

"Cultivation support service" to enable cultivation of high quality vegetables

SUPER AGRI PLANT allows even those who do not have cultivation skills to enter the farming business with security. This support system is intended to offer a wide variety of support contents ranging from cultivation processes to shipping and sales.



<Standard service>

Standard cultivation manual <ul style="list-style-type: none"> Factory management <ul style="list-style-type: none"> Temperature and humidity Nutrient solution Light Quality and Quantity CO₂ concentration Airflow rate Technical management <ul style="list-style-type: none"> Sowing Raising seedlings Planting Harvesting Sales management <ul style="list-style-type: none"> Shipping Sales 	Remote environmental monitoring <ul style="list-style-type: none"> Fixed-point camera Temperature/humidity sensors Monitoring 	Introductory training
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Cultivar example



Other different vegetables can be grown. For details, contact CLEAN FARM Co.,LTD.



"SUPER AGRI PLANT" from Japan to the world
NICHIEI INTEC Group contributes the creation of a social environment that allows anybody to grow vegetables and enjoy eating them fresh anywhere at any time.

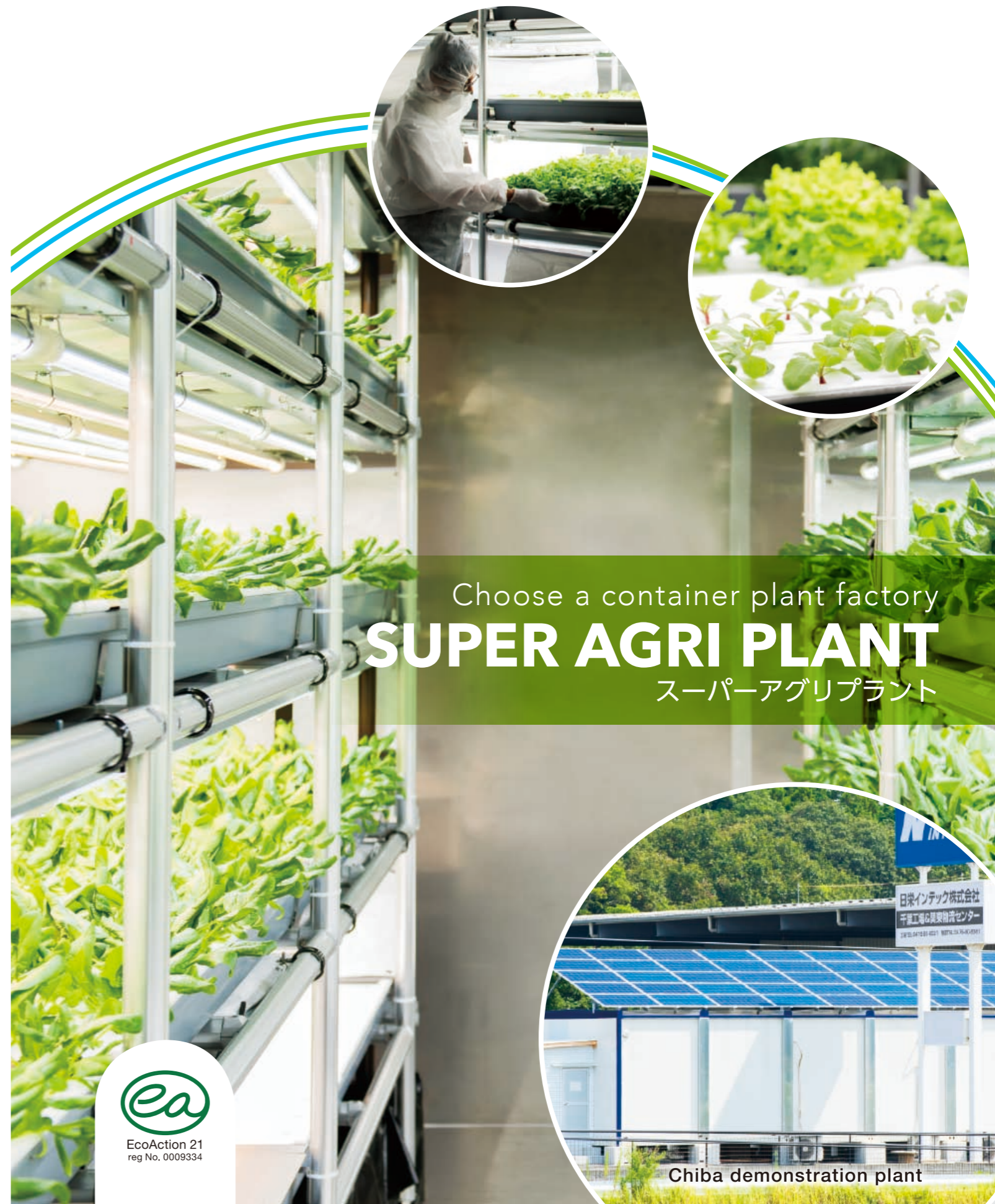
▲ The colors might be slightly different from the actual products. And Product specifications are subject to change without notice for improvement purposes.

