

**CONNECTICUT
GREENHOUSE
COMPANY**

DESIGN // BUILD // GROW



CONNECTICUT GREENHOUSE COMPANY, LLC 2020 CATALOG

**Greenhouse and High Tunnel Frames, Kits, and Parts
Grower supplies**

www.ctgreenhouse.com
(203) 654-1595

About Us

Connecticut Greenhouse Company is a full-service greenhouse and high-tunnel design, manufacture, and construction company. We are also growers, and our approach and our designs are informed by years of experience with four-season production in New England.

We sell our NRCS-compliant high tunnel frames throughout the Northeast, and we provide construction services in Southern New England. Our crew is also available to perform maintenance, repairs, and upgrades on preexisting structures. We offer consulting and technical support nationwide. We are committed to providing transparent and fair pricing, and we provide greenhouse and other growing supplies at competitive prices.

Call us today to get started on your next project!

- Toby Fischer and Aaron Taylor
Owners and Co-Founders



WHAT WE OFFER

NRCS High Tunnel Frames

- Designed by growers and manufactured in Connecticut;
- NRCS compliant design;
- Gothic tunnel available in any width from 8' to 30';
- Comes standard with a truss every hoop, roll up sides, metal end-walls, and ventilation systems;
- 10-year roll up sides, metal baseboards, trellis pipe and wires, and other popular add-ons available;
- Engineered plans available;
- Further customization available on request.

Greenhouses

- Propagation greenhouses available in any width from 8' to 30';
- Comes standard with an inflated double layer of 6 mil 4-year poly, roll up sides, metal end walls and automated ventilation systems;
- Twin-wall rigid polycarbonate covering available;
- Custom benches and pipe supports for hanging baskets available;
- Ultra-efficient propane and natural gas heaters;
- Engineered plans available;
- Full customization available.

Homeowner and Starter Greenhouses

- 12' or 14' greenhouse frames are perfect for an ambitious home gardener or for farms just getting started;
- Fully customizable with heating and cooling, roll up sides for ventilation;
- Custom built steel greenhouse benches available;
- Engineered plans available;
- Can be fully outfitted with all the supplies you need to start growing today!

Construction Services

- Full service construction of Connecticut Greenhouse Company frames;
- Upgrades and retrofits to preexisting tunnels, including:
- New plastic coverings,
- Double layer inflated poly,
- Rebuilding and enhancing end-walls and doors,
- Adding roll up sides.
- Available throughout Connecticut and parts of Massachusetts and Rhode Island.

Greenhouse & Growing Supplies

- Greenhouse components
- Galvanized tubing
- Greenhouse benches
- Shade cloth
- Seedling trays and pots
- Soils
- Irrigation supplies
- Fans and Heaters

Project Management and Whole-Farm Consulting

- Assistance navigating NRCS Grant application process;
- Project management and design from start to finish;
- Consulting on jobs of all sizes;
- Site and technology consultations;
- Our team of experienced growers can provide season extension planning and other whole-farm consulting services as needed.

WHAT'S IN A CGC KIT?

Four purlins and a ridge pole made of industry-leading 16 gauge 1 $\frac{3}{8}$ " galvanized steel tube, secured with the strongest and fastest-to-install system on the market

6 mil 4-year plastic covering, available in double inflated layer

Truss system on every bow, providing strength to withstand New England snow loads

Industry leading grade 5 bolts
Aluminum double wirelock hip boards
Stainless steel wiggle wire and tek screws

Steel framed endwalls with optional twin-wall polycarbonate covering;
Custom built sliding or hinged doors, fit to your needs

Bows at 4' spacing made of 13 gauge 2" galvanized steel tube

Steel and polycarbonate baseboard system, made of two runs of galvanized 1.5" x 1.5" square tube with twin-wall polycarbonate to the ground, providing longer life, greater strength, and lower maintenance costs than traditional wooden baseboards

Bug exclusion netting on side walls and 10-year roll up, adding extra life and reducing future maintenance costs

HIGH TUNNELS

NRCS Compliant Designs

We build high tunnel frames in any size from 8' to 30' wide and any length in multiples of four feet. Our tunnels are designed for the harsh weather conditions of New England and engineered plans are available. Every high tunnel we sell is a custom package, but samples with basic pricing are provided below. Give us a call today to get your quote started!

