The Cape Cod

**Tall, Classic Style**

The high-peaked, architecturally designed Cape Cod greenhouse creates a charming focal point in any garden. Spacious headroom allows plenty of room for taller plants and hanging baskets. In winter, the roof sheds snow readily, allowing maximum sunlight to enter.

Tempered safety glass and/or insulated TwinWall glazing are standard, with optional 5-Wall. Tempered safety glass and/or insulated TwinWall allowing maximum sunlight to enter.

Choose your glazing: Glass, TwinWall or 5-Wall

**Choose your color:** White, green or brown - plus custom colors too!

**Optional roof cresting**

**SPECIAL OFFER**

Save 10% when you order your accessories with your greenhouse, see pg 6

---

**CAPE COD PRICING**

**Our MOST POPULAR Sizes**

<table>
<thead>
<tr>
<th>Size</th>
<th>Model No.</th>
<th>All TwinWall</th>
<th>All Glass/TW Roof</th>
<th>All 5-Wall</th>
<th>Green or Brown Frame Add:</th>
<th>Actual Sizes** (Width x Length x Height)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8' x 12'</td>
<td>SCAP 812</td>
<td>$5,690</td>
<td>$5,690</td>
<td>$8,345</td>
<td>$395</td>
<td>8' 7½&quot; x 12' 8½&quot; x 10' 2½&quot;</td>
</tr>
<tr>
<td>10' x 12'</td>
<td>SCAP 1012</td>
<td>$6,445</td>
<td>$6,445</td>
<td>$8,955</td>
<td>$485</td>
<td>10' 8&quot; x 12' 8½&quot; x 11' 2½&quot;</td>
</tr>
<tr>
<td>12' x 16'</td>
<td>SCAP 1216</td>
<td><strong>$10,020</strong></td>
<td><strong>$10,020</strong></td>
<td><strong>$13,675</strong></td>
<td><strong>$685</strong></td>
<td>12' 8½&quot; x 16' 9½&quot; x 12' 2½&quot;</td>
</tr>
</tbody>
</table>

**Any Size BUILT TO ORDER**

<table>
<thead>
<tr>
<th>Size</th>
<th>Model No.</th>
<th>All TwinWall</th>
<th>All Glass/TW Roof</th>
<th>All 5-Wall</th>
<th>Green or Brown Frame Add:</th>
<th>Actual Sizes** (Width x Length x Height)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8' x 10'</td>
<td>SCAP 810</td>
<td>$5,470</td>
<td>$5,470</td>
<td>$7,985</td>
<td>$360</td>
<td>8' 7½&quot; x 10' 8&quot; x 10' 2¼&quot;</td>
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<tr>
<td>10' x 16'</td>
<td>SCAP 1016</td>
<td>$8,655</td>
<td>$8,655</td>
<td>$11,775</td>
<td>$590</td>
<td>10' 8&quot; x 16' 9½&quot; x 11' 2½&quot;</td>
</tr>
<tr>
<td>12' x 20'</td>
<td>SCAP 1220</td>
<td>$10,995</td>
<td>$10,995</td>
<td>$15,315</td>
<td>$795</td>
<td>12' 8½&quot; x 20' 10½&quot; x 12' 2½&quot;</td>
</tr>
<tr>
<td>14' x 24'</td>
<td>SCAP 1424</td>
<td>$16,085</td>
<td>$16,085</td>
<td>$20,900</td>
<td>$1,040</td>
<td>14' 9&quot; x 24' 11½&quot; x 13' 2½&quot;</td>
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<tr>
<td>16' x 20'</td>
<td>SCAP 1620</td>
<td>$14,905</td>
<td>$14,905</td>
<td>$18,240</td>
<td>$1,025</td>
<td>16' 9½&quot; x 20' 10½&quot; x 14' 2¼&quot;</td>
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<tr>
<td>16' x 37'</td>
<td>SCAP 1637</td>
<td>$23,000</td>
<td>$23,000</td>
<td>$30,250</td>
<td>$1,590</td>
<td>16' 9½&quot; x 37' 2½&quot; x 14' 2¼&quot;</td>
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<td>20' x 24'</td>
<td>SCAP 2024</td>
<td>$21,835</td>
<td>$21,835</td>
<td>$26,445</td>
<td>$1,430</td>
<td>20' 10½&quot; x 24' 11½&quot; x 16' 3&quot;</td>
</tr>
</tbody>
</table>

Call for quote on other sizes.

**Width x Length are the outside to outside foundation dimensions. Prices effective 9/1/15 and subject to change without notice. Greenhouses are shipped via motor freight. Call for delivery rates.**

---

For Glazing Descriptions, see page 8
Hello from Charley’s

Propel your passion for growing to new levels with a Charley’s greenhouse! Browse our catalog and you’ll find styles and sizes for every budget. Check out our premium SolarGro greenhouses that offer heavier frames, extra space and custom options – pages 2-9. For the most discerning gardener, see our upscale Estate and Garden Rooms on pages 10-11. Our Vitavia greenhouses offer traditional English designs at economy prices, pages 12-13. Thinking about a home-attached model? You’ll find a full range on pages 14-17.

_looking for the best insulated greenhouse available? Charley’s exclusive Northern Heritage is the result of over 42 years of designing, building, and growing in hobby greenhouses. Made in the USA in Charley’s Mount Vernon shop, page 19. For an efficient “solar” greenhouse see our exclusive Phoenix on page 6.

Your business is appreciated by all of us here at Charley’s. We thank you for trusting us to supply you with your greenhouse and all your other supplies for year around gardening FUN!

Charley and Carol Yaw, Owners

Charley’s Satisfaction Guarantee!

For over 42 years, we’ve been dedicated to providing gardeners with the best we can offer in greenhouses and gardening supplies. We guarantee that you’ll be pleased with your purchase. If you’re not, tell us about it and we’ll do all we can to make it right.

EASY ORDERING

- CALL: 1-800-322-4707
  Mon-Sat 8 am - 4:30 pm PST
- ONLINE: charleysgreenhouse.com
- FAX: 360-873-8264
- MAIL: Print an order form @ charleysgreenhouse.com/orderform

INSIDE -

Greenhouses

Freestanding ................. pgs. 2-13, 18-22
Home-Attached .............. pgs. 14-17
Propagation .................... pgs. 22-23
Shading .......................... pgs. 25
Benches/Shelves .............. pgs. 26-27
Climate Controls ............. pgs. 28-33, 36-38
Lighting ......................... pgs. 34-35
Building Materials ............ pgs. 38-39

charleysgreenhouse.com 800-322-4707
SolarGro Greenhouse Features

**Extra-strong Aluminum Framework**
- Maintenance-free enamel finish.
- Stands up to high winds and heavy snowfalls (85 mph, 32 lbs./sq.ft.)

**Choice of Glazing**
- Clear, tempered safety glass – classic appearance; maximum sunlight; see in, see out
- Insulated multi-wall polycarbonate – traps heat from the sun; insulated against cold; excellent light transmission; diffuses sunlight minimizes interior condensation
- Optional combination – insulated roof with glass walls on Cape Cod, San Juan, Cascadia, and Dover models.

**Automatic Ventilation**
- Natural ventilation allows hot, stale air to escape, whether you’re at home or not!
- All greenhouses smaller than 12’ x 16’ have solar-powered roof vents. Larger Cascadia and Premier greenhouses have a fan ventilation system.

**Pre-hung Glass/Screen Door**
- Big 32” wide x 74” high door with adjustable 5-position sliding glass panel and lockable door latch with keys

**Framework Accessory Tracks**
- For hanging pots, lights, fans, shelves and more!

**Assembly is Simple and Intuitive**
- Bolt frame together, insert glazing, fasten bar caps. Detailed illustrated manual and video.
- Assembly advice available toll-free 800-322-4707.

**Many Sizes and Options Available**
- Custom widths, lengths and heights
- Options: 36” wide door, double doors, wall vents, roof and wall vent screens, cresting, frame color

**Lifetime Frame Warranty**
**10-Year Polycarbonate Warranty**

“I just wanted to take a minute to let you know how completely satisfied my wife and I were with your company. Not only was the greenhouse easier to assemble than we anticipated, but it exceeds all of our expectations for performance.”

– David & Kelly Seaton, Canton, MI

---

The **Premier with TwinWall or Glass**

Graceful curved eaves create a pleasant and airy environment in which to garden. Your choice of glazing – insulating TwinWall polycarbonate or classic Tempered Safety Glass. This very popular greenhouse has generous headroom (6’ 6” at 2 ft. from the side wall). The curving shape sheds snow in the winter, too. For a standout in your garden, choose a white frame, or for a more subtle approach, select a green or brown frame.

---

## PREMIER - All Glass PRICING

<table>
<thead>
<tr>
<th>Size</th>
<th>Model No.</th>
<th>White Frame</th>
<th>Green or Brown Frame</th>
<th>Actual Sizes**</th>
<th>(Width x Length x Height)</th>
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</thead>
<tbody>
<tr>
<td><strong>Our Most Popular Sizes</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6’ x 8’</td>
<td>SPREG 608*</td>
<td>$4,495</td>
<td>$4,720</td>
<td>6’ 2¾” x 8’ 4” x 7’ 2¼”</td>
<td></td>
</tr>
<tr>
<td>8’ x 10’</td>
<td>SPREG 810</td>
<td>$6,105</td>
<td>$6,420</td>
<td>8’ 3¼” x 10’ 4½” x 7’ 8”</td>
<td></td>
</tr>
<tr>
<td>8’ x 12’</td>
<td>SPREG 812</td>
<td>$6,385</td>
<td>$6,740</td>
<td>8’ 3¼” x 12’ 5” x 7’ 8”</td>
<td></td>
</tr>
<tr>
<td>10’ x 12’</td>
<td>SPREG 1012</td>
<td>$6,595</td>
<td>$6,990</td>
<td>10’ 3½” x 12’ 5” x 8’ 1¼”</td>
<td></td>
</tr>
</tbody>
</table>

| **Any Size Built to Order**                      |           |             |                      |                |                          |
| 10’ x 16’ | SPREG 1016 | $8,665      | $9,170               | 10’ 3½” x 16’ 6” x 8’ 1¼” |
| 12’ x 16’ | SPREG 1216†| $9,910      | $10,485              | 12’ 4½” x 16’ 6” x 8’ 6½” |
| 12’ x 20’ | SPREG 1220†| $11,210     | $11,885              | 12’ 4½” x 20’ 7” x 8’ 6½” |
| 14’ x 20’ | SPREG 1420†| $13,135     | $13,890              | 14’ 4½” x 20’ 7” x 8’ 11½” |
| 14’ x 24’ | SPREG 1424†| $16,095     | $16,960              | 14’ 4½” x 24’ 8” x 9’ 0” |
| 16’ x 36’ | SPREG 1636†| $22,595     | $23,920              | 16’ 5½” x 36’ 11” x 9’ 4½” |

**Width x Length are the outside to outside foundation dimensions. Effective 2-1-17.**

* Door Size 26” x 69”
"My SolarGro greenhouse went up in an easy, logical fashion following the directions and the helpful video. This is a quality greenhouse at a reasonable price."

— Shane Smith and "Tobby" Cheyenne, WY

(Author of Greenhouse Gardener's Companion and Director of the Cheyenne Botanical Gardens.)
The Phoenix

By combining modern materials in a sun-oriented design, the Phoenix provides the most energy-efficient growing environment available. Whether you grow orchids or tomatoes, this greenhouse creates your ultimate growing retreat.

**Phoenix Features:**
- Provides top growing performance at any time of year, especially in northern latitudes or at high altitude where the growing season is short.
- Fully insulated with 5-Wall 16 mm (5/8”) polycarbonate glazing and foam-filled aluminum side and roof panels.
- Sturdy, maintenance-free aluminum framework with white enamel finish.
- Pre-hung glass/screen door.
- High and low automatic vents provide very effective, quiet ventilation by natural convection.
- Steeply pitched roof creates a lofty interior for hanging plants, maximizes solar efficiency, deflects high winds and easily sheds winter snow. (Peak height is 10’ 3” for 10’ wide and 12’ 2½” for 14’ wide models.)

Optional Brown frame now available.

**PHOENIX PRICING**

<table>
<thead>
<tr>
<th>Size</th>
<th>Model No.</th>
<th>Price</th>
<th>Actual Sizes**</th>
</tr>
</thead>
<tbody>
<tr>
<td>10’ x 12’</td>
<td>SPHX 1012</td>
<td>$9,625</td>
<td>10’ 8” W x 12’ 8½” L</td>
</tr>
<tr>
<td>10’ x 16’</td>
<td>SPHX 1016</td>
<td>$12,080</td>
<td>10’ 8” W x 16’ 9½” L</td>
</tr>
<tr>
<td>10’ x 20’</td>
<td>SPHX 1020</td>
<td>$13,995</td>
<td>10’ 8” W x 20’ 10½” L</td>
</tr>
<tr>
<td>14’ x 20’</td>
<td>SPHX 1420</td>
<td>$23,480</td>
<td>14’ 9” W x 20’ 10½” L</td>
</tr>
<tr>
<td>14’ x 24’</td>
<td>SPHX 1424</td>
<td>$28,210</td>
<td>14’ 9” W x 24’ 11½” L</td>
</tr>
</tbody>
</table>

**SPECIAL SAVINGS:**
Deduct 10% when you order your accessory package with your greenhouse!

**Charley’s GreenThumb Club** (See pg. 20.)

Shop our full line of greenhouses online.
The **San Juan**

**Extra height**

**San Juan Features:**

Traditional style, bold lines, and an extra sturdy frame make this greenhouse ideal for years of use and practical working conditions. With its extra height (8.5/12 roof slope), the **San Juan** can double as a comfortable garden retreat. Imagine the bliss as you enjoy a cool summer drink, surrounded by your favorite plants!

You will appreciate the roomy dimensions. With sidewalls 5'-7” high, there is plenty of space for benches, shelves and hanging baskets. Automatic venting is standard. Customize it with your choice of frame color and type of glazing material. Modular dimensions can also be modified. Add optional Victorian cresting to complete this classic style. (See pg. 4 for more SolarGro details.)

