

## E-zy Mini Basket Arbor

The Mini Basket Arbor is designed to be an extra sales tool - compact enough to place almost anywhere, yet holding enough product to have real sales impact! It holds 42 full 10" hanging baskets and assembles with wing nuts.

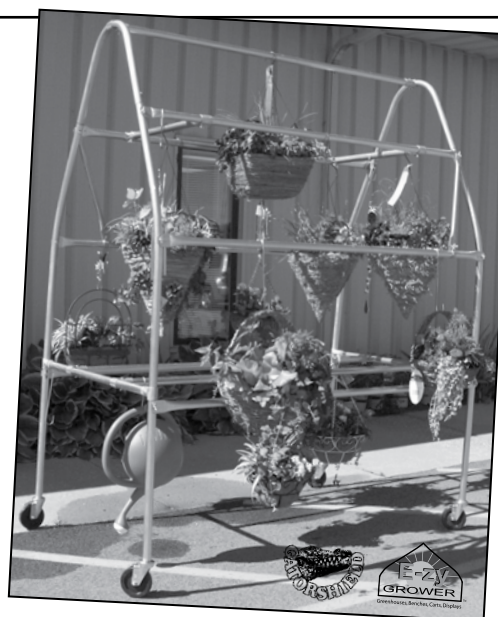


**WREATH DISPLAY OPTION:** Use our Mini Arbor year 'round with this option. Beautifully displayed wreaths at your customer's eye level for easy reach.

**Holds one of the following:**

- (80) 12" wreaths
- (48) 24" wreaths
- (16) 36" wreaths

**CASTER OPTION:** Make it an E-zy to roll, portable display unit. Load it up and wheel it at the front of your retail sight for roadside display. At closing time, just wheel inside! Includes: 4 heavy-duty 5" polyolefin casters.



Catalog #	Description	Price
011-102-031	Arbor ONLY (3.5' W x 6' L x 7' H)	\$237.71
011-102-999	Caster Option ONLY	\$68.00
011-165-990	Wreath Option ONLY	\$79.23

## E-zy Basket Arbor

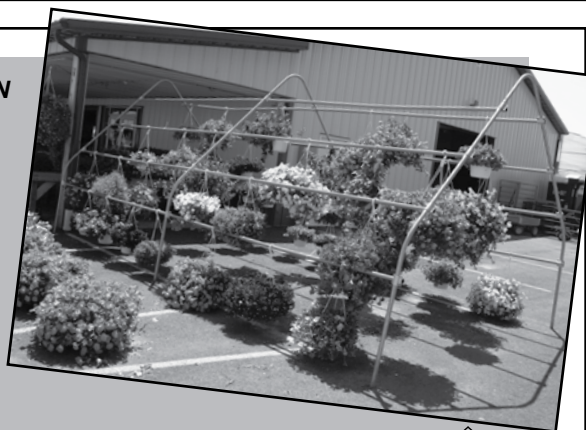
Our basket arbors are built to last and designed to make you a profit immediately! Now you can display all your hanging baskets in one attractive, money-making area without the hassle and expense of trying to build your own display. These units are designed for quick and easy assembly on almost any surface. Put one up and watch those baskets SELL, SELL, SELL!

DISPLAYS BETWEEN

**50-150  
10" HANGING  
BASKETS!**

**SPECIFICATIONS:**

Bows: 1.315 14-gauge steel tubing.  
Purlins: 1.315 17-gauge steel tubing  
Arbor height at peak: 8'.  
Swedged bow slides easily into center piece and is fastened with a 1/4" x 2" carriage bolt and nut.



Catalog #	Description	Price
011-100-091	9½' x 8' E-zy Basket Arbor w/ 2 bows & 8 Purlins	\$260.64
011-100-092	9½' x 12' E-zy Basket Arbor w/ 3 Bows & 8 Purlins	\$413.80
011-100-093	9½' x 20' E-zy Basket Arbor w/ 3 Bows & 8 Purlins	\$507.40
011-101-990	8' Arbor Add-On w/ 1Bow & 8 Swedged Purlins	\$194.76
011-101-990	12' Arbor Add-On w/ 1Bow & 8 Swedged Purlins	\$240.28
011-101-990	12' Arbor Add-On w/ 2 Bows & 8 Swedged Purlins	\$347.92

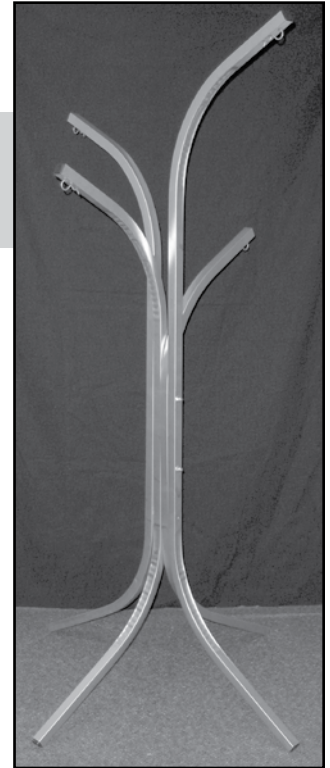


## E-zzy Arm Basket Displayer



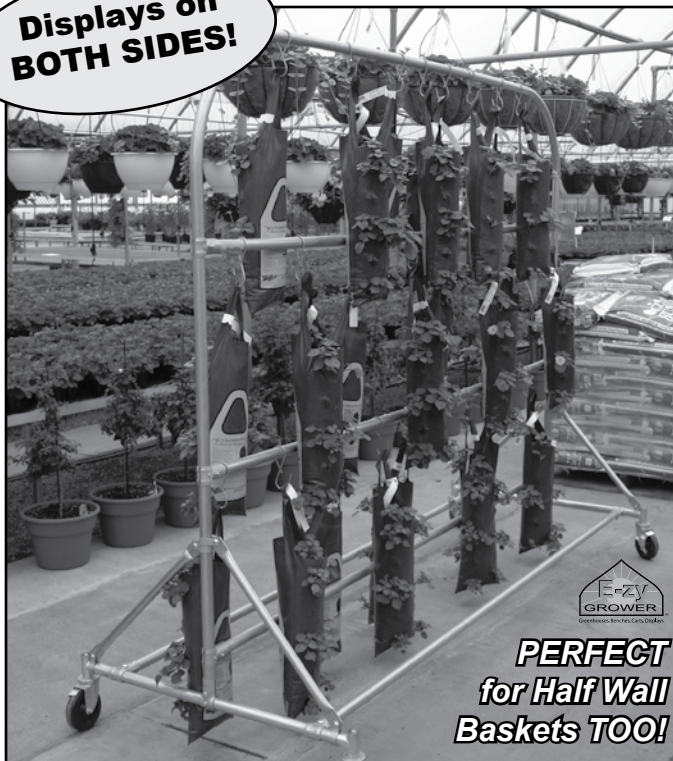
*Holds 4 baskets for compact feature displays or sell as is.*

- Ideal retail item for decks and patios
- Sturdy 1" square steel
- Assembles with 2 bolts
- Built-in hooks (holds baskets securely)
- Boxed - Ships UPS



Catalog #	Description	Price
011-157-050	E-zzy Arm Basket Displayer	\$57.00

**Displays on BOTH SIDES!**



**PERFECT for Half Wall Baskets TOO!**

## E-zzy Seller Flower Pouch Display

**Now you can easily display flower pouches anywhere!**

Measures 8',4" long by 6',8" tall and just over 3' wide at the anti-tipping axiled wheel base. Designed to work inside the greenhouse or wheeled outside for store front displaying. Complete with attached S hooks, which can be spaced at your choosing, but can't be removed by the customer. The E-zzy Seller Flower Pouch Display can be shipped UPS. E-zzy Assembly.

Catalog #	Description	Price
011-160-990	E-zzy Seller Flower Pouch Display	\$275.00

# E-ZY GROWER STRUCTURES GOTHIC ARCH STYLE



Our E-zy Grower Gothic Arch greenhouse frames are designed to shed heavy wet snows better than any other design. Manufactured from Allied Gatorshield® steel tubing, our frames are built tough to withstand harsh winter weather. *Available in three widths; 21', 24', and 30'.* All three widths use a standard size of poly covering, which eliminates the annoying task of special ordering poly! Our basic frame package **includes bows, ground posts, purlin, kneebraces, hardware, clamps, & instructions.** And, as always, custom lengths are not a problem. Simply call our Sales Team for your specialized quote today.

## Greenhouse Package Additions (optional):

Call us for a Quick Quote on greenhouse frames or optional packages.

We have many packages for you to choose from. Mix & match to suit your needs or let our sales team help you decide. Don't spend your valuable time trying to figure out which parts you need.... Simply choose a structure size and pick the packages!

### 1) CROSSBRACE PACKAGE:

Crossbraces are designed to add extra support to the structure. Steel crossbars are attached with clamps to short truss pieces and hung near the peak of structure at least every other bow. We highly recommend this option especially on any structure that is exposed to adverse weather conditions.

### 2) POLY LOCK PACKAGE:

Package includes enough aluminum Poly Spring Lock and Wire Insert to secure poly to base boards at both sides of structure and enough Universal Spring Lock and Wire Inserts to secure poly at both end bows.

### 3) ENDWALL PACKAGE:

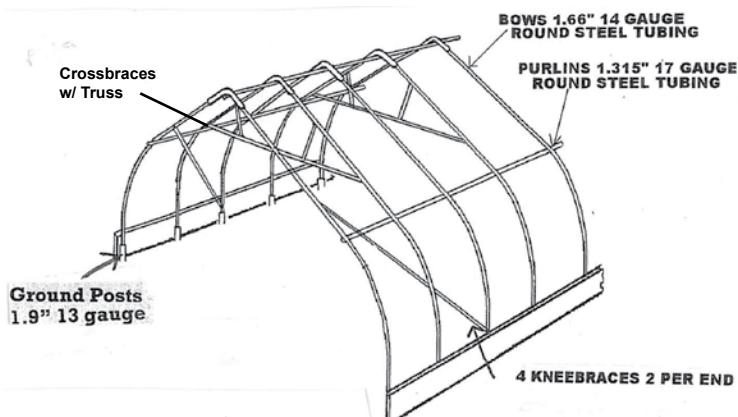
This package can be tailored to your needs. Order the endwall frame only, complete with all the steel and hardware for the gable end. Or you may add poly or rigid 8mm polycarbonate for a permanent clear gable end.

### 4) SLIDING DOOR PACKAGE:

Sold complete or a la carte. Frame is all steel construction which supports aluminum extrusions that secure 8mm polycarbonate. Doors hang from sturdy track, trolley and hardware supplied.

### 5) POLY ROLLUP SIDE VENTS:

A natural, eco-friendly means of ventilating the greenhouse. Poly is secured onto round steel tubing which rolls up and down guide posts by a hand crank gear box at one end and guiding box at the opposite end. We offer specific options within this package to meet your individual operating needs.



