



40FT RETROFIT SHIPPING CONTAINER

GROW ROOM FOR VEG OR FLOWER

Container

Cold chain special container 40' x 8' x 8'6" (length * width * height), the inner layer is food grade stainless steel, easy to clean; The intermediate polyurethane insulation layer has an R21 heat insulation effect, which can effectively ensure the stability of the internal environment and energy conservation.

Planting Frame

Single tier (Flower) or Double Tier (VEG) racks. The frame adopts lightweight and environmentally friendly aluminum alloy profiles.

Fresh air system

It is composed of total heat exchange fresh air unit, air duct, air outlet and air inlet. The system can provide internal and external air exchange for the equipment and fresh air for the growth of Cannabis. The heat exchange function of the equipment can save energy and maintain the stability of the internal environment.

Import fan, export fan, HVAC

- ▶ **The air in the container** can be automatically ventilated within 30 minutes through the main control system.
- ▶ **When the CO2 concentration** exceeds the safe range, the air circulation system will automatically change air
- ▶ **The indoor temperature** is uniform and the temperature difference between day and night can be controlled.
- ▶ **4 ton Gree** (or other brand) HVAC

Temperature Control System

The air conditioning system is adopted to keep the ambient temperature constant.

Environmental Monitoring

The planting cabinet is equipped with integrated sensors for environment, temperature, humidity, carbon dioxide and light intensity to monitor the environmental conditions in real time, and the data will be displayed on the main control system interface in real time

Intelligent Fertilizer System

Composed of fertilizer box, metering pump and control system (the control system is integrated in the intelligent control system), it can realize quantitative and proportional fertilizer addition, water and fertilizer machine with EC and PH control

- ▶ **4 fertilizer channels** and PLC control peristaltic pump for fertilizer suction. Each fertilizer suction channel is equipped with a 10L fertilizer barrel.
- ▶ **Water tank** storage capacity of 2600kg.
- ▶ **12000l / h water pump**, one standby water pump
- ▶ **The water tank** is equipped with a water level switch, which can prevent the overflow of water and fertilizer.
- ▶ **The circulating** solution in the water tank is sterilized by the pipeline UV disinfection lamp
- ▶ **Water purity** and treatment machine.

CO2 Supply System

It is composed of air receiver, solenoid valve and control module, and cooperates with the air circulation system to automatically monitor and complete the rapid and uniform supply of carbon dioxide.

Intelligent Control System

Control all equipment in the plant factory, mainly composed of Siemens PLC control module, remote communication module, Schneider low voltage control element, touch screen, etc.

The system is set with automatic and manual modes. Under the automatic mode, unattended production can be realized, and remote monitoring and operation can be carried out.

Intelligent Light Supplement System

It is composed of special LED plant fill light and intelligent control system to provide efficient and appropriate lighting for plant growth.

Lighting

LED lights can be based on customer choice.

- ▶ **Flower** \$59,000 USD
- ▶ **Veg** \$62,000 USD

