

# MICHIGAN GREENHOUSE COMPANY

ENDLESS  
IDEAS FOR  
EVERY  
GARDENER

Sales tax not included  
shipping not included  
in prices

High Wind and  
Snow Loads

Heating and  
Cooling Your  
Greenhouse

PLUS Expert  
Growing Tips and  
Design Ideas





**6 QUESTIONS BEFORE YOU BUY**

Answers to the questions every gardener should ask before you install.

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Our most popular models that can save you up to 20%.

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**GREENHOUSE MODELS**

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**7 DESIGN IDEAS TO MAXIMIZE A HOME-ATTACHED GREENHOUSE**

Read why it becomes the most loved room in your home.

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**COMMERCIAL GREENHOUSES**

Not your typical hoop houses, these commercial greenhouses last forever.

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# Cross Country Greenhouses – The gardener’s choice since 1951



**Since 1951**, our company's mission is to build the best hobby greenhouse. This single-minded focus means pushing the boundaries of quality craftsmanship and great service every day. Our modular greenhouses are North American made and built to outperform and outlast the competition.

**ANY SIZE, ANY COLOR.  
BUILT TO SUIT YOUR NEEDS.  
MODIFICATIONS WELCOME!**



Our customers inherited a 6x8 Traditional greenhouse manufactured in 1983. It was moved to their home in 1993 and they use it every day. Photo taken in summer 2019.



# 6 questions before you buy



Cross Country Greenhouses carries 7 product series within the brand: **Pacific, Traditional, Cottage, Cape Cod**, and limited edition models **The Parkside, Sunhaven** and **Legacy**.

## 1 What will you grow in your greenhouse?

Your climate and your ideal crop will affect the type of greenhouse and glazing (type of covering) that is right for you. Anything is possible with the right combination of glazing and supplemental heating/cooling.

## 2 Which style of greenhouse best suits you?

Thinking freestanding or home-attached? Freestanding allows you to maximize sunlight exposure. Home-attached offers convenient access to services and potential heat gain from the attached wall.

## 3 What is the difference between polycarbonate and glass?

To simplify, it comes down to "form

versus function". Glass is beautiful and offers full light transmission which is important for some gardeners. Polycarbonate is ideal for growing with built in shading and energy efficiency. Polycarbonate is also maintenance free and virtually unbreakable. Tempered glass will last a lifetime. Mix and match to get the best out of your greenhouse!

## 4 What size is best?

In most cases, size is dictated by your yard. We build any size and can easily modify it to fit your space. Our designs are modular and built in two foot increments. We also offer a series of value models such as 8x12 and 12x16 which are popular sizes with customers and offer extra savings.

***See pages 8 and 9 for more details.***

## 5 Do I need a permit?

Generally, a structure less than 110 square feet does not require a permit. For larger greenhouses, we do recommend a quick call to your local planning office. We are able to provide engineered drawings, stamped in any state or province if required by your municipal planning office.

## 6 Do I need a foundation?

Yes, a pressure treated wood frame or concrete is most common. All foundations must be level and square for easy installation.

***See pages 40 and 41 for details on greenhouse foundations.***



# High winds and snow?

Engineered for a minimum **85 mile per hour winds** and **32 pounds per square foot** for snow.

We offer a unique service to upgrade the greenhouse to sustain higher loads if necessary and can **increase snow loads to over 100 psf and wind loads to meet 140 mph winds** which is equal to a category 1 hurricane.

You may be wondering how much snow equals 32 pounds? Generally, about two to three feet of medium pack snow. When thinking about snow loads on a roof, take the depth of snow in feet and multiply it by the weight of a cubic foot of snow.



If the snow weighs 10 pounds per cubic foot and there are 1.5 feet on the roof, each square foot of the roof is getting 15 pounds of pressure. If the snow has a high moisture content or is mixed with ice, the weight load increases. Adding a little heat to the greenhouse when you know a big snow storm is coming is always a good idea.

How do we increase loads? It is increased by adding additional bracing and trusses and increasing the size of our horizontal braces and roof purlins when necessary. The typical solar automatic roof vent can be replaced with an upgraded wind resistant vent or removed altogether if your local wind loads are too high. Alternate ventilation options will be recommended by our team.

The greenhouse wind-load upgrades can be engineered with the



specifications of your municipality. If a permit is required, we partner with engineer firms who can supply sealed drawings with the acceptable guidelines. In many cases, the loads can be increased with some extra supports if a permit is not required.

# Thinking of a small greenhouse?

Our 8x8 value models **The Legacy** and **Sunhaven** are a great choice for limited space. It's incredible how much you can grow in 64 square feet by utilizing the interior bolt track system that hangs baskets or shelves anywhere!

## INSTALLING THE GREENHOUSE ON A RAISED FOUNDATION

A door drop is a custom modification that lowers the greenhouse door to be flush with the ground when you have a raised foundation wall. Let us know the total height of the foundation and we will place an order for a custom piece of glass to install above the door for a perfect fit!

### THE LEGACY



EACH ROOF BAR CAN HANDLE A 50 POUND HANGING BASKET

**\$3,195**

Single Glass Walls, Twinwall Roof, Rideau Brown Only

### SUNHAVEN



NEW! NOW OFFERED IN STRAIGHT EAVE. PERFECT ENTRY GREENHOUSE FOR GROWING FOOD.

**\$2,995**

Twinwall Polycarbonate, White, Green, or Rideau Brown



# THE PARKSIDE

Black 8x10 aluminum frame with decorative ridge cresting, base panels and our steepest roof creates a beautiful English greenhouse look. The decorative base panels eliminate the need for a foundation knee wall plus they hide unsightly soil bags and pots too.

8x10: \$7,295





# Choose your **size, color** and **glazing** and **save up to 20%** too!

**FEATURED SINGLE GLASS OR TWINWALL POLYCARBONATE GLAZING**

**NEW FOR STRAIGHT EAVE GREENHOUSES:**

Now choose white, green or brown frame for the same price. Even better, choose the glazing you want with any of our straight eave greenhouse value models. Pick **single tempered glass** or **twinwall polycarbonate** or a mix of both.