### Here is a suggested checklist of other items you may need to consider for your new greenhouse structure:

- ✓ Polyethylene or Polycarbonate covering
- ✓ Inflation Blower
- ✓ Horizontal Air Flow (HAF) Fans
- ✓ Exhaust Fans and Shutter
- ✓ Heaters
- ✓ Thermostats
- ✓ Ground Covering
- ✓ Benches

# Good Things May Come In Small Packages, But Great Things Come In **THE WORKS!**

30' x 96' THE WORKS Greenhouse	
•	30' x 96' Gothic Midwall Greenhouse Frame, 4' bow spacing 3-purlins
•	Crossbrace Assemblies every other bow
•	Double Layer 4-Year Clear Poly 48' x 100' Sheet
•	Inflation Fan 180cfm w/ wiring kit
•	Poly Lock - Universal Spring Lock & Double Quick Lock
2	96' Long E-ZY Roll-Up Side Vents
2*	PDP250A Modine Heaters 115V. Standing Pilot (*specify natural gas or propane heater)
2	In-Line Single Stage Thermostats
4	20" E-ZY Breeze Circulating Fans
2	End Wall Kits with Steel Frame & Twin Wall Polycarbonate
1	4' x 8' Sliding Polycarbonate Door
2	36" Exhaust Fan Assembly Two Speed 115V. 1HP
2	57" Inlet Shutter with Motor 115V.
2	In-Line Two Stage Thermostat
<i>Priced Separately TOTAL: \$15,342.17</i>	
<b>THE WORKS Final Price: \$14,588.67</b> (plus shipping)	

30' x 48' THE WORKS Greenhouse	
•	30' x 48' Gothic Midwall Greenhouse Frame, 4' bow spacing 3-purlins
•	Crossbrace Assemblies every other bow
•	Double Layer 4-Year Clear Poly 48' x 100' Sheet
•	Inflation Fan 60cfm w/ wiring kit
•	Poly Lock - Universal Spring Lock & Double Quick Lock
2	48' Long E-ZY Roll-Up Side Vents
1*	PDP250A Modine Heaters 115V. Standing Pilot (*specify natural gas or propane heater)
1	In-Line Single Stage Thermostats
2	20" E-ZY Breeze Circulating Fans
2	End Wall Kits with Steel Frame & Twin Wall Polycarbonate
1	4' x 8' Sliding Polycarbonate Door
1	42" Exhaust Fan Assembly Two Speed 115V. 1HP
1	39" Inlet Shutter with Motor 115V.
1	In-Line Two Stage Thermostat
<i>Priced Separately TOTAL: \$9,737.91</i>	
<b>THE WORKS Final Price: \$9,211.73</b> (plus shipping)	



## Excellent for growing and retailing!

- With sturdy 1.66" 14-gauge bows on 1.9" 13-gauge ground posts.
- Peak height of 13'8".
- Ample Side Wall height of 8'1" (3' in from side).

**NOTE:**

Baseboard, wiring, and heater stack not included in this package.

**OPTIONAL:**

Greenhouse ground cover and benching available.

# 30' E-z-y Grower Gothic Greenhouse



### 30' Gothic Specifications:

Bows: 1.66, 14 gauge Gatorshield® tubing  
 Purlins: 1.315, 16/17 gauge Gatorshield® tubing

#### 30' Standard-Wall:

- Height At Peak: 12'0"
- Height 3' from Side: 6'3"
- Groundpost: 36" (4" above ground)
- Poly Width: 42'

#### 30' Mid-Wall:

- Height At Peak: 13'8"
- Height 3' from Side: 8'1"
- Groundpost: 54" (26" above ground)
- Poly Width: 48'

#### 30' Hi-Wall:

- Height At Peak: 15'10"
- Height 3' from Side: 10'4"
- Groundpost: 84" (54" above ground)
- Poly Width: 50'

**Our 30' E-z-y Grower Gothic Greenhouse is ENGINEER CERTIFIED to support snow loads of 35 lbs/square foot.**  
*(certified for continuously heated greenhouse with bows 4' o.c. and crossbraces every 8').*

### What does that mean?

It means that this is one tough greenhouse. It's designed to take the nastiest northern weather that Mother Nature has to offer. Wind, rain and snow are no match for this house. The secret is the slope of the bows, heavy wet snow can topple a regular greenhouse, but snow just can't cling to ours, it slides right off!

*Common lengths are priced below.*

STANDARD-WALL FRAMES	FRAME	Wire Polylock Package	Crossbrace Package (every 8 feet)	Endwall Frame (one end) EACH
30' x 48' Frame - 4' bow spacing; 3 purlins	\$2,369.94	\$340.92	\$277.74	\$390.46
30' x 48' Frame - 4' bow spacing; 5 purlins	\$2,560.90			
30' x 96' Frame - 4' bow spacing; 3 purlins	\$4,486.08	\$457.92	\$555.48	\$390.46
30' x 96' Frame - 4' bow spacing; 5 purlins	\$4,867.48			
30' x 144' Frame - 4' bow spacing; 3 purlins	\$6,602.22	\$574.12	\$833.22	\$390.46
30' x 144' Frame - 4' bow spacing; 5 purlins	\$7,174.06			
MID-WALL FRAMES	FRAME	Wire Polylock Package	Crossbrace Package (every 8 feet)	Endwall Frame (one end) EACH
30' x 48' Frame - 4' bow spacing; 3 purlins	\$2,490.58	\$340.92	\$277.74	\$522.17
30' x 48' Frame - 4' bow spacing; 5 purlins	\$2,681.54			
30' x 96' Frame - 4' bow spacing; 3 purlins	\$4,718.08	\$457.52	\$555.48	\$522.17
30' x 96' Frame - 4' bow spacing; 5 purlins	\$5,099.48			
30' x 144' Frame - 4' bow spacing; 3 purlins	\$6,945.58	\$574.12	\$833.22	\$522.17
30' x 144' Frame - 4' bow spacing; 5 purlins	\$7,517.42			

**Need a different length?**  
 Call us to quote your  
 CUSTOM length!

# 21' & 24' E-zy Grower Gothic Greenhouse



### 21' Gothic Specifications:

Bows: 1.315, 14 gauge Gatorshield® tubing  
Purlins: 1.315, 16/17 gauge Gatorshield® tubing

#### 21' Standard-Wall:

- Height At Peak: 10'3"
- Height 3' from Side: 5'11"
- Groundpost: 36" (4" above ground)
- Poly Width: 32'

#### 21' Mid-Wall:

- Height At Peak: 11'9"
- Height 3' from Side: 7'5"
- Groundpost: 54" (26" above ground)
- Poly Width: 36'

### 24' Gothic Specifications:

Bows: 1.315, 14 gauge Gatorshield® tubing  
Purlins: 1.315, 16/17 gauge Gatorshield® tubing

#### 24' Standard-Wall:

- Height At Peak: 12'0"
- Height 3' from Side: 6'3"
- Groundpost: 36" (4" above ground)
- Poly Width: 36'

#### 24' Mid-Wall:

- Height At Peak: 13'8"
- Height 3' from Side: 7'6"
- Groundpost: 54" (26" above ground)
- Poly Width: 40'

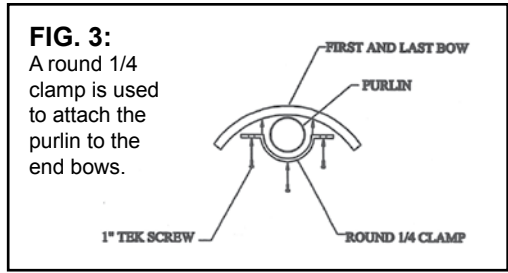
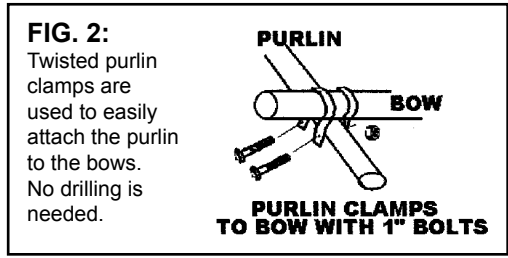
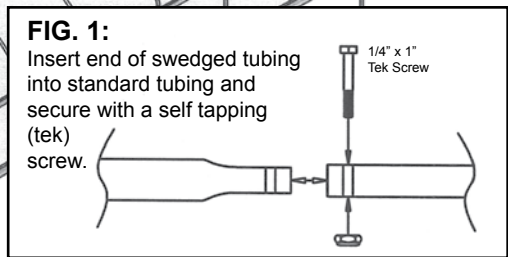
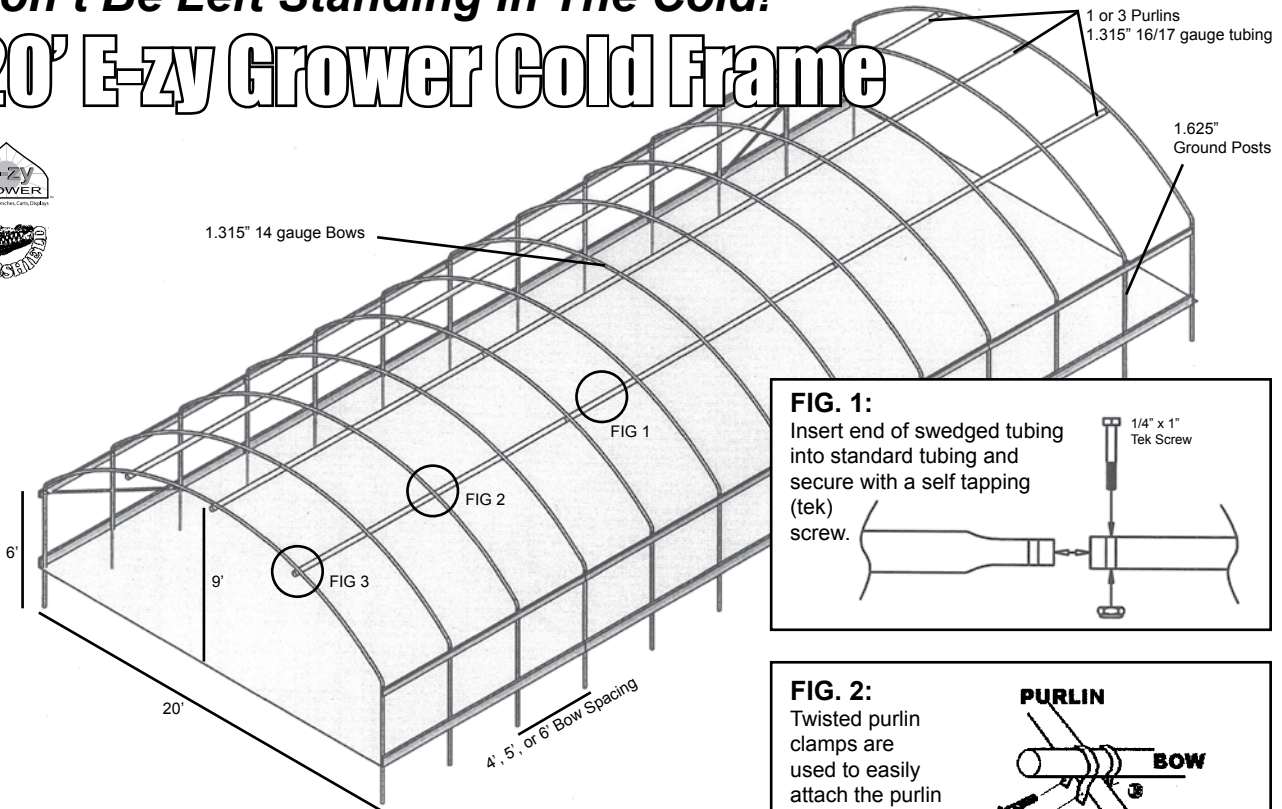
Common lengths are priced below.