Prices below are for 30' wide x 96' long high tunnel kits and do not include labor for construction. Prices subject to change without notice.

Grower 3096

\$9,533.00

- 5:1 gear crank for roll up side
- Wind exclusion panels
- Corner wind braces
- Steel framed end walls with soft plastic covering
- Single layer of 6 mil 4-year plastic covering
- Supply your own doors and baseboard

Grower Plus 3096

\$13,359

- 5:1 gear crank for roll up side
- Wind exclusion panels
- Corner wind braces
- Steel framed end walls with twin-wall polycarbonate covering
- Double layer of 6 mil 4-year plastic covering with inflation blower
- End wall peak vents with manual operator
- 4' x 7' double doors on each end
- Bug exclusion netting on side walls and vents
- Supply your own baseboard

Grower Pro 3096

\$16,386

- 5:1 gear crank for roll up side
- Wind exclusion panels
- Corner wind braces
- Steel framed end walls with twin-wall polycarbonate covering
- Double layer of 6 mil 4-year plastic covering with inflation blower
- End wall peak vents with automatic operator
- 4' x 8' sliding doors on each end
- Bug exclusion netting on side walls and vents
- Steel and polycarbonate baseboard system
- Trellis cables and trellis support pipe
- 10 year woven roll up sides

GREENHOUSES

Our high tunnel frames of any size can be enhanced to provide the perfect climate controlled growing or propagation house for your operation. Every greenhouse kit comes with an inflated double layer of 6 mil 4-year greenhouse poly, circulation fans, exhaust fans, and end wall vents. Finish off your project with our custom greenhouse benches, and get ready to start growing in style!

Every kit we sell is a custom package, but samples with basic pricing are provided below. Prices listed are for 30' wide x 96' long greenhouse kits and do not include labor for construction. Benches, heaters, and automation are not included in pricing. Prices subject to change.

Grower GH3096

\$10,154

- 5:1 gear crank for roll up side
- Wind exclusion panels
- Corner wind braces
- Steel framed end walls with soft plastic covering
- Double layer of 6 mil 4-year plastic covering with inflation blower
- Supply your own doors and baseboard

Grower Plus GH3096

\$15,278

- 5:1 gear crank for roll up side
- Wind exclusion panels
- Corner wind braces
- Steel framed end walls with twin-wall polycarbonate covering
- Double layer of 6 mil 4-year plastic covering with inflation blower
- 4' x 7' double doors on each end
- Bug exclusion netting on side walls and vents
- Two shutter vents with automatic openers on one end, two exhaust fans with automatic openers opposite, four thermostats
- Four 20" circulator fans
- Four hanging basket pipes running the length of house
- Supply your own baseboard

Grower Pro GH3096

\$17,748

- 5:1 gear crank for roll up side
- Wind exclusion panels
- Corner wind braces
- Steel framed end walls with twin-wall polycarbonate covering
- Double layer of 6 mil 4-year plastic covering with inflation blower
- 4' x 8' sliding doors on each end
- Bug exclusion netting on side walls and vents
- Two shutter vents with automatic openers on one end, two exhaust fans with automatic openers opposite, four thermostats
- Four 20" circulator fans
- Four hanging basket pipes running the length of house
- Steel and polycarbonate baseboard system
- 10 year woven roll up sides

HOMEOWNER / STARTER GREENHOUSES

Our 12', 14', and 16' wide greenhouses are perfect for backyards and sites with space limitations or as starter greenhouses to get you up and running quickly.

Our smaller greenhouses are made with the same professional quality materials and craftsmanship as our larger structures. While comparable structures from other manufacturers use smaller diameter tubing with less strength, all our bows are made of 2", 13 gauge tubing regardless of tunnel size. Our trusses and cross bracing are always made of industry-leading 1½", 16 gauge tubing.

Example pricing for a 14' wide x 20' long tunnel is below, with the same options as the 30' x 96' greenhouses on the facing page (fans and vents resized as appropriate):

Grower GH1420	\$3,968
Grower Plus GH1420	\$7,004
Grower Pro GH1420	\$7,463



GREENHOUSE BENCHES

Custom Built Greenhouse Benches

Heavy-duty galvanized square tubing frame with reinforced smooth corners, stainless steel fasteners and A-V plastic bench tops (below) make this bench exceptionally durable. Plastic bench tops prevent the growth of mold and fungus and outlast most other types of benches. Custom sizes and installation available upon request.



