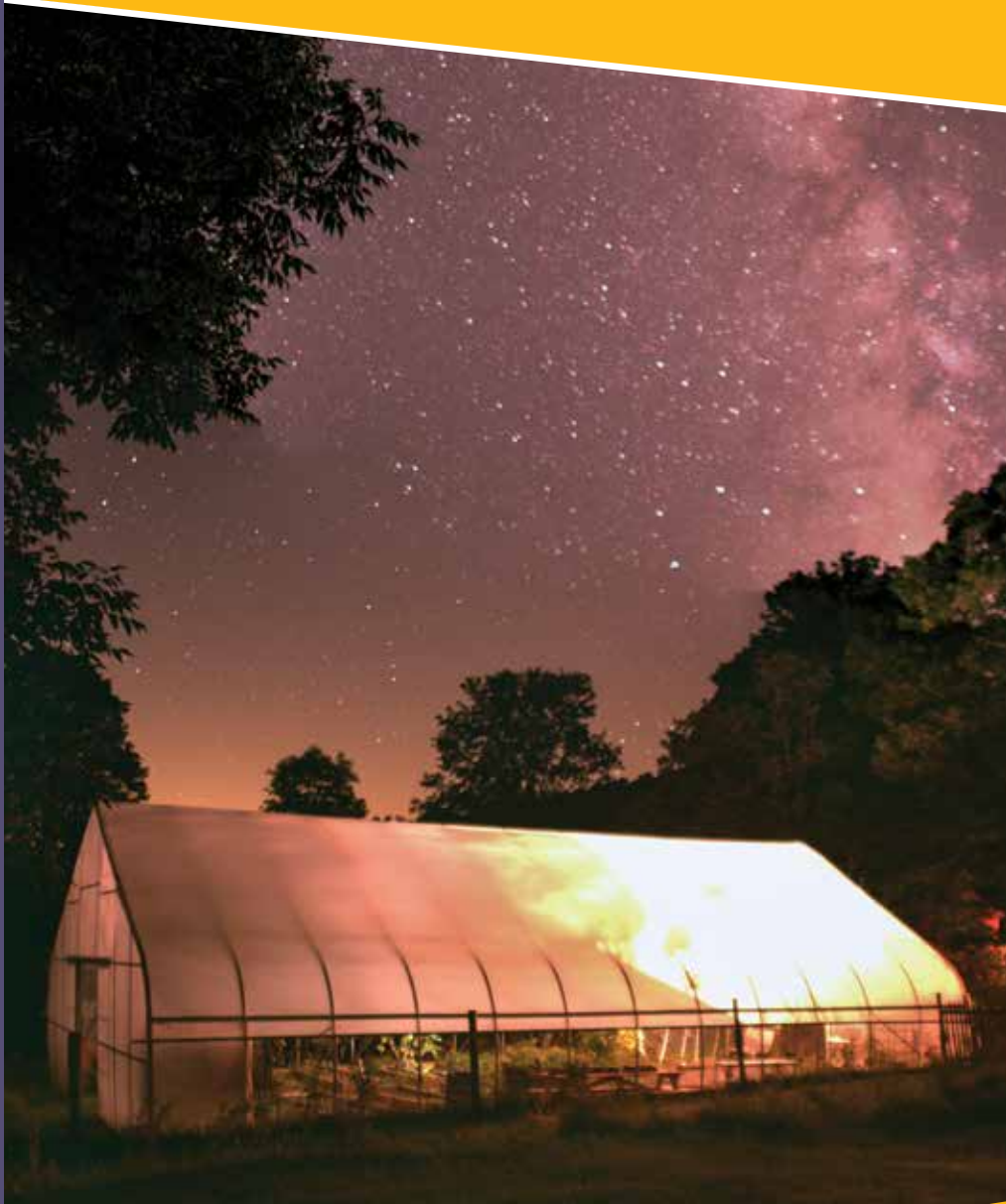




2 0 2 3
P R O D U C T
C A T A L O G



Innovation, Education, Communication

**10 EASY STEPS
TO MAKING YOUR
GREENHOUSE
DECISIONS**



RIMOL.COM • 603.629.9004

Matterhorns

Woodman's Florist
Peterborough, NH



Tangerini's Farm
Millis, MA

Wolf Hill Garden Center
Ipswich, MA



Shown on cover:



**Manhattan Country
School Farm**
Roxbury, NY

Baystate Floral Supply ▶▶
Cranston, RI



▶ **Donaldson's Farm**
Hackettstown, NJ

Achille Agway ▶
Keene, NH



Matterhorns

Metropolitan Plants ➤
Fort Lee, NJ



◀ **Richfield Farms**
Clifton, NJ

Spring Brook Farms ➤
Littleton, MA



Natural Art Gardens
Toms Brook, VA



Mill City Grows
Lowell, MA

Coger's Sugar House
Springfield, VT



Northpoints & Nor'Easters

Shady Hill Greenhouses
Londonderry, NH



Mill Gardens
Hanover, NH

Perrone's Farm
New Milford, NJ



Pinelands Nursery ▶
Columbus, NJ



◀ **Mason Brook Nursery**
Mason, NH

Greenhaven Gardens ▶
New Haven, VT



Eastpoints

Maple Lane Nursery ➤
Valatie, NY



◀ **Lakedale Nurseries**
Berlin, NJ

Garden State Nursery ➤
Chesterfield, NJ



Bobcats

Hippeas Farm
Hooksett, NH



**Johnny's Selected
Seeds**
Albion, ME



Hippeas Farm
Hooksett, NH



Matterhorn Educational Greenhouses

**North Shore
Community College** ➤
Lynn, MA



◀ **North Burlington
High School**
Columbus, NJ

**Greene County
High School** ➤
Jefferson, IA



Free-Standing Polycarbonate & Educational Greenhouses

**Pemberton Township
High School** ➤
Pemberton, NJ



➤ **The Grosse Pointe
Academy**
Grosse Pointe, MI

**Department of
Youth Services** ➤
Westborough, MA



High Tunnels

Farmer Kev's Organic ➤
West Gardner, ME



◀ **Painted Sage Farm**
Cora, WY

Whatley Family Farm ➤
Topsham, ME



**Blanchette
Family Farm** ▶
Charlton, MA



▶ **Gaining Ground Farm**
Concord, MA

Circle R Farms ▶
Spencer, WV



Hydroponic Greenhouses

Kimball Fruit Farm
Hollis, NH



Greenway Farms
Hackettstown, NJ

Lil Rooster Farm
Pittsboro, NC



Herban Farms
Cheyney, PA



**Berkshire County
Education &
Correctional Center**
Pittsfield, MA



Maximuck's Farm
Doylestown, PA



Vegetable Greenhouses

Peak Farm
Bonnerdale, AR



Barsuglia Farms
Vineland, NJ

Perrone's Farm
New Milford, NJ



Moveable Greenhouses

Gaining Ground Farm ▶
Concord, MA



◀ **Tangerini's Farm**
Millis, MA

Four Season Farm ▶
Harborside, ME



Alternate Use Greenhouses

Storage ➤



◀ Storage

Storage ➤



Butterfly House ➤



◀ **Chicken or Livestock House**

Meditation or Relaxation ➤



Shade Structures

The Birdhouse
Boxboro, MA



Seoane Garden Center
Abington, MA

Troy's Garden Center
Cohoes, NY



The Rimol Team . . . *We are working for you!*



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*Let our experienced sales technicians
help you with your next project.*



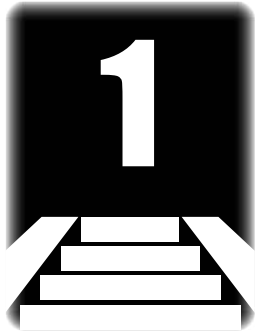


Echo Creek Farm | Salem, NY

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Step



Choose the Greenhouse Style/Frame



Lancaster Floral | Lancaster, NH



Lakeside Nursery | East Stroudsburg, PA

THE MATTERHORN PEAKED ROOF GREENHOUSE

The Matterhorn stands alone as the most attractive and rugged traditional style gutter connected greenhouse.

Our Matterhorn greenhouse is inspired by the most majestic peak in the Swiss Alps drawing intrepid climbers who risk their lives each summer scaling its rugged terrain and ridges. The Matterhorn greenhouse is a high quality, strong and attractive greenhouse ideally suited for garden centers, growers and schools in any climate in North America. The Matterhorn can withstand heavy snow loads and wind loads which will allow you

to get a good night's sleep during the worst winter storms and hurricanes.

Rimol Greenhouse Systems understands the unique requirements of garden centers, growers and schools. We will not sell you a greenhouse; we will provide you with a marketing concept, a growing plan or a blueprint for a classroom environment. Let one of our experienced sales professionals design your next greenhouse.



Flowerland Garden Center | Kingston, MA



Seminary Hill Farm | Delaware, OH



Tangerinis Farm | Millis, MA

Features & Benefits

- Available in 20 ft., 24 ft. and 30 ft. widths
- Lean-to style available in 12 ft. and 15 ft. widths
- Typical truss spacing on 12 ft. centers allows for any length in an increment of 12 ft.
- Super easy to assemble with good directions and technical support
- Columns with base plates or "wet set" starter columns available
- Columns are 4 in. x 4 in., 12 ga. galvanized steel
- Non-welded truss is quality assurance when assembled and allows for easy shipping and assembly
- Trusses consist of 2 in., 16 ga. and 1½ in., 16 ga. galvanized steel
- Extra purlins near gutter provide additional snow load support in Northern climates which prevents premature wear on polycarbonate and eliminates leaking
- 6/12 roof pitch
- Large 12 ga. steel gutter allows easy access to roof and downspouts are designed to be located anywhere in gutter for maximum flexibility
- Can be glazed with 8mm polycarbonate, corrugated polycarbonate, or glass (walls only)

**CALL TOLL FREE
1.877.746.6544**

Contact us for a quote!



The Typical Process of Building a Matterhorn

1. If you are interested in building a Matterhorn, the process begins with contacting Rimol Greenhouse Systems and talking about your potential project with your sales partner that will work with you every step of the way.
2. The discussion will begin with how you will use the greenhouse. Will the greenhouse be used for a garden center retail application, a school, hydroponics, Cannabis, etc.
3. Your sales partner will then evaluate your needs and discuss a reasonable timeline with you. It is very important for you to be realistic with the length of the process to construct a new greenhouse based on the permitting with your municipality and the actual construction.
4. Your sales partner will then meet with you at your location, and you will be able to discuss options of the location and other logistics within your project such as parking, material flow, aesthetics, and a possible connection of the greenhouse to a building.
5. Besides, the actual footprint of the greenhouse with length and width, some considerations for options will include doors, coverings such as polycarbonate or glass, cooling with either mechanical ventilation or natural ventilation, heating and air-circulation, environmental controls, energy curtains and benches. We will guide you through this process and help you make decisions.
6. We will then prepare a detailed quote for the materials that we will supply. If we need to make revisions or changes to the quote, it's no problem. You need to understand everything that is included, and revisions are common. We also can provide a conceptual drawing to you at no charge.
7. After we come to an agreement on the quote, the next step is for you obtain your necessary permits from your municipality. You will order stamped engineering plans from us that are structural plans certifying snow, wind, and seismic loads in your area with a licensed, professional engineer's stamp on them.
8. While we are in this process, if you have a contractor, excavator, electrician, or other key people involved in your construction process, we will work closely with them to answer technical questions and work with them on any logistics.
9. You now have your permit and it's time to order the greenhouse. Is your financing all set? We will require a deposit to initiate the order, and shortly after the order is in process, you will be notified with a ship date. RGS will communicate to you all the shipments from us and the direct shipments from our suppliers so that you are ready for delivery.
10. Now the fun begins! Your greenhouse is under construction. You may be working with one of our greenhouse construction partners or you may be using your own crew to build the greenhouse. We have excellent instructions, but if you don't understand something, call your sales partner anytime or the main office and our technicians will help you. You don't want any delays, and we want your construction to be seamless. If you need a site visit, we have a team of professionals ready to take a trip to your site if you have questions or need guidance.
11. We have been in business since 1994 and we have a team of knowledgeable and experienced professionals in the greenhouse construction industry that will guaranty your success and satisfaction with the overall Rimol experience.





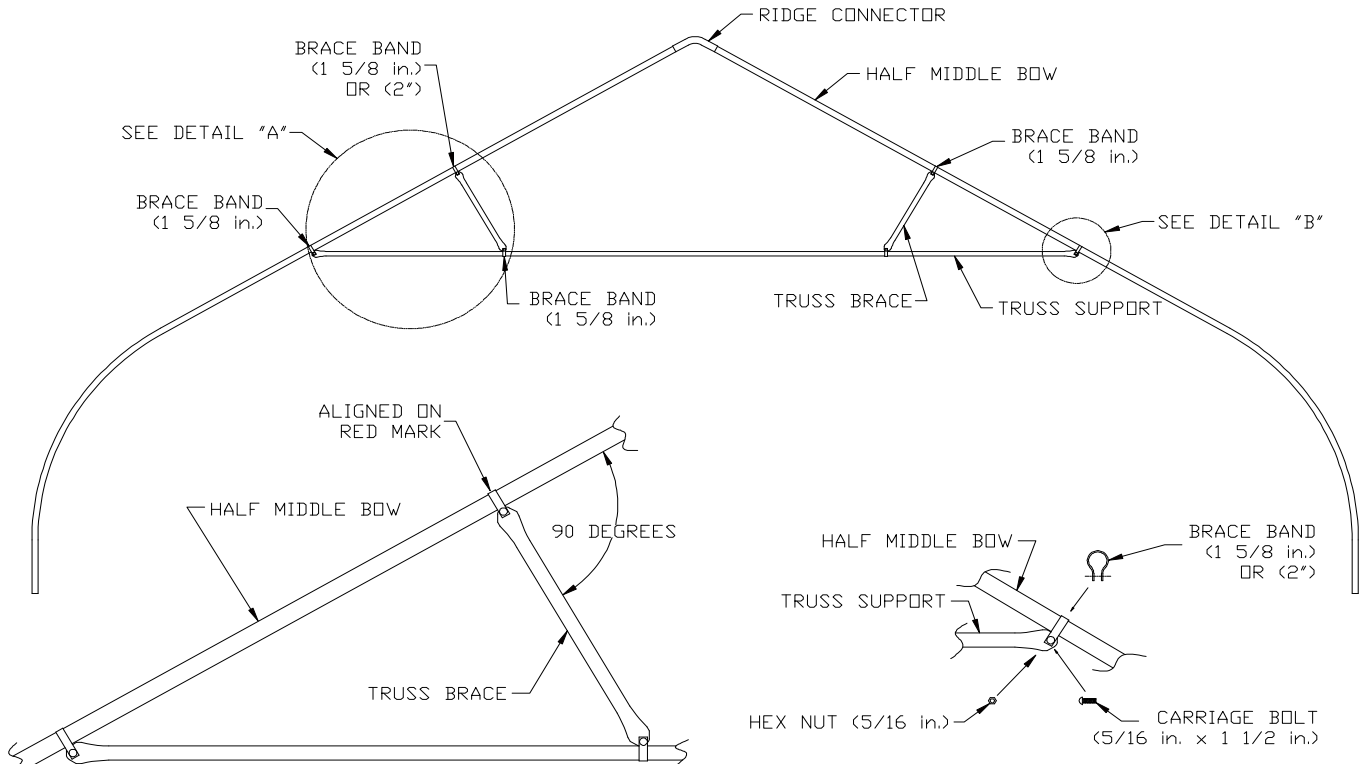
Tangerinis Farm | Millis, MA



This photo shows a column with a base plate mounted on a concrete wall.

This photo shows how our truss is connected to our 4" column with a heavy duty saddle.





All truss supports located at 8 ft. above ground level.

RIMOL GREENHOUSES ARE BUILT TO LAST

Rock-solid construction – it's all about strength and durability.

This diagram shows how every bow is constructed with a truss support system on our Northpoint and Nor'Easter greenhouses. Since we include the truss assemblies with every bow, this virtually doubles the strength of every bow. Notice how all of the possible weak points have all the stress transferred to other parts of the frame. In addition to the strength attributes, the truss assembly provides an ideal location to hang swedged tubing for hanging baskets or vegetable supports.



This is our strapping system using a cross connector where the purlin meets the bow.

This is a cross connector that is used to attach purlin pipe to bows or swedged tubing to truss supports. Since the purlins are attached to the bows in this manner, virtually all of the strength of the steel is maintained. Most other greenhouse companies drill a hole through the bow and the purlin which creates a weak spot. This weak spot will eventually cause a failure as the greenhouse ages.

Rimol Greenhouses vs. the Competition

Details vs. "Cutting Corners"

1. All of our greenhouse frames have been load tested and certified for both snow load requirements and wind load requirements. We have invested thousands of dollars in our engineering standards. *Our competitors may make claims on the strength of their greenhouses, but most of the time, they cannot back up these claims.*
2. Our frames are assembled using bolts and cross connectors which guarantee accuracy in the assembly process and strength. *Many of our competitors cut corners and provide self-tapping tek screws which are much less accurate and a weaker connection. Weak connection points are where failures occur with excess snow and wind loads.*
3. We do not cut corners with less expensive straps where purlins connect to bows. We use either a bolted connection or a proven cross connector. *The competition tends to use less robust straps at the peak purlin or the side purlins with a tek screw connection.*
4. Rimol structures are rigid and strong with extras such as trusses on our wider structures and wind bracing in all four corners of the greenhouses. *The competition usually does not include these extras or will charge more money for these options.*
5. Our greenhouse packages have a complete set of clear instructions for the frame, the end walls, the coverings and all other components of the greenhouse. *Most other companies provide partial instructions that are vague or difficult to understand. Rimol offers live tech support with experienced technicians.*
6. RGS provides a quality greenhouse package with exceptional value with all the details in not only the greenhouse frame, but with all the components and options that are included with the greenhouse. *The competition cuts corners with cheaper components, and they do not always provide all of the necessary options on your quote or with your greenhouse package that you order.*
7. The Rimol Team is solid! You will always have easy access to our experienced team of sales representatives, customer service representatives via phone, text or email. We communicate efficiently! *The competition may not get back to you for several days or may not even return your phone calls. This is unacceptable when you have a technical question or if you have a missing, damaged or defective part which sometimes occurs. We promise to fix problems faster than any other greenhouse company. Period!*

Made in New Hampshire by





Lorenzo's Outdoor Services | Old Bridge, NJ

***Are you concerned
about constructing your
greenhouse?***

Before you build, call us and we will send you a free set of our comprehensive instructions so we can put your mind at ease!

1.877.746.6544

THE NOR'EASTER SERIES – THE STRONGEST FREE-STANDING GREENHOUSE AVAILABLE

Features

- Available in 30 ft. and 34 ft. widths
- 4 ft. bow spacing standard
- Available in 6 ft. bow spacing
- Bows are 1.90 in., 13 ga. galvanized steel tubing
- There is a truss assembly with every bow resulting in unmatched strength
- 5 purlins per 30 ft. greenhouse and 7 purlins per 34 ft. greenhouse
- Purlins connect to the bows using a cross connector system which prevents unnecessary drilling into the bow
- Truss support system allows for additional purlin pipe to be hung for hanging baskets
- Wind bracing kits included with all greenhouses
- The height of the greenhouse can be raised with the extended ground posts option
- Additional purlin pipe is available for hanging basket runs
- Engineering meets International Building Codes (IBC)

Frame

The frame includes all of the steel tubing pre-drilled, all hardware and ground post driver. Does not include baseboard or end wall framing materials.

Roof Covering

The roof covering includes two layers of poly, wire lock for along the sides and an inflation kit.

Poly End Walls

Poly end walls include enough poly for a single layer and wire lock to fasten poly to end walls.

Polycarbonate End Walls

Polycarbonate end walls include twin wall clear polycarbonate, all extrusions, hardware and gable wire lock.

Mechanical Ventilation

Mechanical ventilation includes an exhaust fan(s), shutters and necessary thermostats to control all equipment.

Roll-Up Sides

Roll-up sides include roll pipe, hardware and gear box operators for 2 roll-up sides.

Gas Heat

The gas heat option includes a Reznor high efficiency heater, HAF fans to facilitate even heat distribution, a heater hanger, a vent pipe kit and all necessary thermostats to control the equipment.

Additional Options

You can either frame your ends with our 2 ft. x 4 ft. end wall framing brackets or purchase metal end wall framing kits.

NOR'EASTER GREENHOUSE PACKAGES

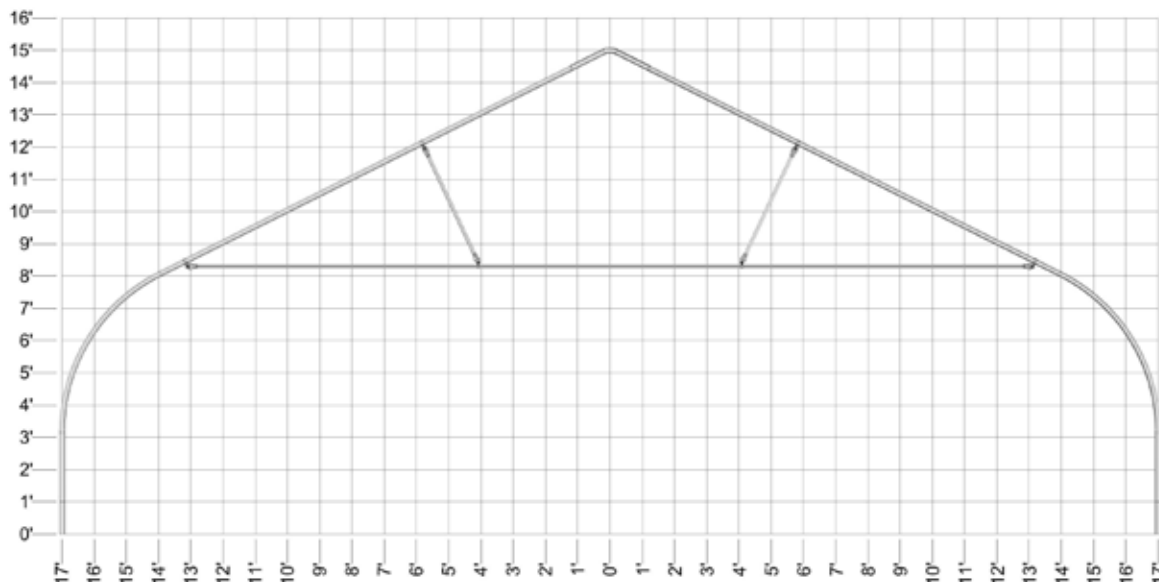
Size	Frame	Roof Covering	Poly End Walls	Polycarbonate End Walls	Mechanical Ventilation	Roll-Up Sides	Gas Heat
30' x 48'	\$5,400	\$1,033	\$840	\$2,385	\$3,439	\$1,300	\$3,076
30' x 72'	8,100	1,491	840	2,385	4,347	1,725	3,675
30' x 96'	10,952	1,940	840	2,385	5,101	2,050	4,468
34' x 48'	6,316	1,149	840	2,645	3,498	1,300	3,507
34' x 72'	9,474	1,665	840	2,645	4,615	1,725	4,176
34' x 96'	12,784	2,172	840	2,645	5,423	2,050	5,064

Go to www.rimol.com for the most current pricing!