STANDARD-WALL FRAMES	Frame	Wire Polylock Package	Crossbrace Package (every 8 feet)	Endwall Frame (one end) EACH
21' x 48' Frame - 4' bow spacing; 1 purlins	\$1,518.23	\$284.92	\$216.06	\$257.39
21' x 48' Frame - 4' bow spacing; 3 purlins	\$1,709.19			
21' x 96' Frame - 4' bow spacing; 1 purlins	\$2,854.13	\$401.52	\$432.12	\$257.39
21' x 96' Frame - 4' bow spacing; 3 purlins	\$3,235.53			
24' x 48' Frame - 4' bow spacing; 1 purlins	\$1,614.56	\$284.92	\$216.06	\$257.39
24' x 48' Frame - 4' bow spacing; 3 purlins	\$1,805.52			
24' x 96' Frame - 4' bow spacing; 1 purlins	\$3,039.38	\$401.52	\$432.12	\$257.39
24' x 96' Frame - 4' bow spacing; 3 purlins	\$3,420.78			
MID-WALL FRAMES	Frame	Wire Polylock Package	Crossbrace Package (every 8 feet)	Endwall Frame (one end) EACH
21' x 48' Frame - 4' bow spacing; 1 purlins	\$1,619.89	\$284.92	\$216.06	\$318.14
21' x 48' Frame - 4' bow spacing; 3 purlins	\$1,810.85			
21' x 96' Frame - 4' bow spacing; 1 purlins	\$3,049.63	\$401.52	\$432.12	\$318.14
21' x 96' Frame - 4' bow spacing; 3 purlins	\$3,431.03			
24' x 48' Frame - 4' bow spacing; 1 purlins	\$1,716.22	\$306.10	\$216.06	\$322.68
24' x 48' Frame - 4' bow spacing; 3 purlins	\$1,907.18			
24' x 96' Frame - 4' bow spacing; 1 purlins	\$3,234.88	\$422.70	\$432.12	\$322.68
24' x 96' Frame - 4' bow spacing; 3 purlins	\$3,616.28			

**Need a different length?**  
Call us to quote your  
CUSTOM length!

# Don't Be Left Standing In The Cold!

## 20' E-zzy Grower Cold Frame



**20' Cold Frame Specifications:**  
 Bows: 1.315, 14 gauge Gatorshield® tubing  
 Purlins: 1.315, 16/17 gauge Gatorshield® tubing

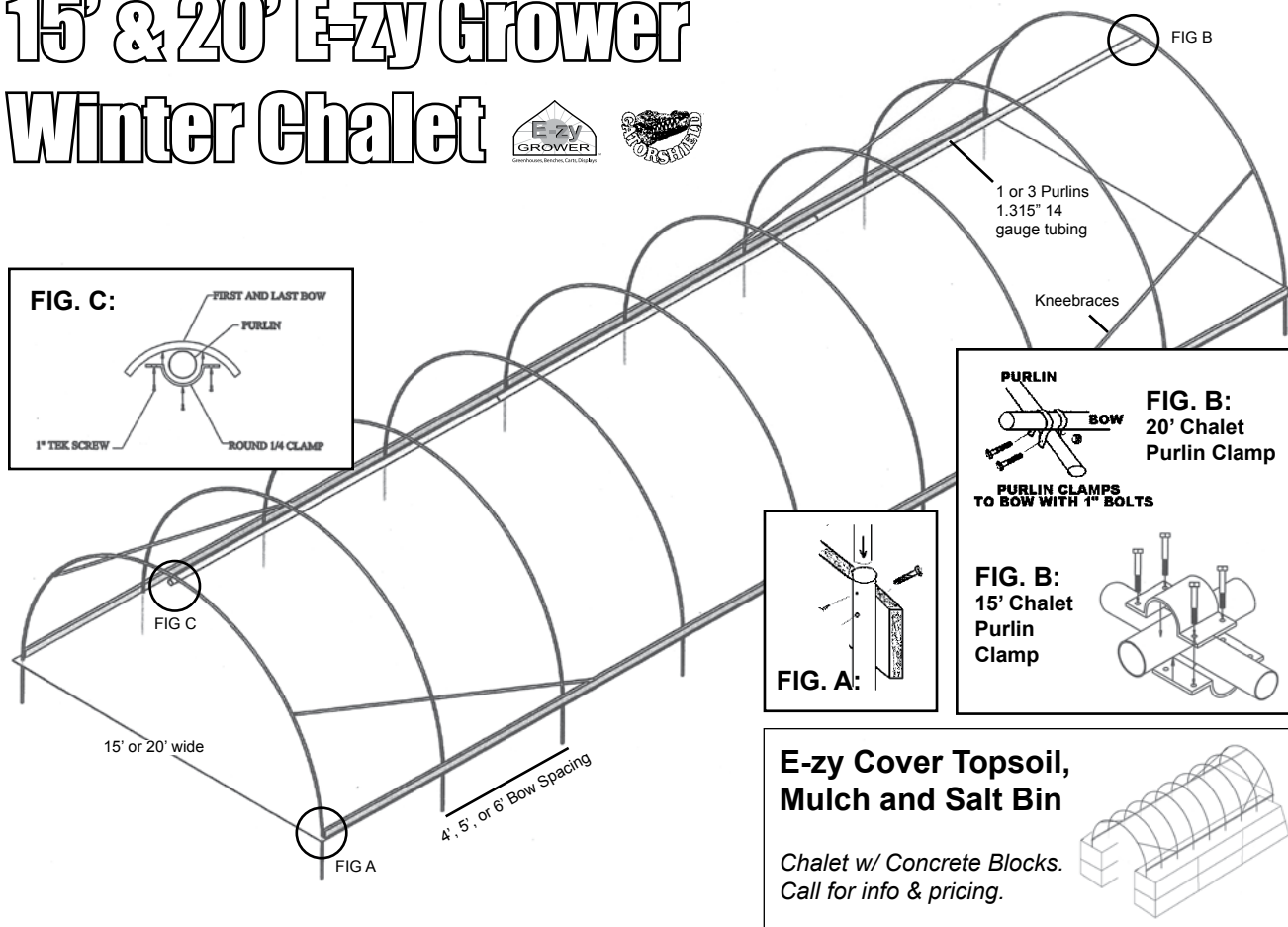
- 20' Standard-Wall:**
- Height At Peak: 9'0", Height 3' from Side: 6'0"
  - Groundpost: 72" (48" above ground)
  - Poly Width: 32' ground to ground, 24' eave to eave
- Features:**
- Superior structure construction, fast & easy installation
  - Easily customized to meet your individual needs
  - 4', 5' or 6' bow spacing, 1 or 3 purlin

STANDARD-WALL FRAMES	Frame	Wire Polylock Package	Endwall Frame (one end) EACH
20' x 48' Frame - 4' bow spacing; 1 purlin	\$1,358.08	\$263.74	\$267.35
20' x 48' Frame - 4' bow spacing; 3 purlins	\$1,548.16		
20' x 96' Frame - 4' bow spacing; 1 purlin	\$2,551.42	\$380.34	\$267.35
20' x 96' Frame - 4' bow spacing; 3 purlins	\$2,931.28		
20' x 144' Frame - 4' bow spacing; 1 purlin	\$3,744.76	\$496.94	\$267.35
20' x 144' Frame - 4' bow spacing; 3 purlins	\$4,314.40		

**Need a different length?**  
 Call us to quote your CUSTOM length!

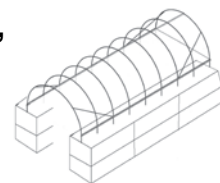
**NOTE: FOR BETTER RIGIDITY, WE RECOMMEND A MINIMUM 4' SPACING BETWEEN BOWS. WE WILL QUOTE OTHER SPACING OPTIONS AT CUSTOMER'S REQUEST.**

# 15' & 20' E-zy Grower Winter Chalet



### E-zy Cover Topsoil, Mulch and Salt Bin

Chalet w/ Concrete Blocks.  
Call for info & pricing.



The E-zy Grower Winter Chalet is designed to protect your valuable nursery stock, perennials, roses, bedding plants and more from snow loads, strong winds and other bad weather. The E-zy Grower Winter Chalet is well engineered for long term economic overwintering, storage and growing space. The 15' Winter Chalet bow is made of a single piece of curved steel. While the 20' Winter Chalet bow uses two pieces of curved steel, one side swedged to fit into the other.

**15' Winter Chalet Specs:**  
 Bows: 1", 14 gauge tubing  
 Purlins: 1.315, 16/17 ga tubing  
 Height At Peak: 7'3"  
 Height 3' from Side: 5'9"  
 Groundpost: 24"  
 (2" above ground)  
 Poly Width: 24'

**20' Winter Chalet Specs:**  
 Bows: 1.315", 14 ga tubing  
 Purlins: 1.315, 16/17 ga tubing  
 Height At Peak: 10'0"  
 Height 3' from Side: 8'0"  
 Groundpost: 30"  
 (2" above ground)  
 Poly Width: 32'

15' WINTER CHALET FRAMES	Frame	Wire Polylock Package	Endwall Frame (one end) EACH
15' x 48' Frame - 4' bow spacing; 1 purlins	\$845.36	\$213.42	\$134.77
15' x 96' Frame - 4' bow spacing; 1 purlins	\$1,560.14	\$330.02	\$134.77
15' x 144' Frame - 4' bow spacing; 1 purlins	\$2,274.92	\$446.62	\$134.77
15' x 192' Frame - 4' bow spacing; 1 purlins	\$2,989.70	\$563.22	\$134.77
20' WINTER CHALET FRAMES	Frame	Wire Polylock Package	Endwall Frame (one end) EACH
20' x 48' Frame - 4' bow spacing; 1 purlins	\$1,358.46	\$261.04	\$155.56
20' x 96' Frame - 4' bow spacing; 1 purlins	\$2,546.88	\$377.64	\$155.56
20' x 144' Frame - 4' bow spacing; 1 purlins	\$3,735.30	\$494.24	\$155.56

**Need a different length?**  
 Call us to quote your CUSTOM length!



# Retail-Mart



**Call for a  
quote today!**

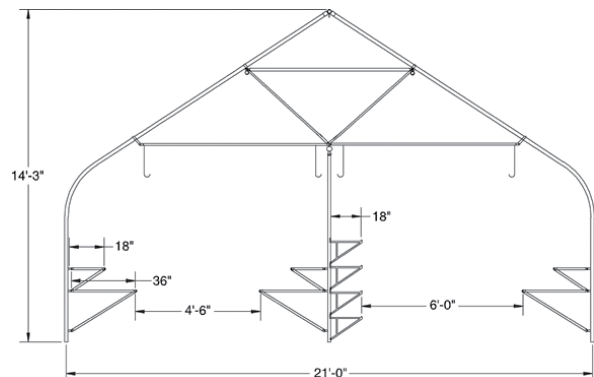


## FEATURES:

- **21' Bay Width**  
The 21' bay width provides plenty of room for your retail customers and carts.
- **Side Ventilation**  
Slide-side ventilation provides easy climate control for customers and plants alike.
- **Integrated Display Benching System**  
Choose from either the flat stacker or "Z" benching system to beautifully display your plants.
- **Integrated Hanging Basket Purlins**  
Display all your hanging baskets within easy reach for increased sales.
- **Choice of Hold Down System**  
Ground stakes or concrete anchor bolts securely hold your Retail-Mart in place.
- **Double Sliding or Swinging Doors**  
Easy access to the Retail-Mart for customers and carts.
- **Polycarbonate Structured Sheeting**  
Choose from several types of long-lasting polycarbonate structured sheeting for the roof and ends.
- **Freestanding or Gutter Connected**  
The Retail-Mart can be constructed as a free-standing unit or gutter connected to additional Retail-Marts. It can also be gutter connected to existing buildings.
- **Wide Range of Options**  
Custom configure your Retail-Mart to fit your exact needs.

The Retail-Mart is designed much like a growing house to satisfy your live product's need for sunlight and ventilation. Sell live goods and gardening products year-round, from bedding plants to Christmas trees. The unique built-in benching system can be adjusted or removed to accommodate pallets, power equipment or trees.

Heavy-duty, galvanized steel construction and sturdy polycarbonate structured sheeting will provide years of use from this popular retail structure. Choose from many options to customize your Retail-Mart exactly to your needs.

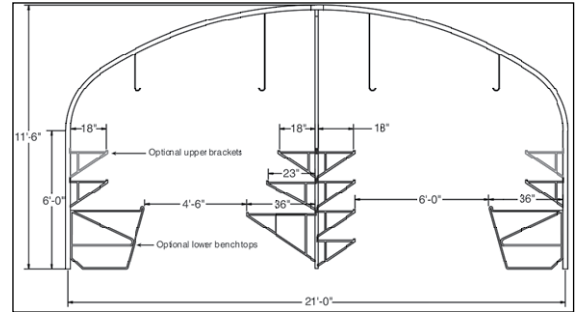


# Garden Mart



Complete  
24' Package  
**\$4,309.00**  
FOB Castle Rock, MN.