---

**Options available:**

- White frame standard, optional brown or green
- 5/8" insulated safety glass
- Fan ventilation
- Victorian cresting
- Vent screens
- Double doors

**Save BIG!**

On selected models

Take your DISCOUNT off the regular prices shown below. (Match color to Discount)

**Take $515 OFF**
**Take $605 OFF**
**Take $1,145 OFF**

**SAN JUAN PRICING**

<table>
<thead>
<tr>
<th>Size</th>
<th>Model No.</th>
<th>All Glass/TW Roof</th>
<th>All TwinWall</th>
<th>All S-Wall</th>
<th>Grn or Brwn Frame Add:</th>
<th>Actual Sizes**</th>
<th>(Width x Length x Height)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Our MOST POPULAR Sizes</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6' x 8&quot;*</td>
<td>SSAN 608*</td>
<td>$3,625</td>
<td>$3,625</td>
<td>$6,190</td>
<td>$235</td>
<td>6' 7&quot; x 8' 7½&quot; x 8' 2½&quot;</td>
<td></td>
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<tr>
<td>8' x 10&quot;</td>
<td>SSAN 810</td>
<td>$4,990</td>
<td>$4,990</td>
<td>$7,400</td>
<td>$335</td>
<td>8' 7½&quot; x 10' 8&quot; x 8' 11¼&quot;</td>
<td></td>
</tr>
<tr>
<td>8' x 12&quot;</td>
<td>SSAN 812</td>
<td>$5,180</td>
<td>$5,180</td>
<td>$7,365</td>
<td>$380</td>
<td>8' 7½&quot; x 12' 8½&quot; x 8' 11¼&quot;</td>
<td></td>
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<tr>
<td>10' x 12&quot;</td>
<td>SSAN 1012</td>
<td>$5,790</td>
<td>$5,790</td>
<td>$7,900</td>
<td>$445</td>
<td>10' 8&quot; x 12' 8½&quot; x 9' 8&quot;</td>
<td></td>
</tr>
<tr>
<td><strong>Any Size BUILT TO ORDER</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10' x 16&quot;</td>
<td>SSAN 1016</td>
<td>$7,815</td>
<td>$7,815</td>
<td>$10,535</td>
<td>$545</td>
<td>10' 8&quot; x 16' 9½&quot; x 9' 8&quot;</td>
<td></td>
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<tr>
<td>12' x 16&quot;</td>
<td>SSAN 1216</td>
<td>$9,015</td>
<td>$9,015</td>
<td>$11,870</td>
<td>$625</td>
<td>12' 8½&quot; x 16' 9½&quot; x 10' 4½&quot;</td>
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<tr>
<td>14' x 20&quot;</td>
<td>SSAN 1420</td>
<td>$11,165</td>
<td>$11,165</td>
<td>$15,415</td>
<td>$825</td>
<td>14' 9½&quot; x 20' 10½&quot; x 11' 1½&quot;</td>
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<tr>
<td>16' x 37&quot;</td>
<td>SSAN 1637</td>
<td>$19,335</td>
<td>$19,335</td>
<td>$27,590</td>
<td>$1,435</td>
<td>16' 9½&quot; x 37' 2½&quot; x 11' 10&quot;</td>
<td></td>
</tr>
<tr>
<td>20' x 24&quot;</td>
<td>SSAN 2024</td>
<td>$20,890</td>
<td>$20,890</td>
<td>$23,675</td>
<td>$1,275</td>
<td>20' 10½&quot; x 24' 11½&quot; x 13' 3½&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**K2015** | **K2017**  | **K1410**
---|---|---
Roof Vent Screen | Wall Vent Screen | 10 mm x 1/2", 10 pak
$149.00 ea | $139.00 ea | $5.95
10 mm x 3/4", 10 pak | | $6.95

Stainless Steel SolarGro Bolts and Nuts

**View over 50 greenhouse ideas @ Charleysgreenhouse.com/gallery**

charleysgreenhouse.com 800-322-4707

*Prices effective 9/1/15  **Door size 26" x 69” and subject to change without notice. Greenhouses are shipped via motor freight. Call for delivery rates.*
A greenhouse is a great investment that can provide years of pleasure.

What important features make a greenhouse low-maintenance and sturdy enough for a lifetime?

**FRAMEWORK**
Charley’s aluminum greenhouse frames are maintenance-free, and the painted finish preserves the attractive appearance. The SolarGro frames are heavier than most, providing extra strength to stand up to high winds and heavy snowfalls.

**VENTILATION**
Well-designed, reliable ventilation is a key factor to successful growing. All of Charley’s greenhouses have accurately sized ventilation systems to allow hot, stale air to escape and fresh air to enter. Our smaller greenhouses have solar-powered roof vents, and our larger units have fan ventilation systems. All provide automatic, worry-free cooling.

**ACCESSORIES**
Charley’s extensive lines of greenhouse equipment and supplies are selected to give you efficient, practical products that work well in the greenhouse environment. Benches, lights, heaters, shading, misting, and more … Expect quality and value from Charley’s!

**GLAZING** (the greenhouse covering)
You can choose clear tempered safety glass for a classic looking greenhouse, or multi-wall polycarbonate for better insulation.

- **1/8” Clear tempered safety glass**
  Heavy, but has longest life and best clarity. Requires summer shading to protect plants.

- **6 mm (1/4”) TwinWall Polycarbonate**
  Our standard glazing panel. Very strong and flexible. Stands up to high winds and heavy snowfall. See “Building Materials” p. 38 for details.

- **16 mm (5/8”) 5-Wall Polycarbonate**
  Best insulation with thicker ribbing to provide extra strength. Best clarity and appearance. Available in our Cape Cod, San Juan, Cascadia, Phoenix, and Dover greenhouses.

The **Cascadia with TwinWall**
One of our most popular TwinWall greenhouses, the SolarGro TwinWall Cascadia is also the easiest to build. Assembly is simple and intuitive, with nothing to cut, drill or bend. With side walls at 5’-7” high, there is plenty of headroom inside, and you can add shelves to maximize your growing space.

The roof slope is lower to reduce heating costs in winter, but steep enough for snow to slide off whenever the greenhouse is heated by the sun. The eaves are designed to accept gutters if you want to collect rainwater for your plants. This modular system is easy to customize, and sections can be added later to extend the length.

The **Cascadia 5-Wall with super insulated 5-Wall Glazing**
The straight-eave SolarGro Cascadia greenhouse is generously proportioned with sidewalls 5’-7” high. This provides more space for plant shelves and hanging baskets. If your plants prefer temperatures above 55º F through the winter, 5-Wall polycarbonate glazing will provide significant energy savings. The premium-grade glazing is 5/8” thick for extra insulation. “R” Value = 3.

(5-Wall is also available in Cape Cod, San Juan, Phoenix and Dover frame styles.)

Panels are bonded to the frame with adhesive glazing tape for an airtight seal, and secured by aluminum bar caps with stainless steel screws. Tracks on the interior frame allow easy installation of shelves and accessories.

The Cascadia – traditional style

Here’s a greenhouse with classic styling and strength, from its clear tempered safety glass to its handsome frame. Enjoy the beauty of four changing seasons as you tend plantings inside your SolarGro Cascadia, impervious to weather.

Customize your Cascadia Greenhouse with choices of glazing, frame color and decorative ridge cresting. There is no additional charge for selecting 6 mm TwinWall polycarbonate in place of glass in the roof. White is the standard frame color with green and brown as alternatives. Greenhouse size can also be customized if necessary to fit your site.

The Cascadia side walls are 5’ 7” tall, creating a roomy interior with plenty of space for shelves and hanging baskets – making the best use of your growing space.

“Now available with 5/8” insulated safety glass. Call for pricing.”

For SolarGro Greenhouse features, see page 4

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<table>
<thead>
<tr>
<th>CASCADIA Pricing</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Model No.</td>
</tr>
<tr>
<td><strong>OUR MOST POPULAR Sizes</strong></td>
<td></td>
</tr>
<tr>
<td>6’ x 8’*</td>
<td>SCAS 608</td>
</tr>
<tr>
<td>8’ x 8’</td>
<td>SCAS 808</td>
</tr>
<tr>
<td>8’ x 10’</td>
<td>SCAS 810</td>
</tr>
<tr>
<td>8’ x 12’</td>
<td>SCAS 812</td>
</tr>
<tr>
<td>10’ x 12’</td>
<td>SCAS 1012</td>
</tr>
<tr>
<td>12’ x 16’</td>
<td>SCAS 1216†</td>
</tr>
</tbody>
</table>

| **Any Size BUILT TO ORDER** |
| 10’ x 16’ | SCAS 1016 | $6,655 | $7,180 | $9,830 | $495 | 10’ 8” x 16’ 9½” x 8’ 1¼” |
| 12’ x 20’ | SCAS 1220† | $8,667 | $9,582 | $14,060 | $675 | 12’ 8½” x 20’ 10½” x 8’ 7” |
| 16’ x 20’ | SCAS 1620† | $11,258 | $12,985 | $16,488 | $839 | 16’ 9½” x 20’ 10½” x 9’ 5¼” |
| 16’ x 37’ | SCAS 1637† | $17,127 | $18,839 | $25,207 | $1,315 | 16’ 9½” x 37’ 2½” x 9’ 5¼” |
| 20’ x 41’ | SCAS 2041† | $27,119 | $28,271 | $32,260 | $1,695 | 20’ 10½” x 41’ 3½” x 10’ 4” |

** Width x Length are the outside to outside foundation dimensions.

Prices effective 10/1/17 and subject to change without notice. * Save Big on Brown frame Glass with TwinWall Roof. Greenhouses are shipped via motor freight. Call for delivery rates. † Includes Automatic Fan Ventilation System.
Charley's custom greenhouses and garden rooms combine the finest of design, building materials and master craftsmanship. The result is timeless beauty, and functionality to uniquely complement your home, landscape and lifestyle. Whatever your passion – from nurturing tender orchids to a year around living and growing retreat, our team of professionals are here to help you.

**Popular Decorative Options -**
- Ridge Cresting
- Wagon Wheel
- Victorian Gutter
- Custom Color Frame

**Some other Options Include -**
- Side Casement Windows
- Continuous Side Venting
- Louvre Windows
- Automatic Climate Controls
- Door Drop into Pony Wall
- Beauty Trim Cap
- Double Doors

Charley's Greenhouse & Garden established 1975.
Estate Greenhouses and Garden Rooms

Custom gables add architectural interest

15' x 24' Vancouver Garden Room
w/ Hip Roof, Ridge Cresting, Pony Walls

10' x 12' Tea House w/ Hip Roof, Ridge Cresting

Heavy-duty, strong engineered frame

Our Victorian decorative Gutter comes with downspouts and end caps

Standard Features

- Robust, premium quality aluminum frames that withstand the harshest weather
- High side walls and roof lines to accentuate the spacious feeling
- A wide variety of glazing options
- Upgraded single or double doors with security locks

20' x 30' Cascadia w/ Front & Side Double Doors, Beauty Trim Cap

Call our Greenhouse Consultants today! 800-322-4707
The Orion

Perfect for small spaces or as a starter greenhouse, the Orion has a space-saving sliding door, one roof vent, and integral gutters. Its durable, powder-coated green frame is attractive in any garden setting. The tallest greenhouse you’ll find for small spaces – 6’ 6” high door (24” wide). Ridge height 7’ 8”.

Features include:
- Extra-sturdy, maintenance-free aluminum frame
- Safe, baseball-proof polycarbonate glazing
- Excellent insulation value for colder climates
- Automatic roof vents
- Meets ADA door requirements
- Can be customized

For smaller budgets, we recommend the large 8 ft wide Saturn and Grandio greenhouses shown on pages 12-13.

Our experienced staff has been consulting and helping build school greenhouses for over 41 years. Call us today and get your students on the fast track for g-r-o-w-i-n-g experiences!

1-800-322-4707

The Saturn

Attractive Curved-Eave Greenhouse

The elegant, curved design and generous headroom of this value-added greenhouse elevates it to the “head of the class.” Roof vents, sliding doors and built-in gutters come standard. Glazing options include 1/8” Tempered Safety Glass with acrylic curved eaves, or insulated TwinWall polycarbonate (4.5 mm). With 4 sizes to choose from, you’re sure to find the right one for your garden space.

Features:
- Spacious double doors for easy access with your wheelbarrow, large potted plants, and those big bags of soil. The aluminum frame is available with a clear anodized or green powder-coated finish. Doorway is 48” wide x 6’ 6” high. Ridge height is 8’ 4”.
- Anodizing is a finish coating that keeps aluminum looking new for many years.
- Roof Vents expel hot air. Shown with optional solar vent opener, see pg 28.
Grandio Greenhouses

Grandio greenhouses come with all the basics you need to accelerate your gardening adventures. **Standard features include:** a strong, green powder-coated aluminum frame, insulated TwinWall, UV polycarbonate (10mm), adjustable roof vents, sliding double doors (42” wide), TALL peak HEIGHT (7’ 9”), cross truss and corner bracing for extra wind resistance, rain gutters, snow load supports, powder-coated steel base, Assembly Manual and all tools. Lifetime Warranty on Frame/10-Year Warranty on polycarbonate. All prices include FREE GROUND SHIPPING in the Continental USA.

### The Ascent

<table>
<thead>
<tr>
<th>Size</th>
<th>Model No.</th>
<th>Price</th>
<th>Roof Vents</th>
<th>Actual size (W x L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8’ x 8’</td>
<td>GASCENT 0808G</td>
<td>$1,499</td>
<td>2</td>
<td>8’ 2” W x 8’ 2” L</td>
</tr>
<tr>
<td>8’ x 12’</td>
<td>GASCENT 0812G</td>
<td>$2,129</td>
<td>3</td>
<td>8’ 2” W x 12” 2” L</td>
</tr>
<tr>
<td>8’ x 16’</td>
<td>GASCENT 0816G</td>
<td>$2,749</td>
<td>4</td>
<td>8’ 2” W x 16” L</td>
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<tr>
<td>8’ x 20’</td>
<td>GASCENT 0820G</td>
<td>$3,379</td>
<td>5</td>
<td>8’ 2” W x 19” 11” L</td>
</tr>
<tr>
<td>8’ x 24’</td>
<td>GASCENT 0824G</td>
<td>$3,999</td>
<td>6</td>
<td>8’ 2” W x 23” 10” L</td>
</tr>
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</table>

### The Elite

<table>
<thead>
<tr>
<th>Size</th>
<th>Model No.</th>
<th>Price</th>
<th>Roof Vents</th>
<th>Actual size (W x L)</th>
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<tbody>
<tr>
<td>8’ x 8’</td>
<td>GELITET 0808G</td>
<td>$2,129</td>
<td>2</td>
<td>8’ 2” W x 8’ 2” L</td>
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<tr>
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<tr>
<td>8’ x 20’</td>
<td>GELITET 0820G</td>
<td>$4,379</td>
<td>5</td>
<td>8’ 2” W x 19” 11” L</td>
</tr>
<tr>
<td>8’ x 24’</td>
<td>GELITET 0824G</td>
<td>$5,129</td>
<td>6</td>
<td>8’ 2” W x 23” 10” L</td>
</tr>
</tbody>
</table>

NEW! ACD Greenhouses

ACD Greenhouse & Garden Pavilions has been a leading manufacturer of high quality, home greenhouses in Belgium since 1987. We are now pleased to offer you two of their most popular models. **Standard features include:** strong anodized aluminum frame, light diffusing safety glass glazing, adjustable roof vent, sliding door, rain gutter, aluminum foundation/anchors, assembly video and written manual. Prices include FREE GROUND SHIPPING in the Continental USA. See online for complete details.