Made in New Hampshire by



**1 Ft. Squares
30' Bow**



**1 Ft. Squares
34' Bow**

These are bow assemblies. These drawings can help you plan the ends of your greenhouse.
If you need more height, we can make the ground posts longer – which will require larger poly.



THE NORTHPOINT SERIES

The Ultimate In Freestanding Greenhouses

Features

- Available in 22 ft. and 26 ft. widths
- 4 ft. bow spacing standard
- Available in 6 ft. bow spacing
- Bows are 1.66 in., 14 ga. galvanized steel tubing
- There is a truss assembly with every bow, resulting in unmatched strength
- 3 purlins for the 22 ft. and 26 ft. greenhouse
- Purlins connect to the bows using a cross connector system which prevents unnecessary drilling into the bow
- Truss supports allow for additional purlin pipe to be hung for hanging baskets
- Wind bracing kits included with all greenhouses
- Can be raised with the extended ground posts option
- Additional purlin pipe is available for hanging basket runs
- Engineering meets International Building Codes (IBC)



Pinelands Nursery | Columbus, NJ

Frame

The frame includes all of the steel tubing pre-drilled, all hardware and ground post driver. Does not include baseboard or end wall framing materials.

Roof Covering

The roof covering includes two layers of poly, wire lock for along the sides and an inflation kit.

Poly End Walls

Polly end walls include enough poly for a single layer and wire lock to fasten poly to end walls.

Polycarbonate End Walls

Polycarbonate end walls include twin wall clear polycarbonate, all extrusions, hardware and gable wire lock.

Mechanical Ventilation

Mechanical ventilation includes an exhaust fan(s), shutters and necessary thermostats to control all equipment.

Roll-Up Sides

Roll-up sides include roll pipe, hardware and gear box operators for 2 roll-up sides.

Gas Heat

The gas heat option includes a Reznor high efficiency heater, HAF fans to facilitate even heat distribution, a heater hanger, a vent pipe kit and all necessary thermostats to control the equipment.

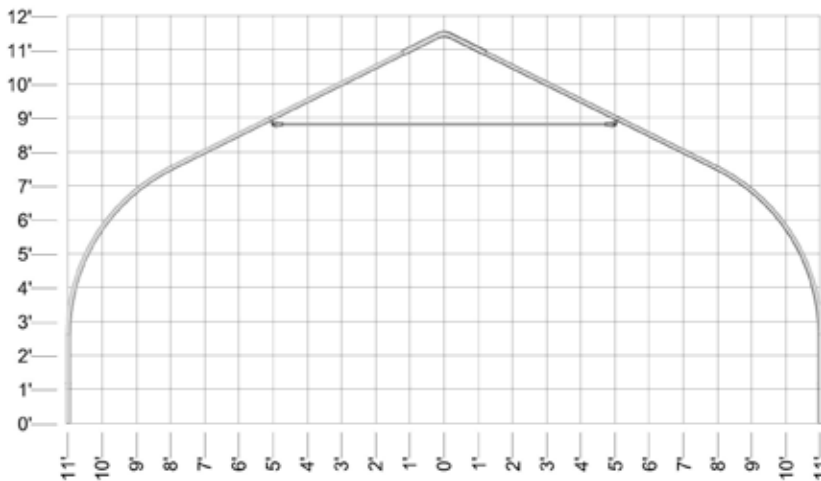
Additional Options

You can either frame your ends with our 2 ft. x 4 ft. end wall framing brackets or purchase metal end wall framing kits.

NORTHPOINT SERIES PACKAGES

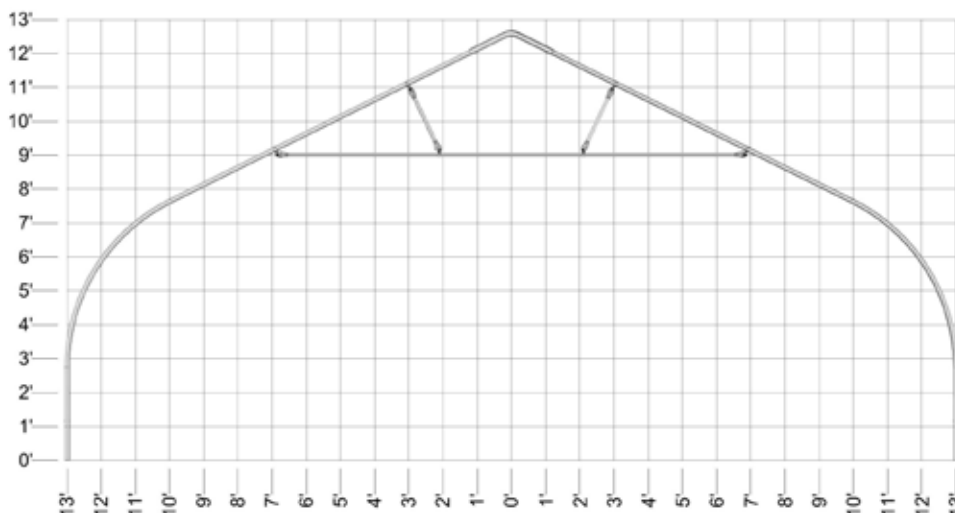
Size	Frame	Roof Covering	Poly End Walls	Polycarbonate End Walls	Mechanical Ventilation	Roll-Up Sides	Gas Heat
22' x 48'	\$3,834	\$859	\$730	\$1,610	\$2,834	\$1,300	\$2,735
22' x 72'	5,750	1,220	730	1,610	3,498	1,725	3,080
22' x 96'	7,667	1,581	730	1,610	4,219	2,050	3,623
26' x 48'	4,531	917	730	1,890	3,204	1,300	3,080
26' x 72'	6,796	1,307	730	1,890	3,838	1,725	3,309
26' x 96'	9,061	1,708	730	1,890	4,615	2,050	4,540

Go to www.rimol.com for the most current pricing!



**1 Ft. Squares
22' Bow**

Made in New Hampshire by



**1 Ft. Squares
26' Bow**

These are bow assemblies. These drawings can help you plan the ends of your greenhouse. If you need more height, we can make the ground posts longer – which will require larger poly.



Lakedale Nurseries | Berlin, NJ

Are you concerned about constructing your greenhouse?

Before you build, call us and we will send you a free set of our comprehensive instructions so we can put your mind at ease!

1.877.746.6544
rimol.com

THE EASTPOINT SERIES

Strength and Versatility at an Affordable Price!

Features

- Available in 18 ft. and 20 ft. widths
- 4 ft. bow spacing standard
- Available in 6 ft. bow spacing
- Bows are 1.66 in., 14 ga. galvanized steel tubing
- 3 purlins per greenhouse
- Can be used for overwintering, growing or season extension of vegetables
- Strong and able to withstand heavy snow loads
- Low cost per square foot
- Great for starter greenhouses
- Truss supports optional
- Engineering meets International Building Codes (IBC)

Frame

The frame includes all of the steel tubing pre-drilled, all hardware and ground post driver. Does not include baseboard or end wall framing materials.

Roof Covering

The roof covering includes two layers of poly, wire lock for along the sides and an inflation kit.

Poly End Walls

Poly end walls include enough poly for a single layer and wire lock to fasten poly to end walls.

Polycarbonate End Walls

Polycarbonate end walls include twin wall clear polycarbonate, all extrusions, hardware and gable wire lock.

Mechanical Ventilation

Mechanical ventilation includes an exhaust fan(s), shutters and

necessary thermostats to control all equipment.

Roll-Up Sides

Roll-up sides include roll pipe, hardware and gear box operators for 2 roll-up sides.

Gas Heat

The gas heat option includes a Reznor high efficiency heater, HAF fans to facilitate even heat distribution, a heater hanger, a vent pipe kit and all necessary thermostats to control the equipment.

Additional Options

You can either frame your ends with our 2 ft. x 4 ft. end wall framing brackets or purchase metal end wall framing kits.

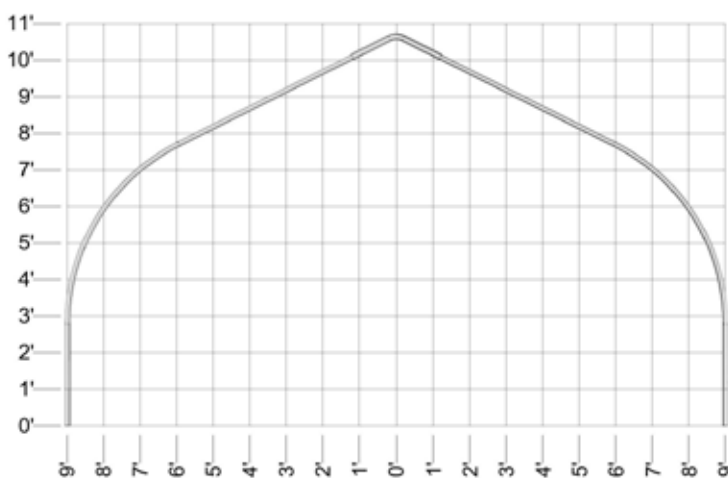
EASTPOINT SERIES PACKAGES



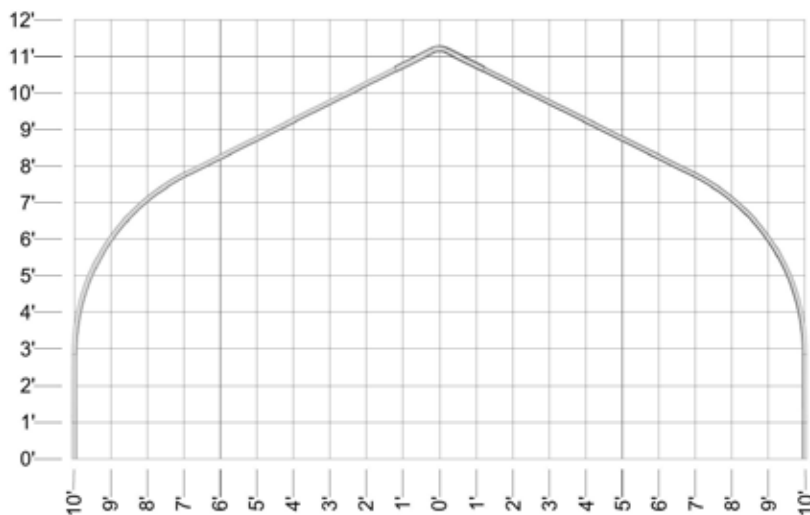
Size	Frame	Roof Covering	Poly End Walls	Polycarbonate End Walls	Mechanical Ventilation	Roll-Up Sides	Gas Heat
18' x 48'	\$3,042	\$801	\$730	\$1,340	\$2,761	\$1,300	\$2,612
18' x 72'	4,562	1,133	730	1,340	3,204	1,725	3,080
18' x 96'	6,083	1,468	730	1,340	3,951	1,330	3,871
20' x 48'	3,380	862	730	1,610	2,761	1,300	2,612
20' x 72'	5,069	1,223	730	1,610	3,204	1,725	2,916
20' x 96'	6,759	1,584	730	1,610	3,951	2,050	3,871

Go to www.rimol.com for the most current pricing!

**1 Ft. Squares
18' Bow**



These are bow assemblies. These drawings can help you plan the ends of your greenhouse. If you need more height, we can make the ground posts longer – which will require larger poly.



**1 Ft. Squares
20' Bow**

Made in New Hampshire by





THE BOBCAT SERIES

Functional and Easy to Install - Your Best Value for a Starter Greenhouse

Frame Features

- Available in 16' widths and lengths of 48', 72' & 96'
- Gothic shaped greenhouse with 4 ft. bow spacing, one ridge purlin & wind bracing
- Steel is 1.315 OD, 17 ga.
- Ground posts are 1.66 OD, 14 ga. 4 ft. long and are driven into the ground 2 ft. with a ground post driver that is supplied with the frame
- Side wall height is around 5 ft. before the curve begins. Peak height is around 10 ft.
- Straps are included to attach a baseboard to the frame
- Very resilient to wind and snow
- Super easy to assemble



Truss Support Option

- Adding a truss support will double the strength of the greenhouse
- Includes steel supports and hardware to attach to frame
- Good for crop supports
- Low cost for extra strength in climates with snow

End Wall Framing Options

- 2 x 4 end wall brackets allow you to easily attach 2 x 4 lumber to end bows
- Includes 16 bracket assemblies (8 per end)
- Steel end wall framing is 1½" square steel for clean, permanent solution for end walls
- Steel is field cut to configure your end walls to your specific

design. Includes all brackets and hardware

Door Options

- 3'6" wide x 7' high single sliding door made of aluminum and polycarbonate
- Includes door track for sliding and guide rollers to keep door snug against greenhouse

Covering Options

- Single poly for the roof and end walls is 6 mil, 4-year clear greenhouse film
- Single poly for roof and woven poly is an upgrade for the ends with a reinforced woven material for the end walls that is more resilient to wind/weather
- Double poly for roof with woven poly for end walls includes both layers of film and an inflation kit that can be powered with just an extension

cord. A double layer of poly offers a few extra degrees of protection when growing in cooler temperatures

- Double poly for roof with polycarbonate end walls provides a permanent solution for your end walls that will last about 15-20 years that looks great and provides more insulation for your greenhouse

Poly Fastening Options

- End wall wire lock kit is used if you have either regular or woven poly on your end walls. Enough wire lock is sent to attach your roof poly to the end bows and your end wall poly to your end wall framing
- Gable wire lock is used for either end walls with polycarbonate or wood. The gable wire lock is a special wire lock with a lip that overlaps the end

bow materials to help seal out moisture and provide a more clean finish to your end wall construction

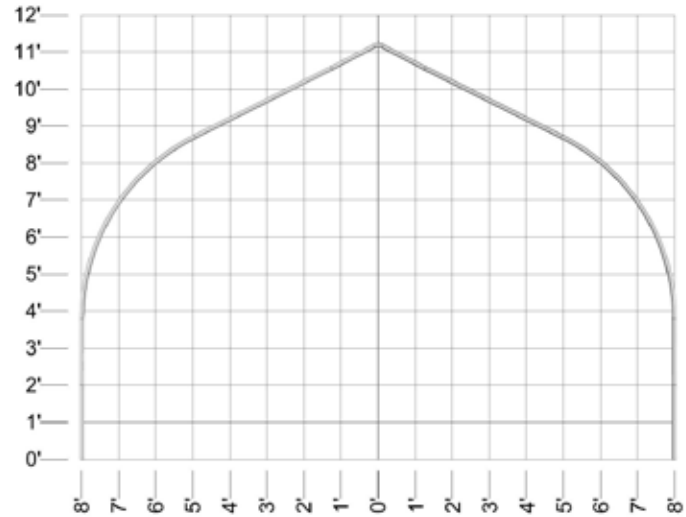
- Double wire lock is used with roll-up sides. It creates excellent holding power for your roof and roll-up sides and adds more rigidity to your greenhouse. It includes the wire lock base, the wires and all necessary hardware to attach to your greenhouse

Ventilation Options

- Roll-up sides include extra purlin pipe and all of the necessary hardware to convert the sides of your greenhouse for side wall ventilation. A T-handle is the least expensive option to roll-up your sides
- Roll-up sides with gear box operator kits are our most common option since the gear boxes allow you to roll up your sides much easier with a handle or an adaptor that fits into a

- cordless drill that is provided. This is the safest way of rolling up your sides since the gear box has an internal brake that keeps the sides locked into place
- Gable peak exhaust fan and gable peak shutter thermostatically controlled is an option if you are not around to monitor

your cooling. **This will not provide total cooling, but will help alleviate some of the heat build-up.** This is also a nice option if you are doing some winter growing and you do not want to roll-up sides if you need some ventilation. This option requires 110v power to your greenhouse.



1 Ft. Squares
16' Bow

Please go to our website, rimol.com, to build and price your greenhouse.

Made in New Hampshire by





COST EFFECTIVE GREENHOUSES FOR AN EDUCATION ENVIRONMENT

Schools, correctional institutions and homeowners have all discovered the values of greenhouses for education and therapy.

These are strong durable structures with a durable, 20 year polycarbonate cover.

Polycarbonate is fire resistant and the galvanized steel structure is fireproof. Virtually indestructible, your greenhouse will give years of valuable service.

Our experienced representatives can show you how others have discovered the value of these greenhouses.

Complete Greenhouse Package

The complete greenhouse package includes the greenhouse frame with 1½” square steel purlins, steel end



Pemberton High School | Pemberton, NJ

wall framing, 1 pre-hung door, all polycarbonate and glazing materials for the roof and end walls, a high-efficiency gas heater, a heater hanger, a double-walled vent pipe

assembly, HAF fans, a 2-speed exhaust fan, motorized shutters and a shade cloth.

Call RGS for a detailed quote with a breakdown of costs.



China Spring Youth Camp | Mindea, NV

Size	Complete Greenhouse Package
18' x 24'	\$15,372
18' x 36'	20,692
18' x 48'	22,490
22' x 24'	17,779
22' x 36'	23,556
22' x 48'	25,114
26' x 36'	28,126
26' x 48'	30,530
26' x 60'	35,979
30' x 48'	33,206
30' x 60'	39,064
30' x 72'	45,186

Other sizes are available, please contact us for more information.

EDUCATIONAL GREENHOUSES

Rimol Greenhouses' Checklist for Schools



Upper Cape Cod Tech | Bourne, MA

Here are a few things to consider when planning for a school greenhouse:

1. What is your budget?
2. Many greenhouse projects for schools require approval from State Ed as well as local building authorities. We will need to know the following requirements, that our structure will have to meet before quoting, if these approvals are required.
 - Ground snow load
 - Wind load
3. How much square feet of greenhouse do you need? Our Matterhorn greenhouse is the most popular structure for schools and can easily meet or exceed most building code requirements. Standard sizes are 20 ft., 24 ft., and 30 ft. wide bays, in lengths 24 ft. or longer, in 12 ft. increments.

These code requirements are necessary in order to provide a stamped engineered drawing for your submittals to the state and/or local authorities for a building permit, if required.

If State Ed approval and/or a building permit is not required, we

can quote any of our structures that will meet your needs.

4. What else will have to come out of the budget?
 - Construction cost...builder?
 - Water, gas, and electric?
 - Site preparation...excavating, stone, and concrete?
 - If State Ed is involved, an architect is often used to prepare the package for approval.
 - If the structure is going to be connected to the school an engineer or architect is required.

Sketch a floor plan on graph paper and include the following if needed.

- Bench size and layout to cover your production area needs
- Aisle width...handicap accessible?
- Work area...for how many?
- Sink and storage?

Support your local FFA Chapter

National FFA Organization

A National Student Organization Chartered by Congress as an Integral Part of Instruction in Agricultural Education and Headquartered at the U.S. Department of Education in Washington, D.C.

The FFA Mission

FFA makes a positive difference in the lives of students by developing their potential for premier leadership, personal growth, and career success through agricultural education.

Call the sales rep for your area, and discuss your project, (877) 746-6544. We can help make sure you are getting the right structure and avoid surprises in the end.



Center for Discovery | Harris, NY

HIGH TUNNELS

These are our super strong Eastpoints, Northpoints and NorEasters with longer ground posts.

High tunnels are an increasingly popular trend for growers and a proven technology for crop production. The term “high tunnel” is a loosely defined phrase for growing fruits and vegetables in greenhouses. High tunnels may be used to extend the growing season by providing protection for early or late season production or they may be used for year round growing. The bottom line is that high tunnels are becoming increasingly popular due to their

low start-up cost and the quick rate of return on investment.

“High tunnels” were originally greenhouses with high sidewalls to enable tractors and tillers to easily enter and exit greenhouses from either end. These greenhouses were simple in design with usually one layer of poly, roll-up sides and no electricity. Some of these greenhouses only had poly on them for a few weeks before

Made in New Hampshire by



**CALL TOLL FREE
1.877.746.6544**

the warmer weather insured the grower that the cover could be removed safely without any damage to the crops. High tunnel greenhouses essentially enabled local growers to produce crops all four seasons and helped to combat the forces of unpredictable weather, particularly in the early spring.

Today's high tunnels may be as simple as a greenhouse frame with one layer of poly and roll-up sides to more sophisticated greenhouses that are "moveable," have roof vents, year-round covering, and irrigation systems. These freestanding greenhouses are available in all different widths and lengths. The most common high tunnel is a 30 ft. x 96 ft. greenhouse. Many other crops are being grown in greenhouses such as tomatoes, cucumbers, lettuce, strawberries, raspberries and herbs. High tunnels are all customized to meet the individual grower's needs and specific to the crop that is being produced. Recognizing this trend in growing, seed companies have begun to specialize in offering greenhouse grown seed varieties and other unique varieties for heirloom and organic growing.