**CALL FOR PRICING ON OTHER PACKAGE SIZES**



Designed to be a modular, low-cost and movable sales building for added spring plants sales. Garden Mart has been engineered for superior strength, easy future expansion and dramatically simplified setup. It offers protection for your plants and shopping comfort for your customers.

**SPECIFICATIONS:**

Width: 21' X Length: 24'-96' (6' increments)  
Sidewall height: 6', Height to apex: 11'-4"  
Frame spacing: 6'  
Door: 6' wide x 6'-8" tall  
Roof cover: clear or white 6 mil.  
UVI treated polyethylene  
End wall cover: clear 6 mil.  
UVI treated polyethylene  
Frame: 2" OD 14-ga galvanized steel tubing  
Ventilation: Slide-Side

**OPTIONS:**

- Side Door
  - Additional End Door
  - Hanging Basket Watering System
  - Shade Cloth - 30% and Up
  - End Wall or Door Wall Basket Purlin Kits
  - Inflation Kits
  - Expanded Metal Bench Tops
- CALL FOR OPTION PRICING**

**STANDARD EQUIPMENT:**

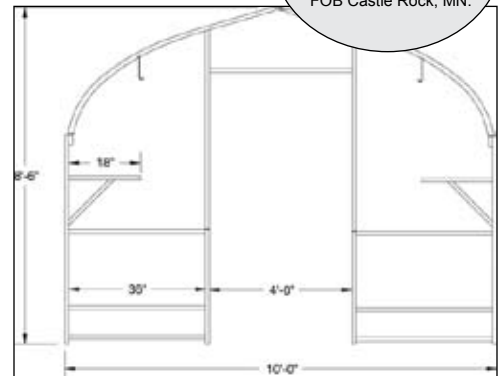
- Modular design allows for economical future expansion
- Integrated side benching brackets
- Integrated center benching brackets with choice of Flat Stacker or Tiered
- Slide-Side ventilation
- Double sliding end door
- Four runs of hanging basket purlins
- Roof and end UVI poly with Wiggle Wire attachment system
- Choice of hold down system: water tubes, ground stakes, leg stands

# Bench-Mart Deluxe



**CALL FOR PRICING ON OTHER PACKAGE SIZES**

Complete  
18' Package  
**\$1,961.00**  
FOB Castle Rock, MN.



**STANDARD EQUIPMENT:**

- Modular design allows for economical future expansion
- Integrated side benching brackets
- Slide-Side ventilation
- Double sliding end door
- Two runs of hanging basket purlins
- Roof and end UVI poly with Wiggle Wire attachment system

**SPECIFICATIONS:**

Width: 10' X Length: 6'-96' (6' increments)  
Height: 8'-6"  
Frame spacing: 6'  
Door: (2) 2' wide x 6'-8" tall swinging  
Roof cover: clear or white 6 mil.  
UVI treated polyethylene  
End wall cover: clear 6 mil.  
UVI treated polyethylene  
Frame: 16-ga galvanized steel tubing  
Ventilation: Slide-Side

The Bench-Mart Deluxe assembles quickly with wing nuts. Multilevel bench displays and hanging basket purlins display product at comfortable shopping levels. Bench tops and poly covering are included. Slide-Side panels allow for ventilation.

**OPTIONS:**

- Extra Door Kit
  - Shade Cloth
- CALL FOR OPTION PRICING**

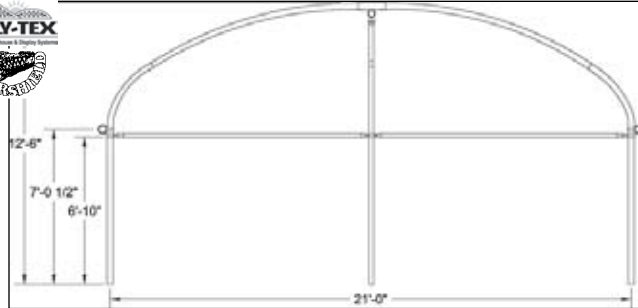
# Hava Cabana



Complete  
24' Package  
**\$1,690.00**

FOB Castle Rock, MN.

**CALL FOR PRICING ON  
OTHER PACKAGE SIZES**



Low-cost and extremely versatile, the Hava Cabana provides an attractive and practical shelter for a host of outdoor events. Featuring the easy snap button design, it sets up and breaks down quickly. Great for fruit, vegetable or plant sales.

**SPECIFICATIONS:**

Width: 21'  
Length: 16' increasing in 8' increments  
Sidewall height: 7'  
Height to apex: 12'-4"  
Cover: 13 oz. vinyl laminate fabric in red, blue, green or yellow stripe on white.  
Frame: 2" OD 14 ga. galvanized steel tubing.  
Anchoring: Choose from spikes, leg stands or ground stakes.

**OPTIONS:**

- 8' Vinyl Side Panel
- 21' Vinyl Gable Peak
- 21' Vinyl Gable Peak with End Vinyl Panels
- Shade Cloth

*CALL FOR  
OPTION PRICING*

Hava Cabana shown with optional shade cloth



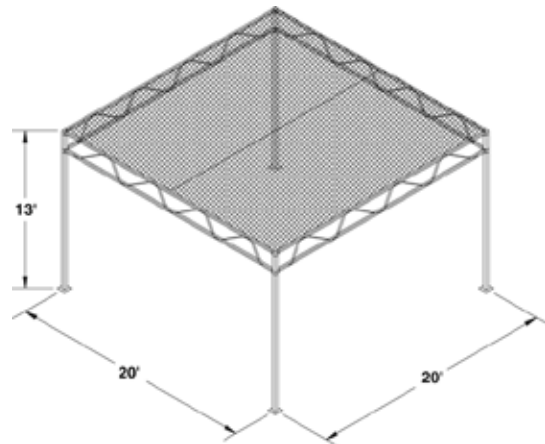
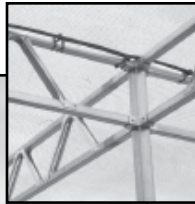
# W-Truss



Complete  
20' x 40' Package  
**\$2,602.91**

FOB Castle Rock, MN.

**CALL FOR PRICING ON  
OTHER PACKAGE SIZES**



**COMPLETE PACKAGE INCLUDES:**

- 3" x 3" x 13' x 12 ga. vertical posts with 8" x 8" base plates on 20' x 20' blocks.
- Hilti expansion anchor bolts
- 20' galvanized truss members,
- 60% black knitted shade cloth with hemmed edges and grommets
- 10" canopy ball bungee every 18"
- Fittings, hardware, and assembly instructions.

**SPECIFICATIONS:**

Width/lengths: 20' x 20' blocks standard, custom trusses available up to 28'  
Anchors: anchor bolts (concrete)  
Vertical posts: 3" x 3" x 13' galvanized steel with base plate  
Truss: 2" x 2" square top and bottom chords, galvanized webbing  
Cover: 30-90% shade cloth

The W-Truss is a sturdy shade structure for your plants and customers. Increase customer comfort and reduce the amount of water used and time spent keeping your live product in top-selling shape. It's one of the best-built and attractive shade structures on the market.

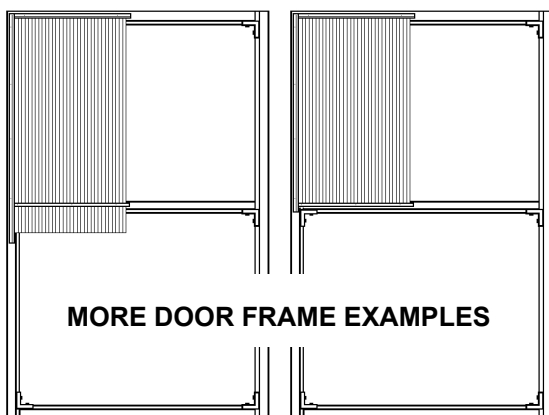
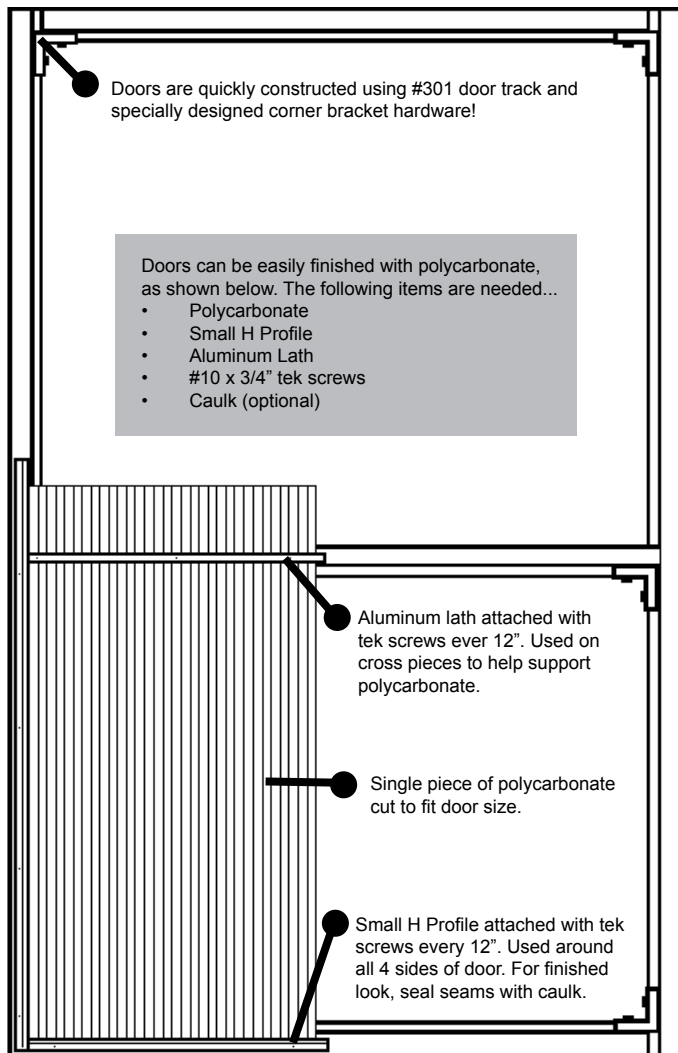
**OPTIONS:**

- Side Panels
- Shade Cloth

*CALL FOR OPTION PRICING*



# Quick & E-zzy Sliding Doors



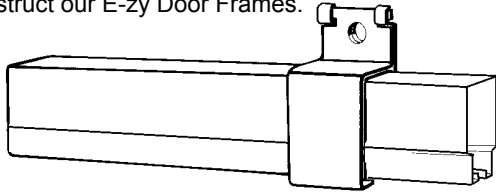
Standard Door Size Kits:	
<b>3' x 8' DOOR</b>	
Steel Frame Only	\$106.56
Track, Trolley, Hardware	\$98.62
Polycarbonate Covering & Aluminum Extrusions	\$85.81
<b>Total</b>	<b>\$290.99</b>
<b>4' x 8' DOOR</b>	
Steel Frame Only	\$114.93
Track, Trolley, Hardware	\$104.20
Polycarbonate Covering & Aluminum Extrusions	\$88.92
<b>Total</b>	<b>\$308.05</b>
<b>5' x 8' DOOR</b>	
Steel Frame Only	\$123.45
Track, Trolley, Hardware	\$109.87
Polycarbonate Covering & Aluminum Extrusions	\$115.23
<b>Total</b>	<b>\$348.55</b>
<b>6' x 8' DOOR</b>	
Steel Frame Only	\$133.56
Track, Trolley, Hardware	\$115.72
Polycarbonate Covering & Aluminum Extrusions	\$118.34
<b>Total</b>	<b>\$367.62</b>

**NEED A SPECIAL SIZE?  
NO PROBLEM!**

We can easily customize almost any size door frame. Call our Sales Team at (800) 468-4011 for your personal quote today!

## DOOR TRACK #301

Rollformed from galvanized steel and can support up to 400 lbs. It is used not only as a door track, but also to construct our E-zy Door Frames.