TRADITIONAL SERIES SINGLE GLASS		
SIZE	DIMENSIONS (w x l x h)	PRICE
8'x12'	8' 7 1/2" x 12' 8 1/2" x 7' 8 1/4"	\$5,710
12'x16'	12' 8 1/2" x 16' 9 1/2" x 8' 6 3/4"	\$10,210
16'x20'	16' 9 1/2" x 20' 10 1/2" x 9' 5 1/4"	\$13,945

COTTAGE SERIES SINGLE GLASS		
SIZE	DIMENSIONS (w x l x h)	PRICE
8'x12'	8' 7 1/2" x 12' 8 1/2" x 8' 11 3/16"	\$6,335
12'x16'	12' 8 1/2" x 16' 9 1/2" x 10' 4 1/2"	\$11,035
16'x20'	16' 9 1/2" x 20' 10 1/2" x 11' 9 7/8"	\$16,265



CAPE COD SERIES SINGLE GLASS		
SIZE	DIMENSIONS (w x l x h)	PRICE
8'x12'	8' 7 1/2" x 12' 8 1/2" x 10' 2 1/8"	\$6,995
12'x16'	12' 8 1/2" x 16' 9 1/2" x 12' 2 1/2"	\$12,380
16'x20'	16' 9 1/2" x 20' 10 1/2" x 14' 2 3/4"	\$19,345

Check out page 43-45 for more greenhouse pricing.



**FEATURED FIVEWALL POLYCARBONATE GLAZING**

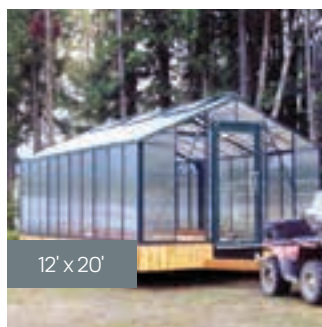
**FOR COLD CLIMATES AND HOT HOUSES**

**Traditional Series fivewall polycarbonate** is the most energy efficient glazing available. Great for cold climates and specialty plants or for those wanting to reduce long term heating costs. Three size options available.



8' x 12'

SIZE	DIMENSIONS (w x l x h)	PRICE
8'x12'	8' 7 1/2" x 12' 8 1/2" x 7' 8 1/4"	<b>\$8,150</b>
12'x20'	12' 8 1/2" x 20' 10 1/2" x 8' 6 3/4"	<b>\$17,510</b>
20'x40'	20' 10 1/2" x 41' 3 1/2" x 10' 3 3/4"	<b>\$40,830</b>



12' x 20'



20' x 40'

**FEATURED PACIFIC TWINWALL POLYCARBONATE GLAZING**

**BEST PRICE PER SQUARE FOOT!**

Our curved **Pacific twinwall polycarbonate** is ideal for gardeners on a budget.

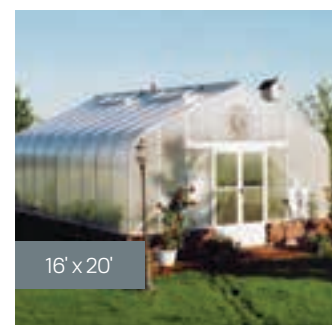


8' x 12'

SIZE	DIMENSIONS (w x l x h)	PRICE
8'x12'	8' 3 1/4" x 12' 5 3/4" x 7' 7 5/8"	<b>\$4,835</b>
12'x16'	12' 4 1/4" x 16' 6 3/4" x 8' 6 1/8"	<b>\$8,935</b>
16'x20'	16' 5 1/4" x 20' 7 3/4" x 9' 4 5/8"	<b>\$12,995</b>



12' x 16'



16' x 20'



# STYLE INSPIRATION











12X20 SINGLE GLASS BASE PRICE: \$15,220



# Cape Cod Greenhouses

Featured in many national magazines, the **Cape Cod series greenhouse** is a showstopper. The high design adds refinement to any landscape. The additional ridge height is perfect for small trees and hanging baskets plus snow simply slides off the roof due to the steep pitch.



8X12 TWINWALL BASE PRICE: \$6,995

Many customers incorporate hot tubs and water features into this design.







6X8 SINGLE GLASS BASE PRICE \$4,720

A circulating fan is necessary in every greenhouse. It will help to maintain an even temperature by moving hot and cold air pockets and also help with the pollination of your plants. Did you know it also helps with pest and condensation control? Make sure your fan is rated for indoor/outdoor use.



20 X 40 SINGLE GLASS GREENHOUSE BASE PRICE \$36,545



# Traditional Greenhouses

Our most popular greenhouse design since the 1950's, the **Traditional series greenhouse** is a great choice for gardeners that are looking for higher energy efficiency.



8X12 FIVEWALL POLYCARBONATE GREENHOUSE BASE PRICE: \$8,150

The lower 23 degree pitch roof simply means there is less air volume to heat. Think about mixing and matching the glazing to optimize your environment – polycarbonate in the roof is great for energy efficiency and shading too.



# Cottage Greenhouses

The **Cottage series greenhouse** is a great choice for homeowners wanting to incorporate the greenhouse into their landscape as it matches common roof styles and architectural design. The mid-range roof pitch is a great option for those needing some snow shedding and additional headroom.



12X20 SINGLE GLASS BASE PRICE: \$12,450



All doors and vents are manufactured with weather stripping to maximize energy efficiency.



16X20 TWINWALL BASE PRICE: \$16,265





# Pacific Greenhouses

Our **Pacific series greenhouse** features our elegant curved roof. A stylish look that offers a classic aesthetic, the Pacific series is available in single tempered glass, twinwall polycarbonate and insulated double glass.



Twinwall polycarbonate is a great option for a working greenhouse with built in shading and energy efficiency! Each glass greenhouse incorporates genuine bent glass ensuring a long lasting, authentic look when compared to plastic. Tinting and other high performance glass options available.

## WILL THE TWINWALL POLYCARBONATE YELLOW OVER TIME?

No, it has a UV inhibitor manufactured into the outside layer to prevent yellowing. In terms of sun degradation, it won't degrade its visible light transmission by more than 6% over 10 years.



The Pacific glass greenhouse incorporates genuine bent glass to achieve a classic design.



16X20 SINGLE GLASS BASE PRICE \$18,525



# It's All in the Design

Small touches make a big impact. Your greenhouse will become the place to enjoy the outdoors and there are many decorative options available to achieve your design inspiration. Here are some options:



## Decorative Ridge Cresting

Heavy duty cast aluminum creasting and finials gives a beautiful English look.