### The Piccolo by ACD

The upscale Piccolo is the perfect greenhouse for the urban gardener or those with limited space. Use it to grow tomatoes, start seeds, winter over plants.

**St.# GAP0507  The Piccolo  $3,299**

### The Bastogne by ACD

The Bastogne’s sloping walls improve light and heat capture, decrease wind pressure, and allow rain and snow to slide off more readily.

**St.# GAB1010  The Bastogne  $4,999**

charleysgreenhouse.com  800-322-4707
The Helena by Vitavía

- Strong, Anodized* Aluminum, Maintenance-Free Frame
- Superior 10 mm Insulated Polycarbonate Roof
- Roof Vents
- Double Doors, front or sides
- Lockable Doors

Glazing Choices:
- All Insulating 10 mm 3-Wall Polycarbonate
- 3-Wall Roof, Safety Glass Walls

Optional Upgrades for Helena and Ida
- Choice of painted frame color (Allow 3 weeks for custom painting)
- Louver Windows
- Solar Vent Opener(s)
- Opal Polycarbonate Roof
- Acrylic Walls

The Ida by Vitavía

- Strong, Anodized* Aluminum, Maintenance-Free Frame
- All Insulating 6 mm TwinWall Polycarbonate, TW Roof with Safety Glass Walls, or All Safety Glass
- Roof Vent(s)
- Double Doors, on front, or as singles on sides

Optional Color Choices
- White
- Almond
- Brown
- Green
- Black

New Lower Prices

<table>
<thead>
<tr>
<th>Size</th>
<th>Model No.</th>
<th>All Insulated 3-Wall</th>
<th>3-W Roof / Glass Walls</th>
<th>Painted Frame Add</th>
<th>Actual Sizes** (Width x Length x Height)</th>
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<tbody>
<tr>
<td>9' x 11'</td>
<td>GVH 911</td>
<td>$2,730</td>
<td>$3,025</td>
<td>$740</td>
<td>8' 8½&quot; x 11' 1½&quot; x 7' 10&quot;</td>
</tr>
<tr>
<td>9' x 13'</td>
<td>GVH 913</td>
<td>$2,945</td>
<td>$3,245</td>
<td>$820</td>
<td>8' 8½&quot; x 13' 2½&quot; x 7' 10&quot;</td>
</tr>
<tr>
<td>9' x 15'</td>
<td>GVH 915</td>
<td>$3,170</td>
<td>$3,490</td>
<td>$895</td>
<td>8' 8½&quot; x 15' 3¼&quot; x 7' 10&quot;</td>
</tr>
</tbody>
</table>

** Call to confirm foundation dimensions because dimensions can change with door location. Prices effective 1-1-15 and subject to change without notice. Greenhouses are shipped via motor freight. Call for delivery rates.

Also popular is our optional powder-coated frame. Choose a color to complement your home and landscape.

Grow Lighting, see pgs 34-35
**SolarGro® Greenhouses**

## Dover Home-Attached

The **Dover** is the easiest home-attached to build and the easiest to customize. With its crisp, angular lines, it fits most homes with ease. Extra height at the eave, 5’ 7”, allows spacious headroom and more space for extra shelving. For a custom appearance, you can raise the greenhouse on a knee wall and use siding to match your home.

### DOVER TWINWALL HOME-ATTACHED PRICING

<table>
<thead>
<tr>
<th>Size [Built to Order]</th>
<th>Straight Model No.</th>
<th>White Frame</th>
<th>Green or Brown Frame Add.</th>
<th>Actual Sizes** (Width x Length x Height)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4’ x 10’</td>
<td>SDOV 410</td>
<td>$3,290</td>
<td>$160</td>
<td>4’ 4½” x 10’ 8” x 7’ 8½”</td>
</tr>
<tr>
<td>6’ x 10’</td>
<td>SDOV 610</td>
<td>$3,490</td>
<td>$210</td>
<td>6’ 5” x 10’ 8” x 8’ 7¼”</td>
</tr>
<tr>
<td>6’ x 12’</td>
<td>SDOV 612</td>
<td>$3,625</td>
<td>$240</td>
<td>6’ 5” x 12’ 8½” x 8’ 7¼”</td>
</tr>
<tr>
<td>8’ x 12’</td>
<td>SDOV 812</td>
<td>$4,215</td>
<td>$295</td>
<td>8’ 5½” x 12’ 8½” x 9’ 5¾”</td>
</tr>
<tr>
<td>8’ x 16’</td>
<td>SDOV 816*</td>
<td>$5,310</td>
<td>$360</td>
<td>8’ 5½” x 16’ 9½” x 9’ 5¾”</td>
</tr>
<tr>
<td>10’ x 12’</td>
<td>SDOV 1012</td>
<td>$5,165</td>
<td>$365</td>
<td>10’ 6” x 12’ 8½” x 10’ 4¼”</td>
</tr>
<tr>
<td>10’ x 16’</td>
<td>SDOV 1016*</td>
<td>$6,450</td>
<td>$435</td>
<td>10’ 6” x 16’ 9½” x 10’ 4¼”</td>
</tr>
</tbody>
</table>

*Includes roof truss **Width x Length are the outside to outside foundation dimensions. Prices effective 9/1/15 and subject to change without notice. Greenhouses are shipped via motor freight. Call for delivery rates.

### Dover with TwinWall

With all insulated TwinWall glazing, this model creates a warm and cozy environment for you and your plants. TwinWall glazing holds in the heat 2 times better than glass, and it diffuses the glare from sunlight. These lightweight glazing panels are easy to handle and install.

### DOVER GLASS/5-WALL HOME-ATTACHED PRICING

<table>
<thead>
<tr>
<th>Size [Built to Order]</th>
<th>Straight Model No.</th>
<th>Glass, or Glass/TW Roof</th>
<th>All 5-Wall</th>
<th>Green or Brown Frame Add.</th>
<th>Actual Sizes** (Width x Length x Height)</th>
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</thead>
<tbody>
<tr>
<td>4’ x 10’</td>
<td>SDOV 410</td>
<td>$3,305</td>
<td>$4,670</td>
<td>$160</td>
<td>4’ 4½” x 10’ 8” x 7’ 8½”</td>
</tr>
<tr>
<td>6’ x 12’</td>
<td>SDOV 612</td>
<td>$4,010</td>
<td>$5,675</td>
<td>$235</td>
<td>6’ 5” x 12’ 8½” x 8’ 7¼”</td>
</tr>
<tr>
<td>8’ x 12’</td>
<td>SDOV 812</td>
<td>$4,755</td>
<td>$6,510</td>
<td>$295</td>
<td>8’ 5½” x 12’ 8½” x 9’ 5¾”</td>
</tr>
<tr>
<td>8’ x 16’</td>
<td>SDOV 816*</td>
<td>$5,780</td>
<td>$8,600</td>
<td>$360</td>
<td>8’ 5½” x 16’ 9½” x 9’ 5¾”</td>
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<tr>
<td>10’ x 12’</td>
<td>SDOV 1012</td>
<td>$5,650</td>
<td>$7,445</td>
<td>$365</td>
<td>10’ 6” x 12’ 8½” x 10’ 4¼”</td>
</tr>
<tr>
<td>10’ x 16’</td>
<td>SDOV 1016*</td>
<td>$6,780</td>
<td>$9,625</td>
<td>$435</td>
<td>10’ 6” x 16’ 9½” x 10’ 4¼”</td>
</tr>
</tbody>
</table>

*Includes roof truss

### Dover with Glass or 5-Wall

Glass allows you to see out and enjoy the surrounding landscape and changing seasons. 1/8” clear safety glass is standard or add a TwinWall roof for extra insulation. Also available in all 5-Wall glazing (see description, pg. 8).

The **Dover** is now also available with 5/8” insulated safety glass. Call for pricing.

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charleysgreenhouse.com  800-322-4707  15
Sussex Home-Attached Greenhouse

“We recently completed the erection of a Charley’s Greenhouse. The actual construction proceeded flawlessly. The instructions were excellent. Thank you for some of the more pleasant purchasing experiences we have had in 70 years.”

– Henry A. Zoeller, Upper Saddle River, NJ

Sussex with TwinWall

Our most popular home-attached model, the graceful, curved-eave Sussex, looks handsome in any setting. TwinWall glazing provides a warmer environment for growing year around. The panels ship flat and bend to install in your framework.

A durable painted framework adds to the beauty of the Sussex, and assures that it will retain its classic appearance for many years.

SolarGro Home-Attached Features:

• Strong, maintenance-free aluminum frame
• Choice of white, green or brown finish
• Automatic venting
• Pre-hung glass/screen door (32” W x 6’ 1-1/2” H) – can install on either end
• Any size available
• Do-it-yourself assembly
• Customizing available

The Home-Attached Advantage

A greenhouse installed on the sunny side of your home traps heat from the sun and warmth from your home. It costs about 30% less to heat than a freestanding greenhouse. It is very convenient to use, rain or shine, and electrical and plumbing connections are likely to be close by.

Which side of my house is best?

South is generally best if it receives winter sun. East is also good with morning sun, afternoon shade. West is acceptable, with afternoon sun. North is good for shade-loving plants.

What can I customize?

Charley’s will be happy to customize your SolarGro Greenhouse to fit your site with changes to dimensions, door location, adding a knee wall, extra vents and more. Call our greenhouse consultants at 1-800-322-4707.

Shop our full line of Climate Controls online.
**Sussex with Glass**

This model provides an open-air feeling where you can enjoy the seasons while you garden in comfort indoors.

Glass is considered the most attractive greenhouse covering. Clear, tempered safety glass is used throughout. This provides maximum solar heating in winter, but will require an exterior sunscreen in summer.

“Assembling the greenhouse was an enjoyable task and reminded me of the enjoyment I received as a child with my Erector Set ... I felt your product superior to all others. I find that I am proven correct.”

— Philip G. Steude, MD, Columbia SC

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### Sussex Glass Home-Attached Pricing

<table>
<thead>
<tr>
<th>Size</th>
<th>Curved Model No.</th>
<th>White Frame</th>
<th>Grn or Brwn Frame add:</th>
<th>Actual Sizes** (Width x Length x Height)</th>
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</thead>
<tbody>
<tr>
<td>4' x 10'</td>
<td>SSUX 410</td>
<td>$4,115</td>
<td>$160</td>
<td>4' 2½&quot; x 10' 4½&quot; x 7' 7½&quot;</td>
</tr>
<tr>
<td>6' x 10'</td>
<td>SSUX 610</td>
<td>$4,700</td>
<td>$210</td>
<td>6' 2½&quot; x 10' 4½&quot; x 8' 6½&quot;</td>
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<tr>
<td>6' x 12'</td>
<td>SSUX 612</td>
<td>$4,925</td>
<td>$235</td>
<td>6' 2½&quot; x 12' 5½&quot; x 8' 6½&quot;</td>
</tr>
<tr>
<td>8' x 12'</td>
<td>SSUX 812</td>
<td>$5,550</td>
<td>$295</td>
<td>8' 3½&quot; x 12' 5½&quot; x 9' 4½&quot;</td>
</tr>
<tr>
<td>8' x 16'</td>
<td>SSUX 816*</td>
<td>$6,965</td>
<td>$360</td>
<td>8' 3½&quot; x 16' 6&quot; x 9' 4½&quot;</td>
</tr>
<tr>
<td>10' x 12'</td>
<td>SSUX 1012</td>
<td>$6,335</td>
<td>$365</td>
<td>10' 3½&quot; x 12' 5½&quot; x 10' 3½&quot;</td>
</tr>
<tr>
<td>10' x 16'</td>
<td>SSUX 1016*</td>
<td>$7,830</td>
<td>$435</td>
<td>10' 3½&quot; x 16' 6&quot; x 10' 3½&quot;</td>
</tr>
</tbody>
</table>

Any size built to order. *Includes roof truss

**Width x Length are the outside to outside foundation dimensions.

---

### Customizing your Sussex or Dover Greenhouse

Frame color
- White
- Brown
- Green
- Custom

Glazing Material
- Glass
- 1-Wall
- 5-Wall
- Combination

Dimensions
W ______ x L ______
(A) Ledger Height (top)
(B) To bottom of fascia
(L) Infill
Door location L or R

1-800-322-4707

---

### The Even-Span Greenhouse

The **Even-Span** provides a spacious alternative to the conventional “lean-to” greenhouse. It is a freestanding model minus one gable end where it attaches to your home.

Any SolarGro or Heritage freestanding greenhouse can be made into an **Even-Span**, Custom options are available. Call today with your dimensions for a free price quote. 800-322-4707

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charleysgreenhouse.com  800-322-4707
Climate Control Tips
to help your plants thrive

VENTILATION (see pgs 28-32)
Use a ventilation system to automatically protect your greenhouse plants from withering heat buildup. No need to manually open and close vents, trying to out-guess the weatherman! Let solar-powered vent openers, or a thermostatically controlled system do all the work. The thermostat turns the system on at the temperature you select. The fan expels hot air and fresh, cool air is drawn in through the shutters. A fan speed control enables you to adjust the amount of airflow to suit the seasons. A motorized shutter is wide open when on and held closed when off. Select one of our ventilation systems or build your own system from components.

Note: Ventilation alone cannot completely cool a greenhouse. Shading is helpful. Additional cooling is possible with a misting system or evaporative cooler.

SHADING (see pg 25)
Install shading to shield the greenhouse or sunroom between 9 a.m. and 5 p.m. Severe western exposure may require shading until 7 p.m. Shading should cover the roof and at least the upper half of the south wall. The amount of shading needed varies depending on your local climate, greenhouse design, and light requirements of your particular plants. Use the least amount of shading necessary, because excessive shading can slow plant growth or cause plants to “reach” for more light.

MISTING (see pg 37)
Ventilation and shading will prevent the greenhouse from seriously overheating, but it is evaporation of moisture inside the greenhouse that will actually maintain a comfortable temperature. Evaporating water soaks up heat like a sponge, because heat is used when water changes from a liquid to a gaseous form. Good air circulation from fans increases evaporation. The amount of moisture necessary to cool the greenhouse will vary considerably depending on the amount of ventilation and shading provided, your local climate, and daily weather changes.
**Charley’s Northern Heritage**

**Best Insulated Greenhouse Available!**

Enjoy the beauty, warmth and natural ambience of a solid cedar greenhouse. Charley’s proven design, pre-cut components, and easy-to-follow assembly directions will give you an attractive, efficient and superior greenhouse. The high roof peak, 9 ft. tall, allows summer heat to rise, collects more winter sun and easily sheds snow. If you are handy with a level, tape measure and screw gun, and like to build, this do-it-yourself greenhouse is perfect for you. You’ll be proud of building a Heritage, and enjoy gardening in it for many years to come.