For [Container]
NICHIEI INTEC Co., LTD.

7-57-8 Nishiogu, Arakawa-ku, TOKYO 116-0011
 TEL : 03-3894-0441
 www.nichieiintec.jp

For [Cultivation system] [Cultivation support service]
CLEAN FARM Co., LTD.

2-2-1 Midoridai, Inzai-shi, CHIBA 270-2331
 TEL : 0476-55-8106
 www.cleanfarm.co.jp



Choose a container plant factory
SUPER AGRI PLANT
 スーパーアグリプラント



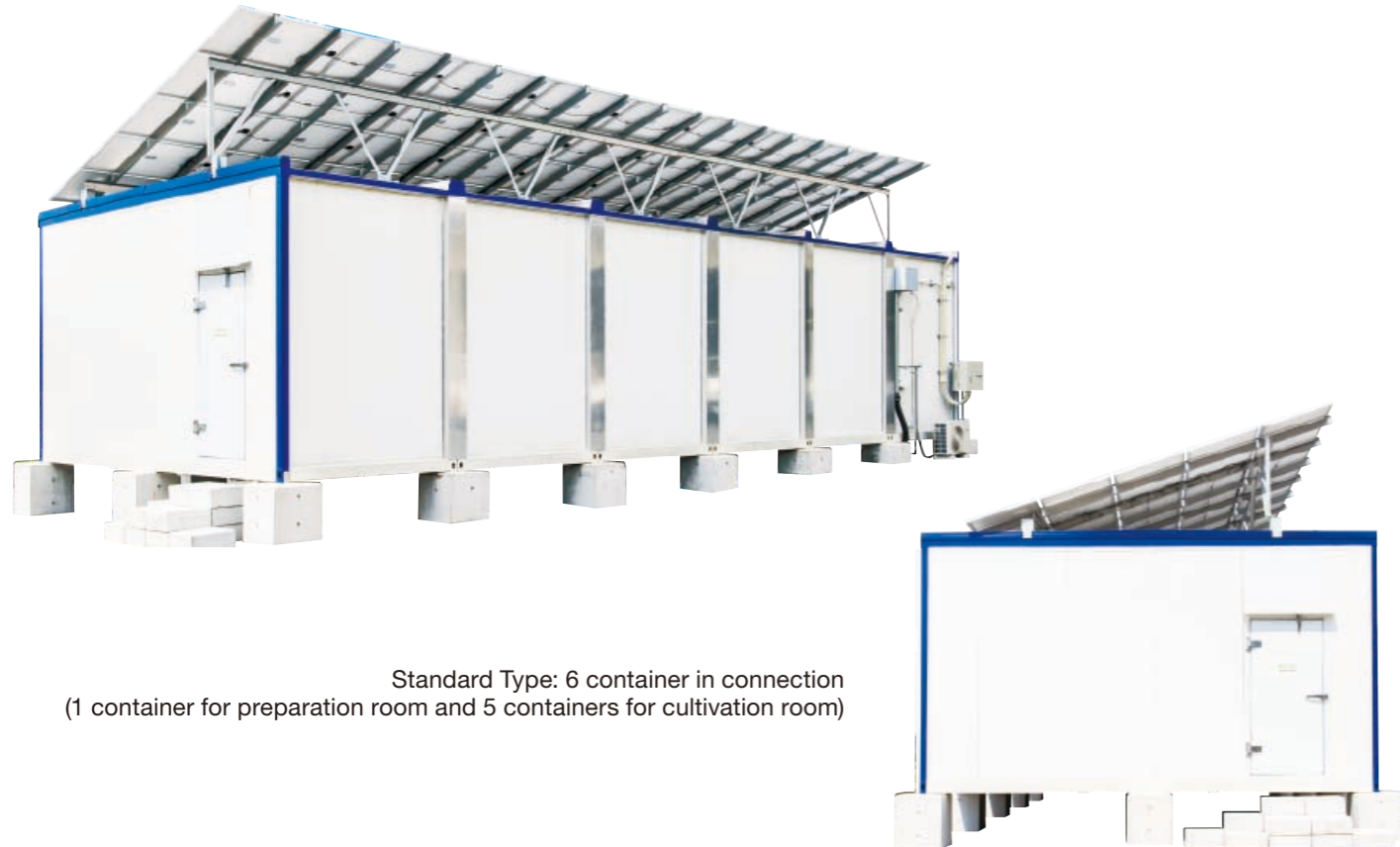
Chiba demonstration plant



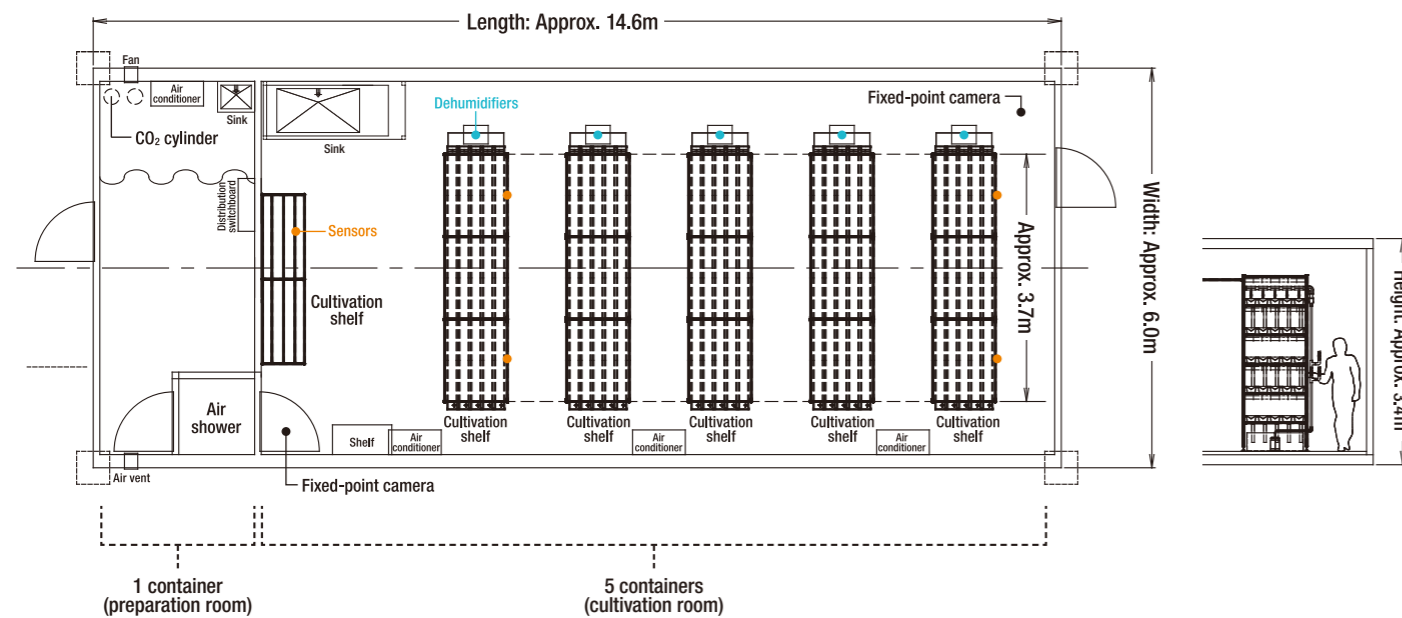
NICHIEI INTEC Group has independently developed and produced comprehensive plant factories that include containers,

LED lighting, and cultivation equipment.

Container specifically designed for plant factory



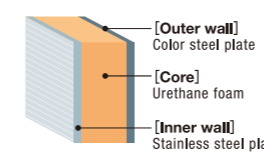
Standard Type: 6 container in connection
(1 container for preparation room and 5 containers for cultivation room)



SUPER AGRI PLANT 5points

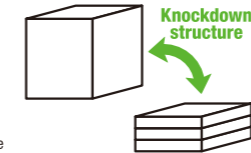


High airtightness and insulation
The container has exceptional airtightness*1 and excellent insulation*2 to counteract the influence of the external environment. This enables efficient environmental control inside the container and provides superior energy-saving performance.

