GrowOps

TECHNOLOGIES

- Protected by patents
- 5 year warranty
- Deployed at different operational sites
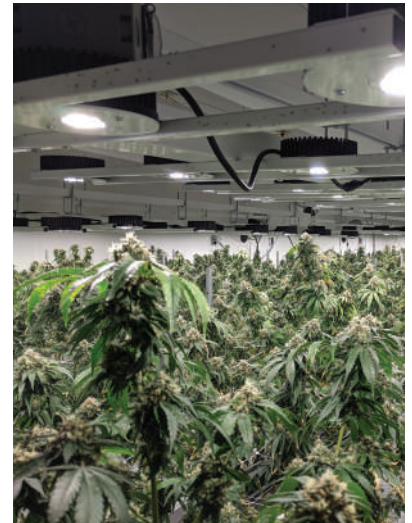
MODELS

- 20 feet
- 40 feet

GrowApp OPERATIONAL BENEFITS

- Automated systems for the control of:
    - Temperature
    - Humidity
    - Carbon dioxide
    - Moisture of the soil
    - Dissolved oxygen
    - Conductivity
    - Levels of light
    - Air quality
    - Hydroponics
    - Nutrients
    - Crop growing cycles
    - Hydroponics
    - GrowOps Support Equipment:
        - HVAC
        - Pumps
        - Ventilation
        - Flow systems
        - Energy components
- Ability to remotely manage numerous deployment sites and types of culture
- Customizable profiles for:
    - Power utilization
    - Efficiency profiles
    - Growing cycles
- CLOUD platform support
- OS support: (Apple, Windows, Linux, Android, Phone, Windows Mobile)

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EFFECT

Effective and Proven Energy Saving Technologies

LIGHT EMITTING DIODES (LED) GrowRatio

New generation LEDs have impressive capabilities that optimize the energy ratio used for production of accelerated growing cycle:

- Lights: LED
- Spectrum: 3,000K flowering
- Efficiency: 2.3 µmol/d
- PPF: 1740 µmol/s
- Input power: 75 to 750 watts adjustable via the GrowApp management portal
- Input voltage: 90 to 305 volts AC and 127 to 431 volts DC
- Mounting height: 15 to 100 cm from the canopy
- Heat management: Passive
- Dimensions (W x L x H): 150 cm x 150 cm x 8 cm
- Connectivity: rj-45 Ethernet, WiFi

GrowApp APPLICATION

The on-line GrowApp management portal provides GrowOps and large growing rooms with sophisticated Command & Control capabilities that provide great efficiencies, based on military level encryption software.

AUTONOMOUS GROW FACILITIES

The GrowApp automated control system and grow facilities, known as GrowOps adapt to all forms of crop growing. The renewable energy and storage control system is installed inside the GrowOps facility. The wind and solar hybrid components are mounted on the GrowOps container or may also be installed on ground mounted racking or on nearby buildings. Solar trackers may also be used to maximise solar energy production. The fully automated Command & Control GrowApp is unrivalled worldwide and GrowRatio LEDs are unsurpassed for the delivery of accelerated crop cycles. GrowOps facilities are also available for deployments inside large building with growing rooms up to 3,500 square feet and in multi-storeyed configurations.

FOR MORE INFORMATION, CONTACT:

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