

Tier 2 Mixed Light Indoor Greenhouses Provided by [Nexus/Prospiant of Colorado](#)
the Premier Builder in the US

\$400,000 of Upgrades to Interior/Exterior Systems made to each Building



- Custom version, (38' x 96') "Vail 420" indoor Tier II, mixed-light greenhouse with 3,044 sq. ft. flower zone. Plus 488 sq. ft. work corridor/air-plenum and custom built clean/dirty room w/UV light, (prior to entering the flower zone). Each w/600 amps of power
- 4 Quest 335 high efficiency dehumidifiers
- Custom Axeon AT in Unit reverse osmosis filtration
- A Solar Soft Max glass roof covering-corrugated polycarbonate with high-light transmittance and high-diffusion properties
- Metalside and end walls, 29 RFP rated gauge corrugated metal
- One 3' x 7' RFP steel insulated main door plus two RFP 6' x 7' insulated double doors
- End-wall gable vent with automated VC100A vent motor
- Three vertical air-flow fans by Vostermans for "through canopy" air circulation
- Two Coolair exhaust fans for below-curtain cooling plus one Coolair peak exhaust fan for above-curtain dehumidification
- Accordion insect screen over air-intake vent
- FogCo odor-mitigation system for all exhaust fan
- Thirteen 5.5' x 32' rolling benches with bench top and trough/gutter irrigation systems
- Netafrim drip system supplying six-row grow zones plus Dosatron fully automated system by H. E. Anderson Seed Controller for "crop steering"
- 1500 gallon fresh-water storage tank, (stainless steel), providing two-day capacity
- Fully automated light-deprivation system including triple-layered blackout curtain
- Ubiquitous Quantum Dots, [UbiQD](#) enhanced spectrum nano-film converts short wavelength photons (blue & UV) to longer wavelength photons (red)
- Two Lennox heaters (LF24E-300S) for temperature control in main grow zone plus one heater (LF24E-145S) for air plenum (also used for additional winter-time dehumidification)
- Fully automated cloud-based Wadsworth Environmental Controller, including the integration of all interior systems, managed from a dashboard on supplied tablet
- 65 custom LED bloom arrays, [Fluence-LED-RPTYR Series](#), 1000W of supplemental light designed specifically for hybrid indoor mixed-light greenhouses. Greater photon density leads to more carbon assimilation, which means more biomass. The RPTYR packs more photons into each footprint than any other greenhouse light on the market and is paired with a spectral distribution ideal for complimenting natural sunlight. Includes wireless control system to adjust intensity photo period and spectrum and is bundled with 'Light Harvesting' sensors that measure the natural light, rain, cloud cover/seasonal day light fluctuations. The Light Harvesting sensors can self-adjust in increments as little as 1% in real time based on the ever-changing light conditions in the canopy
- 1,144 "teens" are in place atop custom rolling benches, (the first of six bloom cycles per year)
- Automated carbogation system-CO₂ enrichment, custom built in canopy+ 2nd system for automated misting