## Decorative Facades

Transoms, wagon wheels or fanlights are fantastic ways to dress up your greenhouse.



## Glass Louvres

Add stylish glass louvres or casement windows for extra ventilation and a healthy cross breeze.

**FOR HIGH STYLE,  
CONSIDER ADDING  
A VESTIBULE FOR A  
CLASSIC VICTORIAN  
DESIGN FEATURE**







THE PROVIDENCE 10X12 BASE PRICE \$25,913



### Decorative Pressure Cap

A wider profile aluminum pressure cap placed over our standard framing system. The decorative pressure cap conceals exterior fasteners creating a clean look.



### Victorian Decorative Gutter

Our Victorian decorative gutter is both functional and stylish with downspouts, end caps and can be placed anywhere. Available as single or double stacked.



# Dreaming of a greenhouse?

The sky is the limit. Let's get started on your gorgeous garden getaway today!

CAPE COD 12X26 SINGLE GLASS BASE PRICE: \$18,785





CUSTOM 10X16 DOUBLE GLASS  
BASE PRICE: \$28,265

What do you wish for? When you daydream about your perfect greenhouse, what do you see? Perhaps you live in a snowy climate and would like a breezeway to connect the greenhouse to your home? Maybe your dream has been held up by an unusual footprint that requires fittings around a tight space or steps in the foundation due to a sloped, rocky yard? Our specialty is customizing the greenhouse to your needs.

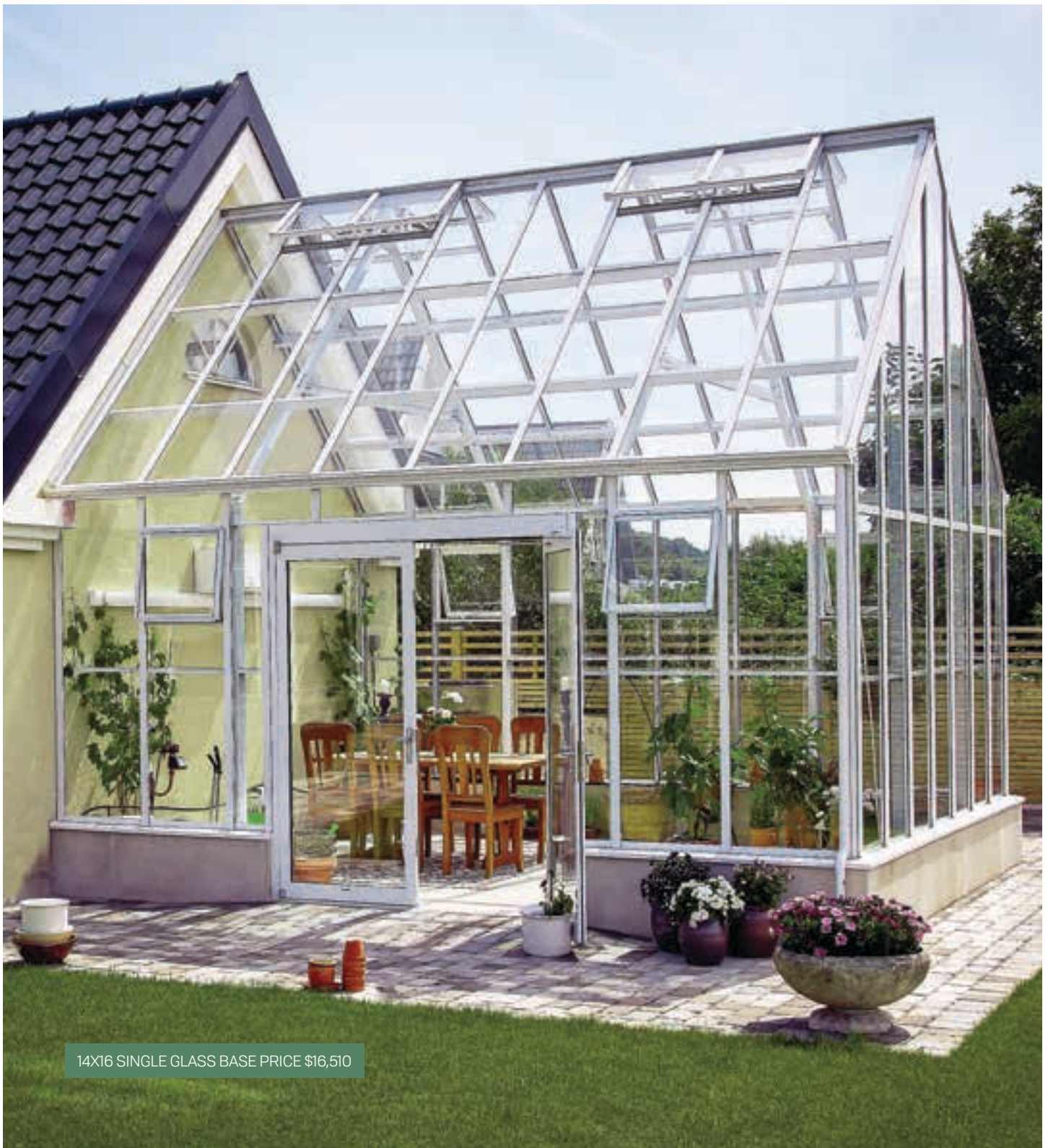
Here are some of the most common custom requests for a greenhouse build:

- › Decorative options: ridge cresting, gutter, pressure cap or wagon wheel
- › Changing width, length or slope
- › Adding louvres or vents or motorized venting systems
- › Upgrades including 6mm single glass, high performance Low E, tinted glass or polycarbonate
- › Adding, upgrading or modifying a door or a window
- › Lowering sidewalls or removing a door or wall
- › Adding a partition wall for different growing zones, jogs around a sloped foundation, custom openings, a vestibule or a breezeway



CUSTOM 20X24 DOUBLE GLASS BASE PRICE: \$48,480





14X16 SINGLE GLASS BASE PRICE \$16,510

A home-attached greenhouse is a great opportunity to create usable living and growing space. Request our full **Home-Attached Greenhouse Guide** for more information on planning your lean-to or gable attached greenhouse today!



# Make Yourself Comfortable

Create an outdoor space that invites you to stay. Here are **7 design ideas** to maximize your **home-attached greenhouse**.

