

# PLANT GROWTH CHAMBER WITH PHOTOPERIOD AND TEMPERATURE ALTERNATION



## // CABINET FEATURES:

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- Expanded polyurethane thermal insulation on all walls, including doors;
- Low levels of temperature loss to the outside environment;
- Interior illumination when opening the door;
- Internal chamber with polymer coating, pre-molded, anti-corrosion;
- Removable shelves in 1020 carbon steel;
- 1020 carbon steel body;
- Smooth epoxy powder coating, corrosion resistant;
- Leveling feet;
- Blind door with magnetic seal;
- Inside water reservoir for moisture maintenance.

## // PHOTOPERIOD

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- Led lamps;
- Digital controller.



## // INCLUDED ACCESSORIES:

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- Shelves;
- Plastic drawer.

## // OPTIONAL:

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- Calibration certificate from RBC/INMETRO for temperature control;
- Calibration certificate from RBC/INMETRO for the equipment;
- Stainless steel shelves;
- Moisturize control for model 342L.

## // MODEL DETAILS:

<b>TEMPERATURE RANGE</b>	-10°C up to 60°C (Other temperatures, under analysis)
<b>PANEL</b>	Lightning polycarbonate
<b>TEMPERATURE ALTERNATION CONTROL</b>	32 programs with 64 segments, total of 2048 segments
<b>TEMPERATURE CONTROL</b>	PID system controller by microprocessor and autotuning
<b>DISPLAY</b>	LCD type
<b>TIMER</b>	00:01 to 99:59 minutes
<b>ACCURACY</b>	0.5°C
<b>THERMICAL HOMOGENEITY</b>	+/- 0,3°C
<b>RESOLUTION</b>	0.1°C indicate process temperatura
<b>PRE SET ON/OFF</b>	Luminous indication
<b>TEMPERATURE SENSOR</b>	PT100
<b>PHOTOPERIOD SYSTEM</b>	Day and night light simulation
<b>ILUMINATION SYSTEM</b>	4 LED lamps - 3800 Lux and 10W each
<b>SETUP FOR ILUMINATION SYSTEM</b>	Minimum 1 in 1 minute with maximum 8 programs
<b>OUTPUT</b>	4 to 20 mA for software logging and monitoring
<b>HEATING SYSTEM</b>	Tubular stainless shielded resistance (easy to replace)
<b>POWER CABLE</b>	3 pins Brazilian Standard (NBR 14136)
<b>THERMOSTAT SYSTEM</b>	Safety against temperature rise and automatic shutdown of the cooling system
<b>AIR CIRCULATION SYSTEM</b>	Silent system with vertical hot and cold forced airflow, to ensure homogeneity Inside the chamber
<b>HERMECTICAL COMPRESSOR</b>	1/8 Hp Power / Compressor with CFC Free R 134 A
<b>POWER SUPPLY</b>	110V or 220V (must be defined by customer)

## // IMODEL DETAILS:

<b>MODEL</b>	<b>CAPACITY</b>	<b>STORAGE VOLUME</b>	<b>INNER MEASURES</b>	<b>VOLTAGE</b>	<b>POWER</b>
<b>SSGFa 120L</b>	120 liters	109 liters	54x48.2x42.2 cm	110V or 220V	200 W
<b>SSGFa 342L</b>	342 liters	323 liters	134x52.5x46 cm	110V or 220V	400 W

Notice: Any product presented can be produced according to customer's needs. All models come with English language instruction manual. 1-year warranty against manufacturing defects.