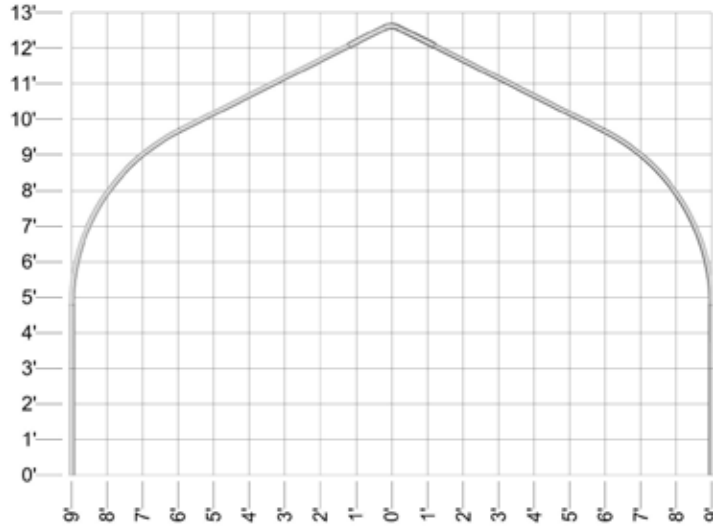
Slack Hollow Farm
Argyle, NY



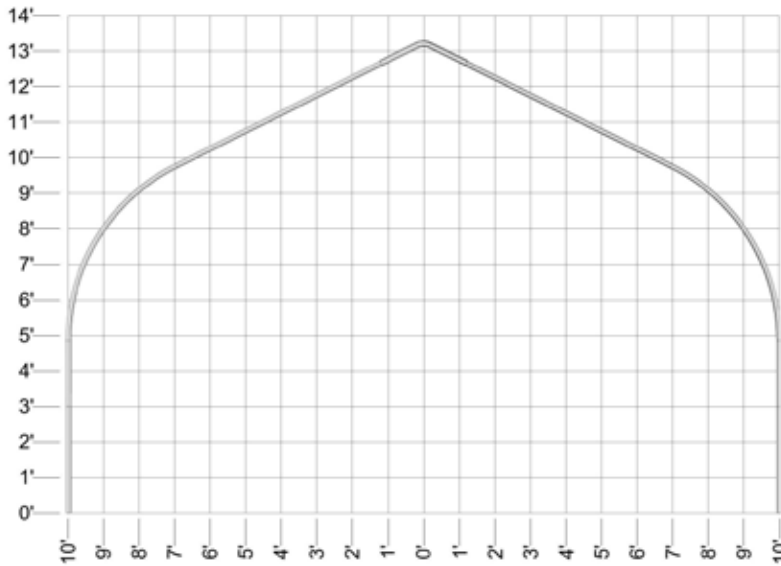


HEIGHTS OF THE RGS HIGH TUNNELS

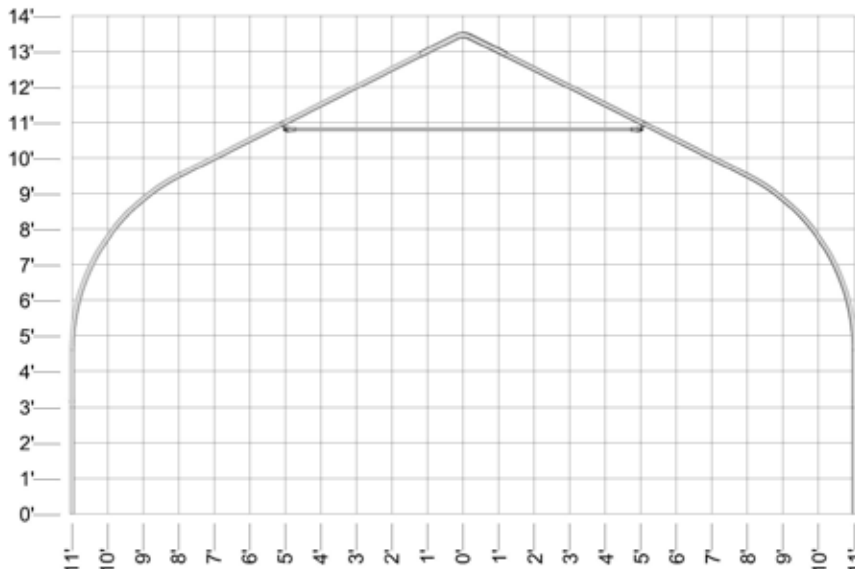
Our high tunnels are our super strong Eastpoint, Northpoint and Nor'Easter frames with longer groundposts.



18' Bow

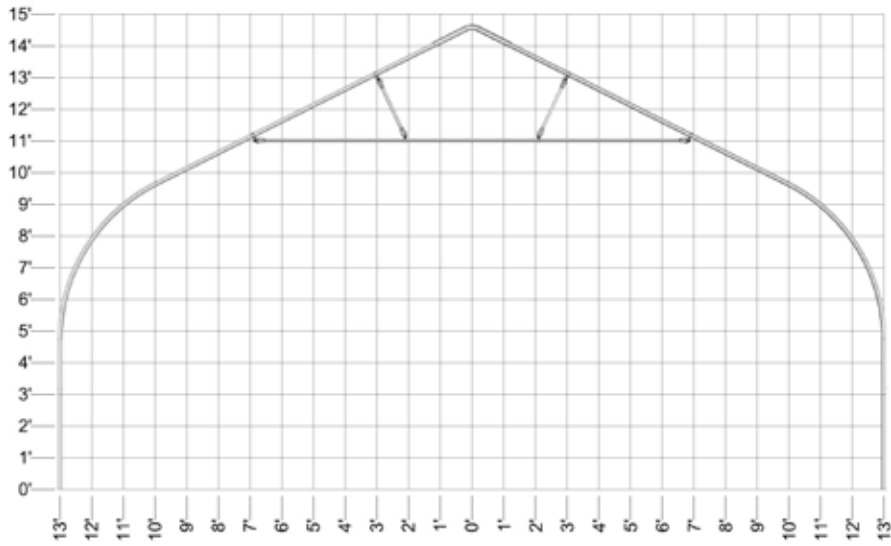


20' Bow

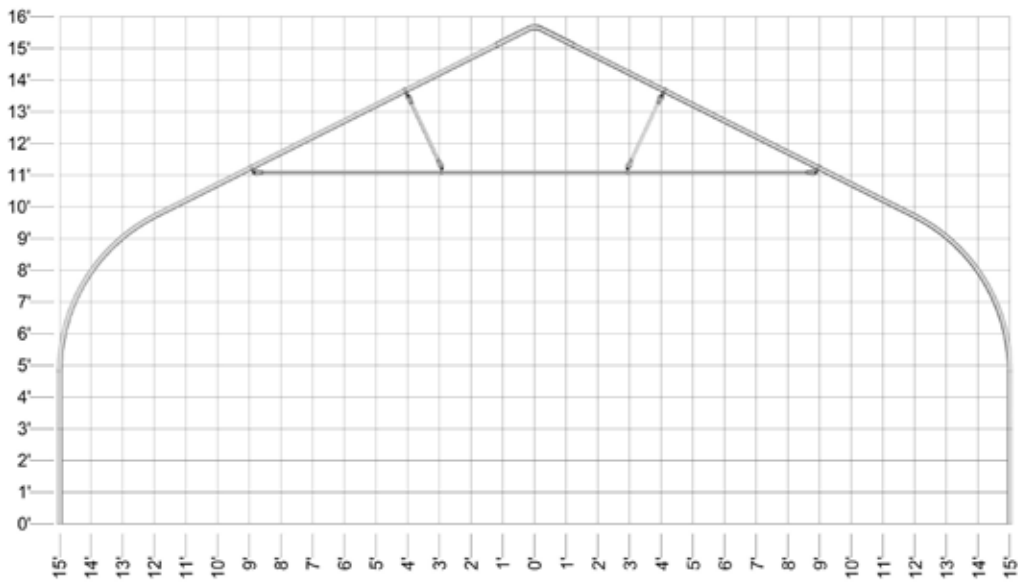


22' Bow

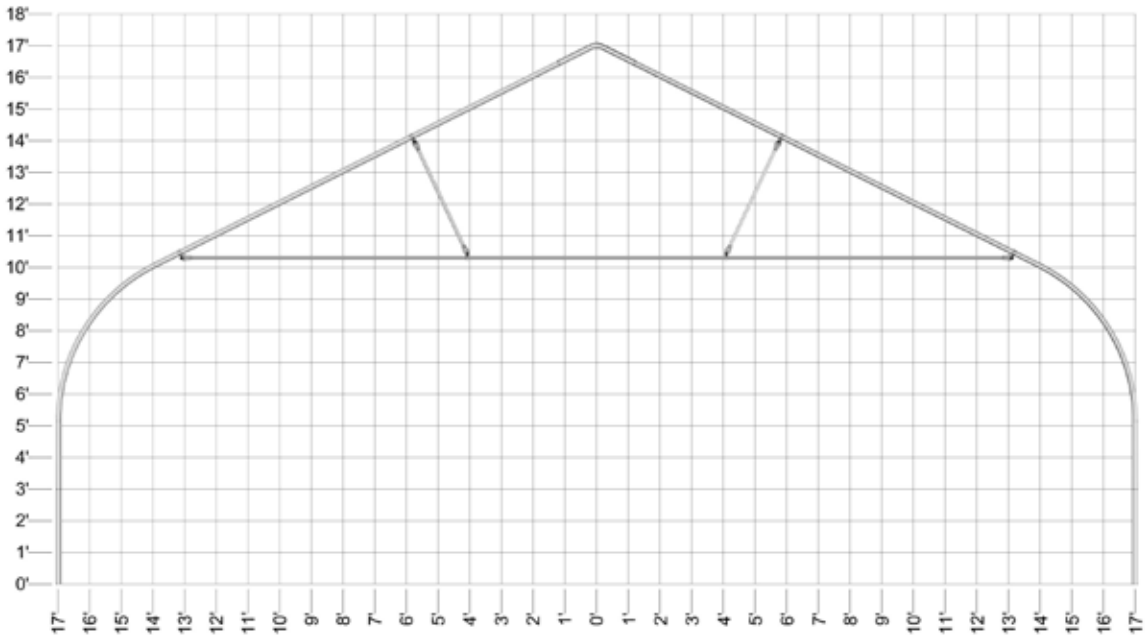
26' Bow



30' Bow



34' Bow





Further information regarding the specifics of high tunnels is available on the internet State University sites and from other growers. The high tunnel concept will continue to gain popularity among growers due to the global need for food and the unpredictable weather patterns that farmers encounter. With the potential to increase cash flow out of season and open up new markets, high tunnels will create many opportunities for the family farm.



Good drainage is worth the investment.

The Rimol Advantage

- All high tunnels are designed for heavy snow and wind loads with extra support for crops
- All greenhouses are pre-drilled, pre-cut, include all hardware and assemble very easily
- Included are thorough and complete instructions with great customer service from our experienced sales staff
- Many different options available for cooling, doors and end wall design
- Crop support systems available
- Quick turnaround on shipping



Row covers help with winter production.



Proper management of snow is required with unheated greenhouses or high tunnels.

HIGH TUNNEL PACKAGES

Basic Package

The basic package includes the framework with taller ground posts for 6 ft. high side walls, 2 ft. x 4 ft. end wall framing brackets to frame out your end walls, single poly for the roof with double wire lock for the side walls, single poly for the end walls with wire lock, and roll-up sides with a T-handle kit.

Standard Package

The standard package includes the framework with taller ground posts

for 6 ft. high side walls, a high wind kit for rigidity, metal end wall framing kits for both ends of the tunnel, two layers of poly for the roof, an inflation kit and double wire lock for the sides, woven poly for the end walls with wire lock, roll-up sides with gearbox operators and wind panel kits for the corners, and manually operated gable peak shutters.

Upgraded Package

The upgraded package includes the framework with taller ground posts

for 6 ft. high side walls, a high wind kit for more rigidity, metal end wall framing kits for both ends of the tunnel, two layers of poly for the roof, an inflation kit and double wire lock for the sides, polycarbonate for both end walls with all extrusions and hardware, motorized roll-up sides and wind panel kits for the corners, motorized gable shutters, and a controller to operate the roll-up sides and gable shutters.

Please choose your doors from our door section.

Size	Basic Package	Standard Package	Upgraded Package
18' x 24'	\$3,593	\$6,527	\$9,620
18' x 36'	4,898	7,832	10,937
18' x 48'	5,528	8,462	11,567
18' x 72'	7,595	10,920	13,954
18' x 96'	10,092	13,335	16,284
20' x 24'	3,796	6,730	9,973
20' x 36'	5,260	8,194	11,456
20' x 48'	5,924	8,278	12,120
20' x 72'	8,190	11,514	14,532
20' x 96'	10,747	13,885	17,233
22' x 48'	6,488	9,871	13,290
22' x 72'	8,981	12,754	15,968
22' x 96'	11,765	15,601	18,721
26' x 48'	7,301	10,871	14,456
26' x 72'	10,176	14,160	17,684
26' x 96'	13,332	17,438	20,847
30 x 48'	8,324	12,557	16,281
30' x 72'	11,601	16,281	19,944
30' x 96'	15,225	19,993	23,542

See page 44 for door options

Please contact us for 34' wide pricing



High Tunnel Door Options

Doors are more important than you may realize!



Double Sliding 4' x 8' Doors

Providing an 8' x 8' opening

HCDS253HT

\$1,142



Single Sliding 3'6"x 7' Door

HCSS20242

\$743



Single Pre-Hung 3' x 7' Hinged Door

HCSH100L

\$741



8' x 8' Insulated Roll-Up Door

TR9448x81

\$1,183

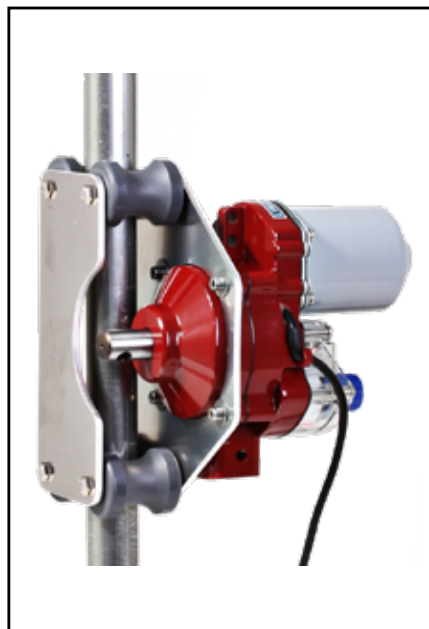
COOLING AND VENTILATION OPTIONS

Don't stress out your plants with overheating!



Gable shutters at each end of the high tunnel can be motorized for automatic control. They are excellent for cooling in colder months without having to roll up your sides. They are also very helpful in releasing trapped humidity, especially in the winter months.

Motorizing your roll-up sides is an excellent investment in automation and climate control in your high tunnel. Motors and a simple controller (shown in the bottom photo) are easy to install and operate. Considering that you will never have to babysit your roll-up sides, this is a quick payback *on your time!*





ROLLING THUNDER™ MOVEABLE GREENHOUSES



Divide Creek Farm | Silt, CO

Organic growing requires planning and diligence. Before the first crop is ever planted, much thought must be put into the types of crops to be grown, soil preparation and the greenhouse environment. The greenhouse is best utilized to protect the plants from exterior weather conditions and grow crops in a “resourceful way.”

One of the innovations from Rimol Greenhouse Systems is the moveable greenhouse – “Rolling Thunder.” Rolling Thunder’s design utilizes a heavy duty wheel with bearings at each set of hoops attached to a specially designed “ground post.” The wheel/ground post combination is seated on a rail which allows the greenhouse to move along the desired growing areas. Rolling Thunder’s design allows for easy movement of a larger greenhouse such as a 30 ft. x 96 ft. with just an ordinary tractor. Smaller greenhouses can be moved by just two individuals.

The Rolling Thunder is constructed simply with the rail laid out flat according to the desired width of the greenhouse. The rail does not have to be pinned or staked, but should be set on a solid base of stone dust to prevent sinking into the soil. The first few hoops are the trickiest requiring several sets of hands due to the fact that the wheels, ground posts and hoops are all erected simultaneously. However, once a few hoops are erected, the rest of the greenhouse goes up quickly. There is significant bracing in the greenhouse to prevent any movement with the wind, and temporary bracing is used on the end walls of the greenhouse for stability purposes.



Our aluminum baseboard is a new product offered in 12 ft. lengths. It is included with our Rolling Thunder greenhouse and also can be used on our high tunnels.

ROLLING THUNDER PACKAGES

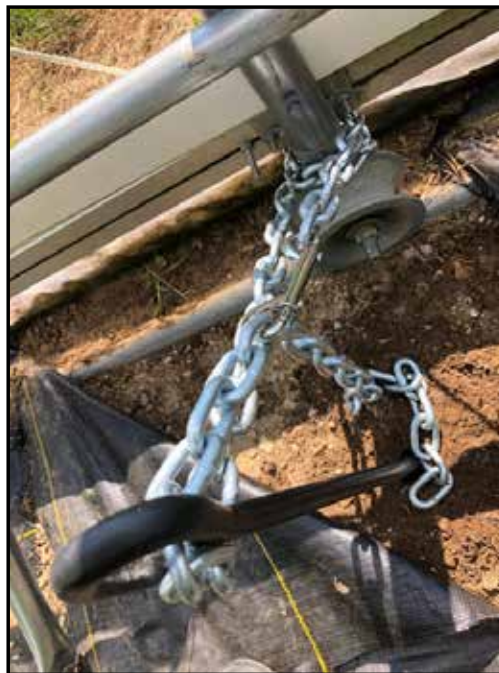
The Rolling Thunder complete greenhouse packages include the following:

- The greenhouse frame with all steel tubing pre-drilled and necessary hardware
- Steel end wall framing kits with all steel tubing and hardware
- A Rolling Thunder moveable greenhouse kit with rails, wheels, bracing and hardware for growing on two plots
- Two 3'6" x 7 ft. single sliding greenhouse doors
- Polycarbonate, extrusions and hardware for both end walls
- Double poly with inflation kit for roof with all necessary wire lock for gable ends and sides

Size	Complete Package
18' x 48'	\$13,807
18' x 72'	17,684
20' x 48'	14,473
20' x 72'	18,548
22' x 48'	15,307
22' x 72'	19,609
26' x 48'	16,342
26' x 72'	21,022
30' x 48'	18,282
30' x 72'	23,465

- Roll-up sides with all roller pipe, hardware and gear operator boxes for both sides

Some options include adding extra tubing and hardware for a third plot, gable shutters, and solar kits.



Earth anchors are utilized to secure the structure in place.

HYDROPONIC GREENHOUSES



Efficient crop productivity in greenhouse.

Hydroponics is growing a plant without soil, usually in an inert substance such as rockwool, perlite, or a soilless media to hold the roots for water and nutrient absorption. Hydroponics dates back many years as there is evidence that ancient civilizations grew plants in water.

Nutrients are vital to the success of growing. There are 16 essential elements that a plant needs to grow and the right balance of these nutrients must be maintained for each specific variety of plants. Equally as important as nutrition are the factors of light, temperature (heating and cooling), CO₂ and overall environmental control. Insects play a key role in pollination and pest management. When you combine all these factors, you have a controlled environment which is a hydroponic greenhouse.



Hydroponic greenhouses require strict environmental control to maximize yields from plants.

The main benefits of hydroponics include plant productivity, getting a high yield per plant per square foot, and having “fresh produce.” Today, there are many varieties of plants grown hydroponically serving many different market segments such as farm stands, grocery stores, restaurants, processing plants and institutions. Hydroponic operations vary in size from small operations (less than 1,000 square feet) to large operations with many acres being farmed.

At Rimol Greenhouse Systems, we believe that hydroponics will be a growth area of the future due to such factors as the rising global population, climate

change, people desiring healthier lifestyles, and more foodborne diseases from conventional farming practices. We take an individual approach with every customer to design and build your specific greenhouse factoring in your crop type, location and overall budget. We do not sell “cookie cutter” greenhouse packages. Our experienced sales professionals will closely assess your needs to determine what type of structure is best suited for you and then outfit your greenhouse with the correct environmental control systems. Contact us so that we can be a part of your business plan for success to meet today’s agricultural demands.



Greenway Farms | Hackettstown, NJ

The end wall shown has a "No-Thrip" insect screen.



Kimball Fruit Farm | Hollis, NH

Contact us for a quote!

**CALL TOLL FREE
1.877.746.6544**



HIGHPOINT MATTERHORN CANNABIS GREENHOUSE - A SOLID INVESTMENT

Structure & Framework:

- Stamped engineering plans included with purchase to obtain your building permit
- Designed and built to meet your snow and wind load requirements. If there are higher load requirements, we can add more structural components to increase loads
- 4 in. galvanized steel columns with trusses every 12 ft. with peaked 6/12 pitch roof design to easily shed snow
- 12 ft. gutter height allows enough room for light deprivation system and all internal components while maintaining plenty of space for an optimum growing environment. Other gutter heights available
- Large gutter provides excellent drainage and easy access to the roof if necessary
- Easy to assemble with smart design throughout entire construction process
- Strong 2 in. square steel framing for end walls that allow equipment to be mounted easily



Doors & Covering:

- One set of 4 ft. wide x 7 ft. high double hung aluminum black-out doors allows for 8 ft. wide opening, and one 3 ft. wide x 7 ft. high single-hung aluminum black-out door. Both doors are lockable. Additional doors are available
- End walls are covered with light blocking polycarbonate. This is for blacking out your greenhouse on the end walls and maintaining an excellent seal for heat retention
- Roof covering is diffused light polycarbonate that eliminates "hot spots" and provides superior protection of your plants for outside weather conditions



Cooling & Ventilation:

- All ventilation equipment is carefully sized to meet the exact needs of your greenhouse cooling requirements
- All fans and shutters are high-efficiency equipment with long lasting components that meet OSHA requirements
- Three stages of ventilation allow for precise cooling during all four seasons
- Four stages of ventilation with evaporative cooling available as an option
- Light traps included for all equipment

Heating System:

- Reznor high-efficiency heaters meet your maximum heating requirements. Heaters, heater hangers and vent pipe kits are all included
- Power vented heater is highly efficient compared to conventional heaters
- No standing pilot flame. Direct spark ignition on all heaters
- All components are totally enclosed within cabinet
- Integrated circuit board with diagnostic indicator lights
- Five-year warranty





Horizontal Air Flow (HAF) Fans:

- HAF fans in a greenhouse provide excellent air movement within the growing environment
- Fans maintain even heat distribution during cooler months so there are no hotspots in the greenhouse
- Internal ventilation greatly reduces airborne pathogens and possibility of diseases
- Mounting brackets included
- OSHA certified
- Two-year warranty

Light Deprivation System:

- Completely automated motorized light deprivation system
- Located inside of the greenhouse with highest quality black-out flame retardant fabric
- Slope-flat-slope design allows lights and other equipment to be mounted to greenhouse frame without interference
- Excellent perimeter seals provide tight fit with minimal light leaks
- Timed controller with manual override included



CO2 Generation:

- CO2 generator included gives you more rapid and efficient growth
- Better plant quality
- CO2 levels automatically maintained with environmental controller



Environmental Control System:

- Link 4 I Grow control system includes controller, contactor panel and all sensors
- Maintain both day and night temperature set-points
- Precise control of your growing environment for temperature, humidity and CO2
- Saves you money on electric costs by staging equipment and timed delays with certain equipment to reduce unnecessary cycling
- Phone app available for easy monitoring of your greenhouse

Rimol Greenhouse systems will work with you very closely on choosing the right systems for your greenhouse project. We will support you and your construction team on the installation and operation of these systems to guarantee a quality experience.