4' x 8' Custom built greenhouse bench	\$350
4' x 10' Custom built greenhouse bench	\$444
4' x 12' Custom built greenhouse bench	\$501
4' x 14' Custom built greenhouse bench	\$557
4' x 16' Custom built greenhouse bench	\$614
4' x 18' Custom built greenhouse bench	\$708
4' x 20' Custom built greenhouse bench	\$765

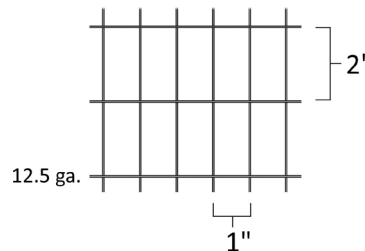
Bench Components

Build your own heavy-duty benches using these parts and plastic bench tops or galvanized wire mesh.

1.5" x 24' Sq Galvanized Tubing, 16 Ga.	\$34.36
Metal Angle to fasten center support	\$0.65
Galvanized Corner Bracket, to add strength and smooth the corner	\$5.50
1" x 12" Aluminum Brace, use 2 per leg	\$2.70
#12 x 1" 410SS Pan Head Tek Screw to fasten corner and angle brackets	\$17.50 100/Pk
#14 x 1-1/2" 410SS Flat Head Tek Screw to fasten plastic bench tops	\$18.00 50/Pk



4' x 100' Galvanized Wire Mesh	\$350.00
6' x 100' Galvanized Wire Mesh	\$500.00



Plastic Bench Tops from A-V International

- Polypropylene, UV protected
- Durable and lightweight, no sagging
- Can withstand extremely cold and hot temperatures
- Installs on any type of frame with screws or pop rivets
- Frame every 2 feet for flats, or pots less than 3 gallon.
- Easy interlocking assembly
- Flats, plug trays, and pots slide easily over surface

24" x 48" Plastic Bench Tops	\$14.72
18" x 36" Plastic Bench Tops	\$11.00

SHADE CLOTH

Protect your crops from overheating in the summer with shade cloth. Crucial for successful propagation of fall and winter crops in the greenhouse during the summer months, and also for protecting tomatoes and other fruiting crops in the high tunnel from blossom drop and sunscald during the hottest weeks. Available in many shade percentages and custom fit to your structure.

DeWitt Custom Woven Shade Cloth

Custom order. Allow two weeks for delivery. This woven shade cloth is made from 100% polypropylene monofilament strands. UV stabilized, outlasts knitted shade cloth. DeWitt's sewing team can customize panels to any size. They use #4 brass grommets and 2-3/4" reinforcement tape, along the edges, which are double stitched for extra holding power.

Available Shade Percentages:
30%, 47%, 55%, 63%, 73%, &
80%.

Standard widths are 6, 10', & 12' and any of these can be seamed together and even cut to make your width. Call for pricing.



Black Knitted Shade Cloth

100% UV stabilized polyethylene with a lock stitch construction that keeps edges from unraveling. The material can be cut to exact size on site with household scissors.

Available shade percentages:
30%, 40%, 50%, 60%, 70%,
80%, 90%.

Custom sizes and other shade percentages are also available. Allow two weeks for delivery. Call for pricing.



GREENHOUSE COMPONENTS

Tufflite® Greenhouse Plastic

Manufactured by Berry Plastics, Tufflite™ products offer high clarity to allow the most light possible. They also feature tri-layer extrusion and dust resistance. Call for sizes not listed.

Tufflite IV™ is a high clarity, 4-year, 6 mil, high-quality greenhouse covering.

14' x 100'	\$119.00
20' x 100'	\$170.00
24' x 100'	\$204.00
28' x 100'	\$238.00
32' x 100'	\$272.00
36' x 110'	\$337.00
40' x 100'	\$340.00
42' x 100'	\$357.00
48' x 100'	\$408.00
50' x 100'	\$425.00
56' x 100'	\$476.00

Tufflite Infrared™ is a 4-year, 6 mil, energy saving greenhouse covering. Features Drip-Less™ technology, along with an additive that retains infrared waves, which improves nighttime heat retention. Also is light diffusing – reduces shadows. Use for the bottom layer in double layer installations.