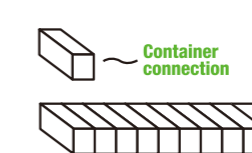


*1 An airtightness of 0.59 cm³/m². The figure is well below 2.0 cm³/m², the next-generation energy-saving criterion for airtight housing.
*2 A heat-transfer coefficient of 0.266 W/(m²·K). The figure is below 2.33 W/(m²·K), the top-quality heat insulation standard specified by JIS.

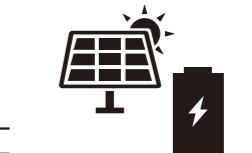
Transportation efficiency
The container is collapsible because of knockdown structure. As a result, this container achieves approximately doubled transportation efficiency compared to conventional products. This substantially reduces initial investment related to installation.



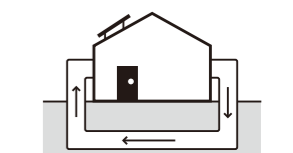
Expansion flexibility
Users can freely select the number of containers connected. This flexibility allows optimal-scale installation according to space and application. (The standard type is 6 containers in connection.)



Solar power generation + Storage battery
Solar panels mounted on the roof of the container generate energy during the daytime. The energy stored in the storage battery allows reduction in running costs.

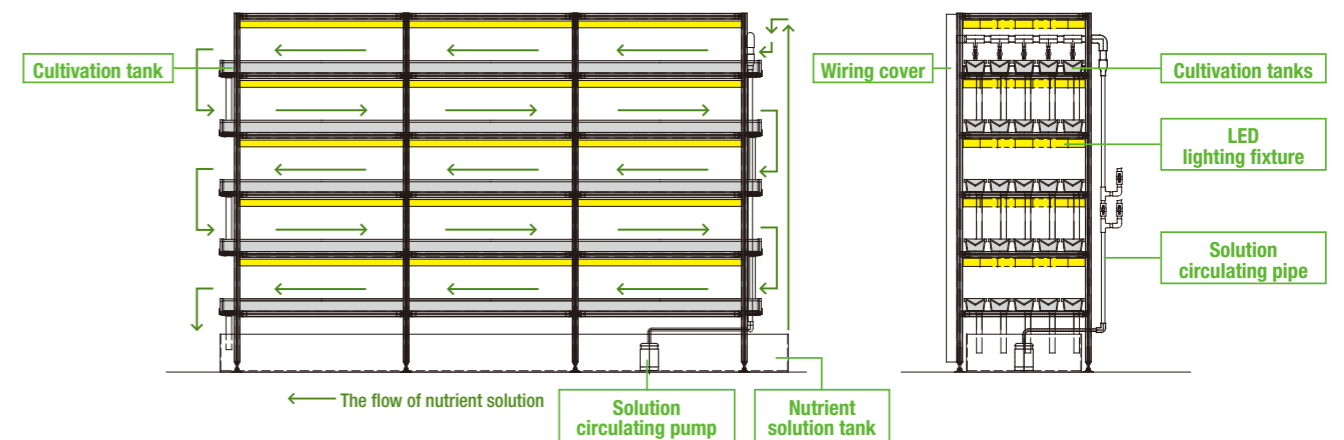


Geothermal energy utilization
The system uses geothermal energy to keep the internal environment of the container constant. This allows further reduction in running costs.



Cultivation system for growing tasty vegetables

The system enables simultaneous cultivation of various vegetables with market prices taken into account. Thus, users can produce vegetables while hedging against price fluctuations, and respond flexibly to customers' needs.



Cultivation equipment

The equipment is comprised of cultivation shelves with neat piping and wiring. The system can be flexibly expanded according to the scale. It comes standard with five cultivation tanks in each tier. Thus, the equipment provides more stable nutrient solution amount and flow rate than one-tank pool models.

Nutrient solution management

The system optimally controls the concentration of the nutrient solution by managing the EC and pH values of the solution. The cultivation shelves are provided with respective nutrient solution tanks, and these solution tanks are separately managed. The risk of nutrient solution is spread among these shelves, whereas other conventional systems under centralized control face such risks collectively.

LED lighting

The system is equipped with NICHIEI INTEC's LED lighting whose keynote white color is easy on the eyes of people working inside the container. Consideration is given to workers' health. A warmer white variant can also be selected. The hue can be changed flexibly by altering the ratio between the two white colors. This allows the user to create a tone of light according to the plant variety.

Environmental control technology

It features NICHIEI INTEC established technology for control of environmental elements such as CO₂ concentration, temperature, humidity, nutrient solution, LED light quality (color) and quantity (intensity), and airflow rate.