1

HIGHPOINT NOR'EASTER CANNABIS GREENHOUSE - A GREAT VALUE

Structure & Framework:

- Stamped engineering plans included with purchase to obtain your building permit
- 2 ft. bow spacing meets most snow and wind loads. If there are higher load requirements, we can add more structural components to increase loads
- Bows are 1.90 in., 13 ga. galvanized steel tubing with gothic design and 6/12 roof pitch to easily shed snow
- Truss assembly with every set of bows enhances strength of greenhouse and allows equipment such as lights to be mounted to framework
- Five purlins and wind bracing included for rigidity
- Longer ground posts create a side wall height of about 6 ft. before the curve begins on the greenhouse
- Strong 2 in. square steel framing for end walls that allow equipment to be mounted easily



Coastal Cultivars | Wareham, MA



Doors & Covering:

- One set of 4 ft. wide x 7 ft. high double hung aluminum black-out doors allows for 8' wide opening, and one 3 ft. wide x 7 ft. high single hung aluminum black-out door. Both doors are lockable
- End walls are covered with light blocking polycarbonate. This is for blacking out your greenhouse on the end walls and maintaining an excellent seal for heat retention
- Two layers of 6 mil polyethylene film with 4-year warranty with all wire lock and inflation components included
- Inner layer of the film is IR anti-drip film which allows for heat retention at night in colder months and reduces condensation dripping in cooler months
- 2 rolls of greenhouse repair tape included



Cooling & Ventilation:

- All ventilation equipment is carefully sized to meet the exact needs of your greenhouse cooling requirements
- All fans and shutters are high-efficiency equipment with long lasting components that meet OSHA requirements
- Three stages of ventilation allow for precise cooling during all four seasons
- Four stages of ventilation with evaporative cooling available as an option
- Light traps included for all equipment

Heating System:

- Two Reznor high-efficiency heaters meet your maximum heating requirements. Heaters, heater hangers and vent pipe kits are all included
- Power vented heater is highly efficient compared to conventional heaters
- No standing pilot flame. Direct spark ignition on all heaters
- All components are totally enclosed within cabinet
- Integrated circuit board with diagnostic indicator lights
- Five-year warranty





Horizontal Air Flow (HAF) Fans:

- Four to eight HAF fans per greenhouse depending on length provide excellent air movement within the growing environment
- Fans maintain even heat distribution during cooler months so there are no hotspots in the greenhouse
- Internal ventilation greatly reduces airborne pathogens and possibility of diseases
- Mounting brackets included
- OSHA certified
- Two-year warranty

Light Deprivation System:

- Completely automated motorized light deprivation system
- Located on outside of the greenhouse with weather-proof, long-lasting resilient materials and totally enclosed motors provides more room for your crops and supplemental lighting
- Durable 2 in. roll-bars on both sides of the greenhouse roll from ground to peak
- Two-layer inflated light seal creates an air "pillow" that adds pressure to closed curtain, assuring total darkness within the greenhouse
- Timed controller with manual override included



CO2 Generation:

- CO2 generator included gives you more rapid and efficient growth
- Better plant quality
- CO2 levels automatically maintained with environmental controller



Environmental Control System:

- Link 4 I Grow 800 control system includes controller, contactor panel and all sensors
- Maintain both day and night temperature set-points
- Precise control of your growing environment for temperature, humidity and CO2
- Saves you money on electric costs by staging equipment and timed delays with certain equipment to reduce unnecessary cycling
- Phone app available for easy monitoring of your greenhouse



Riverbend Landscape | Woodstock, VT

SHADE STRUCTURES

The Plant Protector. Relieve stress on plants and reduce watering needs.

These multi-purpose structures are easy to assemble with several options of shade cloth color and shade density. Everything you need is included in the price which includes the framework, hardware and shade cloth.

- Available in any multiple of 10 ft. x 20 ft. blocks
- Strong, rigid construction with diagonal bracing
- Easy to assemble and relocate if necessary
- Available in any percentage of shade
- 10 ft. height is standard – other heights available



Suncook Gardens | Suncook, NH



Rohsler's Allandale Nursery | Allandale, NJ

Made in New Hampshire by



SHADE AVAILABLE	
Black	30% 40% 50% 60% 70% 80% 90%
White	40% 50%
Violet	60%
Blue	60%
Forest Green	70%
Brown	70%
Red	80%



Troy's Landscape | Cohoes, NY

Shade Structure Pricing

WIDTH	LENGTH IN FEET				
	20	40	60	80	100
10	\$1,198	\$1,730	\$2,396	\$3,061	\$3,727
20	1,863	2,529	3,328	4,126	4,925
30	2,662	3,881	5,576	7,089	8,606
40	2,908	4,432	6,358	8,287	10,213
50	3,493	5,980	8,267	10,653	13,041
60	3,994	6,379	9,189	11,980	14,766
70	4,716	8,046	11,356	14,668	17,979
80	5,281	8,166	11,938	15,711	19,483
90	5,978	10,193	14,404	18,619	22,832
100	6,680	10,772	14,886	18,981	22,914

Standard height is 10 ft.
Standard shade cloth is 50% black.

GREENHOUSE FINANCIAL SERVICES

Offering Creative Financing Solutions for Fulfilling *ANY* of Your Greenhouse Needs . . .

Why Lease?

- Up to **100% financing** for greenhouse(s) and peripherals
- No large cash downpayment
- Changes in tax law may offer write-offs for equipment depreciation
- **Easy add-ons** of your leased equipment to meet new or changing requirements
- Flexible terms to suit your company's specific needs



Select the Finance Program that Best Fits Your Needs

**Subject to credit approval*

\$1.00 Purchase Option:

- Title transfers to Lessee/Customer with final payment of only \$1.00

Operating Lease/Rental Program Options:

- Apply **70%** of all payments toward purchase **at any time**
- Re-rent on a month-to-month basis
- Return equipment



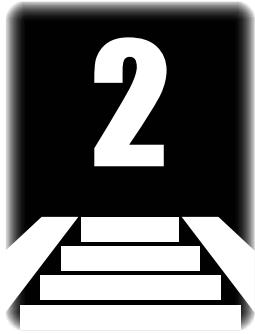
For More Information Contact:

Brian Rimol, *Program Manager*

Phone: (973) 264-1400 ext. 3018

Email: Brimol@captiveconsult.com

Step



Doors and Hardware



Sliding Doors

Our sliding doors are functional and energy efficient. The covering is either a clear glass cover that allows full vision or polycarbonate. Our doors also have brush molding to seal out drafts and air leaks. These doors are excellent for greenhouse environments.



Double sliding doors with clear vision glass panels.



Double sliding doors with polycarbonate panels.



Brush molding is included with all our doors and helps seal out the drafts.

Hinged Doors

Our hinged doors open and close easily. They have a long lasting, durable design so that they will not wear out. Available with clear vision glass panels or polycarbonate panels.



Single hinged door with glass panels.

Part #	Dimensions	Price
DOUBLE SLIDING DOORS WITH GLASS PANELS		
HCDSGT250	3'w x 7'h	\$1,289
HCDSGT251	3'w x 8'h	1,350
HCDSGT252	4'w x 7'h	1,456
HCDSGT253	4'w x 8'h	1,525
DOUBLE HUNG DOORS WITH POLYCARBONATE PANELS		
HCDH150	3'w x 7'h	\$1,171
HCDH151	3'w x 8'h	1,248
HCDH152	4'w x 7'h	1,257
HCDH153	4'w x 8'h	1,349
DOUBLE SLIDING DOORS WITH POLYCARBONATE PANELS		
HCDS250	3'w x 7'h	\$1,177
HCDS251	3'w x 8'h	1,276
HCDS252	4'w x 7'h	1,291
HCDS253	4'w x 8'h	1,406
DOUBLE HUNG DOORS WITH GLASS PANELS		
HCDHGT150	3'w x 7'h	\$1,206
HCDHGT151	3'w x 8'h	1,305
HCDHGT152	4'w x 7'h	1,314
HCDHGT153	4'w x 8'h	1,441
SINGLE HUNG DOOR WITH GLASS PANEL		
HCSHGT100	3'w x 7'h	\$759
HCSHGT101	3'w x 8'h	807
HCSHGT102	4'w x 7'h	817
HCSHGT103	4'w x 8'h	877
SINGLE HUNG DOOR WITH POLYCARBONATE PANEL		
HCSH100	3'w x 7'h	\$741
HCSH101	3'w x 8'h	780
HCSH102	4'w x 7'h	788
HCSH103	4'w x 8'h	831
SINGLE SLIDING DOOR WITH POLYCARBONATE PANEL		
HCSS200	3'w x 7'h	\$735
HCSS201	3'w x 8'h	794
HCSS202	4'w x 7'h	797
HCSS203	4'w x 8'h	857
SINGLE SLIDING DOOR WITH GLASS PANEL		
HCSSGT200	3'w x 7'h	\$965
HCSSGT201	3'w x 8'h	823
HCSSGT202	4'w x 7'h	828
HCSSGT203	4'w x 8'h	902

Double Sliding Doors

Rough opening is 3 ft. less than door width and 1 ft. less than door height.

Double Hung Doors

Rough opening is 1½ ft. more than door height and 1¼ ft. more than door width.

Single Sliding Doors

Rough opening is 3 ft. less than door width and 1 ft. less than door height.

Single Hung Doors

Rough opening is 1½ ft. more than door height and 1¼ ft. more than door width.

WE ACCEPT MASTERCARD AND VISA





Roll-Up Doors

- Economically priced
- Roll-up system does not cut down on light or take up much space
- Easy to install
- Attractive white steel finish is corrosion resistant. Available in other colors
- Side seals and draft stop included to provide excellent weatherproofing in the winter
- Non-insulated doors available
- Sealed bearings for smooth operation
- Ten-year paint warranty
- Three-year material warranty

Part #	Dimensions	Price
INSULATED ROLL-UP DOORS		
TR9448x71	8'w x 7'h	\$1,046
TR9448x81	8'w x 8'h	1,183
TR9448x91	8'w x 9'h	1,286
TR9449x81	9'w x 8'h	1,255
TR9449x91	9'w x 9'h	1,366
TR944WL10x81	10'w x 8'h	1,704
TR944WL10x91	10'w x 9'h	1,884
TR944WL10x101	10'w x 10'h	1,920
TR944WL10x121	10'w x 12'h	2,221
TR944WL12x101	12'w x 10'h	2,213
TR944WL12x121	12'w x 12'h	2,442

All doors with white finish.

Color Options: Sunset Orange, Cedar Red, Evergreen, Desert Tan, Royal Blue, Polar Blue, Continental Brown, Garnet, Shale



Roll-Up Doors

Rough opening is the same as dimensions.



Pre-Hung Insulated Utility Doors

- Polyurethane foam core providing excellent insulation
- Super easy to install on wood or metal frame
- Resistant to warping, swelling, shrinking and chemicals from a typical greenhouse environment
- Full perimeter weather stripping
- White paint finish with 16 ft. x 20 ft. window
- Keyed lockset included

Pre-Hung Insulated Utility Doors

Rough opening for 3' x 6'8" door is 37¼ x 81"
 Rough opening for 4' x 6'8" door is 47¾ x 81"



Part #	Dimensions	Type of Opening	Price
PRE-HUNG INSULATED UTILITY DOORS			
PLY3068LIS66	3'w x 6'8"h	Left in swing	\$741
PLY3068LOS66	3'w x 6'8"h	Left out swing	741
PLY3068RIS66	3'w x 6'8"h	Right in swing	741
PLY3068ROS66	3'w x 6'8"h	Right out swing	741
PLY4068LIS66	4'w x 6'8"h	Left in swing	850
PLY4068LOS66	4'w x 6'8"h	Left out swing	850
PLY4068RIS66	4'w x 6'8"h	Right in swing	850
PLY4068ROS66	4'w x 6'8"h	Right out swing	850

2

NUTS, BOLTS, SCREWS, BRACKETS...



2 x 4 Endwall Bracket Assembly

For attaching framing to endwall bows. Available for wood 2 in. x 4 in. Includes brace band, bracket, and fasteners.

Part #	Size	Bag Qty.	Price Each
Endwall Bracket Assembly for 2" x 4" Wood Framing			
BOB2X4EW13BA	w/ 1 3/8" band	16	\$4.00
NP2X4EW16BA	w/ 1 5/8" band	24	4.50
NOR2X4EW19BA	w/ 2" band	32	4.75



Brace Bands

Galvanized steel brace band used for trussing and bracing.

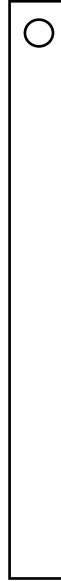
Part #	Size	Bag Qty.	Price Each
Brace Bands			
HBB138E	1 3/8"	25, 50	\$.65
HBB158E	1 5/8"	25, 50	.75
HBB200E	2"	25, 50	.85



Two-Hole Pipe Straps

Part #	Size	Bag Qty.	Price Each
Two-Hole Strap			
FC44612	fits 1 3/8" tube	25, 50	\$.50
FC44613	fits 1 5/8" tube	25, 50	.70
FC44614	fits 2" tube	25, 50	.90

**Note that quantity means quantity per bag or box*



Ground Posts For Greenhouses

Pre-drilled for 5/16 in. carriage bolts.

Part #	Size	Price
1 5/8" (1.66 O.D.) 14 ga. ground posts		
RGS16GP	48" length	\$18.00
1 7/8" (1.90 O.D.) 13 ga. ground posts		
RGSGP3	36" length	18.00
RGSGP4	48" length	24.00
RGSGP6	72" length	36.00
RGSGP9	108" length	54.00

Cross Connector

Drilling can compromise the safety of your greenhouse frame by reducing its tube strength by a full 25%. The unique, 2-piece, aluminum connector retains 100% of your frames' strength. Comes complete with bolts and nuts. Excellent for connecting purlin pipe to your greenhouse for additional hanging basket supports.



Part #	Size	Bag Qty.	Price Each
Cross Connector			
J4PN0150	1 3/8" x 1 3/8"	25, 50	\$4.25
J4PN0160	1 5/8" x 1 3/8"	25, 50	4.50
J4PN0170	2" x 1 3/8"	25, 50	4.75

Metal Endwall Angle Brackets



Part #	Size	Qty.	Price
Metal Endwall Connectors			
JG15AB	1 1/2" bracket	50	\$1.70
JG20AB	2" bracket	50	2.00

AND ALL KINDS OF HARDWARE!



Self-Tapping Tek Screws



Part #	Size	Qty.	Price
Self-Tapping Tek Screws			
FC31817	#12 x 3/4" tek screw	100	\$.18
FC31818	#12 x 1" tek screw	100	.20
FC31819	#12 x 1 1/2" tek screw	100	.25



Woodmate Screws



Part #	Size	Qty.	Price
Woodmate Screws			
FC31123	#12 x 1" woodmate screw	100	\$.13
FC31127	#12 x 1 1/2" woodmate screw	100	.16

Galvanized Steel Tubing



Size	Length	Price
Galvanized Steel Tubing		
1.315", 17 ga. round swedged	12'3"	\$27.00 ea.
1.5", 16 ga. square swedged	12'3"	44.00 ea.
2.0", 16 ga. square swedged	12'4"	68.00 ea.

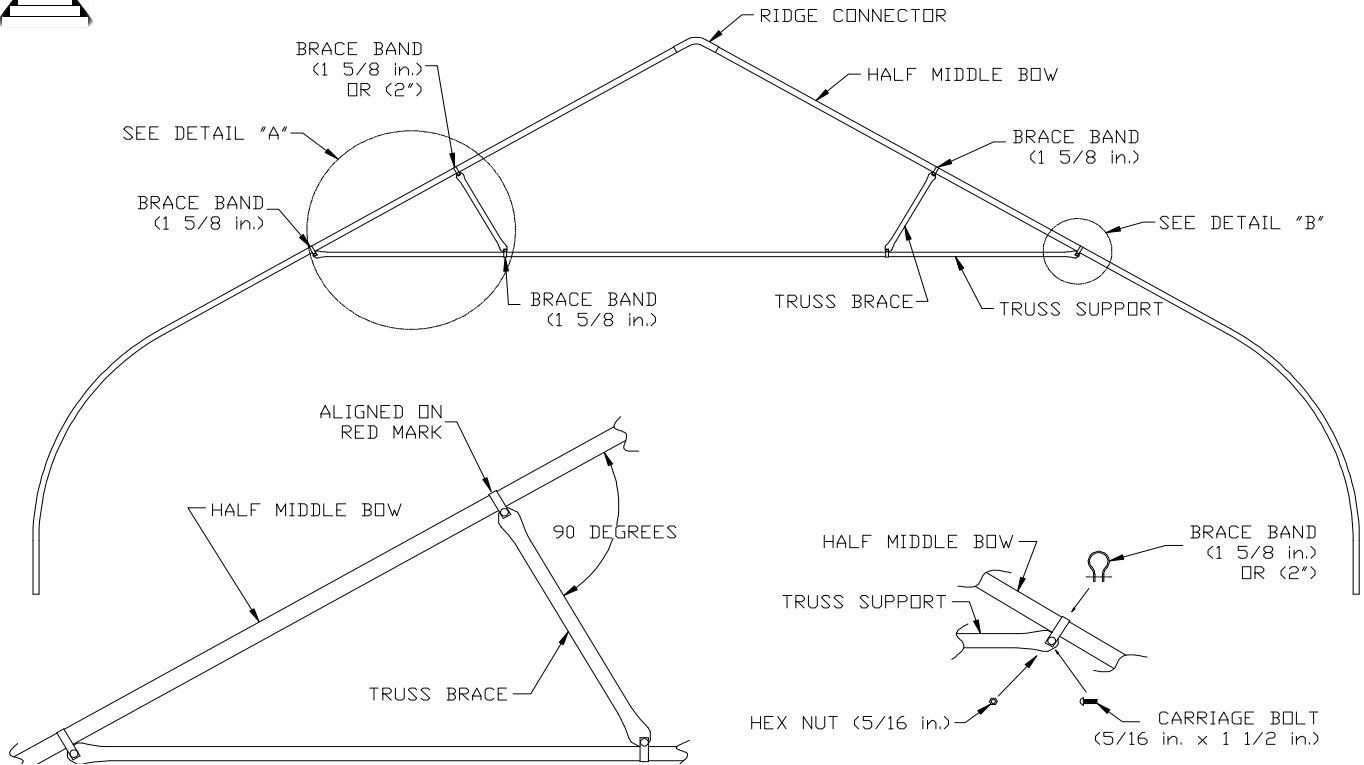
Carriage Bolts & Nuts



Part #	Size	Qty.	Price
Carriage Bolts & Nuts			
FC21259	5/16" x 1 1/2"	50, 100	\$.25
FC21263	5/16" x 2 1/2"	10, 50	.30
FC21265	5/16" x 3"	25	.35
FC21269	5/16" x 4"	25	.50
FC163104	5/16" hex nut	100	.08

CALL TOLL FREE
1.877.746.6544

ORDER ONLINE
WWW.RIMOL.COM



STRENGTHEN YOUR GREENHOUSE WITH TRUSS SUPPORTS AND WIND BRACES

All truss supports and truss braces are 1.315, 17 ga. steel

The 26', 30' & 34' truss supports are sold in 2 pieces with a swedged fit connection

Part #	Description	Price ea.
RGS22003	16', 18', 20', 22' Truss Support (10 ft.)	\$18.00
RGS26003	26' Truss Support (14 ft.)	26.00
RGS30003	30' Truss Support (18 ft.)	32.00
RGS34003	34' Truss Support (23 ft.)	44.00
RGS26004	26' Truss Brace (25 in.)	5.50
RGS30004	30' Truss Brace (32 in.)	8.00
RGSWB3034	34' Truss Brace (54 in.)	12.00
Wind Bracing for Corners (Sold in bundles of 8)		
RGSWB3034	4' Bow Spacing Wind Brace (54 in.)	12.00



Wind bracing shown.

See previous pages for hardware to attach to your greenhouse.

Step

3

Choose Your Covering



Farmer Kev's Organic | West Gardner, ME

POLYETHYLENE COVERINGS FOR GREENHOUSES

Greenhouse Related Products

- **Four-Year Poly**

A high clarity, 6 mil covering, fully warranted for four years. Contains UV block and an anti-dust additive.

- **IR Poly**

A four year, 6 mil energy saving covering, with all the features of Drip-Less plus an additional additive that disperses light and helps to delay the exit of heat from the greenhouse during the night.

Make sure you do not pull your poly tight when using two layers. You want to have a “bubble effect” on the roof for proper inflation.



THE RULES OF INSTALLING GREENHOUSE COVERINGS



Using rope to pull poly over greenhouse helps make the job easier.

1. Aluminum locking channels are recommended for securing poly to the structure.
 Troubled with the poly (PE) slipping in the lock? Could be the poly or, could be the lock. Try a narrow strip of PE in the lock – running the length of the house – to give extra bulk.
2. Apply two layers of sheeting or one roll of tubing to form an air space (bubble) in areas where wind imposes repeated stress. Single layer installations may not have sufficient resistance to
3. It is important – when introducing the air into the “bubble” – that it be blown in obliquely rather than directly on the film. This is why we sell a deflector with every inflation blower.
 Proper air pressure in the “bubble” is extremely important.
4. After installation, avoid surface contact or extended exposure of the covering to herbicides, pesticides, fungicides, and, more specifically, bromine, chlorine, fluorine, iodine, sulfur, petroleum and/or wood preservatives containing copper.
6. It is best to recover in the early morning hours with little or no wind.

FOUR-YEAR POLY PRICING

Four-Year Poly

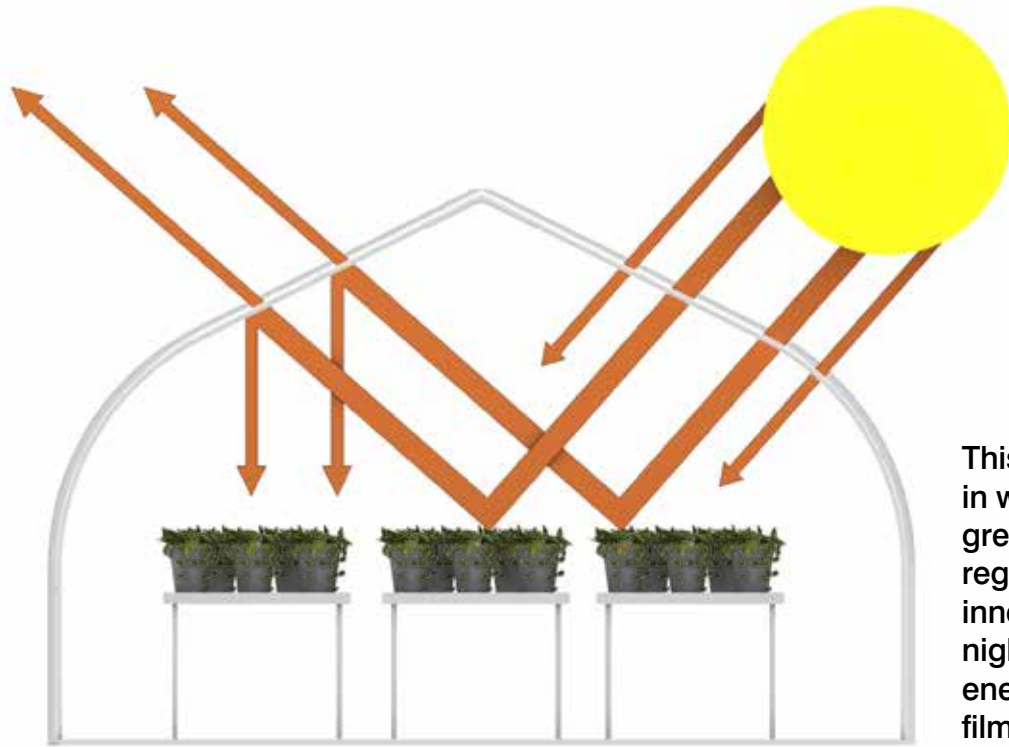
A high clarity 6 mil covering fully warranted for four years. Contains UV block and an anti-dust additive.

Width	Length	Price	Lbs/Roll
6 Mil Sheeting - 4 Year			
20'	100'	\$290	66
24'	100'	348	79
24'	150'	522	116
28'	100'	406	92
32'	100'	464	105
32'	150'	696	155
36'	100'	522	129
36'	150'	783	174
40'	100'	580	131
40'	150'	870	194
48'	100'	696	157
48'	150'	1043	232
56'	100'	812	185
56'	150'	1217	278



Space your greenhouses at least 10 feet apart so that you have adequate room to roll out your poly and install it easily when recovering greenhouses.