24' x 100'	\$243.00
28' x 100'	\$283.00
32' x 100'	\$324.00
36' x 110'	\$400.00
40' x 100'	\$404.00
42' x 100'	\$425.00
48' x 100'	\$485.00
50' x 100'	\$505.00
56' x 100'	\$566.00

Inflation Blowers

For inflating double layered film on greenhouses. 120Vac. Pre-wired with 8 ft cord.



3 Bolt Blower, 60 CFM, 0.15A (18 W)	\$58.00
3 Bolt Blower Mounting Kit	\$18.00
4 Bolt Blower, 148 CFM, 0.5A (60 W)	\$70.00
4 Bolt Blower Mounting Kit	\$18.00

WireLock Poly Fastener

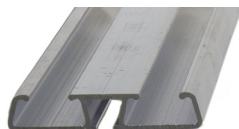
Poly fastener system that also works with shade cloth, insect and bird netting, etc. ZigZag wires lock the material in the WireLock channel. (ZigZag wire sold separately, see below). Can be used to splice poly. Can be formed to the top of curved bows. Holds up to 4 layers poly and 2 layers ZigZag wire.



12' Aluminum Single WireLock	\$8.55
Price per stick on 20+	\$7.88

Double WireLock

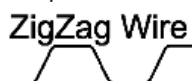
Used in Connecticut Greenhouse Company frames at the top of roll up sides, eliminating the need to run a supporting board with single WireLock.



12' Aluminum Double WireLock	\$22.00
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ZigZag Wire

For use with wirelock poly fasteners. Our ZigZag wire is made from .085" diameter, heavy duty, stainless steel spring wire, double-tempered to allow for a better return to original shape.



4' Zig-Zag Wire	\$0.80
Bundle of 50	\$36.00

Polycarbonate Sheeting

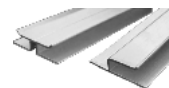
Clear twin-wall 8 mm polycarbonate sheeting. The perfect glazing choice for any greenhouse covering, polycarbonate's unique features provide cost saving benefits. As a heavy gauge material, it will give your greenhouse increased strength and improved hail protection. Anti-Fog feature prevents condensation buildup and improves light transmission. 10-year warranty. Install with UV protected side toward exterior. Larger sizes available, call for pricing.



4' x 8' Polycarbonate	\$43.20
4' x 10' Polycarbonate	\$54.00
4' x 12' Polycarbonate	\$64.80
4' x 14' Polycarbonate	\$75.60
4' x 16' Polycarbonate	\$86.40

Aluminum Extrusions for Polycarbonate

For 8 mm Polycarbonate sheeting. Double H is used to join two pieces. Single h is used to hold down edge or cover end.



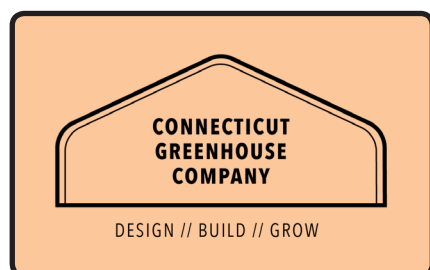
12' Double H Extrusion	\$11.83
12' Single h Extrusion	\$9.50

End Bow WireLock

Used on gable end arch on tunnels with polycarbonate end walls (bends to fit curved arch). Attach to top of arch with #12 x 1" Tek screws every 12". Cut polycarbonate to fit curve and slide underneath flange.



12' End Bow Wirelock	\$15.00
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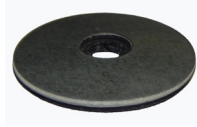
HARDWARE & ROLL UP SUPPLIES

Self Drilling Screws

#12 x 1" Stainless Steel Tek Screw (5/16" Hex drive) 100/Box	\$11.36
#12 x 1½" Stainless Steel Tek Screw (5/16" Hex drive) 100/Box	\$15.62
#14 x 1" Stainless Steel Tek Screw (3/8" Hex drive) 100 / Box	\$18.46

Washers for Polycarbonate

1" neoprene/metal bonded washer. Use with #12 x 1½" Tek screw when securing polycarbonate.