Forget an expensive home addition. A home-attached greenhouse can be your answer to extra living and growing space for less than half the cost. While considered a three season space in cooler climates, there are many benefits to adding more light to your home.



## 1 Bring the outdoors in

An extension of your kitchen or additional dining area is perfect for easy access to the healthy herbs, fruits and vegetables that you will grow. Root vegetables like beets, carrots and potatoes as well as winter lettuces are possible in the colder months of the year too.

## 2 On a winter's day

Think of your attached greenhouse as an extension of your garden. Wintering over your tender plants has never been easier.

## 3 Grand designs

Customize the slope to match your roof line to make it appear that it was

part of the original build. Send in a paint chip to match the frame color to the trim on your home. Add extra doors for ease of access to various points of entry.

## 4 House of the rising sun

This sun filled space becomes the most loved room in the home as people naturally gravitate to light. Make it work for you and take advantage of solar gain especially with a south facing greenhouse.

## 5 Splish splash

Easy access to water can make life with your greenhouse much more convenient. Even better – a water feature is a great idea too.

## 6 Rock of ages

When attaching a greenhouse to your home, a concrete foundation is strongly recommended to prevent shifting from frost heaves. Stamped concrete with a decorative grate for drainage is a beautiful interior floor option. Finish the exterior of the foundation to match the bottom portion of your home for a seamless look.

## 7 No air

Ventilation and air circulation greatly improve a comfortable space. Extra venting, louvres and quiet fans will create a perfect space for years to come. In colder months, a fireplace or woodstove can create a cozy nook to enjoy the outdoors in a protected area.



# DESIGN & INSPIRATION

















COMMERCIAL GREENHOUSES





# Commercial Greenhouses

Whether you're building a greenhouse for a school, a community group or a retail environment, we have the team and the talent to complete your **commercial greenhouse project** on time and on budget.

## We're Maintenance-Free

Our greenhouses require no material replacements or upgrades needed down the line. The only maintenance required is a simple cleaning and disinfecting once a year. No rust, no moisture, no problem.

## Shorter Installation Time

The installation process is simple and takes half the time of a typical steel structure. With the pre-fabricated product, there will be nothing to chop down, adjust or cut.






## High Wind and Snow Loads

Do you require increased structural loads to meet building codes? Our aluminum greenhouses withstand 85 mph winds and 32 psf for snow. We can easily upgrade our structure to meet up to 140 mph winds and 100 psf for snow.

**We provide the full spectrum of benefits available in greenhouse design today.**



## SOME OF THE FINER DETAILS:

-  **Aluminum:** Alloy and temper framework is 6063-T5 or T6 for extrusions and 209 for sheet/plates.
-  **Paint:** Typical finish and trim is semi-gloss baked on Duracron enamel finish to comply with AMMA 2603 specification. Other coatings are available.
-  **Gaskets:** Poly Vinyl Chloride 15 lb density double sided adhesive gasket.
-  **Extrusions:** The glazing bars are proprietary solid extrusions that incorporate internal and external weep channels to direct moisture to the exterior of the greenhouse.
-  **Fasteners:** Non-magnetic, non-corrosive stainless steel compatible with aluminum.
-  **Venting:** Every greenhouse is built with individual 20" x 48" solar automatic roof vents for ventilation. Continuous larger roof venting available.



The ultimate in elegance and luxury. Enjoy our bespoke glasshouses with superb craftsmanship that offer a classic aesthetic.



Thermally upgraded, the framing system allows for enjoyment in every season. For those wanting a more formal look, the storm proof construction will allow for a beautiful living and growing space whatever the elements might be.

Great care is taken to create a finished appearance providing a clean, high style effect without the look of exposed hardware. This collection affords the choice of any glazing option including high performance, tinted and laminated glass.

Our talented design team uses the latest technology in CAD and 3D rendering to push the boundaries and create the ideal building to suit your lifestyle.







Create the perfect space  
for something extraordinary.





Endless design options with great spans of glass and high style.

This is luxury in natural splendor.





# Meridian Estate Greenhouses

## DESIGN ELEMENTS

- Bespoke greenhouse design options to match any landscape
- Vestibule, portico, canopy, and breezeways are ideal additions
- Decorative gutter, cresting, transoms, wagon wheels, and ornate finials available
- Limited exposed fasteners providing a clean, high style effect

## IDEAL CLIMATE CONTROL

- Thermally ideal system complimented with environmental control systems for any season
- Weatherproof design for improved cold temperature flexibility
- Motorized roof ventilation creates the optimum balance of living / growing space

## EXTRAORDINARY QUALITY AND STRENGTH

- Engineered structures that comply with wind and snow loads in all states and provinces
- Heavy duty tubular frame affords the flexibility of any design, in any climate
- All finishes and trim is semi-gloss baked on Duracron enamel finish in any color
- Project supervision or complete installation available with every project











# Creating a Controlled Environment

Your new greenhouse provides what every gardener dreams of – the setting for a controlled growing environment away from weather, pests, frost, wind and snow.

When offering heating and cooling suggestions, we ask our customers three things:

- 1) Where will the greenhouse be located?
- 2) What do you want to grow?
- 3) How many seasons do you want to use the greenhouse?

The first step is to answer these questions to create an environment that will work for you. The next step is choosing the best glazing to achieve your goals most efficiently whether that means a cool, warm or hot greenhouse.

## Tips to maintain heat in the greenhouse:

**In the colder months** – heat only what you need. An energy curtain across the bench will keep the lower half toasty warm.

**Bubble wrap** – Line the interior walls for added insulation.

**Black barrels** – create a thermal heat sync by filling black rain barrels with water. It will heat up during the day and release the warmth at night.

## Circulation is critical in a greenhouse

Circulation helps to maintain even temperatures, controls condensation and keeps pests at bay. Place your heater on the floor towards back of greenhouse closest to the door (the source of heat loss). Put a circulating fan on bench level pointing up and towards the door. This will create a circular motion of needed air for your plants and increase efficiency in the greenhouse.



### Zones 1 to 5

#### EXTEND YOUR SEASON

##### We Recommend:

Twinwall polycarbonate, fivewall polycarbonate, or double glass with a 120-240 volt heater. Automatic roof vents should suffice for cooling.