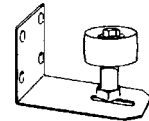
Catalog #	Description	Each Price
017-630-106	6' Door Track #301	\$24.59
017-630-108	8' Door Track #301	\$32.77
017-630-112	12' Door Track #301	\$49.15
017-630-116	16' Door Track #301	\$65.52
017-630-120	20' Door Track #301	\$81.89

## Stay Rolls

>**Stay Roll #93:** For floor-mounted applications. Includes lag screw and expansion shield. Steel with hard rubber wheel.



>**Stay Roll #95:** A compact stay roll which installs at the base of the jamb on each side of the door opening to guide the sliding door during operation. Adjustable for doors up to 2-1/2". Steel w/ lexan wheel. Use 1/4" tek screw or 1/4" bolt with a washer and nut to attach Stay Roll to metal surfaces.

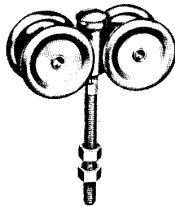


Catalog #	Description	Pair Price
017-609-300	Stay Roll #93	\$11.09
017-609-500	Stay Roll #95	\$8.67

## DOOR HANGERS

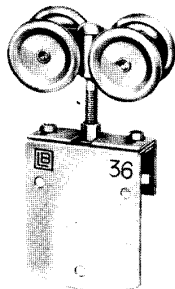
### >Door Hanger #36TS5:

An economical nylon-bearing hanger typically used on metal frame doors weighing up to 400 lbs. The drop bolt installs vertically through top frame member of door. Vertical adjustment only. Steel wheels, frame and axles with solid nylon bearings.



### >Door Hanger #36:

An economical nylonbearing hanger typically used on wood frame doors weighing up to 400 lbs. This door hanger has vertical adjustments allowing the door to be plumbed and adjusted for proper bottom clearance and lateral adjustments for proper clearance between door and jamb. Steel wheels, frame and axles with solid nylon bearings.

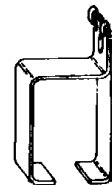


Catalog #	Description	Pair Price
017-623-605	Door Hanger for Metal Doors #R41T	\$49.18
017-620-036	Door Hanger for Wood Doors #36	\$40.50

## BRACKETS

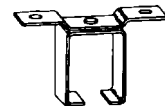
### >Single Side Bracket #1-301:

Used for face mounted applications requiring a single run of Track #301. The front of the bracket pivots outward, allowing for easy installation of the Door Track #301. Attaches with a 3/8" hex head bolt with a washer and nut for most applications.



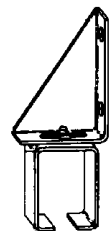
### >Single Ceiling Bracket #3-301:

Used for ceiling mounted application requiring a single run of Track #301.



### >Single Corrugated Metal Bracket #7-301:

Typ cally used on buildings with corrugated metal siding. This bracket is designed to be installed between siding ribs. Slot adjustment allows track to clear ribs up to 1-1/4" high. The triangular bracket provides support for a custom fabricated watershed cover, when required.



Catalog #	Description	Pair Price
017-611-301	Sngl Side Bracket, #1-301	\$6.20
017-613-301	Sngl Ceiling Bracket, #3-301*	\$9.53
017-617-301	Sngl Corrugated Metal Bracket, #7-301*	\$13.86

\*Special order items -drop shipped direct from the factory. Minimum: \$100.00.

# Trac-Rite® Doors



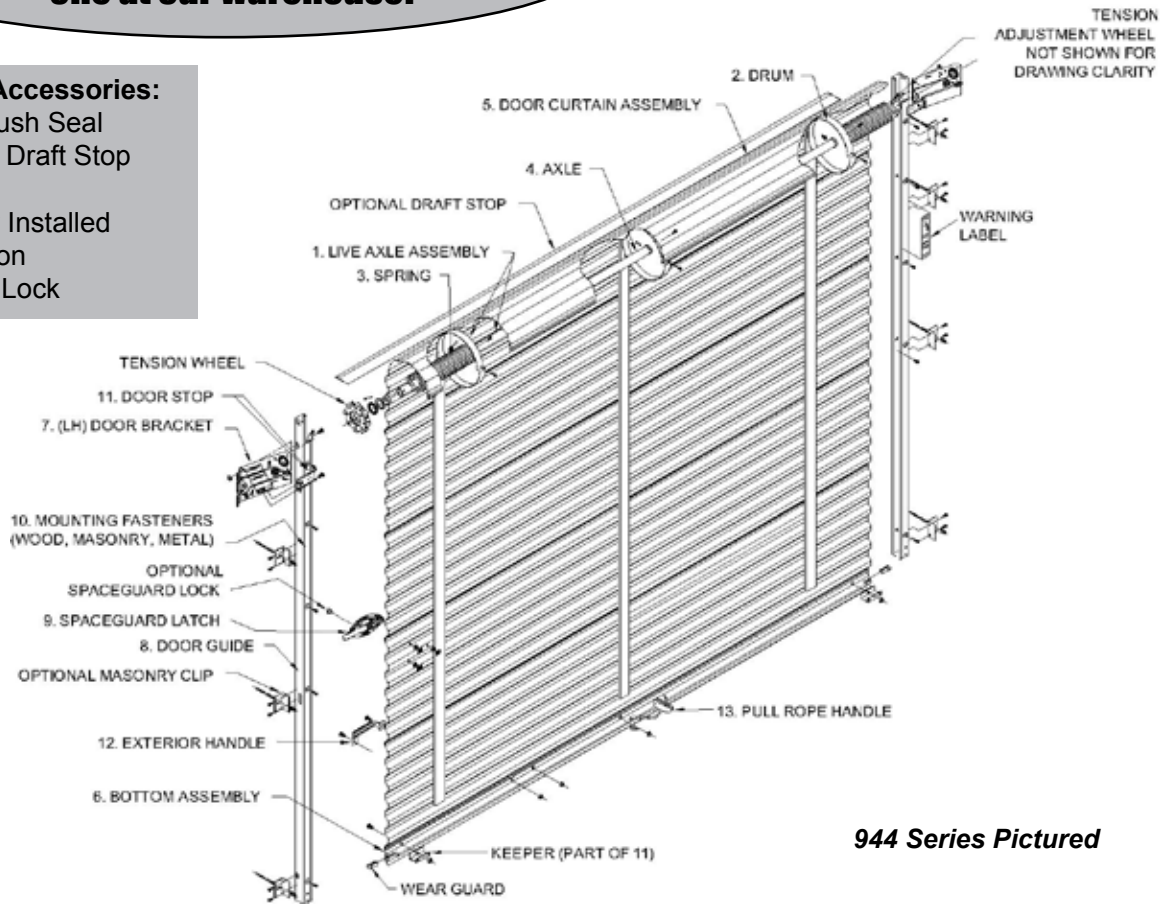
**So EASY to install, we installed one at our warehouse!**

**- Minimal Lead Time -  
Call us for a quote  
TODAY!**

- Easy installation
- Low maintenance
- Rust-resistant
- Smooth, quiet operation
- Available for most any door opening with custom sizes up to 16 feet.
- 10-year EP3 Spring Warranty
- Space guard security latch
- Eleven standard prefinished colors

**Optional Accessories:**

- Jam Brush Seal
- Header Draft Stop
- Hood
- Factory Installed Insulation
- Interior Lock

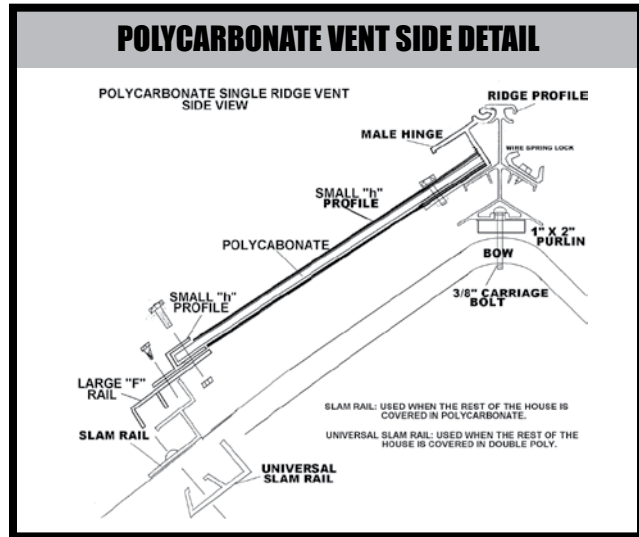
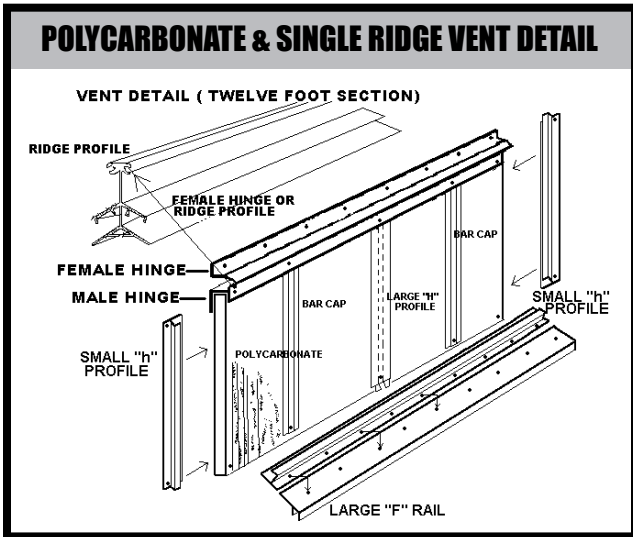


**944 Series Pictured**

# NATURAL VENTILATION!



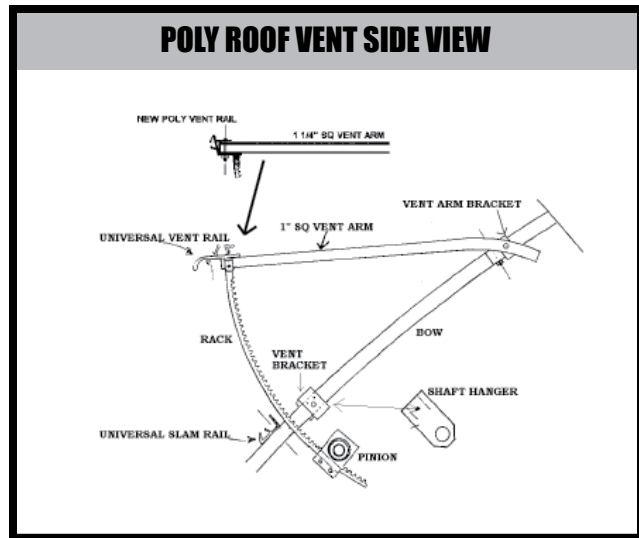
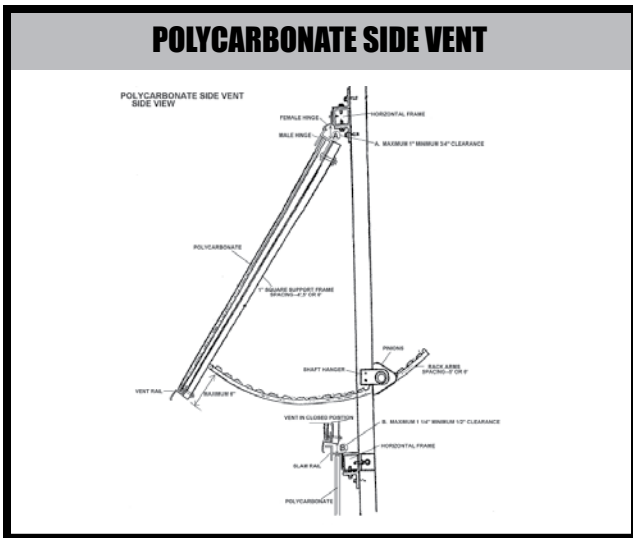
## E-zzy Grower Roof & Rigid Side Vents



- KIT INCLUDES:**
- Rigid aluminum frame extrusions
  - Hardware
  - Instructions

Our E-zzy Grower Vents can be adapted to most structures and work great for replacement of old worn out vents. Made with heavy duty aluminum extrusions and covered with polycarbonate. Our vents will give years of troublefree use. The Ridge Vent is used to allow warm air to rise out through the top of the greenhouse, while cool air comes in through the Side Vent. Both styles are available in custom lengths and widths.