**Features that set the Heritage above other wood frame greenhouses:**

- Strong Western Red Cedar Frame (preferred for long life, beauty and insect resistance)
- Superior Insulated Polycarbonate
- Spacious Design – 6 ft TALL side walls for increased headroom and extra space for hanging plants
- Automatic Ventilation System
- Weatherproof Roof Sealing System

- Deluxe Aluminum Storm Door (36” x 80”) with Adjustable Vent
- Easy Modular Assembly – all components pre-cut, pre-drilled
- 10-year Glazing Warranty
- Lifetime Membership in Charley’s GreenThumb Club
- Proudly made in Washington State

---

**OPTIONS:**

- **Dutch Door (36” x 80”)** – $395.
- **Insulated Pony Walls** – Preassembled panels for simple installation. 30” high, clear T&G cedar siding. 2” (R-10) foam insulation.
- **5/8” Insulated Safety Glass**

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**NORTHERN HERITAGE Pricing**

<table>
<thead>
<tr>
<th>Size</th>
<th>Model No.</th>
<th>Standard Price</th>
<th>Polycarbonate w/Pony Walls</th>
<th>Insulated Glass w/Pony Walls</th>
</tr>
</thead>
<tbody>
<tr>
<td>8’ x 10’</td>
<td>NH 810</td>
<td>$5,650</td>
<td>$6,950</td>
<td>$8,270</td>
</tr>
<tr>
<td>8’ x 12’</td>
<td>NH 812</td>
<td>$6,290</td>
<td>$7,750</td>
<td>$9,230</td>
</tr>
<tr>
<td>8’ x 16’</td>
<td>NH 816</td>
<td>$6,930</td>
<td>$8,695</td>
<td>$10,495</td>
</tr>
<tr>
<td>10’ x 12’</td>
<td>NH 1012</td>
<td>$6,360</td>
<td>$8,075</td>
<td>$9,710</td>
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<tr>
<td>10’ x 16’</td>
<td>NH 1016</td>
<td>$7,090</td>
<td>$9,130</td>
<td>$10,090</td>
</tr>
<tr>
<td>10’ x 20’</td>
<td>NH 1020</td>
<td>$8,635</td>
<td>$10,990</td>
<td>$13,270</td>
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<td>12’ x 16’</td>
<td>NH 1216</td>
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<td>12’ x 20’</td>
<td>NH 1220</td>
<td>$9,710</td>
<td>$12,115</td>
<td>$14,550</td>
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<tr>
<td>12’ x 24’</td>
<td>NH 1224</td>
<td>$10,835</td>
<td>$13,590</td>
<td>$16,310</td>
</tr>
</tbody>
</table>

* Call for actual foundation dimensions. Prices effective 11-1-16 and subject to change without notice. Greenhouses are shipped via motor freight. Call for delivery rates.
I love it! It fits in my woodland atmosphere and I love the way I feel when I’m inside. I’m growing tomatoes, peppers and flowers – all doing well!” – Sharla Dance, Redmond, WA

FEATURES:
- Strong Western Red Cedar Frame (preferred for long life, beauty and insect resistance)
- Superior 3-Wall Polycarbonate Glazing – 10 mm (3/8”) is twice as thick as polycarbonate in most greenhouse kits. The extra interior layer reduces heat loss.
- Spacious Design – 6 ft TALL side walls for increased headroom and extra space for hanging plants
- Solar-Powered Roof and Side Vent(s)
- Weatherproof Roof Sealing System
- Deluxe Aluminum Storm Door (36” x 80”) with Adjustable Vent
- Easy Modular Assembly – all components pre-cut, pre-drilled
- 10-year Glazing Warranty
- Lifetime Membership in Charley’s GreenThumb Club
- Proudly made in Washington State

OPTIONAL Dutch Door (36” x 80”) – $395.
10 mm Opal Light-Diffusing TwinWall Roof – CALL

Charley’s GreenThumb Club Lifetime Discounts!
When you purchase your greenhouse from Charley’s, you will automatically become a lifetime member of Charley’s GreenThumb Club. As a club member, you’ll enjoy discount pricing on Charley’s extensive line of equipment, supplies and even future greenhouses!

* Applies to greenhouses $1,000 and over.

NOTE: Heritage pictures show the greenhouses finished with a water-based stain (optional) applied by the owners before assembly.

Charley’s Cedar Heritage

Superior 3-Wall Polycarbonate Glazing – Provides maximum strength and insulation value. 10 mm (3/8”) thick with 2 insulating channels and extra ribs to increase strength. R 2.1

Weatherproof Roof Sealing System – Brown aluminum bar caps with rubber gaskets seal roof panels in place.

Spacious Design – 6 ft. TALL sidewalls provide increased headroom and more space for your hanging plants. (Notice strong roof framing.)

“This was a very well made, fun project that I put together by myself. A great value and high quality. It survived our heavy rain and high wind winter very well and is beautiful. Thank you all!” – R. Lockwood, Seattle, WA

Charley’s GreenThumb Club Lifetime Discounts!
When you purchase your greenhouse from Charley’s, you will automatically become a lifetime member of Charley’s GreenThumb Club. As a club member, you’ll enjoy discount pricing on Charley’s extensive line of equipment, supplies and even future greenhouses!

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- Spacious Design – 6 ft TALL side walls for increased headroom and extra space for hanging plants
- Solar-Powered Roof and Side Vent(s)
- Weatherproof Roof Sealing System
- Deluxe Aluminum Storm Door (36” x 80”) with Adjustable Vent
- Easy Modular Assembly – all components pre-cut, pre-drilled
- 10-year Glazing Warranty
- Lifetime Membership in Charley’s GreenThumb Club
- Proudly made in Washington State

OPTIONAL Dutch Door (36” x 80”) – $395.
10 mm Opal Light-Diffusing TwinWall Roof – CALL

Charley’s Cedar Heritage

Superior 3-Wall Polycarbonate Glazing – Provides maximum strength and insulation value. 10 mm (3/8”) thick with 2 insulating channels and extra ribs to increase strength. R 2.1

Weatherproof Roof Sealing System – Brown aluminum bar caps with rubber gaskets seal roof panels in place.

Spacious Design – 6 ft. TALL sidewalls provide increased headroom and more space for your hanging plants. (Notice strong roof framing.)

“This was a very well made, fun project that I put together by myself. A great value and high quality. It survived our heavy rain and high wind winter very well and is beautiful. Thank you all!” – R. Lockwood, Seattle, WA

Charley’s GreenThumb Club Lifetime Discounts!
When you purchase your greenhouse from Charley’s, you will automatically become a lifetime member of Charley’s GreenThumb Club. As a club member, you’ll enjoy discount pricing on Charley’s extensive line of equipment, supplies and even future greenhouses!

* Applies to greenhouses $1,000 and over.

NOTE: Heritage pictures show the greenhouses finished with a water-based stain (optional) applied by the owners before assembly.

Charley’s Cedar Heritage

FEATURES:
- Strong Western Red Cedar Frame (preferred for long life, beauty and insect resistance)
- Superior 3-Wall Polycarbonate Glazing – 10 mm (3/8”) is twice as thick as polycarbonate in most greenhouse kits. The extra interior layer reduces heat loss.
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ORDER FORM

DATE: ____________________

BILLING ADDRESS: Catalog Code 112
Name ____________________
Address ____________________
City/State/Zip ____________________
Day Phone ____________________
E-Mail ____________________

SHIP TO: □ Check if Business Address
Name ____________________
Company ____________________
Street Address ____________________ Apt. or Suite
City ____________________ State ___________ Zip ___________

GREENHOUSE ORDER
GH MODEL / SIZE
FOUNDATION DIMENSIONS, outside:
ROOF GLAZING WALL GLAZING
FRAME PAINTING OPTION – COLOR:
GREENHOUSE OPTIONS

Total Price
Greenhouse $ ▶
Accessories Subtotal (from below) $ ▶
less 10% Accessory Discount = $ ▶

SUPPLIES & ACCESSORIES ORDER

Item # QUAN DESCRIPTION OF ITEM PRICE EACH TOTAL PRICE

PAYMENT INFORMATION

□ Visa □ MasterCard □ American Express
□ Discover □ Check □ Money Order

Card Number ____________________
Exp. Date ____________________
Security Code* ____________________

Subtotal
Delivery
WA Residents add _____% Sales Tax
Total
35% Deposit
Balance Due

SUBTOTAL

ACCESSORIES STANDARD SHIPPING**

ORDER TOTAL ADD
Up to $20.00................. $  8.95
$20.01 to $35.00........... $10.95
$35.01 to $50.00........... $12.95
$50.01 to $75.00.......... $14.95
$75.01 to $100.00........ $16.95
$100.01 to $150.00...... $18.95
Over $150.00............... 14% of order

Subtotal
Standard Shipping
WA Residents add _____% Sales Tax
Total Enclosed

Prices subject to change without notice. ©

THANK YOU for shopping with Charley’s!

If you have any questions, or to call in your order, call: 800-322-4707
Warm soil, happy plants

As long as the soil is warm, most plants are comfortable and ready to grow at a good pace. But precisely controlling that temperature can be a challenge ... NO MORE with these outstanding products.

Charley’s Best Soil Heating Cables
These professional quality cables may be used in a propagation bed or placed directly into the ground to make a “hot bed”. They have higher wattage per lineal foot, so you’ll have less cable to install. Extra-durable for long-term reliability! These Variable Heat Cables adjust to the optimum soil temperature for plants you wish to start. Order E3412 Heat Cable Thermostat listed below separately.

<table>
<thead>
<tr>
<th>STOCK#</th>
<th>LENGTH</th>
<th>OUTDOORS</th>
<th>INDOORS</th>
<th>WATTS</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>P5595</td>
<td>20’</td>
<td>7 sq ft</td>
<td>12 sq ft</td>
<td>100 watts</td>
<td>$36.50</td>
</tr>
<tr>
<td>NEW Lower Prices!</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• 40’</td>
<td>14 sq ft</td>
<td>14 sq ft</td>
<td>200 watts</td>
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<tr>
<td>• 60’</td>
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<td>27 sq ft</td>
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<tr>
<td>• 80’</td>
<td>30 sq ft</td>
<td>40 sq ft</td>
<td>400 watts</td>
<td>$65.95</td>
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</tr>
<tr>
<td>• 100’</td>
<td>36 sq ft</td>
<td>45 sq ft</td>
<td>500 watts</td>
<td>$77.50</td>
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</tr>
<tr>
<td>• 140’</td>
<td>50 sq ft</td>
<td>60 sq ft</td>
<td>700 watts</td>
<td>$99.50</td>
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</tr>
</tbody>
</table>

Thermostat Provides Precise Control
Our highly accurate Heat Cable Thermostat features a large, easy-to-read dial, and waterproof housing. The temperature sensor has a 9-ft. capillary tube for easy placement in the soil. Heavy-duty 5½ ft. power cord with 1 receptacle for a soil heat cable. Range: 40° F - 110° F. 13 amps, 1500 watts, 120 volts.

E3412 Heat Cable Thermostat $98.00

NEW Lower Prices!
Value Heat Cables
On a tight budget? While these cables won’t last as many years as the ones above, they’re great for seasonal use, or extra warmth for your banana plant! Built-in thermostat is set for 70° F. 110 volts.

<table>
<thead>
<tr>
<th>STOCK#</th>
<th>LENGTH</th>
<th>OUTDOORS</th>
<th>INDOORS</th>
<th>WATTS</th>
<th>PRICE</th>
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<tr>
<td>P5010</td>
<td>12’</td>
<td>42 watts</td>
<td>2 to 4 sq ft</td>
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</tr>
<tr>
<td>• 24’</td>
<td>84 watts, 5 to 7 sq ft</td>
<td>$21.95</td>
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<tr>
<td>• 36’</td>
<td>126 watts, 8 to 11 sq ft</td>
<td>$23.95</td>
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</tr>
<tr>
<td>• 48’</td>
<td>168 watts, 12 to 14 sq ft</td>
<td>$25.95</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Get Constant Heat With Heat Mats
Improve seed germination and keep young plants thriving with gentle warmth under their roots, using a Heat Mat. Easy to use – just place the seed tray on your heat mat and plug it in for even warmth – perfect for propagation.

P5225 • 9” x 19” Heat Mat (17 watts) $29.95
• 20” x 20” Heat Mat (45 watts) $53.95
• 48” x 20” Heat Mat (107 watts) $92.95

Heat Mat Thermostat
Precisely control heat mat or heat cable. Features include: adjustable 68° F - 95° F, temperature sensor is on 5½ ft. cable, grounded 3-prong outlet and 6 ft. power cord. Max. 1000 watts, 8.3 amps, 120 volts.

E3443 Heat Mat Thermostat $49.95

Flats and Humidity Domes
Enjoy better germination of seeds and higher success rate with cuttings. Newly designed ribbed-top dome offers extra strength, maintains humidity and retains soil heat.

P2327 Standard Dome 5/$23.40 10/$39.30
Our plastic flats form a sturdy support for Pot-Paks and Plug Trays. The Standard Flat has drain holes. The No-Holes Flat can be used indoors and as a humidity tray.

P2312 • Standard Flat (w/drain holes), 10-1/2" x 20-1/2" 10/$29.50, 20/$46.00
• No-Holes Flat 10-1/2" x 20-1/2" 10/$29.50, 20/$46.00
P2319 Heavy-Duty Lattice Flat 10-1/2" x 20-1/2" 10/$32.00, 20/$49.00

Shop more Pots, Pot-Paks, Trays online.
The Jump Start Propagator

The challenge of starting seeds is keeping them at just the right moisture level. Too moist or too dry and they die quickly. Our foolproof seed starting system — the Jump Start Propagator — ensures a perfect moisture level while creating optimal conditions for seed starting success!

Its 55-cell propagation tray is insulated to maintain constant soil temperature, while a wicking mat beneath the tray draws water from the reservoir. This maintains the perfect balance of moisture in the soil. And the tall dome keeps evaporation to a minimum and speeds germination.

Transplanting from the tray is easy — just turn the platform over and use the “feet” to lift your ready seedlings from their cells. Our Jump Start Propagator is reusable, so you’ll have it ready for your next round of propagation.

P2044 • Jump Start Propagator $32.00 ea, 2/$59.00
• Extra 55-cell propagation trays 2/$19.95

If you use this system in conditions under 65° F, we recommend adding a P5225 (9” x 19”) heat mat (pg 22) to maintain warm soil for faster germination and growth.

