



INDUSTRY REPORT

Seedlings & Forestry

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THINKING GREEN: Reliable Walk-In Cold Storage Solutions for Seedlings and Forestry

Awareness surrounding reforestation efforts and urban forest initiatives has never felt more pressing.



Across the country, from local community councils to state forestry departments and at the federal level, it's unanimous that trees and forests play a crucial role in restoring ecosystems, combatting deforestation, and reducing carbon footprints across the globe.

As more and more cities think globally and act locally by expanding their urban forests to reduce their carbon footprint, these forestry efforts make even more of an impact.

But not all seedling programs are alike, so it's vital that efforts are customized to have maximum impact. Many tree species have sensitive seeds that lose viability when they're outside of their preferred temperature zone, and germinated seeds can grow prematurely or start to deteriorate with the wrong humidity level or temperature. Pests and disease infestations also pose a constant threat to fledgling trees, too.

Polar King and Polar King Mobile have recognized these challenges and addressed them through their custom-designed walk-in seed storage coolers and freezers, becoming a trusted partner in the forestry industry.



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The Unique Challenges of Seedling Storage

Seedling programs, whether for urban forestry or state reforestation initiatives, face several hurdles. The seeds of many tree species require specific storage conditions to prevent degradation. Without the right conditions, from temperature and humidity control to pest protection, these seeds may deteriorate, germinate prematurely, or lose their viability altogether. Additionally, reforestation programs in regions affected by wildfires, urbanization, and global warming depend on the successful storage and handling of these sensitive biological materials.

If the U.S. national parks prove anything, it's that geography and natural beauty differ widely – just as one tree species is different from another. Knowing this, Polar King and Polar King Mobile have worked with leading departments at some of the most recognizable parks and forests to ensure seedling programs are successful and instantly impactful.



THE FIBERGLASS ADVANTAGE

Durability and Protection



Polar King's walk-in units are built using a seamless fiberglass exterior and interior, setting them apart from traditional storage solutions. This construction provides a range of benefits that make it ideal for the unique demands of seedling storage and forestry applications.

Seamless Design for Consistent Conditions

1

The continuous fiberglass shell eliminates seams, gaps, and corners, which are often weak points in other storage systems. This prevents air leaks, rust and ensures a steady internal climate. The result is reliable temperature and humidity control, so seeds and seedlings remain in optimal conditions without fluctuation.

Durability in Harsh Environments

2

Whether placed outdoors in extreme weather conditions or in remote forestry locations, Polar King's fiberglass units are designed to withstand the elements. The rugged exterior resists wear and tear, reducing the need for maintenance while protecting the seeds and seedlings from external threats like pests, moisture intrusion, and temperature spikes. External conditions never impact internal products.

Energy Efficiency

3

Polar King's polyisocyanurate insulation, encased in fiberglass, enhances energy efficiency. By maintaining a constant temperature and preventing heat transfer, these units help reduce energy consumption, keeping operational costs low while ensuring seedlings are preserved in their ideal state.





POLAR KING WALK-IN UNIT

POLAR KING
MOBILE TRAILER

Size Matters: Ground-Resting vs. Mobile Cold Storage Solutions

As mentioned above, the size and scope of an operation can change, so it's important for forestry departments to know there are multiple cold storage solution options available to them.

Polar King designs walk-in units that are ground-resting and can be customized to exact specifications – inside and out. Show example of a Polar King walk-in unit.

Polar King Mobile units, well, the name gives it away. These walk-in trailers are designed for over-the-road use. PKM units might be smaller, but they allow for cold storage to travel places where a traditional walk-in can't go – something that could be vital for a specific program. Show example of a Polar King Mobile trailer.

Supporting National and State Forestry Departments

Polar King's fiberglass walk-in coolers have already played a pivotal role in helping state forestry departments and national forests meet their reforestation goals. These units have been used to hold tree seedlings before they are planted in various regions across the country, ensuring the trees remain viable until they are ready to be planted in the ground. Reliable storage solutions give departments confidence that their resources are protected and maintained at consistent, optimal conditions. The seamless, durable construction of these coolers ensures that every batch of seeds is held in the best possible environment before reforestation efforts take place – all with a minimal carbon footprint.

So, Why Choose Polar King for Forestry Applications?

FIBERGLASS ADVANTAGE

Seamless construction provides unmatched protection and ensures consistent environmental control.

PROVEN TRACK RECORD

State and national forestry departments already trust Polar King to safeguard their seedlings before planting.

ENERGY EFFICIENCY

Superior insulation and precise climate control reduce energy consumption while maintaining optimal storage conditions.

DURABILITY

Rugged enough for outdoor placement in extreme environments, protecting seedlings from pests, weather, and fluctuations in temperature.

For forestry departments and reforestation programs, Polar King and Polar King Mobile walk-in coolers offer the perfect solution to maintain seed viability and ensure the success of planting initiatives.



Want to Explore Cold Storage Options For Seedlings and Forestry?

Contact Christian Aitken, executive vice president of Polar King Mobile, at (866) 260-4686 or christian.aitken@polarking.com. A mobile refrigeration expert, Christian has worked extensively with forestry departments across the country.

LEARN MORE

polarking.com/custom-applications/seedling-and-forestry

ABOUT POLAR KING INTERNATIONAL

The introduction of the Polar King outdoor walk-in freezer into the food service industry was the result of three generations of walk-in refrigeration technology and experience. Polar King's fiberglass, one-piece walk-in cooler is the natural evolution of the walk-in cold storage industry from the conventional metal panel constructed unit. In early 1982, Polar King began operations by constructing and shipping walk-ins from a modest 12,000 sq. ft. facility in New Haven, Indiana. As demand grew for outdoor fiberglass commercial walk-in coolers and commercial walk-in freezers, production was moved to a 251,200 sq. ft. facility located in Fort Wayne, Indiana. For 40 years, Polar King has provided thousands of walk-ins to single-unit operators, chain restaurants, schools, health care facilities, government agencies, and many other industries requiring dependable outdoor walk-in refrigeration.

CONTACT POLAR KING

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ABOUT POLAR KING MOBILE

Polar King Mobile was founded in 2020 to provide North America with the first affordable, small, refrigerated trailer solution. The company's refrigerated and freezer trailers, engineered specifically for outdoor and over-the-road use, feature a 100% seamless fiberglass design with a continuous surface. Polar King Mobile trailers are used by single-unit operators, chain restaurants, schools, health care facilities, government agencies and many others requiring dependable outdoor refrigeration.

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