IR POLY PRICING



This diagram depicts the way in which sunlight enters a greenhouse through layers of regular poly and IR poly. The IR inner layer helps retain heat at night resulting in about a 20-25% energy gain over conventional film.

IR Poly

A high clarity 6 mil covering fully warranted for four years. Contains UV block and an anti-condensate additive.

**CALL TOLL FREE
1.877.746.6544**

Width	Length	Price	Lbs/Roll
6 Mil Sheeting - 4 Year			
24'	100'	\$386	81
24'	150'	578	120
32'	100'	514	108
32'	150'	771	160
36'	100'	578	133
36'	150'	868	180
40'	100'	643	135
40'	150'	964	199
48'	100'	771	162
48'	150'	1,157	239
56'	100'	900	175
56'	150'	1,350	278

WIRE LOCK POLY FASTENING SYSTEMS

- Extremely easy to install
- Will not cut poly and has superior holding strength
- Low cost per linear foot to install
- Can use just one wire over poly or can double wire for up to four layers of poly or shade cloth installation
- Re-usable when replacing poly
- Aluminum base with stainless steel wire is corrosion resistant
- Can easily bend on curved bows

Side Wall Application



Poly fastening systems with wire are capable of securing greenhouse poly, shade cloth, screening, and a multitude of other flexible materials.

Part #	Description	Price
ADWL8	8 ft. wire lock base (20/box)	\$8.00
AAENDWALL	8 ft. end wall wire lock base	19.00
ADZZW4X20	4 ft. stainless steel wire (20/bundle)	2.00
ADDWL8	8 ft. double wire lock base (12/box)	20.00
FC31818	#12 x 1" tek screw (100/bag)	.20
FC31127	#12 x 1 1/2" woodmate screw (100/bag)	.16

Screws are recommended every one foot in base. Woodmate screws work best when fastening to wood and tek screws are recommended when fastening into steel. 1/4" hex head bolts with nuts are used with 2-hole pipe straps with double wire lock base.

12' lengths of single and double wire lock available.



Double Wire Lock

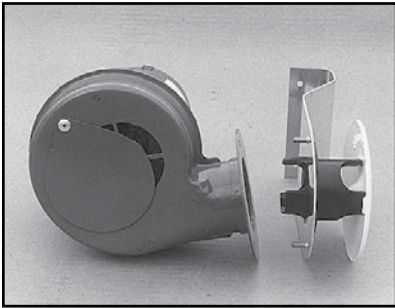
Eliminates the need for a wood hip board for roll-up sides at about the same cost as traditional wood with a run of poly lock.

Application Using End Wall Wire Lock

End wall wire lock can bend over curved bows.



INFLATION SYSTEMS



Inflation Blower Air Deflector & Bracket

Centrifugal blower maintains air space between film layers. Door on blower regulates air flow. Blower bracket and deflector results in easy installation and protects poly from ripping near the blower. Available in 60 and 148 cfm's.



Jumper Hose

Greenhouse Repair Tape

This rugged patching tape bonds aggressively to polyethylene film. This tape is greenhouse film with an adhesive on it.



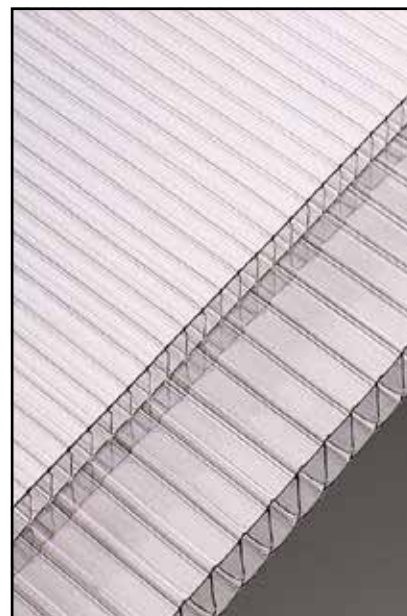
Part #	Size	Price Each
INFLATION BLOWER AIR DEFLECTOR & BRACKET		
JDVBM60	60 cfm blower (round opening)	\$114.00
J4PN0030	deflector/bracket for JDVBM60	23.00
JDVBM1481	148 cfm blower (square opening)	119.00
J4PN0035	deflector/bracket for JDVBM1481	29.00
JUMPER HOSE		
J4PN0026	24" hose	27.00
REPAIR TAPE		
J2PP0248	2" x 48'	14.00
J2PP0448	4" x 48'	21.00
J2PP0648	6" x 48'	32.00

IT'S LIKE SAFETY GLASSES FOR YOUR CROPS

Polycarbonate Sheets

Provide the Ultimate in Safety for Your "Budding" Business

- **Virtually Unbreakable**
Able to stand extreme abuse, its impact strength is 200 times greater than glass and 10 times greater than acrylic.
- **Condensation Control**
A factory applied condensation control is available on 8 mm polycarbonate panels. Reducing surface tension, the condensation control allows water to spread into a thin sheet rather than form into droplets.
- **Easy to Install**
Polycarbonate won't crack or split when cut or drilled.
- **Extra Wide Panels**
Standard widths of 4 ft. and 6 ft. are available.
- **Transparent**
Offering up to 80% light transmission in clear. Also available in bronze and opal.
- **Lightweight**
Weighing just one-eighth the weight of glass, these panels are self supporting and do not require the extensive structural support that a heavier glass wall or glazing material needs.
- **Highly Flexible**
Unlike glass and acrylic, polycarbonate panels can be readily cold formed to many bending radii and can be fabricated on site to precise dimensions.
- **Saves Energy**
The multiwalled construction of these panels give excellent thermal insulating values while blocking UV transmission.
- **Flammability**
Polycarbonate sheets are classified as self-extinguishing. Compared with other plastic products used in the building industry. Polycarbonate multi-wall sheets have an exceptional fire performance and most importantly, do not give off toxic gases.
- **Warranty**
Polycarbonate is backed by a 10 year prorated warranty on light transmission and breakage caused by hail.



Light Transmission	
	Twin Wall
Clear	81%
Opal (White)	54%
Bronze	50%

TIPS FOR INSTALLING POLYCARBONATE

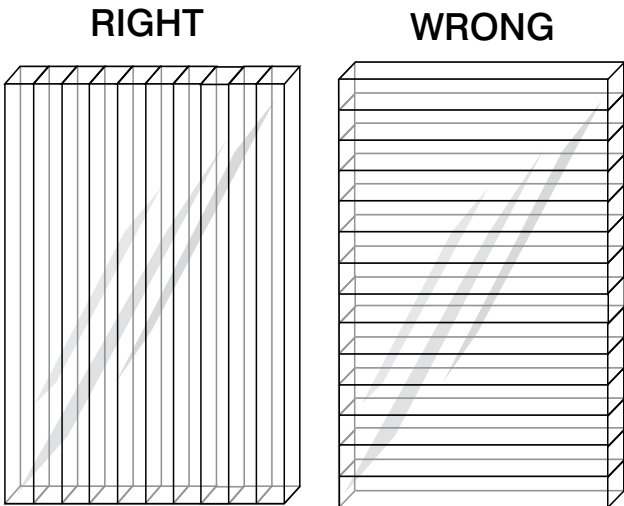
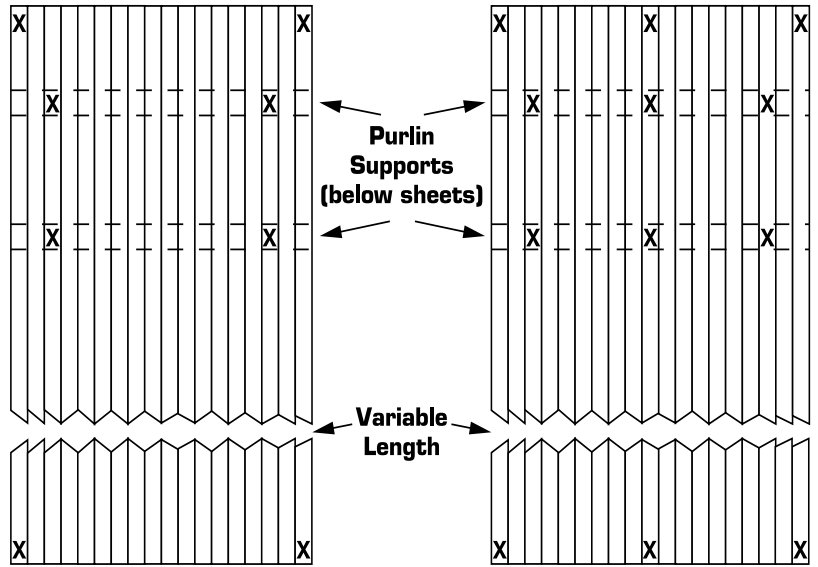
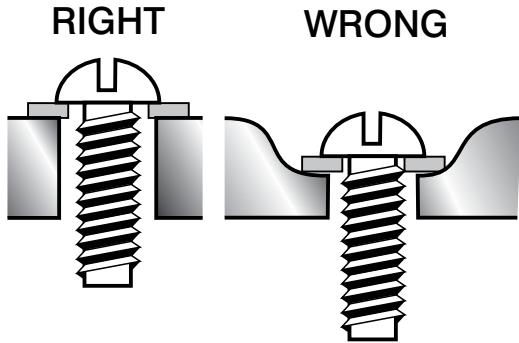
- Polycarbonate should be stored in areas free from sunlight or heat, and materials should be stacked only on a flat surface. If polycarbonate is exposed to direct sunlight or high temperature, this could result in the protective film sticking to the polycarbonate.
- All polycarbonate is supplied with a protective film which should be kept on until the panel is fastened. The UV protected side should face out towards the sun and is marked with a printed film.
- If the protective film is sticking to the polycarbonate, it can be removed with a solvent, preferably naphtha or isopropyl alcohol. After using solvent, the polycarbonate should then be cleaned and rinsed thoroughly using a mild soap or detergent.
- Allow 1/8 in. for thermal expansion.
- When cutting polycarbonate, use a saw with a fine tooth blade. Compressed air may be used to remove dust or form channels after cutting.
- Use screws with neoprene bonded washers to fasten polycarbonate to greenhouse. Use 1/2 in. washers with corrugated polycarbonate and 1 in. washers with polycarbonate.
- Do not fasten screws within 1/2 in. of the edge of a polycarbonate sheet. When fastening screws, do not tighten below the surface of the panel.
- Glazing sheets should be joined using either aluminum profiles from Rimol Greenhouse Systems.
- Use solid foil tape at the tops of the sheets to seal out water and insects, and foil vented tape at the bottom of the sheets to seal out any insects and allow condensation to drain out of sheets.
- Do not over bend polycarbonate sheets. Minimum bending radius is 150 times the thickness of the panel.
- When joining sheets of corrugated polycarbonate, allow for one corrugation to overlap. Sheets are 50 in. wide and will net 48 in. when overlapped.

Recommended Loading Guidelines for Selecting Sheet Thickness and Purlin Spacing *(Sheet Supported on the Four Sides)*

Max. Purlin Spacing (Inches) Deflection - 1"				
Load Per Gauge (lb/ft ²)	4' Width			
	15	30	45	60
8 mm, 5/16"	38"	28"	18"	-
Load Per Gauge (lb/ft ²)	6' Width			
	15	30	45	60
8 mm, 5/16"	36"	26"	12"	-

Max. Purlin Spacing (Inches) Deflection - 2"				
Load Per Gauge (lb/ft ²)	4' Width			
	15	30	45	60
8 mm, 5/16"	80"	54"	46"	40"
Load Per Gauge (lb/ft ²)	6' Width			
	15	30	45	60
8 mm, 5/16"	60"	44"	38"	34"

TWIN WALL POLYCARBONATE INSTALLATION



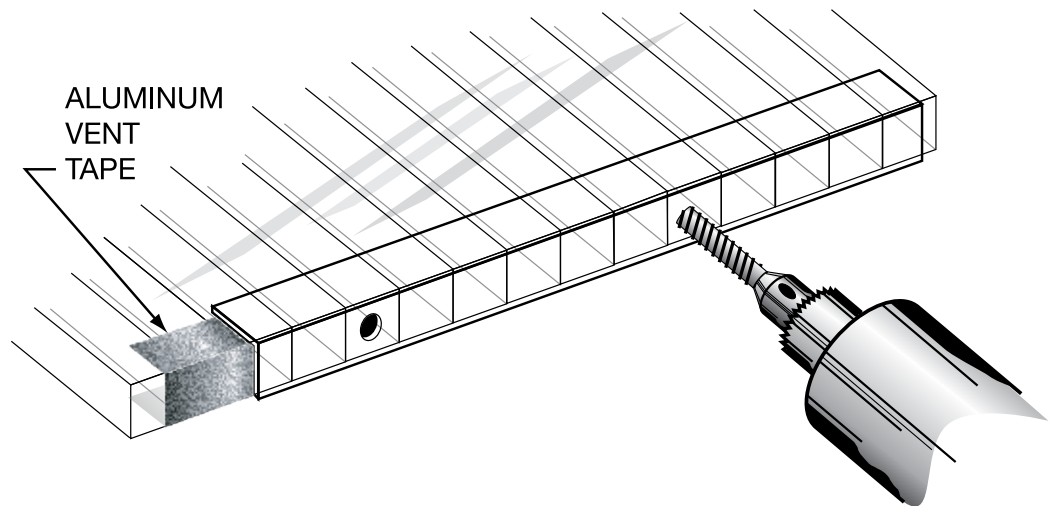
48" Width

48" wide sheets should be fastened to supports at all four corners, and at points 6" in from the edges of each purlin support.

72" Width

72" wide sheets should be fastened to supports at all four corners, and at points 6" in from the edges of each purlin support.

Polycarbonate Installation



POLYCARBONATE INSTALLATION

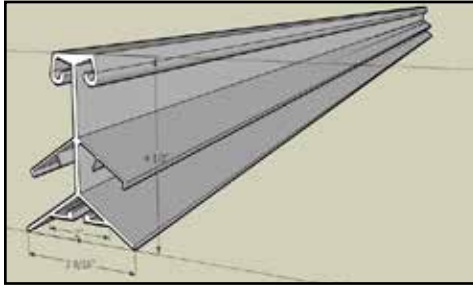


Polycarbonate installation on a roof.



Polycarbonate installation on an end wall.

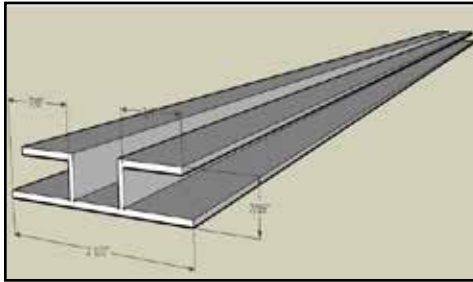
8 MM TWIN WALL POLYCARBONATE PRICING



Ridge Profile

Use at ridge of greenhouse. Fasten with $\frac{5}{16}$ in. carriage bolts and nuts. Available 12 ft. 2 in.

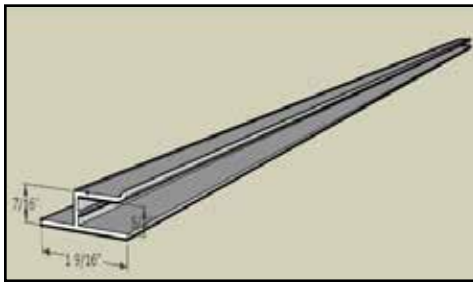
AARP **\$172 ea.**



H-Splice

Use for splicing two pieces of polycarbonate on walls only. Available in 12 ft. lengths.

AASplicePro8 8' long **\$16 ea.**
AASplicePro12 12' long **\$24 ea.**



End Cap

Used for finishing around doors, fans, and other equipment. Available in 12 ft. lengths.

AAEdgePro8 8' long **\$12 ea.**
AAEdgePro12 12' long **\$18 ea.**

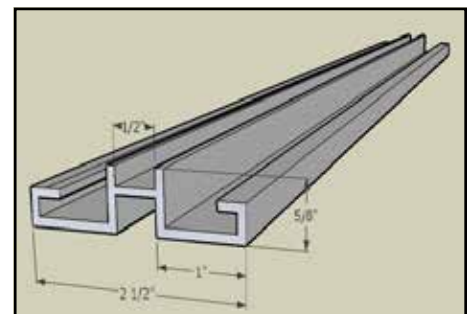
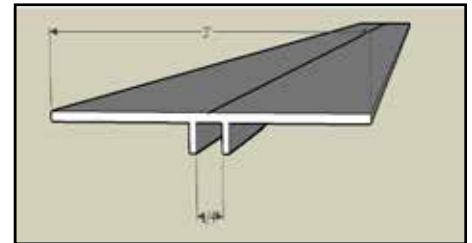
Length	4' Wide Clear	4' Wide Bronze/White	6' Wide Clear	6' Wide Bronze/White	Crating Charge
4'	\$30	\$33	\$44	\$49	\$72
5'	37	41	55	61	72
6'	44	49	66	73	72
7'	52	57	78	86	72
8'	59	65	89	98	72
9'	66	73	100	110	81
10'	74	82	111	122	90
11'	81	89	122	134	99
12'	89	97	133	146	108
13'	96	106	144	159	117
14'	103	114	155	171	126
15'	111	122	166	184	135
16'	118	130	177	195	144
17'	125	138	188	208	153
18'	133	146	199	219	162
19'	140	154	210	233	171
20'	148	162	221	244	180
21'	155	171	232	256	189
22'	162	179	244	268	198
23'	170	187	255	282	207
24'	177	195	266	292	216

- One-time crating charge applies to the longest piece ordered

Glazing Bar Base & Cap

Used for splicing polycarbonate on roofs only. Available in 11 ft., 14 ft. and 17 ft. lengths.

AABarbase11 **\$61**
AABarcap11 **28**
AABarbase14 **77**
AABarcap14 **35**
AABarbase17 **94**
AABarcap17 **43**
AABarbak20 **110**
AABarup20 **50**
AABarbase25 **138**
AABarbox25 **63**





#12 Self-Tapping Tek Screws

Sold in bags of 100.

FC31817	3/4" length	\$0.18 ea.
FC31818	1" long	.20 ea.
FC31819	1 1/2" long	.25 ea.



#12 Woodmate Screws

Sold in bags of 100.

FC31123	1" long	\$0.13 ea.
FC31127	1 1/2" long	.16 ea.



Neoprene Bonded Washers

Sold in bags of 100.

FC1024700151	\$0.17 ea.
---------------------	-------------------



Aluminum Flashing

FL404008	10' length	4" x 4"	\$90
FL402008	8' length	2" x 4"	55

CORRUGATED POLYCARBONATE SHEETS

Lightweight

At just 1/8 the weight of glass, corrugated sheet does not require the extensive structural support that a heavier glass wall or skylight needs. Lightweight sheet is easy to handle and install.

Virtually Unbreakable

Able to stand extreme abuse, the strong corrugated sheet has an impact resistance 20 times stronger than fiberglass and over 120 times stronger than fiberglass and over 120 times stronger than glass.

Resisting hail, windborne objects and vandalism, withstand over 235 inch-pounds of impact within a temperature range of -40°F to 240°F as measured by ASTM D 3029.

Easy to Install

Corrugated sheet has been specifically designed for simple and rapid installation. It easily adapts to any wall or roof with a bending radius over 13.

Flammability

Corrugated sheets are classified as self-extinguishing.



Warranty

Corrugated sheet is manufactured using state-of-the-art co-extrusion technology combining color, UV resistance and durability. Remaining clear for many years, it is backed by a ten-year, non-prorated warranty against yellowing.

Load Information

Recommended Purlin Distances:
 Roof 36 in.
 Wall 48 in.

*Go to www.rimol.com
 for the most current pricing!*

Light Transmission	
Clear	90%
Bronze	48%
Opal (White)	52%

RE-INFORCED WOVEN POLY FOR END WALLS

- Made of UV-resistant woven polyethylene
- Ideal for end walls on high tunnels
- Tear resistant, long lasting coated material
- Four-year warranty
- In-stock for immediate shipment for end walls
- Can also be used on roof as a second layer of poly
- Please call for details and pricing

Made in New Hampshire by



**CALL TOLL FREE
1.877.746.6544**

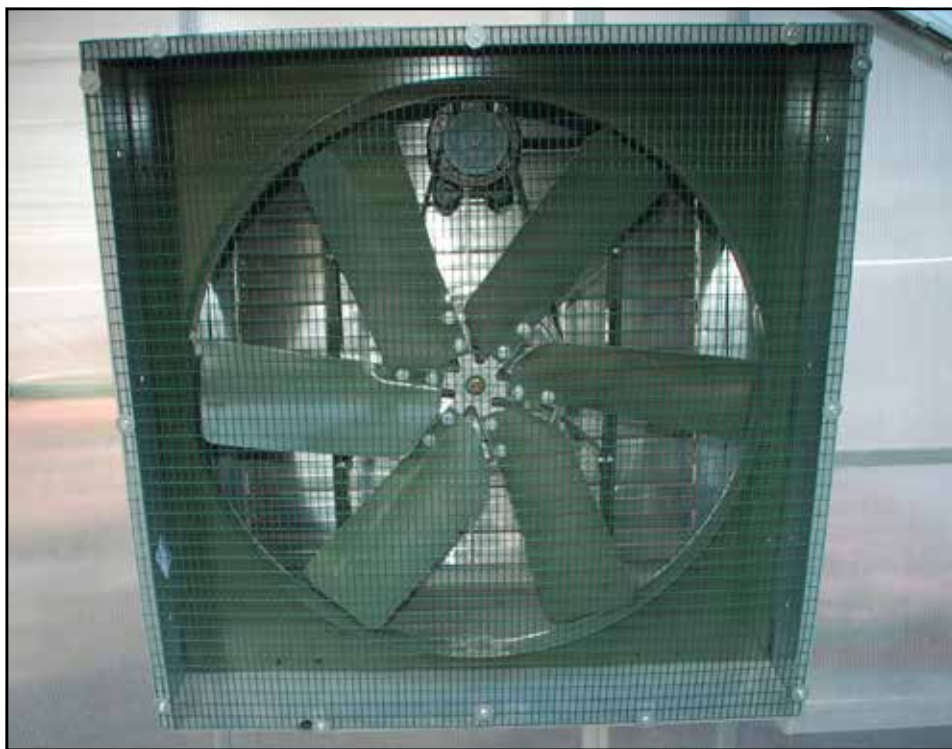


HOW TO SIZE FANS AND SHUTTERS

An easy and simple way to size greenhouse ventilation will depend on what style greenhouse you may have.