Azalea Pots (3/4 Height)
Great for Azaleas and Gloxinia
P1115 • 5½” 20/$21.40
• 6½” 10/$27.50
• 7½” 5/$23.25

Round Standard Pots
Allow deep root systems
P1110 • 3” 50/$17.50
• 4” 50/$27.50
• 5” 20/$21.00
• 6” 20/$23.40

DEEP POTS – Allow extra root growth
Ideal for perennials and other nursery stock that require extra root development. Internal ribs inhibit root spiraling. Flexible plastic for easy transplanting. Special Carry Tray with drain holes. Order pots and trays separately.

P1463 • 4” Deep Pot (3-1/4” sq. x 3-7/8” H) 90/$16.20
• 4” Carry Tray (Holds 18 pots) 5/$17.90
• 5” Deep Pot (4-3/8” sq. x 4-3/4” H) 45/$17.55
• 5” Carry Tray (Holds 15 pots) 3/$17.10

This Little Bottle Clones Big Results!
Clonex is a powerful blend of rooting hormones, vitamins, minerals and antimicrobial agents - that’s 500 times stronger than most powders! Clonex’s gel base instantly seals cut tissue and sticks to the stem throughout the rooting period, feeding and protecting the cutting.

P7108 • Clonex 100 ml $26.95
• Clonex 250 ml $49.95

Professional Rooting Powder
This rooting powder stimulates formation of roots on slips and cuttings. Produces a high number of completely rooted cuttings that are faster to establish themselves. Three strengths: 1) easy to propagate, 2) woody and semi-woody, 3) difficult. 3/4 cup resealable bottles.

P7110 Hormex #1, #3, #8 (Set of all 3) $28.95
P7102 Dip-N-Grow, 2 oz $11.95

Easy-to-Use Rooting Solution
This concentrated hormone is effective for woody ornamentals or difficult to root cuttings, and soft wood cuttings. Dilutes with water to desired strength. Treats more than 1,000 cuttings per ounce. 2 oz. kit.

charleysgreenhouse.com  800-322-4707
PVC pipe Snap Clamps

These handy clamps hold down poly, row covers, shade cloth and tarps to a pipe frame — even in winds and heavy rains. Made of durable, springy plastic for a secure grip. 10 per pak.

B7725
- 0.5 Snap Clamps for 1/2" pipe $4.97, 4+ paks $4.37 ea
- 0.75 Snap Clamps for 3/4" pipe $5.47, 4+ paks $5.00 ea
- 1 Snap Clamps for 1" pipe $6.97, 4+ paks $6.50 ea

Crop Covers

Keep your garden growing longer this fall. Crop Cover lets 80% of sunlight in, excess heat escapes during the day and ground heat is retained at night. Protects down to 26° F. Acts as a barrier to destructive insects and birds. Reusable — heavier than other brands and UV stabilized.

A3782 • 6 ft x 50 ft $18.50
- 6 ft x 100 ft $33.95
- 12 ft x 25 ft $19.95
A3794 6" Ground Staples (24 pak) $4.95
A3793 Crop Cover Supports (10 pak)
Use these fiberglass rods to support crop cover. $19.95

Watch Your Plants Thrive with Extra Humidity!

Our Humidity Trays provide extra moisture for ferns, orchids, bonsai and other indoor plants to keep them healthier. Just add water to the tray and arrange your plants on the grid top. The water will slowly evaporate, adding humidity to your plants. Trays are 2-1/4" deep.

P2650 • Small Tray (13" x 10") $17.95
- Medium Tray (26" x 10") $27.95
- Large Tray (29" x 13") $35.95
- Windowsill Tray (26" x 6") $19.95

Long-Life Grow Lights

See page 34

Versatile Cold Frame

Start plants early this spring. Extend your fall harvest. Grow cool crops through winter.

Durable aluminum frame with insulated, polycarbonate glazing. Simple, snap-together assembly. Top panel lifts for easy access and ventilation. 47" L x 23½" D x 16½" H. For automatic ventilation, add a Solar Univent Control, pg. 28.

A1037 Versatile Cold Frame $119.00

Folding Hand Truck

Big 200 lbs capacity!

Easily move large pots, heavy bags of soil, and more around the garden. Opens in one quick step. Features a large 19-1/4" x 14" platform and smooth rolling 7" wheels with solid rubber tires. The durable, steel frame weighs only 10 lbs! Folds down for compact storage. Multiple uses around home and office.

T3618 Folding Hand Truck $79.95

Growing Food & Flowers in Your Greenhouse or Sunspace by Shane Smith

Here is an EXCELLENT resource book for anyone who is serious about building or buying a hobby greenhouse, or who already has one. In a witty yet clear style, you’ll find comprehensive information on growing environments, interior designs, greenhouse seasons and microclimates, plant selection, propagation, year-round harvest schedules, healthy soils, pest control, and even the future of greenhousing! 498 pages. PB.

V9051 Greenhouse Gardener's Companion $22.95

Portable Grow Light & Fixture

Easily add extra light

Clamp this light anywhere! Our 150-watt*, full spectrum light stimulates healthy plant growth and flowering. It’s great for any light loving plants like orchids. Also use it as a decorative display light, adding brilliance and color to indoor plants. (*The long-lasting 32-watt CFL grow spiral bulb is 150-watt equivalent with 10,000 hr. life, 6400K.) An easy-to-use swivel clamp arm allows quick repositioning. Mount the light at least 18" from your plant for best results. Includes on/off switch and 5-ft. extension cord. UL listed.

L5391 Clamp-On Fixture with Grow Spiral CFL Bulb $29.95
L5393 Replacement Bulb, 32 watt $12.95

Shop Watering Supplies online.
Protect Your Plants From Sunburn

**Fiberglass Sunscreen**
*Our most attractive shade fabric*
Made from vinyl-coated fiberglass, this sunscreen is weatherproof, durable and flexible. It does not wrinkle, but lays flat and smooth. Excellent for roll shades. Doesn’t unravel when cut. Order Grommet Clips (#C2040) for easy tie-down.

- **C2255** Charcoal, 55% Density, 6 ft wide
  - $4.75/linear ft

- **C2276** Brown, 70% Density, 6 ft wide
  - $6.75/linear ft

**Lockknit Shade Fabric Kits**
Lightweight and easy to handle. Cut to any shape or size. Does not unravel.

- **C2064** 12’ x 12’ Lockknit Shade Kit
  - $55.95

- **C2064** 12’ x 16’ Lockknit Shade Kit
  - $69.95

**Greenhouse Bubble Insulation**
Installed inside your greenhouse glazing, this translucent bubble plastic can reduce your heating costs up to 45%! Just as effective as insulated glass. It transmits evenly diffused light through the greenhouse. Works well with all types of greenhouse glazing.

Attach to glazing with our double-faced tape, spray adhesive, Velcro tapes, or liner clips. Can be stapled to wood frameworks. (Place bubble side toward the glazing, smooth film to the inside.) Do not confuse this insulation with lightweight bubble packing material. Charley’s insulation has clear bubbles for better light transmission, and a tough, nylon-reinforced translucent backing. The bubbles are 1” diameter and 1/4” deep. Expected life is 3 to 4 years when used indoors. Depending on your existing glazing, a single layer of bubble insulation will increase the R Value of your glazing by 1.6 to 2.1 R-value. (Call for shipping rates to Alaska or Hawaii.)

- **C7538** Bubble Insulation, 24” x 40 ft (80 sq ft)
  - $49.95

- **B7578** Double-Faced Tape, 108 ft roll x 1/2” W
  - $10.95

**Greenhouse Shading Paint**
This paint screens out excess summer sun, but becomes transparent during rainy weather, allowing more light in. When the paint dries, it turns white, resuming its shading effect. The wet/dry-clear/shade cycle repeats indefinitely as weather conditions change.
Thin with water to desired shade density. Apply with roller or brush. 1 qt. covers 800 sq. ft. (Not shipped during freezing weather.)

- **C2035** Vari-Shade Concentrate
  - $24.95
Here is a decision guideline to help you plan your greenhouse.

FRAMEWORK
- Aluminum – our aluminum frames are maintenance free
- Painted Aluminum – best appearance, looks new for many years
- Wood – Western Red Cedar – preferred for beauty, long life, insect resistance.

GLAZING (see descriptions, pg 8 & 39)
- Tempered safety glass
- All Twinwall
- Glass Walls, TW Roof
- Super SX-Wall Storm

FOUNDATION (see description online)
- Pressure treated timbers (up to 200 sq. ft. greenhouse)
- Concrete/block base wall
- Concrete slab/tile

Note: Outside dimensions of greenhouse foundation are given under “Actual Sizes” on the price charts.

FLOOR
If you have not poured a concrete slab, you will need a walkway down the middle of your greenhouse. First, lay down landscape fabric over the entire floor. For an aisle of bricks: frame the walk-way with treated 2x4 lumber, lay down 2” of crushed rock, then 1” of sand, and set the bricks with 1/4” spacing. A final touch might be to plant lemon thyme between the bricks! Finish remainder of floor with 2” of pea gravel.

Cedar/Grid Bench
Combines our Best Bench Top with our Western Red Cedar frame. All components are pre-cut.

D1004  •  25½” x 4 ft Grid-Top Bench $185.00
• 25½” x 5 ft Grid-Top Bench $210.00
• 25½” x 6 ft Grid-Top Bench $236.00

D1025 Optional Bottom Shelf, 21¼” wide
4 ft $72.00 / 5 ft $84.00 / 6 ft $95.00

ACCESSORIES
- Benches, pg. 26-27
- Ventilation, pg 28-32
- Shading, pg. 25
- Heating, pg. 36
- Misting, pg. 37

See much more at charleysgreenhouse.com

Sink Bench
Convenient and practical
Spoil yourself with a sink to fill water cans, soak and sterilize pots, and much more! This deep sink (16” x 21” x 9” deep) includes a faucet for hot and cold water and a rinse sprayer. Connect sink drain to external drainage. Western Red Cedar frame is precut and drilled for quick assembly. 26½” wide x 30” high.

D3067-4  4 ft Sink Bench, natural $465.00
D3067-6  6 ft Sink Bench, natural $495.00

Strong, Durable Bench Top
This super tough bench top is made from durable resin material.

D1002 Resin Grid Top, 48” L x 24½” W, set of 2 $69.00

Do-it-yourself fast, with Quick Frame
Build a greenhouse or storage shed without making difficult angle cuts on the lumber. Use these galvanized steel connectors to join standard 2 x 4’s. Two types of connectors make all the connections: sill, eave, gable and ridge. Quick Frame Kit includes building plans, list of materials and enough connectors to build a 7’ x 8’ structure. Order two kits for an 8’ x 14’, or three kits for a 10’ x 22’.

B3492 Quick Frame Kit $59.95

Portable Greenhouse with Shelving
Innovative features, quality construction and easy set up make this greenhouse a great choice for extending your growing season in spring and fall. Designed for use as a portable, 3-season grow house only – features include:

• Sturdy 3-Rib, Peaked 1” Steel Frame with Premium Powder-Coat Finish
• Triple-Layer, Rip Stop, UV-Treated, Polyethylene Cover with Side Vents
• Double Zippered Door with Screened Window
• Tie Wrap Fasteners
• Auger Anchors
• Complete Hardware Kit

• (2) 4 ft. x 9” Shelving Kits for built-in staging
• Step-by-Step Instructions
• 6 ft W x 8 ft L x 6 ft 6 in H

A2552 Portable Greenhouse w/Shelving $195.00

Questions? Call a Greenhouse Consultant 1-800-322-4707
Charley’s Cedar Potting Bench

This attractive, sturdy cedar bench makes a convenient surface for gardening projects like planting seed trays and potting-up transplants! Handy 5½” W shelves keep accessories within easy reach. Work surface is 30” high. Overall 25½” D x 54” H. Add optional Bottom Shelf for extra storage.

- Charley’s Potting Bench, 4 ft $326.00
- Charley’s Potting Bench, 6 ft $398.00
- 4 ft Bottom Shelf, 21¼” x 46” $72.00
- 6 ft Bottom Shelf, 21¼” x 70” $95.00

What’s special about our shelves?

Charley’s shelves have twice as much wire support, only 1/2” apart to better hold small pots, tools and supplies. These shelves offer the best air circulation, allow light through to the plants below and won’t collect soil or water. Choose white enamel or extra durable green or brown powder-coat finish.

Wire Shelving - Lets light and air through

These attractive wire mesh shelves come with braces, wall hooks and screws. Order bolts separately below.

<table>
<thead>
<tr>
<th>Wire Shelf</th>
<th>D1455 White</th>
<th>D1455 Grn or Brn</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 ft x 12”</td>
<td>$45. ea</td>
<td>$74. ea</td>
</tr>
<tr>
<td>6 ft x 12”</td>
<td>$59. ea</td>
<td>$99. ea</td>
</tr>
<tr>
<td>4 ft x 16”</td>
<td>$52. ea</td>
<td>$86. ea</td>
</tr>
<tr>
<td>6 ft x 16”</td>
<td>$69. ea</td>
<td>$112. ea</td>
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</table>

Bolts – 4 ft shelves need 4 bolts ea.
6 ft shelves need 6 bolts ea.

K7473 English Greenhouse Bolts, 10 pak $4.95
(For English style greenhouses like Vitavia, Eden, Europa, Manor, Halls, Cambridge, Sovereign, Juliana, Victoria & others.)

K1410 SolarGro Greenhouse Bolts, 10 pak $5.95

K8487 #12 Steel Jack Chain, 5 ft $7.95
(Add extra support to your shelf. Hang anything up to 29 lbs.)

Solid Cedar Benches

Exclusively from Charley’s, these benches are crafted from hand-selected Western Red Cedar clear heartwood, an ideal material because of its natural resistance to insects and decay. Made from 1” thick lumber, these benches are very sturdy. Stain or allow to weather to a silvery gray. Easy assembly.

<table>
<thead>
<tr>
<th>Charley’s Greenhouse Bench</th>
</tr>
</thead>
</table>

Save time and effort with our precut benching! Charley’s shop has done the designing, testing, measuring and cutting for you. All you need is an electric drill to drive screws. The frame is Western Red Cedar, known for its resistance to insects and decay. The wire top is made with hard-to-find 1/2” wire spacing that supports even the smallest pots. Allows excellent air circulation and will allow light to plants below. Optional green or brown powder-coat finish is extra durable. 30” high. Choose 25½” or 33½” wide.

