% above ambient from 40% to 95%RH at cool temperatures | | | |
| Humidity Accuracy | +5%RH To +1%RH | | | |
| Evaporator | Finned tube evaporator for faster cooling effects | | | |
| Safety | Over temperature limiter switch prevents overheating | | | |
| Insulation | Foamed-in-Place PUF insulation ensures thermal stability and reduces electrical energy consumption | | | |
| Illumination | Exterior illumination with fluorescent tubes/lamps. | | | |
| Temperature Controller | Microprocessor Based Digital Temperature Indicator cum Controller with LED/LCD display. for Set Value. (SV) & Process Value (PV). OR Microprocessor based alphanumeric LCD/LED Display Controller | | | |
| Humidity Controller | Microprocessor based Digital P.I.D Digital Humidity Indicator-Cum-Controller | | | |
| Caster Wheel | Caster wheel mounted for easy portability. | | | |
| Electrical Supply | 220/230V AC, 50/60Hz | | | |

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| MODEL | APS-PGC-42 | APS-PGC-46 | APS-PGC-56 | APS-PGC-84 |
|---|---|---|---|---|
| Dimension Inner (WxDxH) (in mm) | 700x640x900 | 700x640x970 | 775x775x900 | 825x825x1200 |
| Capacity | 430 ltrs | 460 ltrs | 570 ltrs | 850 ltrs |
| Volume | 15Cuft | 16Cuft | 20Cuft | 30Cuft |
| MOC Outer | Powder coated CRC Steel Sheet | | | |
| MOC Inner | Chamber and trays made of Stainless Steel (SS-304) | | | |
| No. of Shelves | 4 | 4 | 4 | 4 |
| Type | Forced Convection Type | | | |
| Freezer Compressor | Hermetically sealed air cooling compressor system | | | |
| Temperature Range | $10^{0}$C to $60^{0}$C | | | |
| Temperature Accuracy | $+1^{0}$C | | | |
| Humidity Creation | Through sophisticated steam injection process. | | | |
| Humidity range | 5% above ambient from 40% to 95%RH at cool temperatures | | | |
| Humidity Accuracy | +5%RH | | | |
| Evaporator | Finned tube evaporator for faster cooling effects | | | |
| Safety | Over temperature limiter switch prevents overheating | | | |
| Insulation | Foamed-in-Place PUF insulation ensures thermal stability and reduces electrical energy consumption | | | |
| Illumination | Exterior illumination with fluorescent tubes/lamps. | | | |
| Temperature Controller | Microprocessor Based Digital Temperature Indicator cum Controller with LED/LCD display . for Set Value. (SV) & Process Value (PV). OR Microprocessor based alphanumeric LCD/LED Display Controller | | | |
| Humidity Controller | Microprocessor based Digital P.I.D Digital Humidity Indicator-Cum-Controller | | | |
| Caster Wheels | Caster wheel mounted for easy portability. | | | |
| Electrical Supply | 220/230V AC, 50/60Hz | | | |

**Options :-** Communication port with interface and data cable to download data to your PC.

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