#### YEAR ROUND GARDENING

##### We Recommend:

Insulated double glass or fivewall polycarbonate with either a natural gas or propane heater or a 240 volt electric heater for smaller greenhouses. Automatic roof vents should suffice for cooling.

#### HOT HOUSE ENVIRONMENT

##### We Recommend:

Insulated double glass or fivewall polycarbonate with either a natural gas or propane heater or a 240 volt electric heater for smaller greenhouses. Automatic roof vents should suffice for cooling.



## Some guidance on required heating & cooling:

This matrix is only a guideline for planning your greenhouse. Often times there are micro climates within these zones that require additional planning including lower zone areas that also get very warm in summer – additional cooling equipment may be required.

Our team of greenhouse experts have a climate calculator that will provide your needs based on what you would like to grow and your location.

Zones 6 & 7	Zones 8 to 10	Zones 11 +
EXTEND YOUR SEASON	EXTEND YOUR SEASON	EXTEND YOUR SEASON
We Recommend:	We Recommend:	We Recommend:
Single glass, twinwall polycarbonate, and fivewall polycarbonate with a 120-240 volt heater. Automatic roof vents plus additional wall vents should suffice for cooling.	Single glass and twinwall polycarbonate with a 120-240 volt electric heater. Automatic roof vents, wall vents and an exhaust fan system should suffice for cooling.	Single glass or twinwall polycarbonate with no heater. Automatic roof vents, wall vents and an exhaust fan system or an evaporative cooler should suffice for cooling.
YEAR ROUND GARDENING	YEAR ROUND GARDENING	YEAR ROUND GARDENING
We Recommend:	We Recommend:	We Recommend:
Twinwall polycarbonate, fivewall polycarbonate, or double glass with either a natural gas or propane heater or a 240 volt electric heater for smaller greenhouses. Automatic roof vents plus additional wall vents should suffice for cooling.	Any single glass, double glass, twinwall or fivewall polycarbonate with either a natural gas or propane heater or a 240 volt electric heater for smaller greenhouses. Automatic roof vents, wall vents and an exhaust fan system should suffice for cooling.	Single glass, twinwall polycarbonate, or fivewall polycarbonate with no heater. Automatic roof vents, wall vents and an exhaust fan system or an evaporative cooler should suffice for cooling.
HOT HOUSE ENVIRONMENT	HOT HOUSE ENVIRONMENT	HOT HOUSE ENVIRONMENT
We Recommend:	We Recommend:	We Recommend:
Insulated double glass or fivewall polycarbonate with either a natural gas or propane heater or a 240 volt electric heater for smaller greenhouses. Automatic roof vents plus additional wall vents should suffice for cooling.	Insulated double glass or fivewall polycarbonate with either a natural gas or propane heater or a 240 volt electric heater for smaller greenhouses. Automatic roof vents, wall vents and an exhaust fan system should suffice for cooling.	Single glass, double glass, twinwall, or fivewall polycarbonate with either a natural gas or propane heater or a 240 volt electric heater for smaller greenhouses. Automatic roof vents, wall vents and an exhaust fan system or an evaporative cooler should suffice for cooling.



# Foundations

**Do all greenhouses require a foundation?** Yes, and we will provide all of the hardware required to fasten the greenhouse to your foundation. **Important: Your foundation must be level and square** to properly anchor the greenhouse or you might experience this and more:

- The frame and panels will not align and you will think you have to cut into something.
- The framing for the door will not be square for easy install.



## TYPES OF FOUNDATIONS

### Pressure Treated Wood



Pressure treated or cedar wood is a popular choice because it is readily available and inexpensive. Wood is easy to adjust if you decide to move or extend your greenhouse.

#### Suggested Guidelines for Wood Foundations

- 4'x4' timbers up to 100 square feet or any greenhouse no longer than 12 feet.
- 6'x6' timbers are necessary with any greenhouse with a truss (a truss typically requires a 5 inch sill to attach); or any greenhouse 12'x12' and over.
- 6'x8' or 8'x8' timbers are occasionally necessary for greenhouses 18' wide or wider, where a concrete foundation and footing is not possible.

### Concrete



A concrete foundation is the most durable option and if properly sealed, will protect you from the elements for years. The heavier the greenhouse, the more important it is to build a strong base to support it. A concrete foundation may be necessary from your city planning office and job specific engineered drawings are required.

#### Suggested Guidelines for Concrete Foundations

- Our recommendation is that any double glass greenhouse or any greenhouse in any glazing over 12'x20' should rest on a concrete footing.
- All concrete foundations should include the use of rebar to strengthen the concrete as well as steel mesh in the slab options.
- Beveled exterior edges or uneven surfaces can require major modification to the greenhouse or foundation itself. The foundation must be level and square for the entire area where the greenhouse frame and interior support channels rest.



**IMPORTANT** – If you think you need to cut something, **call us first**. The greenhouse is fully pre-cut and pre-drilled. We will walk you through it.



## Bricks or Cinder Blocks



Bricks or masonry blocks are also a nice option that is readily available that compliment a greenhouse nicely.

### Suggested Guidelines for Bricks or Cinder Blocks

- You must have a flat surface to fasten the greenhouse to. This means that all gaps and holes are filled with concrete.
- Settling and cracking is common with cinder blocks so care must be taken to prevent holes or cracks as pests will find any way to get into the greenhouse.
- For smaller greenhouses, it is common for there to be a row of cinder blocks below grade. For greenhouses 10'x12' or larger there will often need to be a perimeter footing below grade down to the frost line to prevent any settling or frost heaving.
- Consider a treated timber top plate covered with a metal flashing to anchor the greenhouse.
- We do not recommend setting and fastening the greenhouse directly on bricks as they are more apt to crack under stress. For a brick look we recommend facing the outside of a concrete wall or cinder block wall with bricks or a brick façade.
- Use sealant to fix any cracks or gaps.

## Need a Permit?

For larger greenhouses, engineered shop drawings can also include the foundation to meet local building codes. The permit process depends on your municipality but generally, a structure less than 100 or 120 square feet that is not permanent does not require a permit. Depending on the building department code, sometimes non-engineered foundation sketches suffice for a permit, so remember to ask when the time comes.

## A Note About Drainage

As mentioned, drainage is crucial in a wet environment like a greenhouse. If you're leaning toward a solid flooring material, like concrete, keep in mind that you'll need to install drains to help keep your greenhouse flooring dry and your plants healthy and free from mold. You should consider the location of the drains carefully to ensure the drain is not in the middle of a proposed walkway or working area. Other materials, like gravel, concrete pavers, and flagstones also drain well and are most common.





