

Growth Cabinet



DATA SHEET

Product information

Tungsräm Growth Cabinet is a hydroponic based, sophisticated unit which provides you with the freshest microgreens, leafy greens, herbs, fruits and more all year round.

The variable LED grow lights, the automatically controlled temperature, ventilation and nutrient dosing system ensures the optimal ecosystem for your plants.

Once connected to the innovative control system of our Growth Cabinet, you can remotely monitor and manage the LED grow lights and all environmental parameters to bring the best out of your cultivation. Tungsräm Growth Cabinet is the ideal choice for places like restaurants, hotels, stores that are engaged in supplying tasty, healthy, pesticide-free food for their Customers.



LED grow lights
Variable spectrum
and light intensity



Wireless control
Realtime monitoring &
control over growth
parameters



Hydroponic system
Controlled nutrient dosing



Slideable trays
Ease of access to plants



Temperature control
Adjustable between 15-25°C



Ventilation
Enhanced transpiration

Additional Features

- Plug-in cabinet - 230V / 50Hz
- Internal and external panels of galvanized steel with hardwearing white powder-coated finish
- Fully transparent double-glass doors
- Built in aggregate for environmentally friendly R290 refrigerant
- Energy efficient fans
- Power consumption: Cabinet - 450W, Lighting - 400W

Lighting Fixture Specification

Lighting in the growth cabinet is supplied by the highly efficient 4-channel Tunsgam LED VF lightbars, which provide control over the mix of wavelengths and light intensity resulting in a dynamic lighting strategy. The lightbars produce no heat and give great light uniformity.

Key Features

- High efficiency LED design, up to 3.03 $\mu\text{mol/J}$
- Variable spectrum with 4 modulable channels
- Ingress protection: IP65
- Passive cooling, remote driver
- Operating Environment: 0°C to 40°C
- L80/B50 50k h (Ta= 25 °C)
- 220-240V, 50-60Hz
- Impact resistant design made of plastic
- Regulatory approvals – CE, RoHS



Tungsgam Power Grow DALI control system

Advanced Control

- Remotely operated innovative control system options
- Real time growing recipe management:
 - ✓ Pre-defined programs
 - ✓ Timed dimming
 - ✓ Grouped control
- 0-100% dimmability on each channel ensures most versatile spectral variants and wide range of PPF density

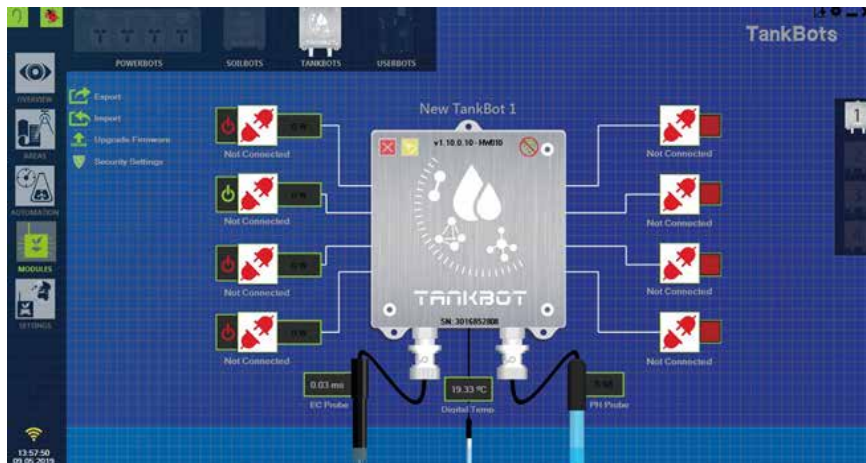
Defining Recipes



Nutrient Supply System

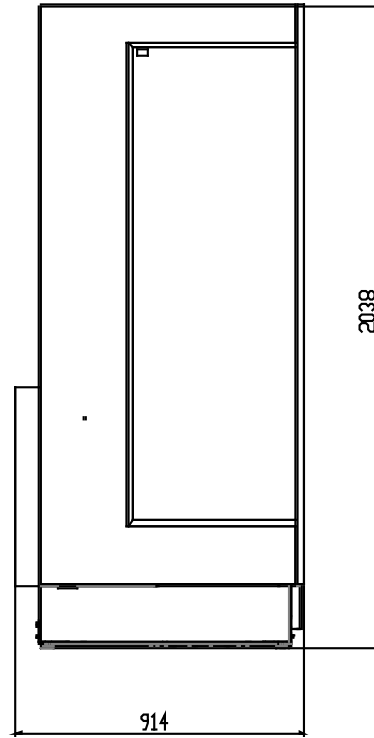
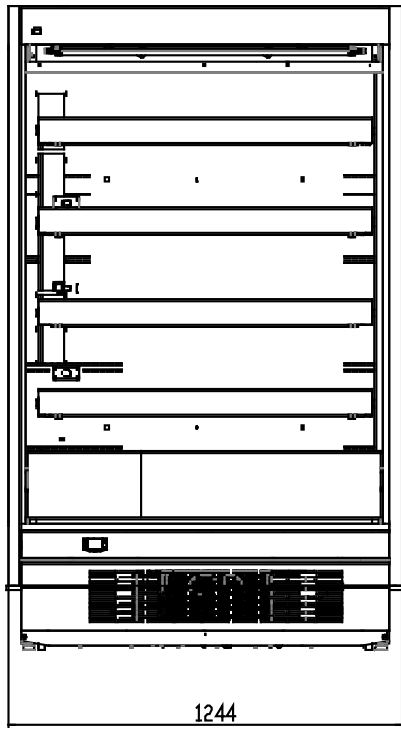
GroLab™ Hydro Kit is a powerful grow controller enables users to monitor and automatically control the climate, lighting, irrigation, pH correction, nutrients dosing, and all the tank management tasks.

This kit also provides the necessary tools to create security systems to react and/or send notification if an issue is detected. Remote control, real-time notifications, IP cameras integration are just some of the perks you get with GroLab™.



Dimensions (mm)

Growth Cabinet



Slideable trays

Number of trays: 4 pcs

Multi-hole lid - customizable

