

# GREENHOUSE SOLUTIONS FOR PRODUCE



**PROSPERANT**  
GREENHOUSES

# END TO END GREENHOUSE SOLUTIONS,

## THE POWER BEHIND PROSPIANT

Your business is unique, and so are your greenhouse needs. At Prospiant, we get it. We offer a diverse range of products and services, including every type of greenhouse structure available on the market. With such extensive capabilities, we're confident we can provide you with the perfect solution.

But we don't just stop at the breadth of our offerings. We go beyond, customizing your greenhouse project to fit your specific needs. Prospiant doesn't just sell greenhouses. Our team of experts work closely with you from brown field to your complete turn-key facility, ensuring the absolute best performance and maximization of your return on investment.

**EXPERTISE YOU CAN TRUST, CAPABILITIES YOU CAN COUNT ON**

### DESIGN

- ✓ Design and Consultation Services
- ✓ In-house engineering for all disciplines
- ✓ Value Engineering

### BUILD

- ✓ Engineering
- ✓ Structure, Glazing, and Screening
- ✓ Site Development

# UNDER ONE ROOF



## INTEGRATE

- ✓ Climate Control Systems
- ✓ Automation and Growing Systems
- ✓ Heating and Cooling Systems
- ✓ Irrigation and Sterilization Solutions



## OPERATE

- ✓ Operations and Maintenance
- ✓ Ongoing Support, Training, and Education

# DESIGN/BUILD SOLUTIONS

What you plan to grow and where your greenhouse is located will dictate your needs—from greenhouse type, growing systems, and integrated solutions.

Environment, temperature, and light levels are key factors in the success of your produce cultivation. Different types of plants—vegetables and flowers—require specific growing environments to thrive. For produce growers, the height of the greenhouse structure plays an important role.

As greenhouses are designed with low insulation factor materials to achieve better light transmission, the outside climate directly impacts the interior of the greenhouse. Extreme temperature changes can lead to stunted growth and reduced fruiting for your plants. To protect the crop, you need a taller greenhouse with an air buffer and climate screens.

The air buffer reduces temperature fluctuations in your greenhouse at the plant and fruit level. The airspace provides a buffer as well as transpiration effectiveness to make air circulation possible, thereby creating an optimal growing environment for your crop.



# GET TO KNOW THE VENLO

- ✓ Prospiant has built more than 1,700 acres of our modified Dutch glasshouse style of greenhouse, equipped with traditional Venlo venting.
- ✓ Venlo-style greenhouses are known for their glass roofs, high ceilings, and venting options. They offer:
  - Maximum light transmission at a lower cost per square foot compared to other glasshouses

- Energy efficiency due to shallow peaks
- Interior trusses for mounting screen systems, suspending growing systems, and other equipment like supplemental lighting and air flow fans. High gutter heights buffer exterior temperature and humidity fluctuations

Prospiant can customize your venting style to optimize your crop environment and capabilities—with continuous, double continuous, and open roof options.

A greenhouse maintains its environment through effective air exchange using exhaust fans—installed at both the crop level and above screening systems—and through cost-efficient evaporative cooling systems.

In our greenhouse environment, the conditioned air within the space is recirculated and tempered to the model temperature and humidity levels as opposed to constantly conditioning outside air.



# SYSTEMS AND EQUIPMENT

Our in-house design and engineering experts consider factors such as crop, location, climate, production needs, and growing style to recommend an integrated greenhouse design to suit your unique needs. By seamlessly integrating automated systems, we enhance control and efficiency to help you optimize your climate, produce high-quality crops, and maximize your throughput and profits.

## Environmental Control

The climate control system is the most important energy-saving tool in your greenhouse. It not only monitors and adjusts the growing conditions, but also ensures all integrated systems work together effectively to help you consistently maximize your production.

## Heating and Cooling

With today's higher energy costs, you need to maximize heating and cooling efficiency. Temperature influences plant growth and development, making it a valuable production tool to manipulate for crop steering.

- Radiant heating
- Hot water/hydronic heating
- CO<sub>2</sub> Recovery and distribution
- Climate corridor with mechanical heating and cooling
- High-pressure fogging

## Water Management

Effective irrigation and water management streamlines your operating costs, saves water, and boosts crop quality and yield. When selecting a watering system, it's important to match the delivery method to the needs of your plants and consider the potential impact on the greenhouse environment.

- Water recycling
- Prefiltration
- Water storage
- Fertigation
- Water Treatment (ozone, UV, pasteurizing, and filtration)

## Benching

A well-designed benching layout allows you to get the most out of your available space, resulting in increased productivity per square foot. Benching reduces the physical strain on workers and reduces the labor required for moving plants. It also facilitates better air circulation to improve plant health, particularly at the root zone.

- Rolling
- Stationary
- Palletized
- Flood trays
- Porous plastic
- And more

## Curtains

Curtain systems boost greenhouse efficiency by providing additional insulation with energy-saving screens. They assist with climate management and help facilitate light regulation and distribution to support healthy crop growth.





### Growing Gutters

Industry-standard growing gutters ensure equal lighting, spacing, and drip irrigation for crops. We make them on-site from high-quality coated steel to the design required by the growing medium, crop, and section span. These gutters support CO<sub>2</sub> dosing hoses, irrigation drip lines, and heating pipes. Growers can customize them with external or internal leachate systems.

### Supplemental Lighting

We design our systems to provide the levels of photosynthetically active radiation (PAR) to obtain the daily light integral (DLI) for your plants. We base our light plans on mounting style, light level requested, and power available to maintain uniformity. By carefully analyzing the grow space, we can create a balanced and economical lighting solution to grow healthy plants with consistent yields.

- LED lighting
- HPS lighting



### Insect Screening

Minimizing insects inside a greenhouse is essential for all growing practices. Select the correct netting to effectively keep crop-specific pests out and with consideration for maximization of venting capacity.



# WE DESIGN, MANUFACTURE, AND BUILD GREENHOUSES

Contact us to purchase

(513) 242-0310

[sales@prospiant.com](mailto:sales@prospiant.com)

[www.prospiant.com](http://www.prospiant.com)



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IN CANADA & UNITED STATES

**PROSP**PIANT  
GREENHOUSES