# A successful install is just good planning

Almost 85% of installations are completed by the homeowner or a local contractor. Many people wonder how difficult it is to assemble. If you have ever put together a small kit shed – it’s similar to that but heavier. For a typical 8x12 glass greenhouse, it weighs about 1200 pounds and arrives with about 800 pieces of hardware. It’s important to have the manpower to unload the greenhouse from the curbside delivery truck. This is a structure that is meant to last for generations and doesn’t clip together. You should know how to read a tape measure, use a level and operate a drill. So invite some family and friends and make it an event!

1. Ensure that your greenhouse foundation is level and square and built to our specific dimensions – an 8x12 greenhouse is actually larger. If the foundation is off, everything will be off.
2. Ask for help. Enlist your family, friends or neighbors to put it together too. An 8x12 greenhouse will take two people two to three days to assemble. Give yourself the gift of time and try not to rush.
3. Review the written instructions and packing list ahead of time. It is filled with great tips and best practices that will help streamline your day.
4. If you feel you have to cut something, call us first!

## Your greenhouse has arrived! What’s next?

Your crates and their corresponding numbers are indicated in your packing list that will be emailed to you. Look for the wooden crate that says “Packing List Inside”. The greenhouse is organized into bundles of materials that will be labeled with a sticker. These bundles should not be taken apart until you are ready for it. Lay out all of the bundles, parts and pieces until everything is visible.

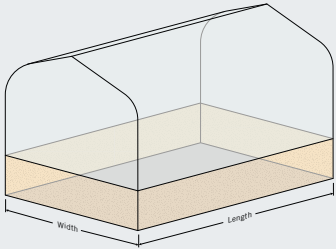


### EXPERT INSTALLER TIPS:

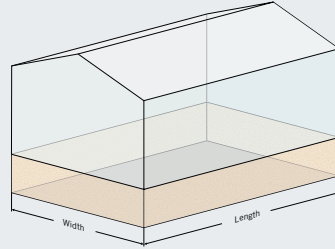
- ✓ Polycarbonate panels have a protective blue film on the exterior and clear or white on the interior. Keep track by placing a mark on the exterior as it has the UV protectant. Until it is time to install do not store your polycarbonate in the sun because the blue film will heat up and it will be difficult to remove.
- ✓ Install the glazing foam tape before you assemble the frame.
- ✓ Touch up paint will be provided and it works better when it’s warm.
- ✓ If you have anything gas or electrical, have your technician call us first to discuss the rough opening locations in the foundation.
- ✓ Locating the greenhouse in a north-south position is most suitable for raising summer and autumn crops as the sun’s rays will be on the greenhouse from daybreak until sunset. An east-west position is ideal for early spring and winter crops for the winter months due to shorter daylight hours. Position to allow six hours of light exposure to the greenhouse per day.



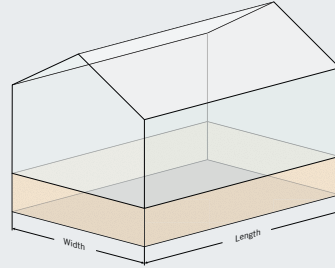
# Greenhouse Pricing



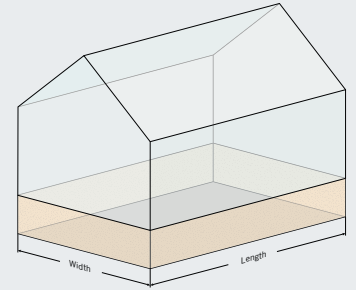
**PACIFIC SERIES**  
Slope: 5/12, Pitch: 23°



**TRADITIONAL SERIES**  
Slope: 5/12, Pitch: 23°



**COTTAGE SERIES**  
Slope: 8.5/12, Pitch: 35°

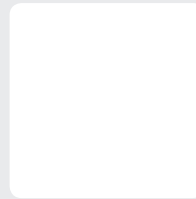


**CAPE COD SERIES**  
Slope: 12/12, Pitch: 45°

**Highlighted prices** indicate our **Value Models** that offer up to **20% savings** every day.

Didn't find the size you are looking for? We can build any size and any color!

**NEW!** All pricing includes **your choice of white, green or brown frame**. For custom colors, contact our Sales Department.



WHITE



GREEN



BROWN

**IMPORTANT!** Please confirm that you have the **CORRECT FOUNDATION DIMENSION SIZES** with our sales team **BEFORE BUILDING** your foundation.

## Freestanding Greenhouse Pricing

CONT'D NEXT PAGE →

SINGLE GLASS GLAZING ~ 3mm Tempered ~ 0.9 R Value ~ 95% Light Transmission					
FOUNDATION SIZE (width x length)	TRADITIONAL	COTTAGE	CAPE COD	PACIFIC FOUNDATION SIZE (width x length)	PRICE
6' 7" x 8' 7 1/2"	\$4,720	\$5,050	\$5,525	6' 2 3/4" x 8' 4"	\$6,075
8' 7 1/2" x 10' 8"	\$5,585	\$6,170	\$6,775	8' 3 1/4" x 10' 4 1/2"	\$7,115
8' 7 1/2" x 12' 8 1/2"	\$5,710	\$6,335	\$6,995	8' 3 1/2" x 12' 5"	\$8,560
10' 8" x 12' 8 1/2"	\$7,260	\$7,880	\$8,710	10' 3 3/4" x 12' 5"	\$8,920
12' 8 1/2" x 16' 9 1/2"	\$10,210	\$11,035	\$12,380	12' 4 1/4" x 16' 6"	\$12,950
12' 8 1/2" x 20' 10 1/2"	\$12,450	\$13,740	\$15,220	12' 4 1/4" x 20' 7"	\$14,790
16' 9 1/2" x 20' 10 1/2"	\$13,945	\$16,265	\$19,345	16' 5 1/4" x 20' 7"	\$18,525
20' 10 1/2" x 20' 10 1/2"	\$21,710	\$23,045	\$25,295	20' 6 1/4" x 20' 7"	\$24,870