**Call us for your CUSTOM VENT QUICK QUOTE!**





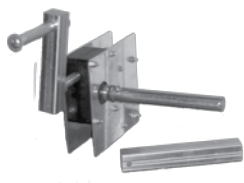
# E-zy Grower Poly Roll-Up Vents



The E-ZY Grower Roll-up Vent is an economical way of providing seasonal ventilation for both Free-standing and Gutter-connected houses. The design incorporates a manual gear box with brake and locks, which rolls along a fixed guide at one end of the building and a guided bearing installed at the far end. Poly sheeting rolls up and down on a steel roll tube along side the structure at desired length.

**COMPLETE KITS INCLUDE:** Base Unit of Guide Box and Gearbox, Crank Handle, 6' Guide Post, 500' Black Web Tape, Double Quick Lock with Male Insert, and your choice of roll tube.

Complete Roll-Up Vent with E-ZY Roll Tube	Price/Side
48' Length	\$531.48
96' Length	\$848.78
144' Length	\$1,166.08
Complete Roll-Up Vent with Swedged Roll Tube	Price/Side
48' Length with Aluminum Lath attachment	\$524.04
96' Length with Aluminum Lath attachment	\$836.29
144' Length with Aluminum Lath attachment	\$1,149.05



### E-zy Gear Box with Crank Handle:

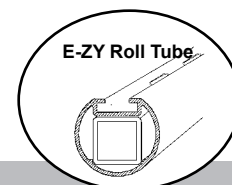
Our fabricated unit offers user a 10:1 turn ratio for ease of rolling. Specify if using with standard swedge pipe or our E-zy Roll Tube for correct splice connector. Fits 1.315 guide pipe.



### Kankit 104:

Quickly cranks roll-up vent with 4:1 turn ratio. Distinctive green plastic housing fits on 3/4" guide post.

ROLL-UP VENT BASE UNIT (SPECIFY 10:1 OR 4:1 GEAR BOX)		1 - 4	5 - 9
Includes: Gear Box with Crank Handle, Guide Box, Guide Posts, & Hardware <i>*Specify if you have straight or curved greenhouse side walls.</i>		\$190.00	\$180.00
PARTS LIST:			
Catalog #	Item #	Description	Each
012-403-301	RVM301	Gear Box w/ Crank Handle (*specify tube splice adapter)	\$125.00
012-010-104	104	Kankit Gear Box w/ Crank Handle	\$125.00
012-403-303	RVM303	Guide Box	\$35.00
012-403-304	RVM304	Crank Handle (for E-zy Gear Box)	\$5.95
014-544-243	RVM319	6' Guide Post, 1.315 18ga	\$8.58
012-403-321	RVM321	Guide Post L - Bracket	\$2.00
012-403-322	RVM322	Swedged Roll Tube, 1.315 14 gauge - 20'	\$40.71
012-403-317	RVM317	Swedged Tube Adapter	\$3.16
012-403-323	RVM323	Poly Vent Clips Opyon (to secure poly on swedge roll tube)	\$0.30
013-091-193	-----	Aluminum Lath 16"1"	\$8.05
013-871-144	-----	E-ZY Roll Tube 12' (Complete Kit - Roll Tube, Wire Spring Insert, & Splice)	\$31.40
013-871-288	-----	E-ZY Roll Tube 24' (Complete Kit - Roll Tube, Wire Spring Insert, & Splice)	\$61.22
028-997-550	-----	Black Web Tape 500 ft.	\$16.45
017-111-075	-----	#10 x 3/4" Tek Screws for Lath	\$0.06
<i>*Round Splice for Swedged Roll Tube, Square Splice for E-zy Roll Tube.</i>			



### ROLL TUBE CHOICES:

- 1) E-ZY Roll Tube has built-in spring lock track to easily secure poly to tube with zig-zagging wire insert. Connector is supplied to join tube pieces end to end for desired vent length.
- 2) Swedged Roll Tube is 14-gauge steel swedged at the ends to join pieces end to end for desired vent length. Poly is attached with economical poly vent clips or Aluminum lath may be tek screwed as a cap over poly.

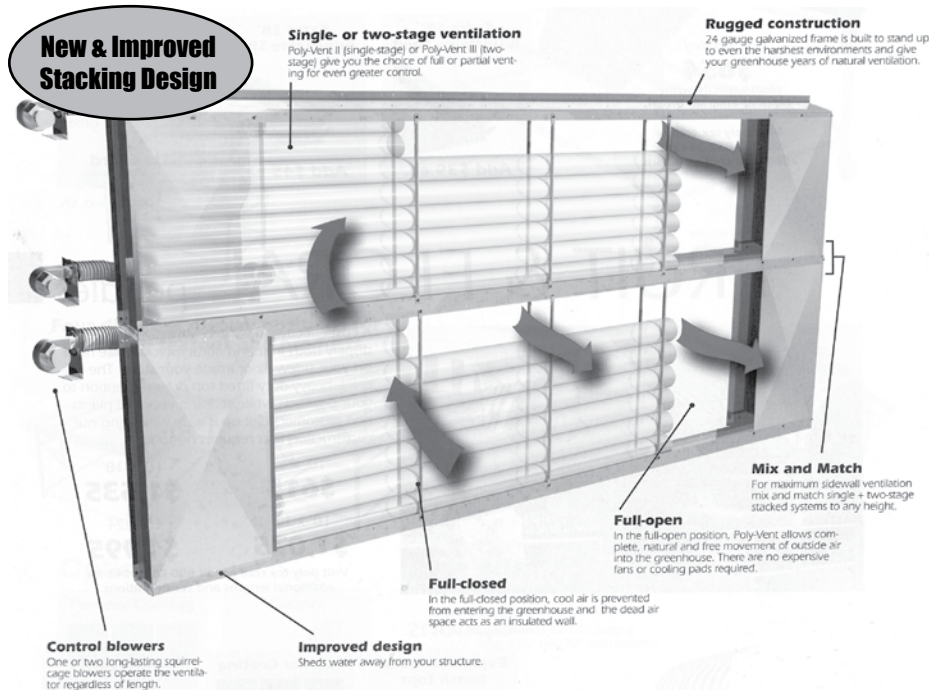




# Poly-Vent™

**F.O.B. MN**  
Special Order  
(Drop Ship Only)

## NATURAL VENTING SYSTEM



Poly-Vent is an alternative to rack & pinion vents. It has no moving parts except for small blowers. It provides an air-tight seal on both the top and bottom for the full length of the greenhouse. It can be thermostatically controlled (optional) and acts as an insulator with it's dead air space when fully inflated. The easy to install frame can be retrofitted on existing structures. Available in 24", 36", 48", and 60" height.

### POLY-VENT II (SINGLE STAGE)

**Base Frame Includes:** Poly-Vent II, top and bottom 24 gauge galvanized Poly-Vent gutter, galvanized front/rear guides and hardware.  
**Stacking Frame Includes:** Poly-Vent II, top and 24 gauge galvanized Poly-Vent gutter, galvanized front/rear guides and hardware.  
**End Package Includes:** Sheet metal enclosures for both ends of frame, one blower to inflate Poly-Vent II, blower mount, one 3" diameter flex tube, air transfer gaskets and all hardware.

	Base Frame		Stacking Frame		End Package	
Size	Part #	Price/Lineal Ft.	Part #	Price	Part #	Price
24"	PV7022	\$7.10	PV7122	\$5.80	PV8022	\$135.00
36"	PV7032	\$7.70	PV7132	\$6.70	PV8032	\$140.00
48"	PV7042	\$8.25	PV7142	\$7.70	PV8042	\$150.00
60"	PV7052	\$9.20	PV7152	\$8.50	PV8052	\$155.00

### POLY-VENT III (TWO STAGE)

**Base Frame Includes:** Poly-Vent III, top and bottom 24 gauge galvanized Poly-Vent gutter, galvanized front/rear guides and hardware.  
**Stacking Frame Includes:** Poly-Vent III, top and 24 gauge galvanized Poly-Vent gutter, galvanized front/rear guides and hardware.  
**End Package Includes:** Sheet metal enclosures for both ends of frame, two blowers to inflate Poly-Vent III, blower mounts, two 3" diameter flex tubes, air transfer gaskets and all hardware.

	Base Frame		Stacking Frame		End Package	
Size	Part #	Price/Lineal Ft.	Part #	Price	Part #	Price
36"	PV7033	\$8.15	PV7133	\$6.90	PV8033	\$215.00
48"	PV7043	\$8.85	PV7143	\$7.90	PV8043	\$225.00
60"	PV7053	\$9.65	PV7153	\$8.70	PV8053	\$235.00

NOTE: FRAME MUST BE PURCHASED IN TWO FOOT INCREMENTS. POLY-VENT PLASTIC CAN BE CUSTOM CUT TO ANY SIZE.

### REPLACEMENT POLY-VENT PLASTIC

Size	Poly-Vent II part #	Poly-Vent III part #	Price/Lineal Ft.
24"	PV3500		\$1.60
36"	PV3502	PV3532	\$2.05
48"	PV3504	PV3534	\$2.40
60"	PV3506	PV3536	\$3.05

\$10 cut charge if less than stock roll. \$25 to cut and seal both ends.

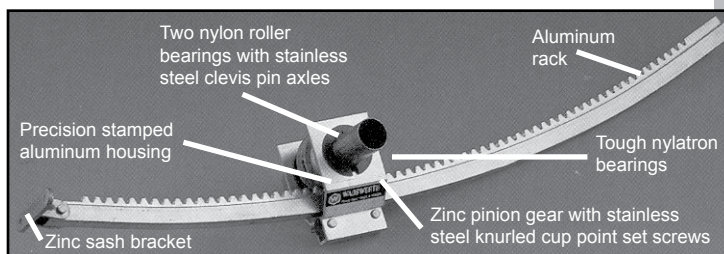
# PowerRack™ rack & pinion package

## CAN YOU SEE THE DIFFERENCE?

Successful growers can. It's the unrivaled quality built into every PowerRack™ rack and pinion. While some rack arms are dry cut, the teeth on Wadsworth's PowerRack™ arms are cut under an oil bath to minimize sharp edges and assure smooth operation. The holes in the pinion housing are punched with a precision stamping tool to maintain exact spacing. All clevis pins, cotterpins and set screws are made from quality stainless steel.

## WHY CURVED?

The curved PowerRack™ rack & pinion is designed to give additional clearance (54" radius) when space is tight. When a straight rack might interfere with a curtain or aisle, growers find the curved rack to be the answer!



CURVED POWERRACK™ MOUNTED ON GREENHOUSE WITH VENT IN A PARTIALLY OPENED POSITION.

## POWERRACK™ FEATURES:

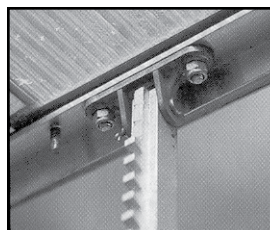
- Wide load-bearing surfaces.
- Replaceable Parts: Every part is replaceable using ordinary hand tools.
- Freedom from corrosion: Aluminum rack and housing, zinc pinion gear, tough nylon bearings.
- Easy alignment: Rack works even when it's not perfectly square with vent.
- Economically priced.