1" Metal/Neoprene Washers, 100/bag	\$8.11
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Metal Pipe Straps

These heavy-duty, 3 hole metal pipe straps are used to fasten purlins and baseboards. Has a predrilled hole on the round part of the strap for a third tek screw to keep it from sliding.



1" Pipe Strap, fits 1.315" OD pipe	\$0.50
1¼" Pipe Strap, fits 1.66" OD pipe	\$0.55
1½" Pipe Strap, fits 1.9" OD pipe	\$0.60

Brace Bands

Galvanized bands for securing truss components and wind bracing. Secure with 5/16" x 1½" Carriage bolt and nut.



1.315" Brace Band	\$0.57
1.66" Brace Band	\$0.75
1.9" Brace Band	\$0.80

Metal End Wall Framing Angles and Brackets

1½" x 2" Angle is for connecting square tubing at right angles. Always secure with two holes vertical. Twisted End Wall Framing Bracket is used to attach end wall framing to the gable end arch. Works with any wood or metal square tubing end walls. Pair with a brace band matched to your arch size.



Metal End Wall Angle	\$0.60
End Wall Framing Bracket	\$1.70

Grade 5 Carriage bolts

Use 1½" bolts for securing trusses and wind bracing, 2½" bolts for ground post and ridge connector attachments, and 4" bolts for the ridge purlin.

5/16" x 1½" Carriage bolt	100/Box	\$10.08
5/16" x 2½" Carriage bolt	100/Box	\$14.44
5/16" x 4" Carriage bolt	50/Box	\$23.22
5/16" nut	100 / Box	\$3.50
5/16" washer	100 / Box	\$3.50

Aluminum Fabric Clips

Use to fasten plastic or shade cloth to pipe. Space every two feet.



1" Fabric Clip, fits 1.315" OD pipe	\$0.80
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Zinc Eye Bolt

Used to support roll up pipe on baseboard

¾" x 6" Zinc Eye Bolt	\$1.05
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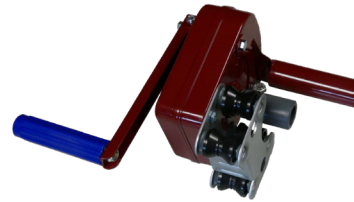
Curtain Rope & Rope Hooks

Black Braided Curtain Rope, ¼", 100% polyester. Aluminum Rope Hook inserts into WireLock



1/4" x 350' Black Curtain Rope	\$41.00
Aluminum Rope Hook, Pack of 25	\$27.00

Manual Gear Crank Operator



5:1 Ratio, internal brake. Needs to be reached from the ground. Uses 1" OD guidepipe. Rolls up to 96'.

5:1 Gear Crank, fits 1.315" roll pipe	\$85.20
6' Guidepipe & Hanging Hardware	\$16.00

Solarside® Woven Curtain Poly

Great for roll up curtains, roll up doors or gable end covering.

- More durable and puncture resistant than 6mil poly.
- Lightweight and extremely strong
- Diffuses light evenly
- UV Stabilized
- 87% Light transmission
- 6.8 oz/sq. Yd.



6' Solarside Reinforced Poly (sold per foot)	\$1.85
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VENTS AND FANS

SHUTTER VENTS

Aluminum Shutters

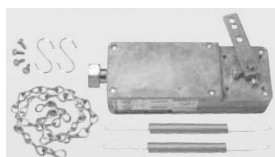
These aluminum shutters from J&D Manufacturing are designed to be used as an inlet, but may also be used for free-air exhaust. Nylon bushings, solid shafts, drawn cup-type sleeves on all movable linkages. For Rough Opening add ½ inch to shutter size (if using metal end wall angles with hex head tek screws on inside of framing, add ¾ inch).



16" Single Panel Shutter	\$50.00
24" Single Panel Shutter	\$74.00
30" Single Panel Shutter	\$101.00
36" Double Panel Shutter	\$114.00
40" Double Panel Shutter	\$141.00
42" Double Panel Shutter	\$158.00
48" Double Panel Shutter	\$182.00
54" Double Panel Shutter	\$207.00
60" Double Panel Shutter	\$256.00

Shutter Motor Kits

Works with all the above shutters. 115/230V. Includes: motor, lever arm, chain, s-hooks, tension springs, mounting bracket and assembly hardware.