For free-standing greenhouses:

1. If you have a 18 ft., 20 ft., 22 ft., 26 ft., 30 ft. or 34 ft. greenhouse, use the same principle as above, except multiply the width and length by 7. For example, a 30 ft. x 96 ft. greenhouse will be $30 \times 96 \times 7 = 20,160$ cfm's per minute of air flow. For larger houses, use two fans so that you can stage your cooling in two or three different levels. By using two fans, each fan will be required to move 10,080 cfm's of air. Using the chart on page 86, you will see that two 36 in., 1/2 hp fans will meet your requirements.
2. For a gutter connect greenhouse, multiply width times length times (gutter height plus 1/2 the gable height). For example, a 24 ft. x 96 ft. gutter connect greenhouse with a 10 ft. gutter height will be $24 \times 96 \times (10 + 3) = 29,952$ cfm's per minute. Divide by 2 for each fan which amounts to 14,976 cfm's per fan. Refer to page 86, and you will see that 48 in. fans will come close to your requirements.
3. To calculate shutter size, take your total cfm's and divide by 600. The number is an air velocity number that means

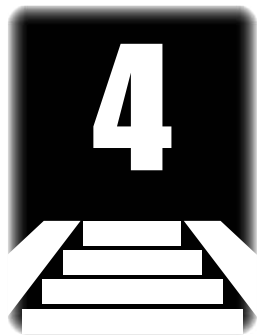


that the air is traveling at 600 feet per second. Smaller shutter openings will create a higher air velocity and create more of a breeze and larger openings will create a lower air velocity and create less of a breeze. For example, a 30 ft. x 96 ft. greenhouse with two 36 in., 1/2 hp fans will equal $(10,308 \times 2) 20,616$ cfm's of air movement. Divide by 600 and it will equal 34.36 square feet of opening required. Therefore, you can use two 51 in. shutters, or you can use two 45 in. shutters and one 30 in. gable shutter.

4. By using two large shutters and one small gable shutter, you can stage your cooling so that on stage one of cooling, the low speed of a two speed fan

turns on, and the small gable shutter opens. This is ideal for winter cooling. On stage two of cooling, the large shutters open in addition to the small gable shutter, and the high speed of the two speed fan turns on. This is ideal for spring and fall cooling. On stage three of cooling the other fan turns on which is a single speed fan, and now that both fans are running, you have full ventilation with one air exchange per minute. This is ideal for summer cooling.

Step



Mechanical Ventilation Natural Ventilation Shading





GALVANIZED ANGLE WALL FANS

Superior Design and Performance

The six-bladed propeller with high-efficiency design produces more CFM/WATT at lower RPM. This saves on your electric bill!

The automatic belt tightener eliminates belt tension problems and one maintenance operation, plus the fan stays super quiet. This key feature is included in the price of each fan and will guarantee quiet operation.

Features and Accessories

- Galvanized construction
- Quiet operation at low RPM
- Dust, dirt and moisture proof bearings
- High-efficiency, heavy-duty, totally enclosed motors have a low operating cost
- All aluminum gravity shutters/louvers
- Permanently lubricated fan shaft ball bearings
- Guards included meet OSHA requirements



CFMs on Fans

Fan Size	Motor HP	CFMs			Fan Pricing	
		SP at .10 Standard Cooling	SP at .125 Evaporative Cooling	SP at .25 Light Traps	1 Speed	2 Speed
24"	1/2	6,006	5,864	4,740	1,196	1,283
30"	1/2	6,956	6,582	3,418	1,303	1,402
30"	3/4	8,131	7,930	5,757	1,328	1,576
36"	1/2	9,553	8,992	3,430	1,329	1,413
36"	3/4	11,253	10,924	7,481	1,345	1,594
42"	3/4	13,460	12,939	7,005	1,711	1,957
48"	1/2	14,166	12,910	-	1,986	2,054
48"	3/4	16,989	16,273	4,527	2,012	2,393
48"	1	19,563	19,031	13,723	2,064	-
56"	1	24,300	21,400	-	2,402	2,726
56"	1.5	28,500	26,500	8,400	2,503	-

ALUMINUM WALL SHUTTERS

They Don't Let The Cold Air In When They Are Sealed Shut!

These heavy duty aluminum wall shutters are designed to open and close according to air flow with minimum friction. Rain and foreign objects are prevented from entering when the shutters are open or closed.

Aluminum pivot rods and nylon bearings resist corrosion and prevent sticking. Counterbalanced aluminum blades ensure trouble-free operation.



Size	Price
24"	\$315
30"	344
36"	424
42"	467
48"	513
54"	577
60"	723
60" W x 24" H	581
60" W x 36" H	587
60" W x 48" H	798

Thermostats		
TSTAT1STAGE	Single stage	\$82
TSTAT2STAGE	Two stage	165

* All shutters are motorized. Non-motorized shutters are available. Please call for pricing.

* Add 1/4" on each side for rough openings.

EVAPORATIVE COOLING SYSTEMS

Evaporative Cooling in Concept

To counter periods of extreme temperatures that affect in-house environments and therefore production, Coolair Evaporative Cooling Pad Systems are used with outstanding success. When large quantities of air are pulled through Evaporative Cooling Pads that are saturated with water, a substantial cooling effect is realized due to the evaporation of that water. Used in conjunction with Coolair fans, a temperature reduction of 10-25 degrees is commonplace. Suited for virtually all geographic locations, the Coolair Evaporative Cooling System delivers the greatest economic benefits to areas where higher temperatures during longer periods of time are normal.

The Evaporative Cooling Pad

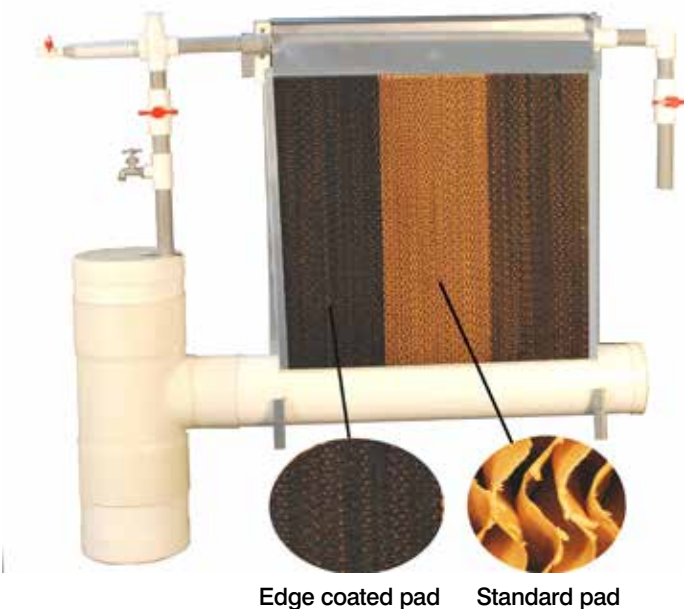
Evaporative Cooling Pads (Evap Pads) are a product developed for horticultural and agricultural cooling applications. Evap Pads are made of a specially formulated cellulose paper, impregnated with insoluble anti-rot salts, stiffening saturants and wetting agents. Evap Pads have a cross-fluted configuration that provides maximum cooling when warm air passes through the wet Evap Pad material.

- Evap Pads will not sag, rot, or develop holes.
- With proper care and maintenance, Evap Pads will last for five years or more.
- There is no carry-over of water droplets to enter the house.
- Aesthetic appearance of Evap Pads compliments modern buildings.

Evap Pads are 4 in. or 6 in. thick, and 12 in. or 24 in. wide with height increments every 12 in. from 24 in. to 72 in. The Evap Pads are positioned adjacent to each other to form a continuous surface of the required height and length. In addition to the standard Evap Pad, edge-coated pads, which help reduce algae growth or build-up, are also available.

Features of Evaporative Cooling Pads

- Evap Pads will not sag, rot or develop holes.
- With proper care and maintenance, Evap Pads will last for five years or more.
- There is no carry-over of water droplets to enter the house.
- The neat appearance of Evap Pads complements modern buildings.



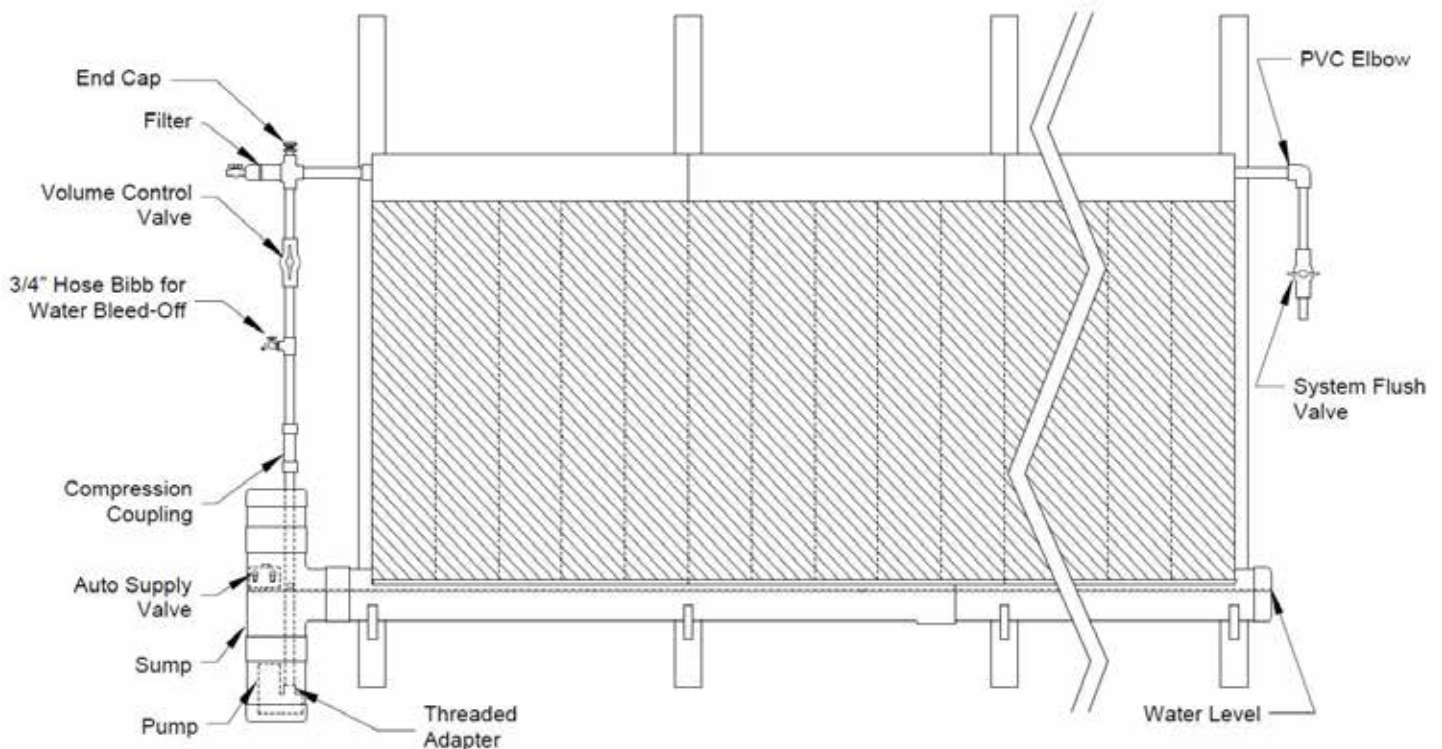
All 6 in. Evap Pads and 4 in. Evap Pads up to 48 in. tall are self-supporting, and do not require wire baskets or other supporting materials. The pads are held in place by component parts of the system. Tall pad supports are required on 4 in. pad systems over 4 in. tall. Standard Evaporative Cooling Systems are available from 2 ft. to 6 ft. tall in lengths up to 110 ft. Systems up to 12 ft. tall are available with American Coolair's "Doublestack" Evap Pad Cooling System.

Water Distribution System

The water distribution systems for the PVC, Aluminum and Doublestack designs feature PVC pipe with metered outlet holes, water return trough, water filter, an automatic supply valve, and a volume control valve. All systems also include top and bottom pad support material, water distribution pipe cover (except for Open Top systems), and all necessary fasteners.



PVC Evaporative Cooling System
(shown with a submersible pump)



ACCESSORIES FOR ROLL-UP SIDES



Woven Polyethylene

A reinforced woven poly with excellent light transmission will outlast regular poly because of its durability. It will not tear or fade for many years, and can be used for roll up sides or end wall covering. Please contact us for pricing.



Two-Hole Strap

Secures hipboard of roll-up side to bows. Use 1" woodmate screws to fasten to hipboard and use one tek screw per bow to attach two-hole strap to bow. This prevents the strap from sliding down the bow.

Part #	Size	Price Each
TWO-HOLE STRAP (50 PER BOX)		
FC44612	fits 1 3/8" tube	\$.60
FC44613	fits 1 5/8" tube	.75
FC44614	fits 2" tube	1.00
NYLON CURTAIN ROPE		
ADRPV4X125	125' rope <i>Holds curtain in place</i>	\$18
FASTENERS (100 PER BAG)		
FC31123	#12 x 1" woodmate screw	\$.13
FC31818	#12 x 1" tek screw	.16
SWAGED TUBING		
RGSSPSW123	1.315", 17 ga. x 12'3"	\$27
T-HANDLE KIT		
RGSTHK	one pair	\$30
ROLL-BAR CURTAIN CAP		
ADRBC8	8 feet <i>Does not include tek screws</i>	\$13.95

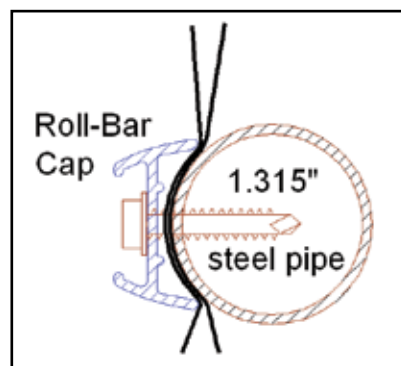


T-Handle Kit

The T-Handle Kit is a simple, cheap and easy way to attach a handle to a roller bar.

Swaged Tubing

Swaged tubing is used for the roller bar. Connect each pipe with swaged end into non-swaged end with 2 tek screws or with bolt and nut.



Roll-Bar Curtain Cap

Attach to the roller bar with tek screws to hold poly (*curtain*) to roller bars. Much better than curtain clips because poly does not tear.

OPERATORS & ACCESSORIES FOR ROLL-UP SIDES



Rope Hook

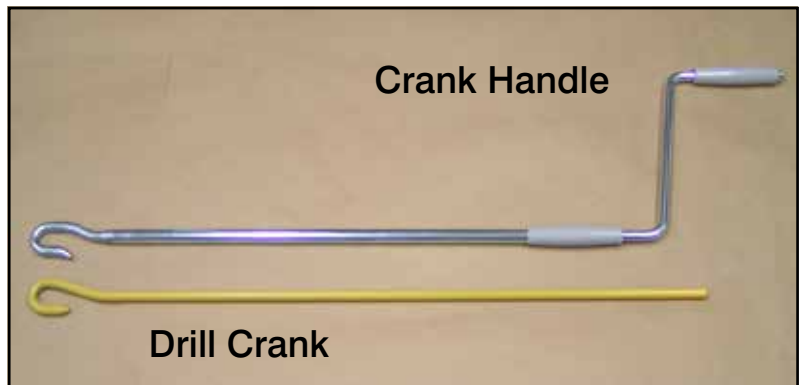
Used at top of roll-up sides to hold rope.



Rope

A strong, weather-resistant polyester rope for securing roll-up curtains.

- Gear box operators have internal brakes holding the roll-up sides in place very easily
- Super easy to roll up and down
- Drill brace adapter can be used with cordless drill to roll sides up and down
- Easy to install and very reliable
- All gear box kits include 2 operators, 2 roll bar adapters, 2 (7 ft.) guide pipes, all hardware and 30 ft. hand brace for rolling sides up and down



Item #	Description	Price
AD65RBA1213	Roll bar adapter for 1.315 pipe	\$30.00
RGSGP7RUC	7' guide pipe for roll up curtain	18.00
AD71GPHO	Gear guide pipe hardware	15.00
AD63GC131	13:1 gear box	162.00
AD64CH2	24" crank handle	23.00
AD64CH4	48" crank handle	28.00
AD64DC2	24" Drill crank for use with cordless drills	29.00
ADRP14X125	125' rope	18.00
ADSNAP	Rope hook	1.50 ea.

Gear Box Kits for (1) Pair of Roll-up Sides

Gear box kit for curtains 60 ft. or less.

RGSGB2460 **\$350**

Gear box kit for curtains 72 ft. to 96 ft.

RGSGB7296 **\$450**



SHADE CLOTH

Knitted Shade Cloth Made to Order

Made to your specific dimensions, these shade covers are an easy way to reach the right light levels for your plants. Rugged and durable covers are easy to put on and take off.

Features

- Knitted for extra durability
- Helps protect crops from sun, wind, pests, and rain
- Ships quickly
- Custom made to fit your greenhouse dimensions
- Protects for multiple seasons
- Long life, high UV resistant fabric
- Available in different colors for a “funky” look

Standard Fabrics	Stock Widths (Feet)						Price per sq. ft.	Finished price per sq. ft.
	6	8	12	20	26	32		
Black								
30%	X		X	X	X	X	.21	.30
40%	X	X	X	X	X	X	.23	.31
50%	X	X	X	X	X	X	.25	.33
60%	X	X	X	X	X	X	.28	.35
70%	X		X	X	X	X	.33	.40
80%	X		X	X	X	X	.38	.45
90%	X		X	X	X	X	.41	.47
White								
40%	X	X	X	X	X	X	.32	.38
50%	X	X	X	X	X	X	.39	.46
Blue								
60%	X		X				.48	.55
Violet								
60%	X		X				.48	.55
Forest Green								
70%	X		X				.48	.55
Brown								
70%	X		X				.48	.55
Red								
70%	X		X				.48	.55
<i>Any size can be custom sewn using a combination of widths available.</i>								
<i>Finished price is shade cloth with finished edges with brass grommets spaced every 2 ft. on center.</i>								

ALUMINET® PRICING



Aluminet® “Cool Shade” Cloth

Maximum radiation reflection on both sides, night and day. Substantially reduces heat buildup in greenhouses.

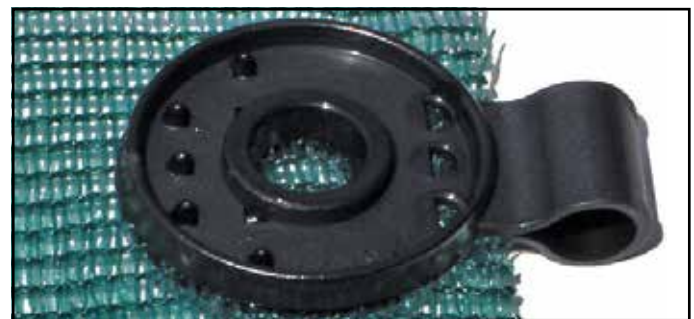
Bright, shiny appearance also maximizes light diffusion underneath, improving plant growth.



Fabric					Price per sq. ft.	Finished price per sq. ft.
Aluminet	7	14	21	28		
40%	X	X	X	X	.48	.54
50%	X	X	X	X	.50	.56
60%	X	X	X	X	.52	.58
70%	X	X	X	X	.59	.65



Brass Grommets with Finished Edges



Plastic Grommets

\$0.35 ea.

Shade Rite Hinged Grommet Fasteners cover a larger surface area on the fabric for strength and stability.

4

HOW TO SIZE A GREENHOUSE HEATING SYSTEM

Sizing a heating system for a greenhouse is not an enormously difficult task requiring complex calculations. True, there are as many formulas as there are growers, but the basic principle remains the same – to warm the greenhouse in the most efficient manner.

Here is our methodology for sizing heating systems:

1. Determine the total exterior surface area; for example, let's use a 22 ft. wide, 96 ft. long peaked free-standing house.
2. Start by calculating end wall surface area: 22 ft. (width) x 8 ft. (average wall height) = 176 ft. (one end) x 2 = 352 ft. (both ends).
3. Finally, calculate roof surface area. In our example, the roof uses 36 ft. wide poly. 36 ft. x 96 ft. = 3,456.
4. Multiply sq. ft. by the "U" Factor (see chart). In this example, the house is covered with 8 mm polycarbonate on the ends, which has a U Factor of .58, so $352 \times .58 = 204$.

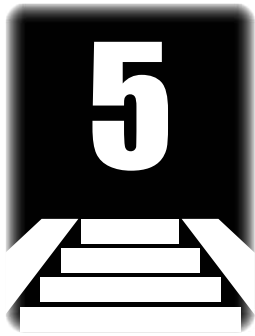
The roof is covered with double poly, which has a U Factor of .7, so $3,456 \times .7 = 2,419$.

5. Next, add up the numbers. $204 + 2,419 = 2,623$
6. Next multiply 2,606 by "Delta-T." Delta-T is an expression of heat loss over the length of the house. We use a Delta-T of 70, the highest, to insure plenty of heat. So, $2,623 \times 70 = 183,619$. Since most heaters are 80% efficient, 183,610 divided by .8 = 229,513, the amount of BTUH's needed to heat the house with a heater.
7. So, we need a heater with an input of 229,513 BTUH for gas heat.

U Factors	
Single Layer Glass	1.13
Single Layer Poly	1.15
Double Layer Poly	.7
Corrugated Polycarb	1.00
8 mm Polycarbonate (2-wall)	.58
1" Thick Insulation	.14

Note: U-factor is inversely related to R-value. The lower the number, the better the insulating value!

Step



Select Your Heating System





Ten Ways to Save on Your Energy Costs

- 1. Upgrade Your Environmental Controls.** Even if you are small grower, you can upgrade your environmental controls very easily and inexpensively. With environmental controls, you will have more accurate temperature readings and you can set day and night temperatures. You do not have to be a computer genius to operate environmental controls
- 2. Use IR Greenhouse Poly.** By using IR greenhouse poly on the inner layer of your greenhouse coverings, you can save money with a quick payback of the added cost of the poly. The poly also contains an anti-condensate additive that will improve drip control in the colder months when condensation builds up on the poly overnight.
- 3. Insulate With an Energy Curtain.** Think about investing in an energy curtain for shade in the summer and heat retention in the winter when you construct your new Matterhorn greenhouse. In just two years, you can pay off your investment with an additional blanket for your greenhouse.
- 4. Install A Hydronic Heating System.** There is a wide array of hot water heating products that can reduce heating costs and help you grow a better plant. Put the heat where it belongs with a hydronic heating system.
- 5. Use Fuel-Efficient Unit Heaters.** Today high-efficiency gas heaters are tremendously improved for greenhouse heating. There are power-vented gas unit heaters and separated combustion heaters that can perform more efficiently than the older gas heaters. There may be tax benefits to upgrade your heaters.
- 6. Use Natural Ventilation.** Natural ventilation with roof vents, side vents or roll-up sides will save you money in electricity.
- 7. Install Wire Lock & Inflate Your Poly.** A well-sealed greenhouse with good inflation can reduce drafts and increase your insulation with the air in between the poly. Check your blowers and wire lock to see how they are performing.
- 8. Polycarbonate End Walls.** Adding polycarbonate to end walls to improve insulation by sealing out air gaps around doors and equipment on the ends. Polycarbonate ends are more efficient than wood or poly ends and require no maintenance.
- 9. HAF Fans.** Horizontal Air Circulation in greenhouses disperses the heat more evenly and improves the growing environment.
- 10. Get An Energy Rebate.** See what programs your State has to offer.

