

Improved Plant Growth & 26% Savings on Heating



Benefits

6 month ROI

26% reduction in energy costs

Significant reduction in CO₂ emissions

Significantly improved comfort

Improved plant growth rate



"The Airius System reduced our energy costs by 26% and paid for itself in one winter season."

Kelly Grummons
Chief Horticulturalist

Overview

Client

Timberline Gardens was an independent, 10 acre garden centre supplying over 2,400 species of plants and perennials. Including both indoor and outdoor growing facilities, award winning Timberline Gardens operated for nearly 20 years, helping owner and Director Kelly Grummons achieve 'Nursery & Greenhouse Association Person of the Year' in both 1992 and 2002.

Challenge

During the cold winter season heat was rising and being lost through the greenhouse rooves, resulting in excessively high heating costs. Plant growth was stunted due to the difficulty in maintaining optimal growing conditions at plant level. Customers and staff also found conditions uncomfortably cold, negatively impacting browsing time and productivity.

Solution

In order to prevent the rising warm air from being lost, the centre installed Airius' Standard Series destratification fans throughout their greenhouses. The results were immediate, improving thermal comfort significantly the moment the units were turned on. Airflow circulation was improved, eliminating previously unproductive planting areas and increasing winter plant growth. The ability to maintain consistent thermal conditions also improved blooming by 25%, whilst reducing energy costs for heating by 26%, resulting in an ROI of only 6 months.