Shutter Motor Kit	\$80.00
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Univent Automatic Opener

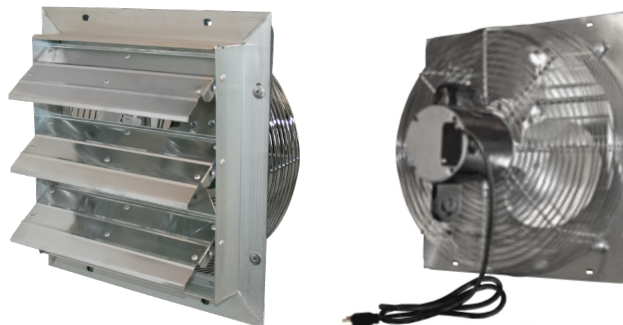


Can be adjusted to open at between 60°- 70°F. Fully open at 86°F. Works on 30" & smaller aluminum shutters above. Lifts up to 33 lbs.

Univent Automatic Opener	\$45.00
Hardware to mount to above shutters	\$2.00

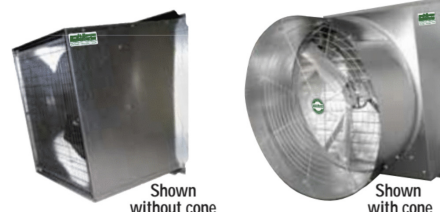
EXHAUST FANS

J&D Manufacturing Shutter Fans feature heavy-duty combination motor mounted/safety guard with bright easy-to-clean zinc-chromate finish.



Size	CFM	HP/RPM	Rough Opening	Price
12"	970	1/10 hp/1,625	12-5/8"	\$157.00
16"	1,440	1/10 hp/1,625	16-5/8"	\$167.00
20"	3,140	1/3 hp/1,725	20-5/8"	\$223.00
24"	4,640	1/2 hp/1,725	24-5/8"	\$257.00
30"	6,770	1/2 hp/825	30-5/8"	\$333.00

J&D Manufacturing Slantwall Fans feature a **galvanized box and direct drive motor on the 30" model**. 36" and 50" Slantwall Fans are belt drive with wire mesh guard. 50" fan features cone for better performance.



Size	CFM	HP/RPM	Rough Opening	Price
30"	7,100	1/2 hp/825	38"H x 37"W	\$494.00
36"	9,700	1/2 hp/525	42"H x 41"W	\$836.00
50"	21,600	1 hp/588	57"H x 55"W	\$1030.00

Euroemme Heavy-Duty Exhaust Fans

have a centrifugal shutter system that keeps the efficiency of the fan at peak all the time by keeping the shutters fully open. Shutters do not have to be cleaned regularly. Heavy duty galvanized shutters are tightly closed when the fan is not in operation, preventing any air leakage. Considering the effect of dirty shutters on the other slant wall fans, the efficiency of the Euroemme fan is 15-25% better than any other fan.

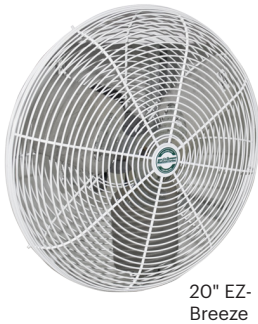


Size	CFM	HP/RPM	Rough Opening	Price
36"	11,650	3/4 hp	43"	\$839.00
50"	20,500	1 hp	54½"	\$992.00

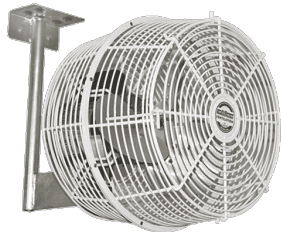
VENTS AND FANS

CIRCULATION FANS

J&D Manufacturing Circulation Fans have a 10' cord, are pre-wired for 115 volts, and are single phase. Totally enclosed, maintenance-free, direct drive high-efficiency motors have completely sealed ball bearings. Motors are variable speed capable (controller must be sourced separately). Green Breeze Models can be opened for cleaning.