At Rimol Greenhouse Systems, we are experts in greenhouse structures and systems, and we can help you save on your fuel costs.

Call us and let us help you with high energy costs.

**CALL TOLL FREE
1.877.746.6544**

MODEL UD - HIGH EFFICIENCY

Propane or Natural Gas Heaters



Standard Features

- 82-83% thermal efficient
- Rubber isolated fan and venter motors
- Certified for commercial applications
- Tcore²[®] design aluminized steel heat exchanger
- Tcore²[®] single burner
- Low profile cabinet design
- Corrosion resistant super-gloss finish
- All components are enclosed inside cabinet
- Integrated circuit board with diagnostic indicator lights
- Multi-try direct ignition with 100% lockout
- Fan relay (included on the circuit board)
- 1-pt or 4-pt suspension – standard on all sizes
- External low voltage terminal strip
- External gas connection
- Full fan guard
- Side service access

Reznor Heater Pricing for UD Series

Model Number	BTU Input	Vent Size	Price Each	
			Natural Gas	LP (Propane)*
REZUD75	75,000	4"	\$1,622	\$207
REZUD100	100,000	4"	1,745	207
REZUD125	125,000	4"	2,090	207
REZUD150	150,000	5"	2,226	207
REZUD175	175,000	5"	2,475	207
REZUD200	200,000	5"	2,651	207
REZUD225	225,000	5"	3,152	207
REZUD250	250,000	5"	3,080	207
REZUD300	300,000	6"	3,686	210
REZUD350	350,000	6"	4,186	210
REZUD400	400,000	6"	4,501	210

* LP Kit prices to convert from natural gas to propane.

	Part #	Vent Size	Price Each
UD SERIES			
VENT PIPE KITS	RGSVP1760	4"	\$179
	RGSVP1770	5"	189
	RGSVP1780	6"	198
HEATER HANGER KITS	NPHHKIT	Northpoint/Nor'Easter	75
	EPHHKIT	Eastpoint	110
THERMOSTATS	TSTAT1STAGE	Single-Stage	82

All UD Series vent pipe is double walled galvanized steel. Each kit includes:

- (1) 4 ft. section of "B" vent
- (1) wall thimble
- (1) cap
- (1) draft hood adapter

REZNOR MODEL UEAS SUPER HIGH EFFICIENCY SEPARATED COMBUSTION HEATERS

Reznor® V3 Series Model UEAS gas-fired, high efficiency, separated combustion unit heaters are available in 4 sizes ranging from 131,000 to 305,000 BTUH gas input. Heaters are designed for up to 93% thermal efficiency.

The preeminent internal feature is the Tcore³™ high-efficiency heat exchanger and single burner combustion system. Other standard features include a single-stage gas valve, multi-try direct spark ignition with 100% lockout, pressure switch to verify vent flow, venter monitor, aluminum venter wheel with housing, resiliently

isolated axial fan and motor assembly, a high temperature limit control, interlock door switch, and a built-in disconnect switch. Operations controlled through an integrated circuit board. The circuit board monitors heater operation and has LED diagnostic indicator lights to identify abnormalities in control functions.

The 1st ever separated combustion system in the commercial/ industrial heating industry **was introduced on a Reznor heater** in the 1960's, and that proven technology is continued in this new specially designed combustion

air/vent system including the unique concentric adapter box that allows for only one building penetration for both the vent and combustion air.

The V3 Series unit heaters are designed to provide all the features you expect in a Reznor heater plus improved efficiency, easier installation, and a new look – **both inside and out**. Look for the unique white unit with no visible front and bottom hardware, deep red louvers, black side handle, and angled corner to know you have a genuine Reznor unit by Thomas & Betts.

How it works

The following is a diagram showing air flow patterns for Model UEAS. Thin arrows show air flow from combustion air intake, across the burner, through primary and secondary heat exchangers and out exhaust vent. Larger arrows show air flow across the heat exchanger to provide heat to the space.



Please contact RGS for the most current pricing!

HORIZONTAL AIR-FLOW (HAF) FANS FOR EVEN HEAT DISTRIBUTION AND DISEASE SUPPRESSION

HAF fans make greenhouse heating and cooling more effective by evening out temperatures throughout the structure.

It is done with gentle but high volume air circulation to eliminate hot and cold spots. The objective is a smooth flowing mass of air circulating throughout your greenhouse.

As a guideline, one fan is required every 50 feet.

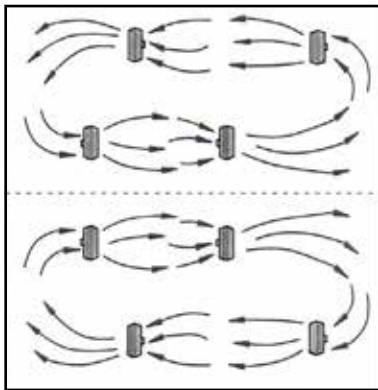
Features

- Totally enclosed, ultra high efficiency motor with built-in thermal protection and self-aligning sleeve bearings
- Quiet and maintenance free
- OSHA approved
- 2 year warranty
- Mounting brackets included

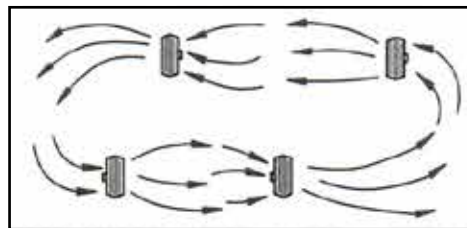


12" variable speed fan recommended for greenhouses that need more control with air flow.

Multiple Wide Greenhouse



Single Greenhouse



20" fan recommended for larger greenhouses and for maximum air circulation.

Model	Size	CFM's	Volts	Amps	Pricing
JDVBG12	12"	2,600	115/230	1.12/.56	\$210
JDVDB20G	20"	5,080	115/230	3.64/1.82	182
JDMV1	Variable Speed Controller for Fans				289
TSTAT1STAGE	Single Stage Thermostat for Fan				82

Hydronic Bench Heat

The Bottom Line on Temperature Control



Heat₂O knows how to maximize flexibility, efficiency and results in the greenhouse.

Grow Better with Hydronic Heat

Heat₂O Hydronic Bench Heat gives you just what you need in your greenhouse. Efficient, even heat to promote healthy growth, controlled and customizable, bench-by-bench. It's better for plants and better for your budget. And the results speak for themselves: higher seed germination rate, accelerated rooting in young plants and faster plant growth.

Better Plant Quality, Lower Heating Costs

Hydronic heat works by warming the plant soil instead of warming the whole greenhouse. Here's how: heated water circulates through an arrangement of rubber tubing on the bench, providing radiant heat and bringing the soil to the desired temperature. When heat is directly and evenly distributed at the root zone, plants reach maturity more quickly and have less disease, resulting in higher yield and more profits to you. Bench heat is also more economical than conventional forced-air heating, offering up to 20% in fuel savings. Plus, growers have the flexibility of creating different bench temperature zones in the same growing environment.

Partner with Heat₂O

Heat₂O knows greenhouse growing, and our design team is ready to work with you to customize the Hydronic Heating System you need, to spec. The system comes with all the equipment needed for a complete bench heating system; from the heat source, piping and water treatment, to a digital controller and EPDM bench tubing material. Let us help you elevate your growing operation and get the results you need.



MADE IN THE USA

Heat₂O Hydronic Bench Heat is engineered and manufactured right here in the USA.



Heat₂O Hydronic Bench Heat

- **Rubber Tubing:** High-quality EPDM rubber tubing set on 2-inch centers and resistant to ozone, chemicals, fertilizers, and soil temperature. Ideal for use in a hot water heating system due to its resistance to temperature and chemicals and its superior heat transfer capabilities.
- **Tube design:** Reduces water volume and enables the system to respond quickly and efficiently.
- **Manifolds:** 1-inch manifolds with plastic adapters pressed fit into SCH 80 PVC pipe to the width of the bench.
- **Ridged plastic spacers:** Spaced every inch to hold tube in place. Spacers can be cut to bench width of up to 8 feet wide.

Heat₂O Hydronic Heating System

The Hydronic Heating System is a rubber tube system using 135°F water temperature, and will consist of the following components:

- Piping
- EPDM tubing
- Power wire
- Bench heating material
- Air & water controls
- Manifold
- System pump
- Spacers
- Electronic controller with built-in digital display
- Easy-to-follow instructions and drawings, drafted in-house
- Water treatment
- Compatible boiler or grower-supplied hot water heater (if less than 450 sq ft)



UNDERSTANDING AN ENVIRONMENTAL CONTROL SYSTEM

If you are still controlling your greenhouse environment with thermostats, or even manually, energy prices warrant that these days must come to a close. The initial cost of a thermostat is very low and fits into any budget. The increased cost to have a thermostat operating your greenhouse equipment however will astound you.

The control system you choose does not have to be an expensive and complicated computer system. There are many products on the market starting at under \$1,000 that will let you control your heating and cooling costs very well. The new digital controls will let you have separate day and night settings for both heating and cooling. You can utilize DIF in your plant growth program. You can even record high and low temperature readings for later recall. The payback for installing a digital environmental control is realized in as little as a couple of months depending on the size of your range.

How does a greenhouse computer control the greenhouse?

The word computer can be very intimidating. Actually, "a computer" really refers to a small microprocessor chip no larger than the width of your two fingers. What the microprocessor has allowed us to do, like virtually all industries that use control methods, is to monitor many sensors at one time, and make "intelligent" decisions on what to do, and when to do it.

What should the grower look for?

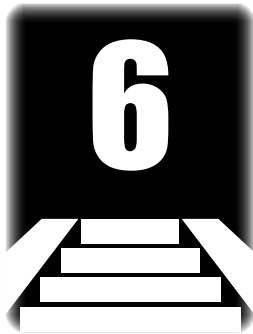
The grower should look for the features that they need, the reliability that is a must, and a price that they can afford. If a grower does not have the time and the manpower to devote to a large, complicated system, then a small system would be in order. The reality is that some companies will stress these major, all inclusive systems. The down side is, that all growers are not ready for

these. One does not need to spend tens of thousands of dollars to have reliable, efficient computer based control. If a grower is just converting over from a thermostat or a manual system, start slow. Do one range, try it out, then proceed. After all, environmental control is only one item that today's grower has to worry about.

How can the investment pay off?

The major payoff will be in energy savings. Simply overheating a greenhouse by a single degree can cost thousands of dollars in wasted energy. With some of the algorithms available, we can adjust temperatures based on solar gain, outdoor temperature, time of day, energy demand periods, etc. For instance, on a hot water system, why fire the boiler to a very high temperature on a fairly mild evening? Labor cost would come in at number two. Obviously having a reliable machine performing these tasks instead of a compensated employee is a plus.

Step



Environmental Controls, Simple to Sophisticated



iGrow 1800

Hi-Tech Control for the Sophisticated Grower.



**Factory Pre-built
Integrated Contactor
Panel with Built-in
Electrical Breaker Panel**

**Control Wiring Diagram
Included**

Maximum Yield – Minimum Effort

The iGrow 1800 offers remarkable flexibility and security, as well as a wide range of advanced features, back by unprecedented service and support. Discover the benefits of a system that combines sophisticated precision control with ease of use through a simple interface. With the iGrow 1800, you can increase productivity while reducing energy and operating costs. Optional PC software adds unlimited productivity while reducing energy and operating costs. Optional PC software adds unlimited history logging and remote Internet access.

Why iGrow 1800?

- Intuitive programming, Easy-to-use
- Powerful and simple with precise control
- Comprehensive list of controlled equipment
- EC/pH monitoring and control
- Available backup sensor for added peace of mind
- Password protection
- Proper control of vents, active and passive vent control
- Interactive communication protocol allowing networked controllers to communicate between zones
- Advanced pump control
- Toll-free technical support with Link4 remote login support available
- Low maintenance.

Basic Features

- 12 - 38 Programmable Outputs
- Expansion Capability
- Intelligent Integrated Sensor
- Override Switches

Advance Features

- 8 Daily Set Points with Drive to Average
- Fertigation Controls (EC & pH)
- Setpoint Influence Factors
- Flexible Conditional Controls
 - 128 steps
 - Extensive operands
 - Logical and comparative operations
 - Variables supported
- Daily Light Integral Lighting Mode
- Intelligent Irrigation (Accumulated Light and VPD)
- Programmable Equipment Start Delay
- Positive Greenhouse Pressure Control
- Advance User Differentiated Access Control
- Advance Control Software with Graphical Analysis Package

iGrow Cloud

Communication Options



Text & Email Alerts



iGrow Series



Real Time Monitoring & Management

Sensors and Set Points

SetPoint Day	Temp 75.7°F Cool 1	Humidity 43.1% Normal	Weather Out Temp: 76.0°F Light: 1206W/m² Wind: 12mph E Rain: YES
------------------------	---------------------------------	------------------------------------	---

Equipment Status

1 Fans ON	2 A/C ON	3 Heater Off Forced Off	4 Alarm Off
5 Vent 50% Forced to Position	7 Shade 99% Forced to Position		

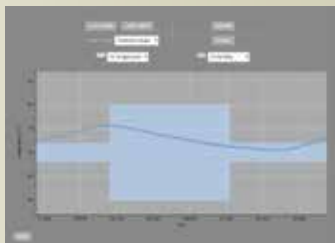
Controller Settings

SetPoints	Notification & Alarms
Equipment Options	History & Logs
Advanced Settings	Graphs

Internet



Data Logging & Graphing



Remote Access
Anywhere Internet
is Available



Phone

Tablet

Computer

WADSWORTH STEP UP CONTROLLERS

Step Up to Better Control

This control has three setpoint periods, DIF, Day and Night. These can be set based on solar activity so your day period starts at sunrise or you can set the periods to start at a specific clock time such as 8:00 a.m.

Step Up to Easy Operation

It is as simple as turning a knob and pressing the select/save button. There is a Help button if you ever want more information, but people are calling this the easiest to use control on the market.

Step Up to Timed Override

This is Wadsworth's first control to offer timed override. Simply push the button next to a stage and you're given the opportunity to set a specific time for that stage to be forced on or forced off.

Step Up to an Enhanced Display

A large LCD screen and oversized font displays current temperature, time, date, sunrise, sunset, set point, grow week, and the trigger temperature for each stage.



STEP UP FEATURES & BENEFITS

6 Stages

- 2 stages of heating
- 4 stages of cooling
- Easy to adjust the temperature between stages
- 2 incremental outputs modulate vents, or roll-up curtains
- Easy adjustment of temperatures between stages



3 Setpoint Periods

- Day/Night/DIF set points
- Ramping controls the rate of change between periods
- Periods can be set based on clock time or sunrise and sunset
- Tracks grow weeks

Modulating Output

- 0-10 volts or 4-20 milliamps controls heat valves or variable speed fans

Cycle Timer

Password Protected

Manual Override

- Timed override buttons on the STEP Up control allow equipment to be forced on or off for a specific duration
- Red LED lights indicate active stages
- Manual override toggle switches are on the contractor panel

Logs and Graphs Data

- Average, high and low temperature for each setpoint time period
- Average temperature in 15 minute increments
- Data is stored on the STEP Up for 7 days and can be viewed in logs or graphs
- STEPsaver Software connects your STEP Up to a PC for advanced data logging and graphing

Settings are Stored in Memory in the Event of Power Failure

Alarm Notification with Optional Alarm Manager

Help Button

- Provides additional information

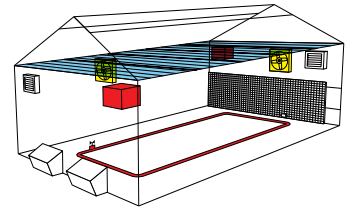
Ability to Return to Factory Settings

STEP Up Control Includes

- An aspirated temperature sensor and 100 ft. of cable
- Optional Relative Humidity sensor-connector cable to wire the STEP Up control to the contractor panel.

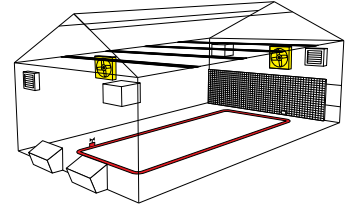
HT2

- HAF Fans ON
- Unit Heaters ON
- Under Bench Heat ON
- Curtain covers at night for heat retention



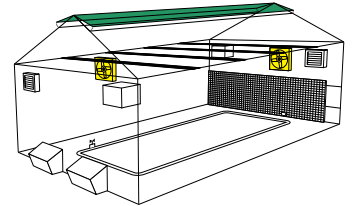
HT1

- HAF Fans ON
- Under Bench Heat ON



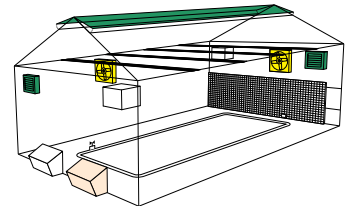
Set Point

- Ideal Temperature
- HAF Fans ON to circulate air
- Roof Vents modulate
- Shade Uncovered



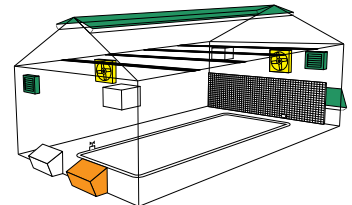
AC1

- HAF Fans ON
- Motorized Louvers OPEN
- 2-Speed Fan ON-low
- Roof Vents Modulate



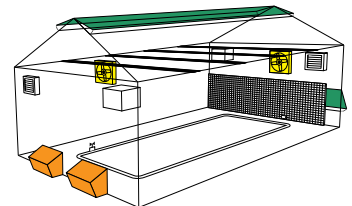
AC2

- HAF Fans ON
- Motorized Louvers OPEN
- 2-Speed Fan ON-high
- Roof Vents Modulate
- Pad Vent 1/4 Open



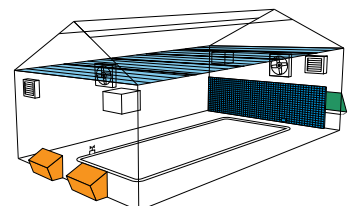
AC3

- HAF Fans OFF
- Motorized Louvers CLOSED
- 2-Speed Fan ON-high
- 1-Speed Fan ON
- Roof Vents Modulate
- Pad Vent 1/2 Open



AC4

- HAF Fans OFF
- Motorized Louvers CLOSED
- 2-Speed Fan ON-high
- 1-Speed Fan ON
- Roof Vents Closed
- Pad Vent Full Open
- Pad Pump ON
- Shade Covers



LINK 4 100 SERIES



Get real-time energy use and track run time on greenhouse heating and cooling equipment with this easy-to-use, entry-level advanced controller system. The iGrow 100 Series™ offers four (400 Model) or eight (800 Model) different outputs for fans, heaters, vents, shade curtains, and other equipment.

- See how much energy your greenhouse is using and adjust to save money.
- Discover which equipment uses the most energy
- Estimate your ROI
- Easily transfer data to your PC for analysis
- Fine-tune your growing environment to maximize crop yields

Peace of Mind

Get remote access instantly! Whether you're 50 yards or 500 miles away, you can easily get instant access to your monitoring system via computer or cell phone. If conditions change in your greenhouses when you're away, you can make immediate adjustments and corrections from any distance.

Increase Profit

Track your energy usage and adjust to increase your profit. The iGrow 100 Series™ line of controllers help you keep track of how much energy you're using – and how much money you're spending – on individual pieces of equipment. This advanced, built-in, set of data tracking software gives you the information you need to adjust

energy use and increase crop growth. Tools such as iControl 100™ expand the capabilities of this versatile line of controllers to further save energy and increase your profit.

Reduce Labor Costs

No more programming and reprogramming every crop cycle or season change – with the iGrow 100 Series™ USB data logging feature you can easily save settings to any USB flash drive. When the time comes to switch settings, simply insert your USB flash drive into your iGrow 100 Series™ Controller and load your previously stored data. These are some of the new and innovative ways Link4 has provided to reduce setup times and reduce your labor costs!

WADSWORTH VERSATILE VENT CONTROLLER



Excellent for Controlling Greenhouses with Roof Vents



The Versatile Vent Controller includes an aspirated temperature sensor (shown). It will open your roof vent in three increments: 25%, 50% and 100%.

The Versatile Vent Complete Package is a lead vent control; it can signal up to six 2R-Series Follower Controls. The 2R will follow the lead control. The price is \$829.

Includes:

- Aspirated temperature sensor
- 100 ft. of cable

Features

- Manual override toggle switches allow for manual operation
- Includes a transformer and relays
- When ordered with a temperature sensor, the unit displays temperature, vents position, and has an alarm output

ADVANCING ALTERNATIVES AEGIS CONTROLLERS

AEGIS Tec Touchscreen Controller

Features

- User-friendly touchscreen interface
- Single growing zone design
- Easy set-up for various heating and cooling schemes
- Simple to program set points, vent drive run times, and sensor reading intervals
- Provides power for up to three 24VDC vent motors
- Controls motors, fans, heaters, HAF's, CO2 generators, dehumidifiers, etc.
- Wind, rain, and humidity sensor and override options
- DIF growing and light deprivation ready
- Independent manual override
- Resettable circuit breaker for motor protection
- Includes temperature sensor with 100 ft. of cable (150 ft. cable option available)
- Solar power option

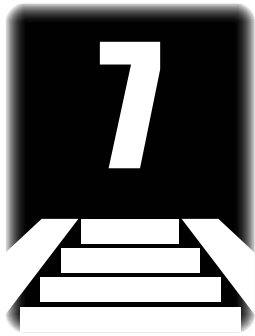


AEGIS Tec Plus Touchscreen Controller

Features

- User-friendly touchscreen interface
- Single or dual growing zone design
- Easy set-up for various heating and cooling schemes
- Simple to program set points, vent drive run times, and sensor reading intervals
- All-in-one design provides power for up to four 24VDC vent motors
- Controls motors, fans, heaters, HAF's, CO2 generators, dehumidifiers, etc.
- Wind, rain, and humidity sensor options
- DIF growing and light deprivation ready
- Independent manual override
- Resettable circuit breaker for motor protection
- Expandable to multiple system configuration schemes
- Includes temperature sensor with 100 ft. of cable (150 ft. cable option available)
- Solar power option

Step



Other Systems



Carbon dioxide is one of the essential ingredients in green plant growth, and is a primary environmental factor in greenhouses. CO₂ enrichment at 2, 3 or 4 times natural concentration will cause plants to grow faster and improve plant quality.

Modern growers are becoming increasingly aware of the value of CO₂. Particularly now that most greenhouses are purposely shutting out CO₂ to conserve energy.

The Johnson CO₂ Generator automatically provides the carbon dioxide to meet maximum growing potentials – and operates for only pennies a day. The Johnson Generator can easily be installed in any greenhouse. No expensive duct work is necessary and CO₂ is diffused evenly without supplemental fans.

Join with modern growers everywhere – use Johnson CO₂ generators – the low cost way to produce CO₂ – the nutrient of the new millennium.