D1095 Wire-Top Greenhouse Benches

<table>
<thead>
<tr>
<th>Width</th>
<th>4 ft</th>
<th>Price</th>
<th>6 ft</th>
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<td>25½”</td>
<td>$176.00</td>
<td>$216.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>33½”</td>
<td>$189.00</td>
<td>$238.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

charleysgreenhouse.com  800-322-4707
Solar is smart!

How do Solar Vent Openers work?

“Solar” vent controls convert heat energy from the sun into mechanical energy to open the vents. The hotter it gets, the wider the vents are opened.

The power comes from a cylinder with a piston inside. It contains a mineral wax that expands when heated. This expansion pushes the piston, driving a leverage arm that lifts the vent. As the temperature lowers, the wax cools and shrinks. A strong spring closes the vent and resets the piston. Opening and closing are gradual changes, allowing just the right amount of air flow for cooling.

Which vent opener do I need?

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Roof Vent</th>
<th>Side Vent</th>
<th>Lifting power</th>
<th>Winds +50 mph</th>
<th>Gradually opens to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Univent</td>
<td>✔</td>
<td>✔</td>
<td>14 lbs</td>
<td>—</td>
<td>18&quot;</td>
</tr>
<tr>
<td>Optivent</td>
<td>✔</td>
<td>—</td>
<td>14 lbs</td>
<td>—</td>
<td>18&quot;</td>
</tr>
<tr>
<td>MK7 Triple Spring</td>
<td>✔</td>
<td>✔</td>
<td>14 lbs</td>
<td>—</td>
<td>12&quot;</td>
</tr>
<tr>
<td>MK7 Orchid</td>
<td>✔</td>
<td>✔</td>
<td>14 lbs</td>
<td>—</td>
<td>12&quot;</td>
</tr>
<tr>
<td>MK7 Hydraulichck</td>
<td>✔</td>
<td>—</td>
<td>14 lbs</td>
<td>✓</td>
<td>12&quot;</td>
</tr>
<tr>
<td>MK7 Super</td>
<td>✔</td>
<td>✔</td>
<td>35 lbs</td>
<td>✓</td>
<td>15&quot;</td>
</tr>
<tr>
<td>Mega Vent</td>
<td>✔</td>
<td>✔</td>
<td>33, 47, or 66</td>
<td>✓</td>
<td>18&quot;, 16&quot;, or 12&quot;</td>
</tr>
<tr>
<td>Giga Vent</td>
<td>✔</td>
<td>—</td>
<td>33.47, or 66</td>
<td>✓</td>
<td>18&quot;, 16&quot;, or 12&quot;</td>
</tr>
</tbody>
</table>

- Openers can be installed in series to open a long or heavy vent.
- All openers have a 2-year mfg. warranty.

NEW! Mega Vent Control

With a 26-lb. lifting capacity, twice that of standard solar openers, the Mega Vent is the best choice for heavier roof vents, side windows and skylights.

A built-in hydraulic damper prevents the vent from being opened by high winds. An extra-strong return spring provides positive closing action. The cylinder can be adjusted for opening temperatures between 63° F - 77° F. Fully open at 15°. Aluminum finish.

C3530 NEW Mega Vent Control, aluminum $99.00
C3532 Replacement Cylinder for Mega Vent $32.00

NEW! Giga Vent Control

Heaviest lifting capacity.

The ultimate solar vent control! Opens and closes vents weighing up to 66 lbs. A hydraulic safety damper prevents gusty wins from damaging the vent. Adjustable operation starting at 62° F and wide open at 86° F. Maximum opening is 18°. Overall length 24°. Multiple mounting positions allow installation on most vents.

C3526 NEW Giga Vent Control $149.00
C3528 Replacement Cylinder for Giga Vent $68.00

Harness The Sun

Univent Control

Multiple uses

This unique vent control will open and close roof vents and side vents, a cold frame lid, top-hinged wall vents, or even the greenhouse door! The Univent is the only solar-powered control with a quick-release mounting bracket and two closing springs for extra strength. Just grasp the “clutch” arm and squeeze for easy detachment. This allows a cold frame lid to be fully opened for access to the plants. The cylinder can be adjusted for opening temperatures between 60° F and 77° F. Full opening of 18° is reached at 86° F. Lifting capacity is 15 lbs. Corrosion-resistant aluminum and stainless steel.

C3515 Univent Control $49.95, 2+ $44.95 ea
C3513 Replacement Cylinder $19.95

Louver Window

Add extra ventilation to your greenhouse. These adjustable glass vanes direct more fresh air into the greenhouse, allowing more excess heat to escape through the roof vents. Replaces 24" W x 18" H glass pane. Aluminum frame with tempered safety glass vanes.

K7432 5-Blade Louver Window
- Anodized Aluminum $49.95
- Green or Black finish $59.95

Liberty Louver Opener

This solar-powered control will open and close a louver window as temperatures change, enhancing air flow through the greenhouse as needed. Operating range is easily adjustable.

C3533 Liberty Louver Opener $44.95
C3513 Replacement Cylinder $19.95

Louver Window – Aluminum frame, tempered safety glass vanes. Replaces a 24” W x 18” H glass pane.

K7432 5-Blade Louver Window, Anodized ALUMINUM $49.95
GREEN finish or BLACK finish $59.95

Shop our website for more Solar Products
For Automatic Ventilation!

**Bayliss Triple Spring Control**
*Standard temp range 55° F to 75° F*

With 2 extra closing springs, this model has more strength to hold a vent closed. Extra closing power makes it the best model for controlling top-hinged wall vents.

- **C3503** Bayliss MK7 Triple Spring $69.95, 2+ $64.00 ea
- **C3510-SS** Bayliss MK7 Replacement Power Tube $29.95

**Bayliss Orchid Vent Control**  *For tropical greenhouses*
*Orchid temp range 65° F to 85° F*

This solar-powered control operates at a higher temperature than other similar controls, allowing the greenhouse to become about 10° warmer (65° F) before the control begins to open the vent. This triple-spring design can be used on either wall vents or roof vents. Lifting capacity 15 lbs. Maximum opening 12".

- **C3505** Bayliss Orchid Vent Control $79.95, 2+ $75.00 ea
- **C3510-65** Bayliss Orchid Replacement Power Tube $35.95

**Automatic Cold Frame Vent**

USES NO ELECTRICITY! Opens and closes by a temperature sensitive spring mechanism. Range 40° F to 70° F. Install one front vent for intake and one high in the back for warm air exit. Size: 8" x 15-1/2".

- **C3336** Thermo-Cold Frame Vent® $19.95

**MK7 Super**
*Heavy lifting capacity*

Lifts 35 lbs. Can set to start opening between 65° F and 75° F. Maximum opening 15".

- **C3540** Bayliss MK7 Super $198.00, 2+ $186.00 ea
- **C3541** Bayliss Super Replacement Power Tube $89.00

**Hydraulichck** - *Heavy-duty control*
*Standard temp range 55° F to 75° F*

This control is the best choice for large roof vents and side-hinged wall vents. A built-in hydraulic damper prevents the vent from being opened by high winds. The damper only allows gradual opening as called for by the solar-powered piston. Two return springs provide positive closing action.

- **C3509** Bayliss Hydraulichck $116.00, 2+ $99.00 ea
- **C3510-55** Bayliss Replacement Cylinder $29.95

**NEW! Solar Shutter Control**

Automate our aluminum shutters – sizes 16", 20", 24", 30" (C3212, page 31) – to let fresh air into your greenhouse or garden shed. Our adjustable Liberty Control is heat activated to open and close the shutter.

Kit includes Liberty Opener #C3533 with custom hardware to attach to shutter and installation instructions. Order shutter separately.

- **C3534** Solar Shutter Control $54.00

**Manual Vent Control**

Lift heavy vents or skylights with this precision-built vent control. Smooth running linear gear lift and hold vent at any opening up to 13° that you select. Change as needed. Recommended for occasional use venting. (Use automatic controls for daily venting.) All rustproof materials. Max. lift 150 lbs.

- **C3535** Manual Vent Control $74.00
- **C3537** 5 ft Extension Handle $36.95
- **C3537** 10 ft Extension Handle $54.95

charleysgreenhouse.com  800-322-4707  29
Greenhouse ventilation is based on a specific formula regardless of your plant types and climate zone. You may vary shading and misting to accommodate plant needs and your local climate.

The exhaust fan should change the air in the greenhouse in about 1½ minutes. Fan capacity is rated in Cubic Feet per Minute (CFM). For your correct fan size in CFM, calculate your greenhouse Volume:

\[
\text{Length x Width x Average Height = Volume.}
\]

(Average Height: From halfway up a roof rafter, measure straight down to the floor.)

Multiply the Volume by 0.75 for your fan CFM. Now select a fan with a CFM rating near or greater than your calculation. ALL of our fans can be slowed with a fan speed control.

(Caution: A fan that is too small will provide very little cooling.)

Some shading will be required in warmer months, and misting or evaporative cooling may also be necessary.

### Typical Greenhouse Calculations

<table>
<thead>
<tr>
<th>Size</th>
<th>Volume</th>
<th>Fan CFM (V x 0.75)</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>8’ x 10’ x 7.5’</td>
<td>600 cu. ft.</td>
<td>450</td>
<td>585</td>
</tr>
<tr>
<td>10’ x 16’ x 7.5’</td>
<td>1200 cu. ft.</td>
<td>900</td>
<td>975</td>
</tr>
<tr>
<td>12’ x 24’ x 8’</td>
<td>2304 cu. ft.</td>
<td>1,728</td>
<td>1,900</td>
</tr>
</tbody>
</table>

### Schaefer Greenhouse Vent Systems

All components of these systems are designed for the humid greenhouse environment. Parts are made of aluminum, stainless steel and PVC. Steel parts are either enameled or vinyl coated. Variable speed fans are mounted on a rustproof PVC shutter. The PVC shutters close tighter than other shutters. The shutter motor is pre-installed on the shutter frame. The thermostat and variable fan speed control are “waterproof” when installed according to directions.

**C3460**
- 12’ Fan (760 cfm), one 22’ Shutter $589.00
- 12’ Fan (760 cfm), two 16’ Shutters $809.00
- 16’ Fan (1,250 cfm), two 22’ Shutters $899.00
- 20’ Fan (3,000 cfm), three 22’ Shutters $1,259.00

### New! Solar Exhaust Fan

Automatically vent excess hot air from your greenhouse with a fan powered by the sun! Prewired “plug-n-play” system simplifies installation. No electrician required. System includes exhaust fan with shutter, thermostat, solar panel and 10 ft. solar PV cables with MC quick connectors.

**C3056 Solar Exhaust Fan**
- 12” Fan System (810 cfm) $795.00
- 16” Fan System (1,310 cfm) $895.00
- 20” Fan System (2,200 cfm) $995.00
Pre-wired Economy Vent Systems
This low-cost, automatic fan reduces excessive heat on hot, sunny days. Set the thermostat for maximum desired temperature, and the fan turns on to pull cooler air through the intake shutter. System includes fan with 12-ft. power cord, pre-wired waterproof thermostat, intake shutter.

C3410 • 10” Fan (585 cfm) w/16” Shutter $270.00
• 12” Fan (975 cfm) w/20” Shutter $315.00
• 16” Fan (1,900 cfm) w/24” Shutter $320.00

Aluminum Shutter – Provides fresh air
Allows air to be drawn into greenhouse by exhaust fan. Use with Shutter Motor (order separately) to open vanes automatically when fan turns on, close when fan is off. Heavy-duty extruded aluminum frame.

C3212 Aluminum Shutters
• 12” Shutter, 1.00 sq ft $42.50
• 16” Shutter, 1.78 sq ft $54.50
• 20” Shutter, 2.78 sq ft $68.95
• 24” Shutter, 4.00 sq ft $84.50
• 30” Shutter, 6.00 sq ft $96.50

C3259 Shutter Motor $145.00

Pre-Wired Fan Speed Control
Dial in the precise air flow you want from your exhaust fan or circulation fan. Use with our single-speed fans up to 15 amps. Pre-wired on a 6 ft. cord with grounded plug. Rocker switch selection: Full speed, variable speed, OFF.

E3137 Pre-Wired Fan Speed Control $29.95

Wall Thermostat Economical control

E3129 Wall Thermostat $36.95

Fan Powered Ventilation Systems
Powerful, forced air ventilation automatically cools your greenhouse when needed. Each exhaust fan is matched with a specific size of shutters to provide you the optimum airflow. The weatherproof thermostat allows you to set operating temperature to turn your system on and off automatically. A fan speed control enables seasonal adjustments to airflow. Shutter motors hold shutters wide open for maximum airflow.

Includes shutter mounted exhaust fan, motorized shutters, thermostat and fan speed control.

C3470 • 10” Fan (585 cfm) two 12” Shutters $595.00
• 12” Fan (800 cfm) two 16” Shutters $675.00
• 12” Fan (975 cfm) two 16” Shutters $645.00
• 16” Fan (1,900 cfm) two 20” Shutters $685.00
• 20” Fan (2,625 cfm) two 30” Shutters $765.00
• 20” Fan (3,400 cfm) two 30” Shutters $799.00

Waterproof Greenhouse Thermostats
These reliable thermostats will automatically control a fan system or heater. The moisture-proof case offers protection from the wet greenhouse climate. External stainless steel temperature sensor is very accurate and quick to respond to temperature changes. The large temperature dial is easy to read and set. Range 40° to 110° F. Rated 14 amps, 1500 watts, 120 VAC.

E3124 • Greenhouse Thermostat $59.95
• Prewired Fan Thermostat $79.95
• Prewired Heater Thermostat $79.95

charleysgreenhouse.com
Finger-Safe Fan
Set this sleek fan anywhere you want to improve air circulation – bench, shelf, or hang from a wall or rafter. It features an extra-safe soft blade and a 2-speed motor to effectively move air up to 30 ft. The motor pivots on its chrome stand to direct air exactly where you want it. Designed for quiet operation and long life. 120V, 60 Hz, 0.38 amp. 6 ft. power cord. 2-year mfg. warranty.

C3006  Finger-Safe Fan  $38.95

Clip-On Fan
Simply clamp onto greenhouse framework. Quiet, 2-speed operation gently circulates fresh air. 6” blade delivers 90 cfm on low, 190 cfm on high, moving air over 20 ft. Fan head tilts and rotates to point any direction. Uses only 37 watts. 6-ft. power cord.

C3068  Clip-On Fan  $37.50

Charley’s Heat Saver Fan
This fan is specially designed to pull warm air off the ceiling and push it down to the floor. Heating costs are reduced up to 20% because heat loss through the roof is reduced. Improves growing conditions by raising the temperature at bench level. Improves air circulation by reducing spots of cold or stagnant air. Quiet 78 cfm fan is permanently lubricated for years of service. Energy efficient: 11 watts.

