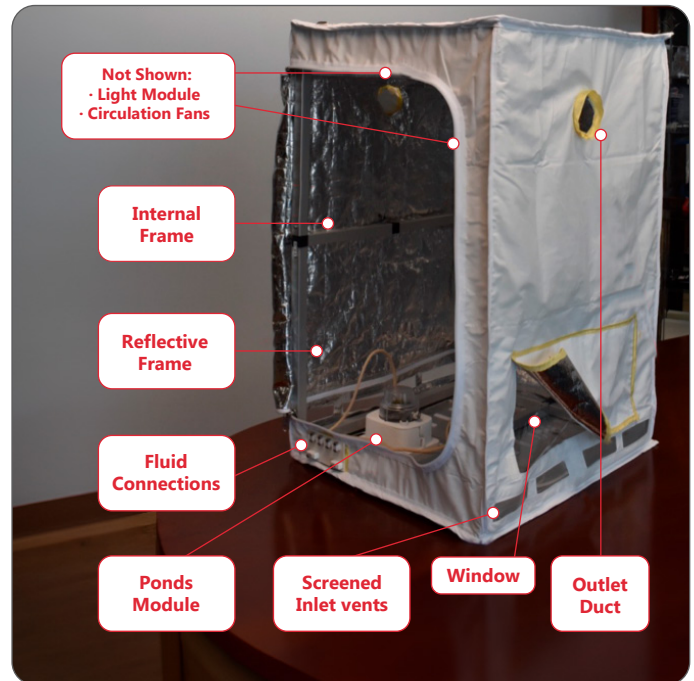




AEROSPACE TECHNOLOGY

REDWIRE GREENHOUSE PRODUCT DESCRIPTION

Redwire's Greenhouse provides a privately-owned and operated, commercial platform capable of growing plants from seed to maturity in space. Greenhouse is scalable, to enable research using larger populations of plants or simply taller plants than other on-orbit facilities, and simple enough to be disposable, thereby minimizing cost and precious on-orbit stowage volume. Plants can be rooted in already flight-qualified Passive Orbital Nutrient Delivery System (PONDS) modules, Vegetable Production System (Veggie) Plant Pillows, or other novel support hardware. Greenhouse will enable critical research for crop production in space to benefit future long-duration human spaceflight and expand opportunities for scientific discovery to improve crop production on Earth by assessing how plants respond to the novel environment of microgravity.



APPLICATIONS

- + Low Earth Orbit (LEO) missions
- + Commercial LEO Destinations

MARKETS SERVED

- + Agriculture
- + Neutraceuticals
- + Pharmaceuticals
- + Biofuels



FIND OUT MORE ABOUT REDWIRE SOLUTIONS
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PARAMETERS

- + Large 22(l) x 24(w) x 36(h)-inch growth volume (scaleable to larger sizes).
- + Independently controllable white, red, blue, and green LED populations for plant growth and observation.
- + Programmable day/night cycle.
- + Reflective interior.
- + Forced convection atmospheric exchange with the ISS habitable cabin environment.
- + Controllable circulation fans within the growth volume.
- + Windows for plant observation.
- + Water/nutrient delivery exterior bulkhead enables fluid addition without plant interference.



OTHER FEATURES

- + Design scarred for autonomous environmental monitors and cameras.
- + Disposable system eliminates the need for cleaning or decontamination between investigations.

This product is export controlled from the United States. Contact Redwire for details.



HERITAGE

Redwire is a new leader in mission critical space solutions and high reliability components for the next generation space economy. With decades of flight heritage combined with the agile and innovative culture of commercial space platform, Redwire is uniquely positioned to assist its customers in solving the complex challenges of the future space missions. For more information, please visit www.redwirespace.com



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