### PowerRack Packages:

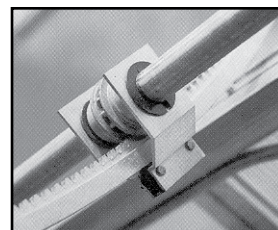
Complete with rack, pinion with housing and sash bracket

Item # 1-3/8"	Item # 1-5/8"	STRAIGHT RACK	Price
M-2636	M-2736	36" PowerRack Package w/ straight rack	\$22.20
M-2642	M-2742	42" PowerRack Package w/ straight rack	\$23.29
M-2648	M-2748	48" PowerRack Package w/ straight rack	\$25.30
M-2653	M-2753	53" PowerRack Package w/ straight rack	\$25.59
M-2666	M-2766	66" PowerRack Package w/ straight rack	\$27.03
M-2672	M-2772	72" PowerRack Package w/ straight rack	\$28.17
Item # 1-3/8"	Item # 1-5/8"	CURVED RACK	Price
M-2836	M-2936	36" PowerRack Package w/ curved rack	\$23.00
M-2842	M-2942	42" PowerRack Package w/ curved rack	\$24.16
M-2848	M-2948	48" PowerRack Package w/ curved rack	\$26.16
M-2853	M-2953	53" PowerRack Package w/ curved rack	\$26.16
M-2866	M-2966	66" PowerRack Package w/ curved rack	\$28.17
M-2872	M-2972	72" PowerRack Package w/ curved rack	\$28.76

All PowerRack Packages are special ordered, please allow ample time for delivery. 1-5/8" Shaft Opening (1.66 tubing) is also available, please request when ordering. All prices are FOB Arvada CO.



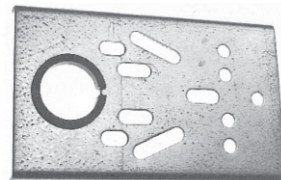
CLOSEUP OF MOUNTED POWERRACK™ SASH BRACKET



CLOSEUP OF MOUNTED POWERRACK™

## Shaft Hangers

Used to hold roll tube shaft on rack and pinion vent systems. Place every 4-6 foot.



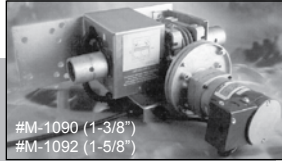
Available in 2 sizes: 1-3/8" and 1-5/8".

Catalog#	Description	Price
012-130-016	Shaft Hanger, (for 1.315 OD)	\$3.87 ea
012-110-006	#S2806 Universal Shaft Hanger, 1-3/8"	\$3.87 ea
012-110-008	#S2808 Universal Shaft Hanger, 1-5/8"	\$3.87 ea



# Vent Control Systems

## VC-100A Vent Drive

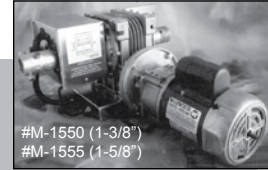


### FEATURES

- 1/20 Horsepower - TENV, Continuous Duty
- 115 Volt - 60 Hz - .68 amp
- 1600 RPM motor; Total gear reduction 1900:1; Final output .84 RPM
- Output torque 500 in. lb./56 Nm
- Lifts up to 75' of 4' polycarbonate roof ridge vent or 125' of 4' polycarbonate side vent
- Thermal overload protection - automatic reset
- Quick reversing
- Adjustable torque limit switch assembly
- Output gear reducer: worm gear with tapered roller bearing on output shaft immersed in synthetic grease
- Dual output shaft

#M-1090 (1-3/8")  
#M-1092 (1-5/8")

## VC- 2000 Vent Drive



### FEATURES

- 1/20 Horsepower - TENV, Continuous Duty
- 115 Volt - 60 Hz - 2.5amp
- 1600 RPM motor; Total gear reduction 550:1; Final output 3 RPM
- Output torque 1500 in. lb./169 Nm
- Lifts up to 325' of 4' polycarbonate roof ridge vent or 400' of 4' polycarbonate side vent
- Thermal overload protection - automatic reset
- Quick reversing
- Adjustable torque limit switch assembly
- Output gear reducer: worm gear with tapered roller bearing on output shaft immersed in synthetic grease
- Dual output shaft

#M-1550 (1-3/8")  
#M-1555 (1-5/8")

## STEP Up Control™



### FEATURES

- 6 Stages: 2 stages of heating and 4 stages of cooling - Easily adjust the temp for each stage
- 3 set point temp periods - day, night, DIF; auto adjusts based on sunrise and sunset
- Modulates vents and curtains
- 1 analog output (0 to 10DC or 4-20 milliamps) to control variable-speed fans and modulating valves
- Cycle timer
- Alarm output
- Password protection
- Easy to use knob and button interface
- Large menu-driven screen displays current temp, time, date, grow weeks, equipment status, etc.
- Records the temp in 15-minute increments and stores it for 7 days
- Logs and graphs data
- High, low and average temperatures
- Timed override switches in addition to the manual override toggle switches
- Stores settings in the event of a power failure
- Optional humidity sensor
- Durable corrosion-resistant cabinet: 9.5" x 6.25" x 3.75"

#M-5000

## STEP 50A™ Control



### FEATURES

- 5 Stages: 2 stages of heating and 3 stages of cooling
- Day and night temp settings - simply turn the two knobs to indicate the desired temps
- Controls most heating and cooling equipment
- Energy savings through programmable lockout of stages
- Modulating output voltage for proportional steam and hot water valves
- Equipment comes on gradually after a power failure
- Color-coded manual override toggle switches
- Replaceable 10 amp DPDT load relays, can operate a wide variety of equipment - these relays reduce the cost of your contactor panel
- Durable corrosion-resistant cabinet with locking door protects your control : 16" x 16" x 5"
- Solar-guarded aspirated temperature sensor and 100' of cable

#M-4010

## MiniSTEP™ Control



### FEATURES

- 1 stage of heat
- 3 stages of cooling
- LCD display of current temperature, mode and output status
- Keypad provides easy operation
- Set point range: -40° to 220° F
- Durable corrosion-resistant cabinet: 16" x 14" x 6"

#M-4000

## 4-Stage Control



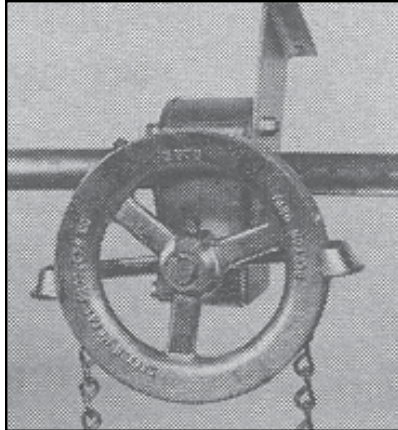
### FEATURES

- 4 stages of heating or cooling
- Solar-shielded temperature sensor with 75' of shielded cable
- LCD screen displays current temperature, mode and output status
- Keypad provides easy operation
- Fahrenheit or Celsius scale
- NEMA 4 enclosure, 9" x 5.5" x 3"

#S-1608

**CALL FOR CURRENT PRICING. ALL PRICES ARE F.O.B. ARVADA, CO**

# Dayton Ventilating Machines for Rack & Pinion Arms



**HOW IT WORKS:**

Chain wheel is attached to gear box and has a groove that the chain rests in. When you pull on chain, the wheel turns gear box which turns the shaft, easily opening the vent. Chain is held in place in the wheel groove by using the chain guard.

**ROOF VENTILATING MACHINES**

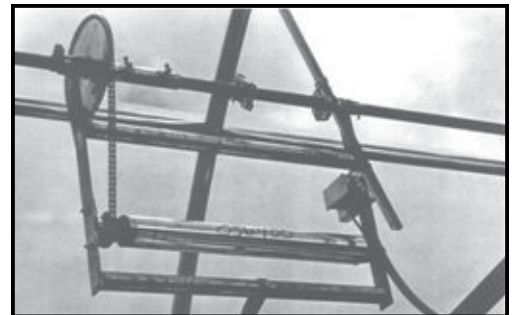
Since rack and pinion arms develop very little torque, these vent machines can be used to easily open and close roof vents. Mounted on the end of the shaft the #1400 Roof Ventilating Machine can lift up to 100 foot of vent and the #1800 Roof Ventilating Machine is used to lift vents over 100' long. Units sold with gear box and mounting plate. Order all other components to meet your specific needs.

Catalog #	Item #	Roof Unit for Vents UNDER 100' long	Weight	Price
012-107-114	1400	Roof Vent Machine Gear Box & mounting plate	16 lbs	\$301.25
012-143-031	303E	Chain Wheel 8"	2 lbs	\$70.00
012-143-032	303D	Chain Guide - holds chain against wheel	0.4 lbs	\$20.00
012-003-000	n/a	Chain Only	0.3 lbs/ft	\$1.67/ft
Catalog #	Item #	Roof Unit for Vents OVER 100' long	Weight	Price
012-107-118	1800	Roof Vent Machine Gear Box & mounting plate	27 lbs	\$373.75
012-147-001	700G	Chain Wheel 11"	10 lbs	\$77.14
012-147-002	700F	Chain Guide	0.5 lbs	\$28.33
012-003-000	n/a	Chain Only	0.3 lbs/ft	\$1.67/ft

FOB New Carlisle, OHIO

# The Hawk Automated Controller for Roof & Side Roll-Up Vents

The Hawk Controller is unique in design as it operates on both temperature and time, which eliminates constant opening and closing. The Hawk Controller gives you complete control, allowing you to set at what temperatures the vent will open and for how long. The Hawk controller is very accurate, opening the vent from one inch to six foot and will stay open for the amount of time you specify. The program may be easily changed to meet your needs throughout the season.



**MOTOR**

- Self contained
- Weather resistant seals
- Electric brakes included
- 2 year warranty
- Uses only 3 amps
- 110 volt thermally protected motor

**CONTROLLER**

- 110 volt or 220 volt
- Celsius or Fahrenheit
- Digital readout controller
- Accurate to one-tenth of one degree
- Manual over-ride switches
- May extend sensor up to 500'

- The Roll-Up motor will operate up to 300' on either curved or flat walls.
- The Roof Vent motor will operate up to 250' of vent.

Catalog #	Description	Price*
012-160-102	Roll-Up Vent Operator	\$555.00
012-160-101	Roof Vent Operator	\$820.00
012-160-100	Controller	\$296.50

\*F.O.B. MFG

Saving Energy Just Makes Good Sense!

## Aluminum Manual Roof and Gable Vent System



**EASY TO INSTALL  
EASY ON YOUR BUDGET**

**2 Vents  
for \$587.00**

(\$293.50 each)

sold by case of 2 minimum

#012-012-459

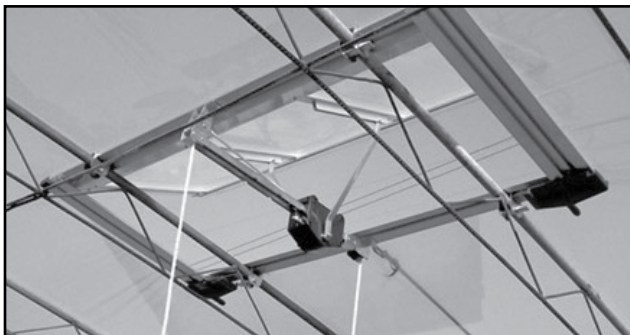
The 24" x 59" poly covered Aluminum Manual Roof and Gable Vent is easy to install for fall, winter and spring ventilation. Simple inside attachment with bow clamp. Once installed, trim away poly for fully operational manual vent.

**Specify 1-5/8" or 1-3/8" bow clamp size with order.**

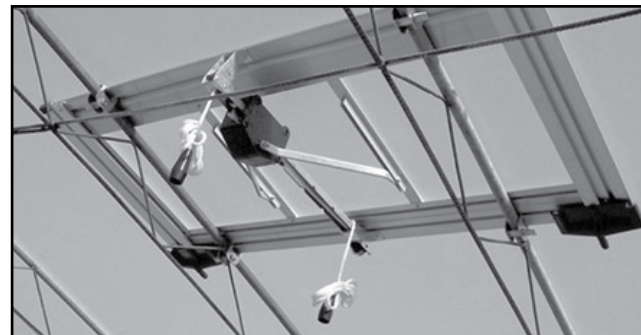
Also, when combined with our E-z-y Grower Roll-Up Vents (page 18) it provides chimney ventilation, drawing the air in from the sides of the greenhouse by releasing hot air in the roof of the greenhouse. Four vents per 96' long greenhouse are recommended.