C3086  Heat Saver Fan  $124.00

Air Circulation

Improve Your Air Circulation

Long-Life Circulation Fan
This commercial quality, rugged fan will provide years of non-stop air circulation with a gentle breeze your plants will love. The quiet, 8” fan is housed in a 9”, epoxy-coated, steel guard. The maintenance-free motor never needs oiling. 450 cfm. Effectively circulates air up to 30 feet. Ceiling mount. Mounting bracket included. 115 volts, 0.6 amps.

C3043  Long-Life Circulation Fan  $134.95

Charley’s Tip

1. Air Circulation:
   - It is important to circulate air through the foliage of plants. This brings a fresh supply of needed carbon dioxide to the leaves. Air circulation also prevents diseases that start in areas of stagnant air.

2. Heat Desratification:
   - Because warm air rises, a small fan is needed to pull warm air off the ceiling and push it down to the plants on the benches and floor. In winter months, this helps reduce heating costs.

Wall-Mount Oscillating Fan
The oscillating action of this fan gives plants a short, brisk breath of fresh air that does the best job of removing stale air from between leaves. The oscillating mechanism rotates the fan head 90° left and right. Airflow can also be adjusted up or down. Mounts out of the way on the wall. 3-speed selector switch with pull-cord: 930, 780, 620 cfm. 6 ft. grounded power cord. 120 volts, uses 39 watts max.

C3067  12” Wall-Mount Oscillating Fan  $86.00

Comfort-Grip Garden Shear
A very comfortable garden/household shear for use in delicate pruning situations. The narrow blades, made of high quality cutlery steel, allow you to easily prune in tight, fragile places. Overall length 8”.

T4524  Comfort-Grip Garden Shear  $12.95

NEW! Universal Phone Microscope
View and take an image of a pest, disease, or lovely ladybug and send it off quickly to be assessed or shared. This mobile phone microscope is a compact, lightweight, 60X tool that can be clipped onto smart phones and mobile phones that have a camera. A bright LED light provides good light, no matter where you are. Perfect for gardening and plant exams. Includes 60X microscope, UV and LED light, clamp and three LR1130 batteries.

N3707  Phone Microscope  $9.95

Pruners, Hori-Hori, Weeder online
NEW! Wireless Color Weather Station
Monitor your greenhouse and garden climate from this handsome base station in your home.
Know a wide range of weather information at a glance. Remote sensors can be placed up to 300 ft away, sending weather information to your 8" x 5½" LCD display.

- Records indoor/outdoor temperature/humidity
- 6 weather icons and forecast tendency indicator
- HI/LO temperature and humidity records
- Indoor/outdoor customizable temperature and humidity alerts (HI/LO/OFF)
- Heat index and dew point
- Atomic time and date sets itself

Indoor Temp: +32° F to 122° F. Outdoor Temp: -40° F to 140° F. Humidity range: 10% to 99%.
Size: 8.43" W x 5.48" H x 1.03" D
Supports up to 3 remote sensors (one included). Batteries included. (Station uses 3 "AAA" for backup, Sensor uses 2 "AA".) 5.0V AC adapter for primary power included.

N2677 Wireless Color Weather Station $49.95
N2679 Extra Remote Sensor $17.95

Digital 3-Way Soil Analyzer
Quickly and accurately get the information you need for optimal plant growth! Know the current ph, fertility (N-P-K), and temperature reading of your soil. Bold, easy-to-read digital numbers. Corded probe for testing. Complete guides for changing soil temperature, ph and fertility levels for maximum results for most popular plants. Batteries included.

N3681 Digital 3-Way Soil Analyzer $32.95

Create The Optimum Light For Your Plants
Determine and adjust the amount of light your plant needs. Measures in footcandles light from fluorescent and HID fixtures, and from the sun. A handy sensor on a 24" cord lets you easily measure under lights. Powered by a photo-voltaic cell – no batteries. Information for over 150 species included. Range 0 to 10,000 footcandles.

N3639 Light Meter $29.95

Create The Optimum Light For Your Plants
Determine and adjust the amount of light your plant needs. Measures in footcandles light from fluorescent and HID fixtures, and from the sun. A handy sensor on a 24" cord lets you easily measure under lights. Powered by a photo-voltaic cell – no batteries. Information for over 150 species included. Range 0 to 10,000 footcandles.

Jumbo Hygro Thermometer
Know your greenhouse climate. See current indoor/outdoor temperatures and indoor humidity at a glance. Big, bold, 1" LCD numbers are easy to read at a distance. Press the MAX/MIN button for maximum/minimum readings. Reset the memory by pressing the CLEAR button. Use the 9-ft. remote sensor to measure outdoor temperature.

Press the IN/OUT button to switch between indoor/outdoor temperatures. Temperature range: Indoor -22° F to 122° F, Outdoor -58° F to 158° F. Indoor Hygrometer range: 20% RH to 99% RH. Wall hang or freestanding. Uses one "AAA" battery (included). Size: 4" x 4¼" x 7/8".

N2617 Jumbo Hygro Thermometer $19.95

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T-12 Fluorescent Lamp – Fits older, standard fixtures.
T-8 – Same output as T-12, but uses 20% less electricity.
T-5 – Newest design, highest output.

- **T-12 Lamps** – Specially designed spectrum for flowering and foliage plants. Great for germinating seeds.
  - **LS112 24** 2 ft – Agrobrite® full spectrum, 20 watts, 875 lumens, 5200 K, CRI 85
    - 4 pak $47.00 12 pak $129.00
  - **LS112 48** 4 ft – Agrobrite® full spectrum, 40 watts, 2200 lumens, 5200 K, CRI 88
    - 4 pak $48.00 12 pak $132.00 ea

- **T-12 High Output Lamps 4 ft** – World’s brightest T-12 lamps grow plants faster: 40 watts. Very close to natural sunlight (6700K), 3240 lumens, extra long life: 48,000 hrs.
  - **L5000 48 6 FS** T-12 High Output, 4 ft
    - 6 pak $129.95, 2+ paks $119.00 ea

- **T-8 Sunshine Grow Lamps**
  - 4 ft. L, 32 watts, 6700K, 2900 lumens, life 20,000 hrs.
    - **L5008 48 6 FS** 6 pak $64.00

- **T-8 Super Life Grow Lamps**
  - 4 ft. L, 32 watts, 6700K, 3010 lumens, life 40,000 hrs.
    - Very close to natural sunlight. For T-8 fixtures only.
    - **L5008 48 3 LFS** 3 pak $63.00
    - **L5008 48 6 LFS** 6 pak $122.00

- **T-5 Lamps** – Brightest fluorescent tubes. Offer full daylight at great savings. Life 10,000 hours.
  - **L5019 24** T-5 Agrobrite, 2 ft
    - 24 watts, 6400K, 2000 lumens
    - 4 pak $36.00
  - **L5019 48** T-5 Agrobrite, 4 ft
    - 54 watts, 6400K, 5000 lumens
    - 4 pak $46.00

*Important: T-12, T-8 and T-5 lamps are not interchangeable. Only order lamps designed for your fixture.*

**Grounded 24-Hour Timer**
Ideal for lighting and other equipment requiring electrical grounding. Plug directly into grounded receptacle. 48 on/off cycles in 15-minute intervals. Rated 15 amps.
- **E3325 Equipment Timer** $11.50

**Waterproof Light**
Ideal as an overhead light, and bright enough (10,200 lumens) to use as a waterproof grow light. Built-in mirror-like reflector focuses and increases light on plants. Growing area 24” x 54”. Fiberglass housing, polycarbonate lens, 8-ft. power cord. Order three T-8 lamps separately.
- **L5028 Waterproof Light** $195.00
- **L5008 48 3 LFS T-8 Long-Lasting Lamps (3 pak)** $63.00

**T-5 Grow Light Systems**
Add extra grow light while keeping your energy costs down. Easy set up and a feather lightweight design make this light system an indoor gardener’s delight! Stand it above your plants, or use the attached sturdy hangers to hang if from overhead. Comes pre-assembled.
- 4 full spectrum, 6400K T5 lamps - energy efficient
- 4 lightweight reflectors
- 2 reflector docks, 3 link cords
- 4 legs (18” ea.) – plenty of height for seed starting, cuttings, herbs and more!
- 6 ft. power cord with ON/OFF switch

**L5368 T5 Grow Light System, 4 ft.** $149.95
- **L5366 T5 Grow Light System, 2 ft.** $129.95
Indoor Growing Possibilities

Convertible MH/HPS System

Provide your plants all the light they need for their complete growing cycle with this system. Start your plants with the foliage growing MH bulb and finish the blooming/fruiting cycle with an HPS bulb. Simply exchange the bulb in the reflector. The electronic ballast will automatically adjust the electricity to produce the highest light output for maximum plant growth.

The highly efficient reflector (23-3/4” L, 21” W, 8” H) offers bright, broad light delivery. It features a tempered glass lens, built-in socket and prewired 15-ft. lamp cord set. CSA certified. 5-year mfg. warranty on reflective materials. Standard MH and HPS bulbs included. Available in 250, 400, 600, and 1,000 watt dimmable.

L5482 Convertible MH/HPS System
- 250 watt $269.00
- 600 watt $385.00
- 400 watt $289.00
- 1,000 watt $495.00

Light Rail™ System (6 rpm)

This self-propelled motor moves your HID light back and forth along a 6 ft. track. The movement spreads the light over a wider area, allowing you to grow more plants under one light. A “Smart Drive Control” pauses the unit at each end of the track to allow uniform growth. The round-trip cycle takes approximately 25 minutes. Prewired 9-ft. cord. 120 volts. UL listed. 2 yr. mfg warranty. Max. weight capacity: 35 lbs. 70-1/2” total length. (Light not included.)

L5408 6-ft Light Rail System $245.00
L5408 3-ft Extension for Light Rail $18.00

Compact Light Carts

Grow and display your favorite plants, harvest fresh herbs, and start seeds for outdoor gardening. Fixtures are prewired and include 2 wide spectrum (T-12) tubes for each tier. Lights can move up or down on vertical tracks. Waterproof trays are included for each fixed shelf. Aluminum frame with casters. Easy assembly.

L5024 2-Tier Light Cart (52” L x 12” W x 40” H) $379.00
Optional Humidity Cover L5027 2-Tier $39.95

NEW! LED Strip Light

This LED light has been specially developed to maximize overall performance. The full spectrum light (6400K) provides the best lighting for propagation (cloning), and the germination and nurturing of small seedlings. Wide light distribution at 120°. Multiple lights can be daisy-chained to cover a wider area.

Comes with 6 ft. power cord with ON/OFF switch and installation hardware for hanging or flush-mount under a shelf. Rated 50,000 hours. UL listed.

L5036 LED Strip Light • 24” Strip Light $59.95
- 48” Strip Light $99.95

NEW!

Ultra LED Grow Bulb

This LED grow bulb provides Full Spectrum (5000K) light for indoor, commercial hydroponic plant growth. Grow your plants, flowers and vegetables indoor year round. Cool operation -- will not burn plants. Excellent energy-saving replacement for 75 watt grow light. Uses only 12 watts. Life 20,000+ hours!

L5044 Ultra LED Grow Light $18.95
2+ $16.50 ea

Clamp-On Light Fixture

Easily move your light wherever you need it. Standard socket for CFL or LED bulb. 8” reflector. 6 ft. power cord. On-Off switch. (Order bulb separately.)

L5207 Clamp-on Fixture $19.95

NEW! Dual T8 LED Grow System

The full spectrum LED grow light in this system uses only 34 watts to effectively replace a 64-watt T8/48” fluorescent fixture. Use it for all phases of growing: germination, vegetative growth and flowering. LED colors are Full Spectrum White and Deep Red. System includes two lights and fixture. Mount horizontal or vertical 4” to 8” from plants. Coverage area: 16” x 50”. Rated 50,000 hours. UL Listed.

L5062 Dual T8 LED Grow System $139.00

Shop our full line of Propagation @ charleysgreenhouse.com
Proven Reliable Heaters

Direct-Vent Gas Heaters

*Thru-The-Wall*

Wall-mounted design means easy, low cost installation with no chimney. The direct wall vent draws outside air for combustion and vents exhaust gases directly outside. No electricity required, so heater will continue to operate normally even during an electrical power outage. Remote wall thermostat provides precise heating control.

Push button system lights the pilot. 100% safety shutoff. The optional Blower is recommended.

60 cfm, 115 volts, prewired 6 ft. power cord.

The optional Galvanized Steel Mounting Panel replaces the glazing where the heater is installed. Size: 24” x 35-1/2”. White enamel finish on one side. Two 25-1/2” mounting bars.

**Direct-Vent Gas Heaters (Specify Nat. Gas or L.P.)**

**C4110**

- 7,000 Btu Output, 16” W x 21” H x 9” D, $819.00
- 10,500 Btu Output, 20” W x 24” H x 9” D, $915.00
- 17,500 Btu Output, 37” W x 28” H x 11” D, $1,119.00
- 24,500 Btu Output, 37” W x 28” H x 11” D, $1,209.00

**C4135**

- Blower for 7,000 - 10,500 Btu $195.00
- Blower for 17,500 - 24,500 Btu $199.00

**C4200** Galvanized Steel Mounting Panel $64.95

240-Volt Greenhouse Heater

This quality heater will give you years of dependable service. At 5,700 watts, 19,453 Btu’s, it is the highest output portable heater available. The heater comes with a Universal Mounting Bracket for floor, wall or ceiling. Highly accurate capillary thermostat. (Range 40° to 90° F) Fan motor is permanently lubricated. Protected by an Auto-Reset Thermal Limit Control. Size 10” x 13” x 12”. Weight 23 lbs. 6 ft. power cord (included). Have your electrician install onsite. 240 volts, 24 amps. Made in U.S.A.

**C4017 Super Heater** $395.00

**PORTABLE GAS HEATERS**

**E3124 HEATER** $79.95

**Waterproof Thermostat**

This reliable thermostat will automatically control a greenhouse heater. The moisture-proof case offers protection from the wet greenhouse climate. External stainless steel temperature sensor is very accurate and quick to respond to temperature changes. The large temperature dial is easy to read and set.

Prewired, ready to use. Simply plug thermostat into standard wall outlet and plug your heater into special receptacle on the 6 ft. power cord. Range 40° to 110° F. Rated 14 amps, 1500 watts, 120 VAC.

**E3124 HEATER**

Prewired Heater Thermostat $79.95

**Charley's Tip**

**HOW TO CALCULATE HEAT REQUIREMENTS**

The following formula can be used to determine the approximate heating requirements of your greenhouse:

\[ A \times D \times 1.1 = \text{Btu's} \]

“A” is the total wall and roof surface area of your greenhouse. “D” is the difference between coldest outdoor winter temperature and the night temperature desired in your greenhouse. “Btu’s” is the heat requirement. Subtract 30% if greenhouse is insulated using double glazing or polyethylene liner. Subtract another 30% if it is a lean-to greenhouse on heated wall.