FREESTANDING GREENHOUSE PRICING

TWINWALL POLYCARBONATE GLAZING ~ 6mm ~ 1.59 R Value ~ 82% Light Transmission					
FOUNDATION SIZE (width x length)	TRADITIONAL	COTTAGE	CAPE COD	PACIFIC FOUNDATION SIZE (width x length)	PRICE
6' 7" x 8' 7 1/2"	\$4,375	\$5,050	\$5,525	6' 2 3/4" x 8' 4 3/4"	\$4,375
8' 7 1/2" x 10' 8"	\$5,465	\$6,790	\$7,675	8' 3 1/4" x 10' 5 3/4"	\$4,665
8' 7 1/2" x 12' 8 1/2"	\$5,710	\$6,335	\$6,995	8' 3 1/4" x 12' 5 3/4"	\$4,835
10' 8" x 12' 8 1/2"	\$6,640	\$7,930	\$8,760	10' 3 3/4" x 12' 5 3/4"	\$6,640
12' 8 1/2" x 16' 9 1/2"	\$10,210	\$11,035	\$12,380	12' 4 1/4" x 16' 6 3/4"	\$8,935
12' 8 1/2" x 20' 10 1/2"	\$11,380	\$13,805	\$15,280	12' 4 1/4" x 20' 7 3/4"	\$11,375
16' 9 1/2" x 20' 10 1/2"	\$13,945	\$16,265	\$19,345	16' 5 1/4" x 20' 7 3/4"	\$12,995
20' 10 1/2" x 20' 10 1/2"	\$19,495	\$23,100	\$25,345	20' 6 1/4" x 20' 7 3/4"	\$19,495

FIVEWALL POLYCARBONATE GLAZING ~ 16mm ~ 3.0 R Value ~ 62% Light Transmission					
FOUNDATION SIZE (width x length)	TRADITIONAL	COTTAGE	CAPE COD	PACIFIC FOUNDATION SIZE (width x length)	PRICE
6' 7" x 8' 7 1/2"	\$7,690	\$8,205	\$8,985	N/A	
8' 7 1/2" x 10' 8"	\$8,050	\$9,395	\$11,025		
8' 7 1/2" x 12' 8 1/2"	\$8,150	\$9,885	\$11,090		
12' 8 1/2" x 16' 9 1/2"	\$15,550	\$16,345	\$18,650		
12' 8 1/2" x 20' 10 1/2"	\$17,510	\$18,640	\$20,995		
16' 9 1/2" x 20' 10 1/2"	\$20,750	\$22,600	\$25,000		
20' 10 1/2" x 20' 10 1/2"	\$24,115	\$25,950	\$29,130		
20' 10 1/2" x 41' 3 1/2"	\$40,830	\$48,480	\$53,120		

DOUBLE GLASS GLAZING ~ 16mm Tempered ~ 2.04 R Value ~ 90% Light Transmission					
FOUNDATION SIZE (width x length)	TRADITIONAL	COTTAGE	CAPE COD	PACIFIC FOUNDATION SIZE (width x length)	PRICE
6' 7" x 8' 7 1/2"	\$12,765	\$14,010	\$15,040	Meridian Estate Greenhouse Frame. Please call for pricing.	
8' 7 1/2" x 10' 8"	\$16,060	\$17,665	\$18,925		
8' 7 1/2" x 12' 8 1/2"	\$16,805	\$18,490	\$19,890		
10' 8" x 12' 8 1/2"	\$18,545	\$20,475	\$22,090		
12' 8 1/2" x 16' 9 1/2"	\$26,445	\$29,505	\$31,695		
12' 8 1/2" x 20' 10 1/2"	\$29,715	\$33,190	\$35,610		
16' 9 1/2" x 20' 10 1/2"	\$34,830	\$39,980	\$43,215		
20' 10 1/2" x 20' 10 1/2"	\$41,225	\$47,555	\$51,605		



# Home-Attached Greenhouses

## SINGLE GLASS GLAZING ~ 3mm Tempered ~ 0.9 R Value ~ 95% Light Transmission

TRADITIONAL FOUNDATION SIZE (width x length)	PRICE	PACIFIC FOUNDATION SIZE (width x length)	PRICE
6' 5" x 12' 8 1/2" x 8' 7 1/8"	\$5,680	6' 2 7/8" x 12' 5" x 8' 6 1/8"	\$6,820
8' 5 1/2" x 12' 8 1/2" x 9' 5 5/8"	\$6,670	8' 3 3/8" x 12' 5" x 9' 4 5/8"	\$7,720
10' 6" x 12' 8 1/2" x 10' 4 1/8"	\$7,860	10' 3 7/8" x 12' 5" x 10' 3 1/8"	\$8,815
12' 6 1/2" x 20' 10 1/2" x 11' 2 5/8"	\$14,005	12' 4 3/8" x 20' 7" x 11' 1 5/8"	\$16,475

## DOUBLE GLASS GLAZING ~ 16mm Tempered ~ 2.04 R Value ~ 90% Light Transmission

TRADITIONAL FOUNDATION SIZE (width x length)	PRICE	PACIFIC FOUNDATION SIZE (width x length)	PRICE
6' 5" x 12' 8 1/2" x 8' 7 1/8"	\$14,590	Meridian Estate Greenhouse Frame. Please call for pricing.	
8' 5 1/2" x 12' 8 1/2" x 9' 5 5/8"	\$16,775		
10' 6" x 12' 8 1/2" x 10' 4 1/8"	\$18,790		
12' 6 1/2" x 20' 10 1/2" x 11' 2 5/8"	\$28,645		

## TWINWALL POLYCARBONATE GLAZING ~ 6mm ~ 1.59 R Value ~ 82% Light Transmission

TRADITIONAL FOUNDATION SIZE (width x length)	PRICE	PACIFIC FOUNDATION SIZE (width x height)	PRICE
6' 5" x 12' 8 1/2" x 8' 7 1/8"	\$5,200	6' 2 7/8" x 12' 5 3/4" x 8' 6 1/8"	\$5,200
8' 5 1/2" x 12' 8 1/2" x 9' 5 5/8"	\$6,005	8' 3 3/8" x 12' 5 3/4" x 9' 4 5/8"	\$6,005
10' 6" x 12' 8 1/2" x 10' 4 1/8"	\$7,310	10' 3 7/8" x 12' 5 3/4" x 10' 3 1/8"	\$7,310
12' 6 1/2" x 20' 10 1/2" x 11' 2 5/8"	\$13,005	12' 4 3/8" x 20' 7 3/4" x 11' 1 5/8"	\$13,005