20" EZ-Breeze



12" Green Breeze

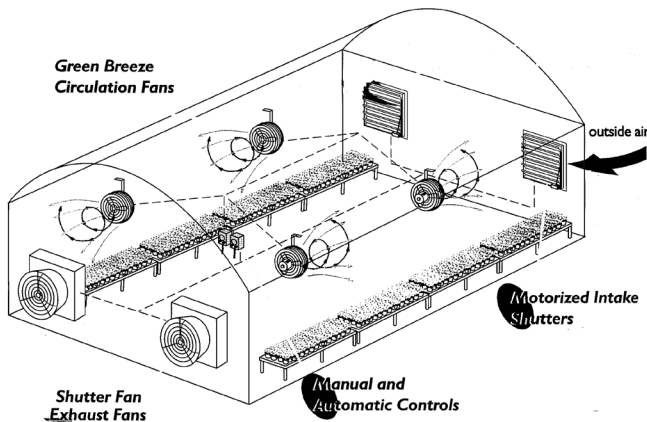
Fan	CFM	Motor	Price
20" EZ-Breeze	1,680	1/10 hp, 1.08 amps	\$135.00
12" Green Breeze	970	1/10 hp, 1.12 amps	\$141.00
20" Green Breeze	3,650	1/3 hp, 3.52 amps	\$196.00

12" Hessaire Circulation Fans feature industrial grade aluminum blades. Guards are powder coated. Bracket included. Single phase, 115V.



Fan	CFM	Motor	Price
12" Hessaire	1085	1/10 hp, 1.0 amps	\$85.00

A typical vent and fan layout is shown below. Call us today to help design a system that fits your operation.



Thermostats



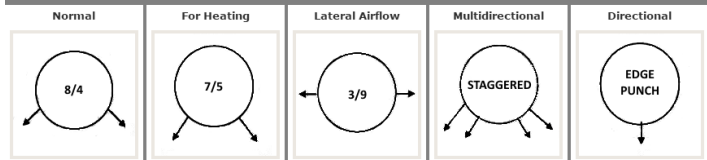
These corrosive environment thermostats can be wired for heating or cooling. Up to 240Vac. SS sensor. Temperature range: 40°-100°F.

Single Stage Thermostat	\$28.00
2 Stage Peco Thermostat, can be wired for 2 speed	\$90.00

Convection Tubing

Kenbar convection tubing is made from clear polyethylene and is protected with a strong ultraviolet inhibitor. The plastic is formulated for maximum light penetration and for durability in a greenhouse environment. We will ship standard 8/4 punch unless otherwise specified. For staggered or edge punch add \$0.14/ft.

Convection Tubing Punch Positions



12" Dia. Tubing, 6 mil 3-year	\$0.77/ft
18" Dia. Tubing, 6 mil 3-year	\$1.05/ft
24" Dia. Tubing, 6 mil 3-year	\$1.34/ft
30" Dia. Tubing, 6 mil 3-year	\$1.62/ft

Twister Exhaust Fan

For Convection Tubing (will reduce CFM). Galvanized Exhaust/Tube Fan, has center hinged galvanized butterfly shutter that can easily be removed for tube applications.



24" Fan, 4820 CFM, 1/3 hp motor	\$304.00
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Ultra-Efficient Propane and Natural Gas Heaters are also available. Call for details.

GREENHOUSE AND GROWING SUPPLIES

Looking for something else? We offer a full line of greenhouse and field growing supplies, including plug flats, irrigation supplies, plastic mulch, landscape fabric, tools, and harvest equipment. Call us today for availability and pricing



CONSTRUCTION SERVICES



Our crew provides full service construction of all Connecticut Greenhouse Company greenhouse and high tunnel frames. We can also help with upgrades and retrofits to preexisting tunnels, including:

- New Plastic coverings,
- Double layer inflated poly,
- Rebuilding and enhancing end-walls and doors,
- Adding roll up sides,
- Other enhancements and improvements.

Available throughout Connecticut and parts of Massachusetts and Rhode Island.





Connecticut Greenhouse Company, LLC

**85 School Street
Middlefield, CT 06455**

**(203) 654-1595
info@ctgreenhouse.com**

www.ctgreenhouse.com