NEW! Charley’s Greenhouse Heater

Reliable, durable and moisture resistant make this heater practical for the greenhouse. Accurate temperature control is provided by the “hydraulic” thermostat. An exterior sensor enables quick and precise temperature adjustments.

All components are “heavy-duty.” The heating element is a 1/4-inch thick coil. The cabinet is powder-coated steel. The fan motor is totally enclosed and permanently lubricated. The cabinet is designed to shed water to protect controls.

Features: High Capacity Fan that moves air 30 ft; Thermostat Control Knob (low to high); OFF, Fan Only, Heat Knob, Carry handle. Safety features: Grounded 6 ft Power Cord; Alarm Indicator Light; Automatic Thermal Reset; Power “ON” light. UL listed. 14” H x 10” W x 10” D.

**C4027 Charley’s 120-Volt Heater - 1500 watts, 5,200 Btu’s** $129.00

**C4029 Charley’s 240-Volt Heater - Requires a 240-volt receptacle.** $139.00

Low Setting: 1500 watts, 5,200 Btu’s / High Setting: 3000 watts, 10,400 Btu’s

Minimum/Maximum Thermometers online
Remove chlorine for healthier plants

Eliminate the harsh toxic effects of chlorine in your greenhouse and garden and be rewarded with faster growing plants that have more resistance to pests. This filter removes total chlorine, as well as lead, rust, sediments and odors — plus, it is pH balanced. Simply attach to your hose bib and hose.

Flow rate 2.5 gpm. Size 4” x 3”. Replace the Cartridge annually for best results.

W5423 • Chlorgon Water Filter $44.95
  • Chlorgon Replacement Cartridge $24.95

Keep ’em cool with this Misting System

When the super fine mist from this system starts drifting over your plants, they will be so much happier! Evaporation of the mist can cool a greenhouse 10° F to 20° F. This expandable system has a simple push-together assembly and solid brass fittings with 4-year mfg. warranty. The 5 nozzles are brass/ stainless steel (1/2 gph), and the 3/8” tubing is UV treated. Includes 10 ft. misting line with 10 ft. lead-in and hose coupling. See website for parts to extend up to 125 ft.

M6070 Professional Misting System $64.00
M6158B Pre-Wired Misting Solenoid Valve $89.95
M6121 Adapters for Solenoid
  • 1/2” PVC Pipe, set of 2 $9.95  • Garden Hose $13.50
E3452 Pre-Wired Humidistat $99.00
E3344 Short-Cycle Misting Timer $89.00

“Hard Water” Filter

Reduce or eliminate “white spots” on plant leaves caused by hard water. Protect misting and watering equipment from calcium build-up. 5-micron sediment filter with polyphosphate element. Connects to standard garden hose fittings. Max. 1 gpm flow, max. pressure 125 psi.

W5074 Hard Water Filter $23.95

Produce Cloud-Like Mist

Imitate the foggy mists of tropical jungles! Your plants will thrive in this super-fine mist that hangs in the air and drifts through the foliage. It is very effective for cooling, as well. Ruggedly built for long life, the centrifugal fogger is maintenance-free – no nozzles to plug up! Coverage is up to 250 sq ft. Portable: Simply fill the 1-gallon reservoir, or order Water Supply Line to connect built-in float valve to garden hose for full-time water supply. For automatic control, add a timer or humidistat. 1 gph (200 pts/day) output. Rotate exhaust head to direct fog, or remove head for maximum output. Size: 15” diam., 15” H. 5-ft. grounded power cord. 115 volts, 0.75 amps.

M6247 Charley’s Jungle Fogger $489.00
M6249 Optional Water Supply Line $9.95
E3452 Optional Pre-Wired Humidistat $99.00
E8104 Opt. Portable GFCI Shock Protector $14.95

NEW! Coil Hose

Ideal for watering in the home, greenhouse or patio. This strong but lightweight, polyurethane hose has memory polymers that let it expand and contract millions of times without losing the ability to recoil. Flexible in all weather conditions. Solid, chrome-plated, brass fittings. Drinking water safe. 3/8” inside diameter. 5-year mfg. warranty. Made in USA.

W1296 • 15 ft Coil Hose, Marine Blue $29.95
  • 25 ft Coil Hose, Eggplant $34.95
  • 50 ft Coil Hose, Eggplant $49.95
W4125 Optional Sink Faucet Adapter $10.95

Fogg-it Misting/Watering Wands

These top quality, chrome-plated wands are all-time customer favorites. The misting tip provides a fog-like mist, ideal for seed beds and orchids. Easy on/off thumb trigger provides instant control. Also includes a soft-flow pot watering nozzle. Wand fits any of Charley’s hoses or standard garden hose.

W2331 • Fogg-it 14” Mister/Waterer $22.95
  • Fogg-it 24” Mister/Waterer $27.95

charleysgreenhouse.com

800-322-4707
**The Polycarbonate Store**

**Our Toughest Poly Cover**

Protect your plants from weather extremes with the strongest poly cover you can buy! Woven from ribbons of ultra-violet protected poly. Sealed and waterproof. Diffuses sun-light, creating even light that helps prevent foliage sunburn. 85% light transmission and flexible to -60° F. Will not stretch or tear loose when properly installed. Lasts 4-5 years, even longer in northern states.

**B2316 Woven Poly, 16 ft wide** $6.90/linear ft.

**Charley’s Exclusive**

**New! Charley’s Storm Cover Panels**

Use this super-tough, woven poly cover over your existing glazing to fend off dangerous weather and protect your greenhouse from falling and blowing debris. Also creates an insulating air space to reduce heat loss.

Sealed and waterproof. Reinforced, double hem with brass grommets every 24" for easy tie-down to foundation or ground anchors. Rated 84% light transmission.

**B2308 Charley’s Storm Cover**

- 10" x 12" $84.95
- 12" x 16" $136.95

E-mail customerservice@charleysgreenhouse.com or call us for quotes on custom sizes.

**TwinWall 1/4" (6 mm) Insulated Glazing Panel**

This double-walled polycarbonate is one of the most cost effective greenhouse coverings available. It is popular because of its insulation value, lightweight, toughness, easy handling, rigidity, long service life, high light transmission, and neat appearance. Use TwinWall for new installations or re-glazing an existing greenhouse. Heat Saving: 50% energy savings over single-wall coverings (R Value = 1.6). Light transmission 85%. Dimensions + or - 1/8".

**B1274**

- 2’ x 4’ $19.20, 5+ $17.50 ea ($30)*
- 2’ x 5’ $23.50, 5+ $21.50 ea ($35)*
- 2’ x 6’ $26.90, 5+ $24.40 ea ($40)*
- 2’ x 8’ $34.50, 5+ $31.25 ea ($80)**
- 4’ x 8’ $61.00, 5+ $54.90 ea ($80)**
- 4’ x 10’ $76.00, 5+ $68.40 ea ($100)**
- 4’ x 12’ $91.50, 5+ $82.50 ea ($120)**

**CRATING 6 mm Panels:**

* Add oversize shipping and boxing charge for each carton – 4 ft L and 5 ft L, up to 14 panels per carton; 6 ft L, up to 10 panels per carton.
** Add crating charge, 2’ x 8’ and larger panels are shipped by motor freight – call for rate.

**3-Wall Heat Saver Polycarbonate 10 mm**

Extra strength and maximum insulation in the same panel! This 10 mm (3/8") polycarbonate has deeper internal ribs to increase resistance to wind and snow loads. The ribs also provide excellent diffusion of sunlight to prevent plant sunburn. 74% light transmission. We stock sizes listed. Other sizes available cut-to-order in 24' and 48' wide, up to 12 ft. Dimensions + or - 1/8", R = 2.1

**B1290**

- 2’ x 4’ $25.00, 5+ $23.00 ea ($30)*
- 2’ x 5’ $31.00, 5+ $28.00 ea ($35)*
- 2’ x 6’ $38.00, 5+ $34.00 ea ($40)*
- 2’ x 8’ $48.00, 5+ $44.00 ea ($80)**
- 4’ x 8’ $89.00, 5+ $79.00 ea ($80)**
- 4’ x 10’ $109.00, 5+ $99.00 ea ($100)**
- 4’ x 12’ $129.00, 5+ $119.00 ea ($120)**

**CRATING 10 mm Panels:**

* Add oversize shipping and boxing charge for each carton – 4 ft L and 5 ft L, up to 10 panels per carton; 6 ft L, up to 7 panels per carton.
** Add crating charge, 2’ x 8’ and larger panels are shipped by motor freight – call for rate.

**Greenhouse Poly Cover**

This poly transmits over 90% of sunlight, is UV protected, and the strong 6-mil thickness resists wind and snow. 4-yr. mfg. warranty.

**B2320-15**

- 15% fl wide 15% fl wide $84.00 $99.50
- 20% fl wide 50 ft $159.00 $159.00
- 25 ft $242.00 $299.00

**B7524** 1” Vented Multi-Wall Tape $32.80 (for 6 mm, 8 mm, and 10 mm polycarbonate panels)

**B7526** 1¼” Vented Tape $49.95 (for 16 mm and 25 mm polycarbonate panels)

**Low Profile Aluminum Bar Cap**

Permanent seal for roof or wall gazing. Aluminum cap with rubber seals.

Green, Brown, White. 4 ft, 6 ft, 8 ft, 10 ft, 12 ft.

**B1459 Low Profile Bar Cap** $3.15/ft.

**$50.00 minimum order. Add $15.00 for packaging.**

**Bar Cap Screws**

- 1½” #8 Bar Cap Screws, 100 pak
  - #8 screws (for 6 mm, 8 mm, and 10 mm polycarbonate panels) $19.95
  - #8 screws (for 16 mm polycarbonate panels) $17.95
- 1¼” #8 Bar Cap Screws, 100 pak
  - #8 screws (for 6 mm, 8 mm, and 10 mm polycarbonate panels) $19.95
  - #8 screws (for 16 mm and 25 mm polycarbonate panels) $17.95

**B7524** 1” Vented Multi-Wall Tape $32.80 (for 6 mm, 8 mm, and 10 mm polycarbonate panels)

**B7526** 1¼” Vented Tape $49.95 (for 16 mm and 25 mm polycarbonate panels)

**Aluminum Bar Caps for Roof**

Use these maintenance-free glazing caps to secure glass or polycarbonate (multi-wall) to supporting framework. Includes rubber gasket that seals out moisture. Fasten with screws (not included) every 10 inches. Channel cover hides screws to give a finished, professional appearance. Dark Brown finish. Caps are 2’ wide (Length + or - 1/8”). Tape #B7521 recommended on framework, under the glazing. Bar Caps 10 and 12 ft. long are shipped via motor freight. (Call for quote.)

**B1456**

- Bar Cap, 4 ft length $15.95
- Bar Cap, 6 ft length $22.50
- Bar Cap, 8 ft length $36.00
- Bar Cap, 10 ft length $41.95
- Bar Cap, 12 ft length $49.00

**$50.00 minimum order. Add $15.00 for packaging.**
Polycarbonate Capping Systems
Use these special pieces to hold the panels in place. Tough, sunlight resistant polycarbonate. Other lengths available.

Polycarbonate END Caps - CLEAR
<table>
<thead>
<tr>
<th>6 mm</th>
<th>10 mm</th>
<th>16 mm</th>
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<tbody>
<tr>
<td>B1480</td>
<td>B1488</td>
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<td>8 ft</td>
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<tr>
<td>12 ft</td>
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Polycarbonate JOINER Caps - CLEAR
<table>
<thead>
<tr>
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<th>10 mm</th>
<th>16 mm</th>
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</thead>
<tbody>
<tr>
<td>B1491</td>
<td>B1497</td>
<td>B1492</td>
</tr>
<tr>
<td>4 ft</td>
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<td>$15.60</td>
</tr>
<tr>
<td>12 ft</td>
<td>$18.40</td>
<td>$23.50</td>
</tr>
</tbody>
</table>

$50.00 minimum order. Add $15.00 for packaging.
† Over 8 ft L ships Motor Freight – call rate.

Silicone Sealant
BEST CHOICE for polycarbonate!

B7533 Sikasil-V-Plus Sealant $10.50

Foam Glazing Tape
Bonds glass or multi-wall poly to framework. Does not absorb moisture. Super sticky both sides. 150 ft.

B7521 3/8" w x 1/16" thick Foam Tape $14.95

Shop more polycarbonate and accessories @ polycarbonatostore.com
NEW! Ultimate LED Grow Light

This “intelligent” plant light can easily be controlled to provide your plants with optimum light for growth, bloom and health maintenance. Just select a program for the specific LED output needed: 12-hour “Bloom,” 16-hour “Grow,” 18-hour “Veg,” or 21-hour “Clone.” 8 different LED’s provide the full growing spectrum. LED’s rated 50,000 hours. Fixture is “daisy-chainable.” Dimmable. 2-year mfg. warranty. See details online.

L5049 Ultimate LED Grow Light
- 180 watt LED (replaces 400w) $388.
- 360 watt LED (replaces 600w) $549.
- 540 watt LED (replaces 1000w) $998.

A3711 Medium Protek, round (pots up to 14” H) $12.95
A3716 Large, rectangular (48” H x 55” W) $14.95
A3724 XL, rectangular (72” H x 67” W) $19.95

NEW! Grandio Elite Greenhouse

Our best value for a starter greenhouse. Includes all the basics for success. Sturdy, powder-coated aluminum frame, insulated TwinWall glazing, 2 roof vents, rain gutters, powder-coated steel base. FREE ground shipping. See pg. 13 for details.

GELITETW Elite Greenhouse, 8 x 8 $2,129.00

Frost ProTek™

Strong, reusable plant protection

Protect your plants from weather, deer, birds and other pests. Our durable covers are made of breathable, lightweight polypropylene. Green color blends well with landscape. Double drawstrings and cord-locks make them easy to install and secure. Reuse year after year.

A3711 Medium Protek, round (pots up to 14” H) $12.95
A3716 Large, rectangular (48” H x 55” W) $14.95
A3724 XL, rectangular (72” H x 67” W) $19.95

Crop Covers pg. 24
Pot Truck Move up to 100 lbs.

Large planters can be a pain to move. This ingenious “pot truck” eliminates awkward, potentially dangerous strain. Just roll the Pot Truck up to the container, hook the twin grabbers over the pot lip, tilt back, and roll away. Fits pots of all shapes and sizes up to 29” high and 18” diameter. Simple assembly.

T3553 Pot Truck $69.95

CLICK TO CALL! Scan the code and connect directly to our call center!

charleysgreenhouse.com / 800-322-4707