HYDROPONIC VEGETABLE GROWER FOR SHIP

Fresh vegetables can be grown on board a ship.



MLC (Maritime Labour Convention)

TITLE 3. Standard A3.2 - Food and catering

2. Each Member shall ensure that ships that fly its flag meet the following minimum standards: (a) food and drinking water supplies,...,shall be suitable in respect of quantity, nutritional value, quality and variety.



Our vegetable grower can provide fresh and nutritious vegetables on board which satisfy with MLC requirements.



DESIGN & TEST SPECIFICATION

Vibration and Shock Tests

Vibration Tests Comply with IACS type approval specification	
Acceleration	±0.7G
Frequency	resonant frequencies
Test period	120 min.

Shock Tests	
Acceleration	+2 G
Pulse	30 ms
Shock time	3 times

Shake Tests





Rolling and Pitching tests at 22.5 degrees have been conducted.

Cultivation Tests



Fresh water supplied directly from ships fresh water generators.

For 30 days



Tests were conducted continuously under rolling and pitching conditions.

Negative for Colon Bacillus

Cultivation of vegetables are found to be perfect. Water quality tested by the testing authorities reported NO single Colon Bacillus was observed.

FUNCTION & SPECIFICATIONS OF GROWER

Easy operation by the touch panel! Everybody can cultivate by automation.



- Full automation except for seeding, propagation and cultivation work.
- Content of nutrients, error conditions, etc. can be checked by the screen.
- Control settings are easily made by the touch panel, on which English, Chinese & Japanese are selectable.

Trusted support service

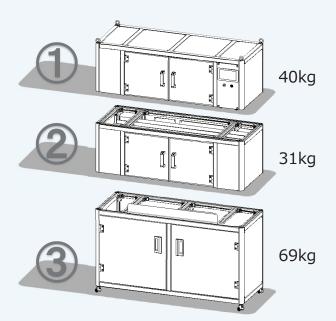




Poor growing and other cultivation troubles can be solved by data, including photos sent through USB memory.

Delivery to the ship and erection

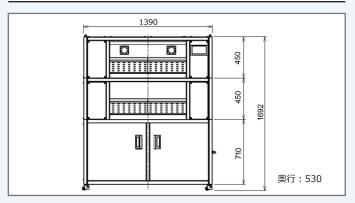
Either one assembled or 3-divided packages can be selected.



Instructions for erection of the equipment and growing vegetables are shown by the video clip.

From the day of erection of the equipment vegetables can be grown.

Model	: HST-160
Size	: W1390×D530×H1692
Weight	: 140kg(empty)/180kg(when operating)
Power Supply	: AC100V
Max. crop	: 160 root stocks on double decks
Installation Place	: Officer's saloon / Mess room



Good for seafarer's benefits and healthy life



Seeding



Propagation



Planting



Harvesting



Approximately 2 kg (66 packs) of baby leaves can be harvested.

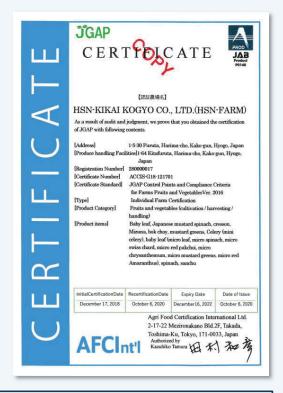
(Harvest quantity and speed may vary depending upon ambient conditions.)



We established our Agriculture Department in 2010 as a contribution to our local farming authorities using our hydroponic vegetable technologies.

GAP stands for Good Agricultural Practice, is also called as Agricultural production process control. The certification that a third-party organization examines it based on "a standard of the appropriate farm management" and is given to the farm.

Please contact us :



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