Why you get more rapid and efficient growth and better plant quality with Johnson CO₂

Plants must absorb carbon dioxide (CO₂) in combination with water, soil nutrients and sunlight to produce the sugars vital for growth.

A shortage of any of these requirements will retard the growing process. Normally there are approximately 300 parts per million of CO₂ in the atmosphere; when this level is increased to over 1,000 ppm, results are higher production and better plant quality. The Johnson Generator provides up to 1,500 ppm per unit in an average 24 ft. x 200 ft. greenhouse or an equivalent 50,000 cu. ft. volume based on one air change per hour.

Nighttime levels in a greenhouse range from 400 to 500 ppm due to plant respiration. Shortly after sunrise this level will drop to normal atmosphere (300 ppm) due to the plant using the early light to start photosynthesis. After 3 to 4 hours of early morning sunlight the CO₂ level can drop to around 100 to 150 ppm, then growth is practically stopped. Supplemental CO₂ added during this period can substantially increase your plant and flower production. By adding CO₂, during winter months when greenhouse ventilators are closed and when low CO₂ concentration becomes a limiting factor in growth, users are obtaining yield and bloom quality which is normally associated with spring and summer.



CO₂ More Important Than Ever

The Johnson CO₂ Generator is more important than ever because greenhouse growers, trying to conserve energy, are shutting out CO₂. Rising energy costs have forced many growers to conserve energy – as a result much less CO₂ is entering the greenhouse.

How to use the Johnson CO₂ Generator

When there is sunlight and the vents are closed, CO₂ should be added continuously to your greenhouse. If the vents are opened because of heat build up the generator should continue to operate for about 2 hours and then be shut off.

Approximately 1 lb. of CO₂ per hour per 1,000 sq. ft. yields 1,000 ppm's of CO₂. A 4,000 sq. ft. house requires at least 4 lbs. of CO₂ per hour. If CO₂ level drops off from 1,000 ppm's to 500 ppm's on a clear sunny day, you can easily adjust to a higher burning rate to make up for the more rapid absorption of CO₂ by plants. Most growers use their Johnson Generator daily in winter from approximately 7:30 a.m. to 4:30 p.m.

Easy and inexpensive to install

You can install the Johnson CO₂ Generator easily in any greenhouse. In fact, most growers do it themselves.

Automatic...fully adjustable

Completely automatic, the Johnson unit comes complete with a gas pressure gauge. Simply set the gauge to the gas pressure desired for your greenhouse area and the Johnson Generator will automatically provide the correct amount of CO₂. Just as you adjust the amount of water and fertilizer to meet the changing needs of your plants, you also set the Johnson Generator to produce the desired amount of CO₂ for your greenhouse. The Johnson unit includes a 24V gas valve. This can be activated by a timer or a combination timer thermostat, which automatically turns the unit on in the morning and off in the evening as desired (optional).

Safe...requires no floor space...rugged construction

In case of flame failure, gas supply shuts off automatically and the Johnson unit saves you valuable floor space. It hangs from the rafters...completely out of the way. It's only 18 in. in diameter and 20 in. high, it weighs 21 lbs., and is easy to move. The Johnson generator is constructed of special heavy gauge aluminized steel for maximum corrosion resistance and long life.

Specifications	
Maximum area fertilized per unit*	4,800 Sq. Ft.
Cubic feet/hr. CO ₂ at 60° temperature*	72
Pounds CO ₂ /hr.*	8.25
Burner Range BTU/hr.*	20,000-60,000

*Based on adding 1,500 ppm CO₂ to a greenhouse with one air change per hour CO₂ production slightly less when burning natural gas.

Item #	Description	Price
JGEA040022	LP gas CO ₂ Generator	\$2,251
JGEA040001	Nat. gas CO ₂ Generator	2,251
JG050500003	Transformer 115V/24V 40VA	89
JGSA0200034	Control Package (Optional)	824

SOLAR POWER FOR YOUR HIGH TUNNEL OR MOVEABLE GREENHOUSE

Solar Powered Climate Controller Kits



Turn the same energy that warms your greenhouse into the energy that cools it. Harness the sun's rays to power your roll-up sides or roof vent with low voltage motors (LVM). For greenhouses that have no access to conventional electricity or for those wanting the highest level of energy efficiency.

Features:

The SVK2 or SVK4 Solar Kits combine all that you will need to power your low voltage ventilation drives.

- Control up to 4 (SVK-Solar) LVMs and 2 individual dry contact devices per system.
- Quick and easy programming. LED status and temp display. Programming held in power disruption.
- Includes Solar Panel/12V Battery/Climate Controller/Charge Controller/Wiring.
- Manual override open/closed.
- Variable staged opening/closing.
- Interfaces via solar charger controller to 12 volt source.
- Can also include powering gable shutter motors.
- Proven to work in northern climates with low solar periods during winter months.
- Solar powered inflation blowers also available to use with this system.



SVK2-Solar Model

Motors Controlled	2/24VDC
Climate Control	SVC2
Battery	12VDC
Solar Panel	140W
Voltage Input	12DC
Voltage Output	24DC
Sensor	Temp
Sensor Option/Add	Humidity
Sensor Wire	100'
Power Wire	60'/#14/2
Charge Controller	Morningstar Prostar15

SVK4-Solar Model

Motors Controlled	4/24VDC
Climate Control	SVC2
Battery	12VDC
Solar Panel	140W
Voltage Input	12DC
Voltage Output	24DC
Sensor	Temp
Sensor Option/Add	Humidity
Sensor Wire	100'
Power Wire	60'/#14/2
Charge Controller	Morningstar Prostar15

Please call us for a quote.

DONATED GREENHOUSES

Paying it forward



University of Vermont



University of New Hampshire



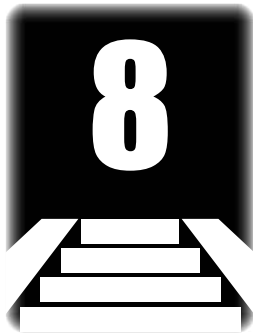
West Virginia University



New Horizons Food Bank

Every year, Rimol Greenhouse Systems donates greenhouses to several institutions around the country. We believe in giving back to support our industry and the leaders that are pioneers in teaching, research, and helping others in need of assistance.

Step



Benching



GREENHOUSE BENCHES

Greenhouse benches come in a wide variety of materials and styles. Your decision will be influenced by their purpose and your budget. If you are using the space for just growing, you can add rolling benches and gain more greenhouse space. This will cost less than adding a new greenhouse and lower your per square foot operating costs. If you are retailing, you may be after a certain type of "look" to enhance your operation.

Bench layout is important. By utilizing peninsula style benches (*see below*), you actually have more bench space compared to long benches with long aisles. Peninsula benching is also very useful in retail

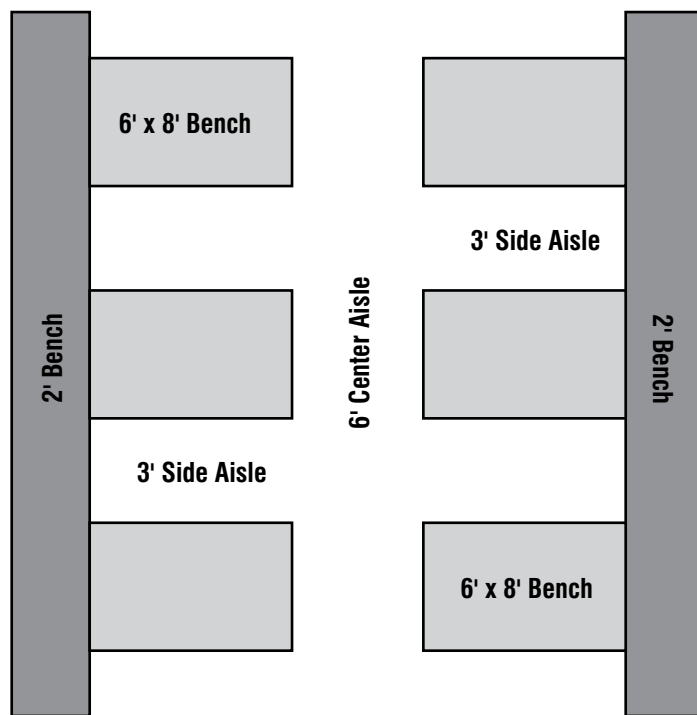


for traffic flow and the movement of carts in and out of the greenhouse.

At Rimol Greenhouse Systems, we can provide you with a bench layout with the different types of

benches available. We can provide you with our own prefabricated benches, just the bench tops for the construction of your own benches, or other types of prefabricated benches. Just call us and we can help!

Expanded metal sheets are just one type of material which can be used for a bench top.



The 6 ft. x 8 ft. benches are shown in a "peninsula" layout
 Typical 26 ft. Wide Greenhouse Bench Layout
Excellent for Retail!

AT RGS, WE PAY ATTENTION TO THE DETAILS WITH OUR BENCHES

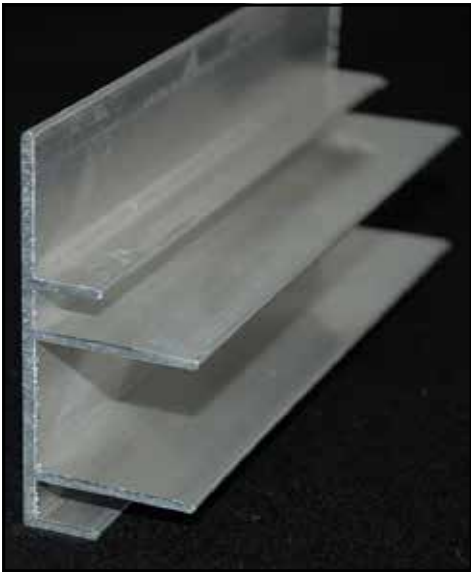


Types of Benches Available

- Free-standing (with feet on the legs)
- Stationary
- Rolling

Features

- Made of strong galvanized steel with easy to assemble bench clamps
- All corners have protectors to prevent clothes from ripping
- Anti-tip device on rolling benches
- High quality feet on free-standing benches (adjustable feet also available as an option)
- Bench frame is adjustable for heat pipes if necessary
- We can make virtually any custom bench. Just tell us what you want, and we will come up with a solution for you!



Our "F-Bar" can be upside down or right side up for a perimeter with a lip or without a lip.

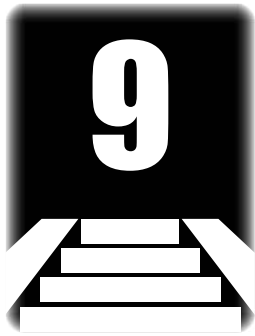


Corner protectors prevent customers and employees from catching their clothes on sharp corner edges.



Rolling benches maximize your growing space. The legs are 30" high, but if you need taller or shorter benches, we can do this for you.

Step



Construction: Build Your Greenhouse





RIMOL GREENHOUSE SYSTEMS ADVICE: How To OBTAIN A BUILDING PERMIT

Steps

1. Draw a plan of the greenhouse that includes the location on the property with dimensions of the greenhouse and the distances from property lines of the location of the greenhouse. Bring an instruction manual that shows how the greenhouse is assembled and a brochure or photo of what the greenhouse will look like.
2. Depending on what state you are located within, you will visit either your local government or county government. Bring a notepad with you.
3. The building department may require one or more of the following before issuing a building permit:
 - Zoning approval
 - Site plan approval
 - Variances from abutting neighbors if the greenhouse encroaches past required setbacks
 - Stamped engineering plans – these are a set of stamped plans certifying the greenhouse for snow and wind loads according to the requirements of the International Building Code. If these are required, you must get these requirements from the building department.
- Electrical Plans showing equipment location, power requirements and operations manuals on the equipment.
- Plumbing diagram
- Architectural drawings of the complete project
- Flame rating information for certain components within the greenhouse such as polycarbonate or shade curtains
- Structural calculations or reaction information for the sealed plans
4. Complete all applications and keep copies of everything
5. Submit all applications and all necessary items as required, and ask for a timeline of when to expect an approval.

Tips

1. You should file your application significantly in advance of your scheduled starting date. This can be a long process taking months to complete. Sometimes, it even takes a year or longer to complete.
2. Some municipalities hire outside firms to review "unconventional" building permit applications. These outside firms will pick apart every aspect of a building permit application. Be prepared as much as possible and get all requests in writing from them if the application is denied.
3. With larger projects, you may want to consider hiring an engineering firm, lawyer or Permit-Package Preparation Company. Although these firms cost a great deal of money, they will save you a great deal of money and aggravation in the long run.
4. And lastly, no matter how much aggravation and frustration you have when dealing with your building department, keep your cool, remain calm and try to be rational with the with explanations or questions.

Do you need instruction manuals to review so that you feel comfortable with construction?

**Go to: www.rimol.com
and visit our construction page!**

PLAN VIEW

SHORT END VIEW

SQUARE FOOTAGE IS 4032

SQUARE TUBING PROPERTIES	
1- 1/2" SQ. X 16 GA.	45,000 PSI YIELD / 45,000 PSI TENSILE
2" SQ. X 15 GA.	50,000 PSI YIELD / 55,000 PSI TENSILE
4" SQ. X 13 GA.	A500 GRADE B STEEL 46,000 PSI YIELD
ALL WEB CONNECTORS	6005 ALUM. ALLOY 1/8" WALL THICKNESS
3/8" TYP. THREADED ROD	7000 LB. BREAK STRENGTH

LIVE LOAD 14 LBS
DEAD LOAD 5 LBS
GROUND SNOW LOAD 70 LBS

SNOW LOAD IMPORTANCE FACTOR L0
WIND LOAD 90 MPH EXPOSURE C
WIND LOAD IMPORTANCE FACTOR L0

DETAIL

DRAWING NAME: 48' X 72' WATERHORN GREENHOUSE

LONGACRES GARDEN CENTER 220 MECHANIC STREET LEBANON, NH 03766	APPROVED: _____ DATE: _____	PREPARED BY: _____ CHECKED BY: _____ DATE: _____
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RIMOL
Greenhouse Systems, Inc.
RIMOL GREENHOUSE SYSTEMS
40 LONGACRE BERRY DRIVE
LEBANON, NH

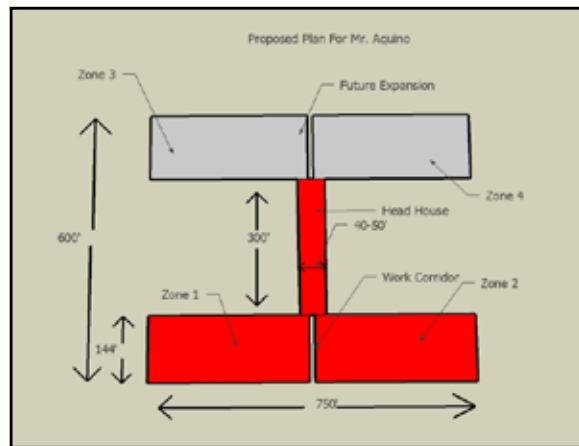
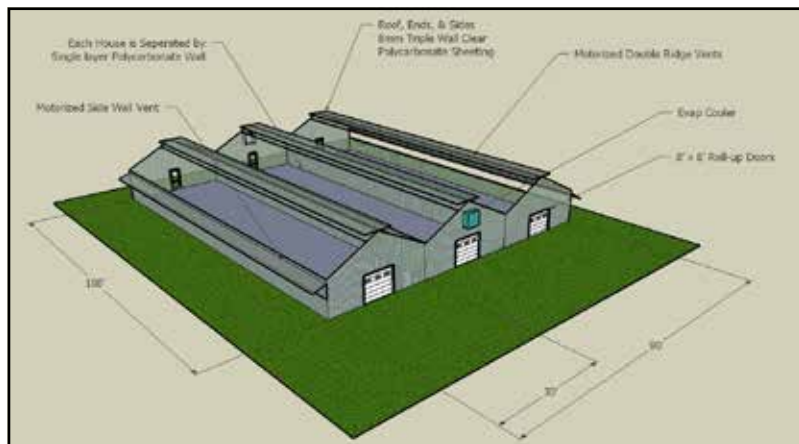
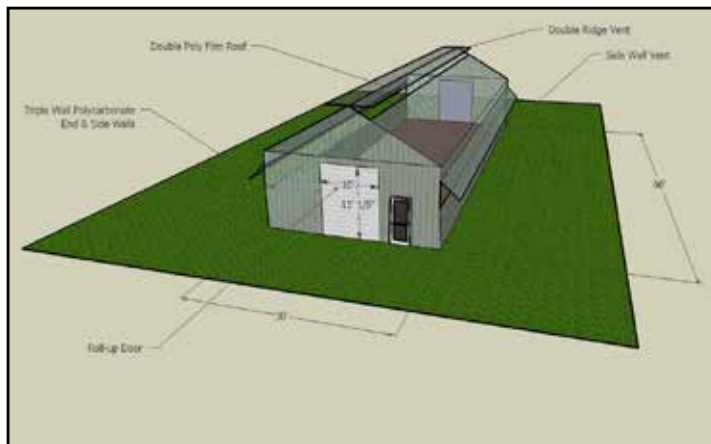
This is an example of stamped engineering plans that a building department may need to issue you a permit for construction.

Watch our videos for more help!



FROM CONCEPT TO DESIGN

These are examples of some concept drawings. Let RGS work with you to design your next greenhouse project. Our knowledge and experience will bring you excellent service and great results!



Step

10

Order Your Greenhouse



Osborne Agway | Belmont, NH

TERMS AND CONDITIONS

Shipping Information

We ship your orders by the most common shipping methods: via Motor Freight, UPS, and Air Freight.

We reserve the right to select the most reliable carriers from our warehouse; if you require special shipping instructions, please contact RGS. We normally ship by the most economical way, unless otherwise instructed.

Motor Freight Shipments

The original Bill of Lading attached to our invoice indicated that material shipped has now become your property and is an acknowledgement by the transportation company of the receipt of the property in good condition. Safe delivery of this shipment is now the responsibility of the carrier. Please examine your shipment carefully before signing the freight bill. We will be glad to assist in tracing or recovery of lost merchandise.

Motor Freight – Damage or Shortage

If any damage is noted, or if the number of pieces received does not agree with the number on the Bill of Lading, DO NOT accept the shipment without shortage or damage noted on your freight bill and signed by the carrier's agent (*driver*). Failure to do so may jeopardize your recovery. If any concealed damage or shortage is discovered when unpacking, leave the material and the packing as is and notify the carrier for concealed damage or shortage inspection. Consult the carrier for necessary claim papers and disposition of damaged articles. When checking shipments, compare what was received with packing list or invoice. If there is a shortage due to our counting, YOU MUST CONTACT US WITHIN 5 DAYS and provide us with the details. Take photos of any damaged parts and e-mail them to RGS.

Claims with motor freight companies must be made promptly. The freight company will not consider a claim unless presented within nine days from date of shipment. Claims for loss or damaged material and transportation charges, therefore, MUST NOT be

deducted from the invoice, nor payment of invoices withheld awaiting adjustment of such claims, since it is the function of the carrier to guarantee safe delivery.

United Parcel Service

We generally recommend UPS deliveries as the best method for shipping, providing certain requirements can be met. We cannot ship all materials via UPS. There is a maximum weight per package of 150 pounds, a maximum size length of 108 in. and a maximum size of 130 in. in length and girth combined. All UPS shipments require a signature, a street address, and a zip code. Please, do not ask us to ship UPS unless these requirements are met.

UPS-Damaged Shipments

If you see that a shipment is damaged upon receipt from UPS, refuse shipment. UPS will return the shipment to us, and we will file the claim and send a new shipment to you. If after opening the package you find concealed damage, call us at once. We will instruct UPS to pick up the package and return it to us for a claim. We will reship your order.

Payments

Payments made with VISA or MasterCard are requested to be a minimum order of \$50 and payment must be made at time of purchase.

Offerings

Offerings listed are made subject to being available. We will not be held responsible for delays in shipment caused by conditions beyond our control. Applicable substitutes will be made when necessary.

Terms

Terms are 2% 10 days, Net 30 days unless otherwise stated. A 1½% per month service charge is added on all overdue accounts. This is an 18% annual charge. Terms are COD where credit has not been established. Returned checks will be assessed a \$20 fee.

TERMS AND CONDITIONS

Minimum Order

On orders shipped under \$25, we will add a \$5 small order upcharge in addition to shipping or delivery charges.

Returns

No merchandise may be returned without authorization from our office. Merchandise must be returned within 60 days of purchase. Invoice number and date of purchase is required for any/all returns. A restocking charge of 20% is charged on all returns unless merchandise is defective. **ITEMS THAT ARE SPECIAL ORDERED, MADE TO CUSTOMER SPECIFICATIONS, NON-INVENTORY OR NON-STOCK ITEMS, CANNOT BE RETURNED FOR ANY CREDIT DUE TO THEIR SPECIAL NATURE.**

Sales Tax

Appropriate state tax will be charged on all items unless we have your tax exempt number. In compliance with the law, we must charge the tax on all items which the state designates as taxable even though you have provided us with your sales tax number.

Recommendations

We are not responsible for damage or failure due to recommendations provided by Rimol Greenhouse Systems or our vendors.

Notice to the Purchaser

The following is made in lieu of all warranties expressed or implied. Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith. The foregoing may not be changed except by an agreement signed by the officers of seller and manufacturer.

Directions

From I-93 North, take Exit 7 which puts you onto Route 101 heading East. Drive 2 miles and take Exit 1. At the bottom of the ramp, turn left onto Route 28 By-pass heading North. Drive 3/4 of a mile and turn left into Northpoint Industrial Community.



40 Londonderry Turnpike, Hooksett, NH 03106

www.rimol.com

APPLICATION FOR CREDIT

Company Name _____ Date _____
Address _____ Telephone _____
City _____ State _____ Zip _____ E-mail _____
Contact _____ Length of time in business _____
Type of Organization Corporation Partnership Individual

Officers and/or Owners

Name & Address	Title	Social Security Number
_____	_____	_____
_____	_____	_____
_____	_____	_____

Person to contact for payment _____

Banks

Name _____ Contact _____
Address _____ Telephone _____
City _____ State _____ Zip _____ Account Number _____

Name _____ Contact _____
Address _____ Telephone _____
City _____ State _____ Zip _____ Account Number _____

Trade References *(Please list three trade references in the agricultural industry)*

Company Name _____ Contact _____
Address _____ Telephone _____
City _____ State _____ Zip _____ Fax _____

Company Name _____ Contact _____
Address _____ Telephone _____
City _____ State _____ Zip _____ Fax _____

Company Name _____ Contact _____
Address _____ Telephone _____
City _____ State _____ Zip _____ Fax _____

The above information is provided for the purpose of extending credit to our company on payment terms of net 30. To the best of our knowledge and belief, the information is accurate and may be relied upon in making a credit decision. We authorize our bank and suppliers to furnish you any information necessary to complete your evaluation of our credit history.

Authorized Signature: _____ Title: _____ Date: _____



Old Saybrook Agway | Old Saybrook, CT



Elkstone Farm | Steamboat Springs, CO



Rimol Greenhouse Systems, Inc.
40 Londonderry Turnpike
Hooksett, NH 03106

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