

## Accurate environment control type

### Saturn Series

It comes with functions to handle accurate environment control and refined conditions setting for seedling, cultivation recipe development, experiment and research. It can produce steady environment to allow smooth cultivation data collection.

Accurate environment control and detailed condition setting are possible.

Example of products Indoor-assembled cultivation device + Showcase type mini-plant factory

#### TAPSH-1 Indoor type

- ▶ Multi-storey (3-5 storey) leaf vegetable cultivation system.
- ▶ As the cultivation system is horizontal, it is also possible to be used for tomatoes and other fruits.
- ▶ Air showers are provided, so it can be made very clean (optional).
- ▶ Air-conditioning can be from both sides of the wall, and fine air can be discharged, so uniform tiny air can be delivered.
- ▶ It can be used for +5°C-+35°C and relative humidity of up to 90%, which is a wide range from low temperature storage of seedlings, and sprouts, seedling cultivation progressively, and to stem cultivation.

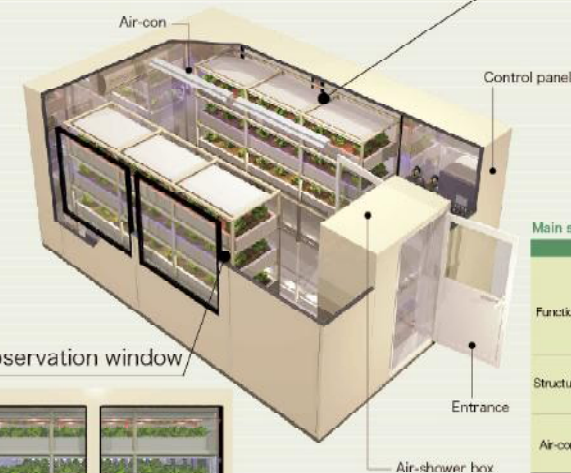


External view

#### Cultivation room



Multi-storey cultivation bed x 2 rows  
Top storey: Slim FL lamp + Red LED  
Mid storey: Slim FL lamp + Red LED  
Low storey: Slim FL lamp



#### Observation window



#### Main specification

	Model	TAN
Temperature		+5°C-+35°C*
Humidity		60-95% R.H. (humidity controlled)*
CO gas density		~2000ppm
Light particles		150-300μmol/m <sup>2</sup> .sec*
Air speed		0.2m/s or lower (each shelf)
Exterior		Colored steel plates
Structure	Interior	Stainless perforated plates
	Isolation	Hard urethane foam
	Cooling type	Single-staged cooling (air-cooled)
Air-con	Heating type	Heater
	Humidity control type	Ultrasonic humidity device
Light source		Either 3-wave-length fluorescent lamp or LED
Electric power		AC200V, 3 phase, 50/60Hz
Accessories		Cultivation shelves, cable holes, sockets

\*Temperature range and illumination may vary according to use.

Suitable  
business  
types

University, research center

Seeds, seedling maker

Corporate R&D

Cultivation research, type improvement

Control range, light source type, monitoring items, measuring points with configuration to suit the objectives.