## FIVEWALL POLYCARBONATE GLAZING 16mm ~ 3.0 R Value ~ 62% Light Transmission

TRADITIONAL FOUNDATION SIZE (width x length)	PRICE
6' 5" x 12' 8 1/2" x 8' 7 1/8"	\$7,815
8' 5 1/2" x 12' 8 1/2" x 9' 5 5/8"	\$8,995
10' 6" x 12' 8 1/2" x 10' 4 1/8"	\$10,315
12' 6 1/2" x 20' 10 1/2" x 11' 2 5/8"	\$16,930

## LIMITED EDITIONS ~ See pages 8-9

MODEL	FOUNDATION SIZE (width x length)	PRICE
SUNHAVEN	8' 3 1/4" x 8' 4 3/4"	\$2,995
LEGACY	8' 7 1/2" x 8' 7 1/2"	\$3,195
PARKSIDE 8x10	8' 7 1/2" x 10' 8"	\$7,295
PARKSIDE 8x12	8' 7 1/2" x 12' 8 1/2"	\$7,795



# Door Options & Accessories

Several door options are available which include our standard storm door, commercial storefront, stackable doors, sliding glass doors and folding doors.



## Commercial Storefront Doors

Tough, insulated and storm proof. Many customers wish to shut out the elements and maintain the optimum environment in the greenhouse. With that, many choose to upgrade the standard storm door with our commercial storefront door option.

This fully assembled professional aluminum door is insulated with tempered safety glass and durable keyed deadbolt lock. Available options include custom color and panic bars.



## Decorative Base Panels

Decorative base panels eliminates the need and cost of a rockwall façade. All that is needed is just one row of 4x4's and possibly pier blocks to prevent frost heave! The panels provide a high style look on a budget and are available in any color or size of greenhouse for single tempered glass glazing only.



## Standard Storm Door

Pre-hung, heavy-duty storm door with locking latch that has an adjustable tempered glass window with a screen for extra ventilation. The storm door front can be painted to match any greenhouse frame, moved to a different location, and is available in a 26, 32 and 36 inch wide frame.



## Windows and Louvres

Rotocrank casement windows, glass louvres, side vents, and oversized sidewall vents are available. Call for details.



## Credits

A special thank you for those who shared their talents to produce this magazine:

Editor ..... **Angela Drake**  
 Art Direction & Graphic Design. .... **Cochrane Creative**

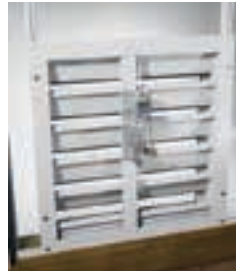
## Photography:

Page 5, 7, 8, 9, 17, 22, 29, 37, 45. .... **Henry Heinen**  
 Page 3, 16, 28 ..... **Angela Drake**  
 Page 5, 12, 17, 21, 24, 27, 30-33, 36. .... **Bjorn Bergstrom**  
 Page 20, 21. .... **Michael Datoli**  
 Page 20. .... **Adam Gibbs**  
 Page 38. .... **David Lauer Photography**  
 Page 40. .... **Bob Matheson**  
 Page 42. .... **John Waugh**  
 Page 39 top right ..... **Mike Torrey Photography**  
 Page 39 lower left ..... **Tony Wodarck**  
 Front and back covers: ..... **Brian Hall, Onsite Photography**



## Exhaust Fan Ventilation Package

Exhaust fan size is dependent on the size of the greenhouse. The complete exhaust fan ventilation package includes a fan, one or two motorized intake shutters (depending on the fan size) and one greenhouse cooling thermostat. **Includes metal shutter fans and intakes painted to suit the greenhouse with all mounting hardware and needed modifications to greenhouse.**



GREENHOUSE SIZE (area)	EXHAUST FAN VENTILATION PACKAGE	PRICE
UP - 120 sq ft	10" Package: 1 INTAKE (690 CFM)	\$1,295.00
121 - 200 sq ft	14" Package: 2 INTAKES (2170 CFM)	\$1,795.00
201 - 300 sq ft	18" Package: 2 INTAKES (3200 CFM)	\$1,840.00



### Palma Heater - \$150

110 Volt, 1500 Watt. Floor-standing heater. Splash proof ideal for greenhouses. External thermostat recommended.



### Modine Gas Heater -

**30000 BTU: \$1,370**  
**60000 BTU: \$1,585**

Low profile gas heater. Ships with custom brackets and glazing cutouts.



### Phoenix Heater- \$350

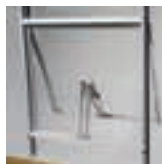
240 Volt, 3 heat output options: 1 kW, 1.8 kW, 2.8 kW. Frost detection function. Regulating thermostat built in. Splash proof.



### Decorative Cresting -

**\$45/linear foot**  
**Finials: \$45 each**

Beautiful ridge adornment. Any length available.



### Side Vent - 24" x 24" -

**Single Glass or Twinwall:**  
**Manual: \$120 | Auto: \$195**

**Double Glass or Fivewall:**  
**Manual: \$200 | Auto: \$275**

Provides added ventilation to any greenhouse.



### Manual Glass Louvres - \$295

24" x 28" aluminium frame with adjustable glass louvre blades.



### Caframo Fan - \$40

Equalize greenhouse temperature and distribute air evenly. Two speeds, maintains constant air movement. Available in white or black.



### Vent Screens -

**Roof Vent: \$145**  
**Side Vent, Louvre, or Intake Shutter Screen: \$135**

Designed to work with our vents and automatic openers.



### Thermo 2 Thermostat - \$115

An ideal controller for all climate control systems. Heating in the cold, ventilation in the heat.



**Shade Cloth -**  
**6' Wide: \$6ft.**  
**12' Wide: \$10ft.**

Interior cooling cloth. Uses a 70% horticulture cloth.

**Wire Top Bench:**  
**25 1/2" x 48" \$105.00**  
**33 1/2" x 48" \$120.00**

**Cedar Bench:**  
**25 1/2" x 48" \$85.00**  
**33 1/2" x 48" \$95.00**



Wiretop Bench w/Cedar



Cedar Bench





**MICHIGAN  
GREENHOUSE  
COMPANY**

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