VIEW OF VENT OPEN FROM INSIDE OF GREENHOUSE



VIEW OF VENT OPEN FROM INSIDE OF GREENHOUSE



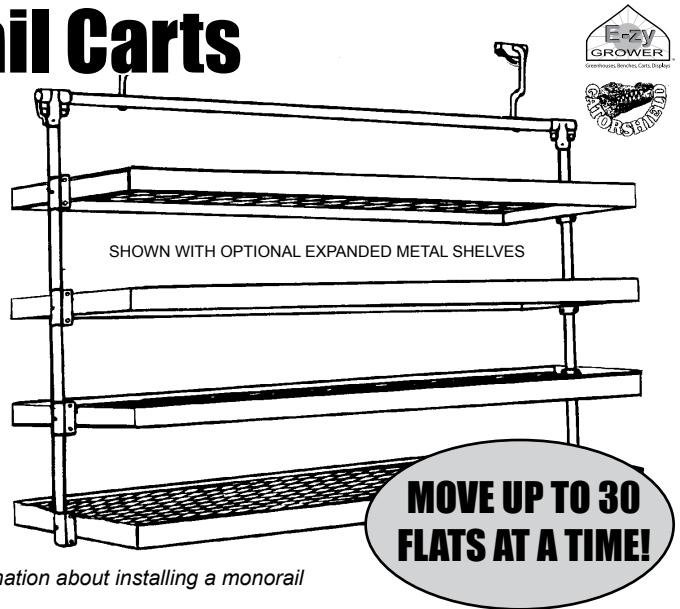
VIEW OF VENT CLOSED FROM INSIDE OF GREENHOUSE

# E-ZY Grower Monorail Carts

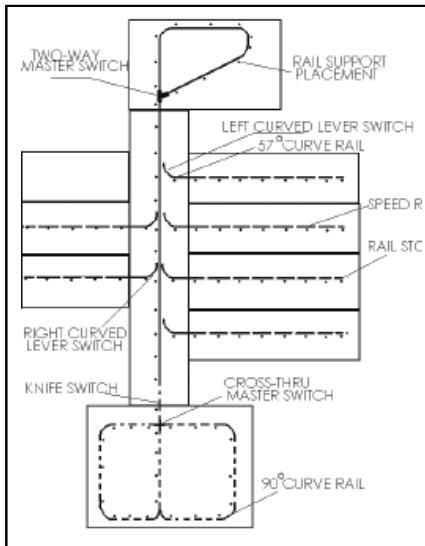
The E-zy Grower Monorail Carts are designed for use where aisles are too narrow or floors are too rough and uneven for normal carts. Our Monorail carts glide easily on overhead pipes called speed rails. The speed rails are attached overhead with rail supports and can be installed throughout your greenhouses, saving you valuable time and energy!

Each Cart measures 18" wide x 5½' long (inside measurement) and will hold six Standard (10.5" x 21") or True-line (10" x 20") flats per shelf. This means you can easily move up to 30 flats at a time using our five shelf Monorail Cart! Plus the cart glides so smoothly along the speed rails that you can move several arm full loads of potted plants at one time and the pots won't tip over! There are many components listed on the next few pages for you to design a Monorail system to fit your needs. Use the sample layout diagram as a guide.

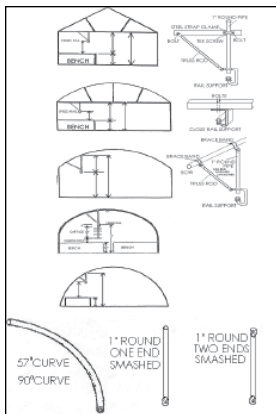
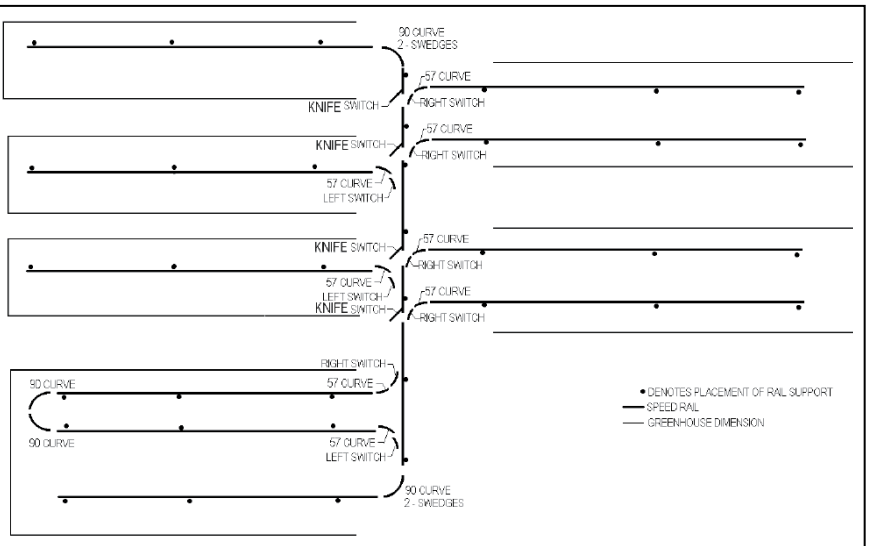
*Need Assistance? We're here to help. Call us today for more information about installing a monorail system in your greenhouses. Your feet will thank you!*



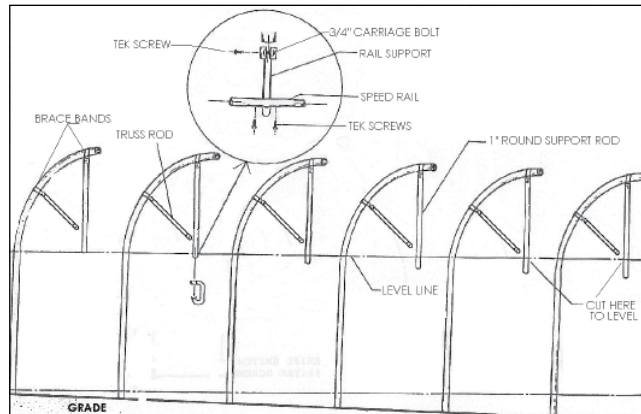
**Typical Monorail System Layout #1:**



**Typical Monorail System Layout #2:**



**Shown: Use of Assembly Parts listed on following pages**



**Shown: Use of Assembly Parts on Monorail System within Greenhouse**

# Monorail System Assembly Parts

## Lever Switches & Drop-Off Switches

NEED 57° CURVE RAIL  
FOR 90° CURVE



SHOWN: CURVED LEVER SWITCH

### >CURVED Lever Switches (2-way switch)

Manually activated and de-activated, this two-way switch is used for diverting to and from main line to spur line. Locking actions holds switch in upper or lower position. Machined steel hardened for long life. Zinc plated.

### >CURVED Drop-Off Switches (1-way switch)

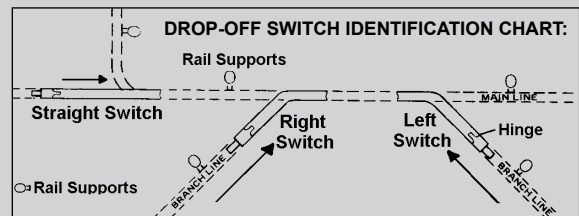
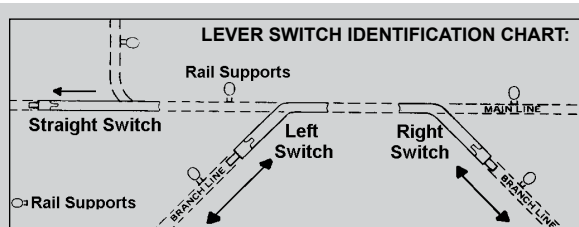
Designed for moving trolleys from spur line onto main line. Switch, automatically depressed by trolley, springs back after trolley passage. Machined steel. Zinc plated.

### >STRAIGHT Lever Switches (2-way switch)

Manually activated and de-activated. This straight lever switch is used for moving trolleys to and from a straight line at a curve in a main line. Locking action holds switch in upper or lower position. Zinc plated.

### >STRAIGHT Drop-Off Switches (1-way switch)

For moving trolleys from branch line onto main line at curve in main line. Activated by the trolley, it springs back automatically after trolley passage. Machined steel. Zinc plated.



NOTE: LEVER SWITCHES ARE OPPOSITE OF DROP OFF SWITCHES

1-5/16" Switches (1.66 tubing) are available as a special order, please request when ordering. Allow ample time for delivery.

## Master Switches (cross-thru manual)

For crossing through two intersecting lines. Center section rotates manually 90° between two rail directions.

Provided with anti-derailing bracket on open line. Spring loaded rotation lock. Modular construction allows for easy support orientation changes in field. All steel construction. Painted.

1-5/16" Switches (1.66 tubing) are available as a special order, please request when ordering. Allow ample time for delivery.

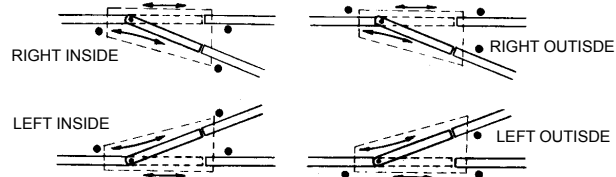
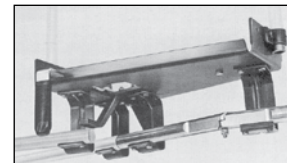


## Master Switches (two-way manual)

Designed for switching the flow between main line and branch lines. Solid steel frame construction that eliminates deflection and maintains rail alignment. Simple installation.

Delivered with clamps for fastening to suspension pipes. Built-in trolley stops effectively block open rail.

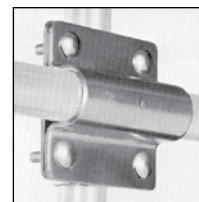
1-5/16" Switches (1.66 tubing) are available as a special order, please request when ordering. Allow ample time for delivery.



## Steel Cross Brace Clamps

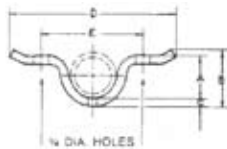
Clamp two pipes across each other with this steel cross-brace clamp. The clamp's two halves clamp around pipes, going straight through, which eliminates any cutting. Used for bracing or suspending uprights, headers, suspensions and braces. Made from 10 gauge SAE C-1010 steel, clamps are also zinc plated. Bolts and non-slip nuts can be supplied.

**PLEASE NOTE: FOR ALUMINUM CROSS BRACE CLAMPS; SEE 'BUILDING MATERIALS' SECTION**



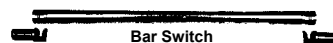
## Strap Clamps

A heavy duty steel clamp used for strapping 3/4" pipe or 1-1/16" (1.315) diameter tubing to beams, angles and other structures. Painted.



Part #	Dimensions					Load Cap.	Wt/100 Pieces
	A	B	C	D	E		
2111	15/16"	1-1/4"	3/16"	3-5/8"	2-1/4"	500 lbs	50 lbs

## Removable Bar & Knife Switches



Bar Switch



Knife Switch

The Knife Switch is a hinged fitting that can be raised up to break rail line at doors, crossings and truck loading docks. Standard pipe length 20", other lengths are available.

The Removable Bar Switch is used in the same manner as the Knife Switch, except that it is completely removed from the connecting rails. Standard length: 24", other lengths available.

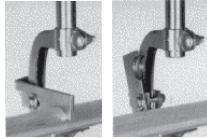
# STRUCTURES

# MONORAIL SYSTEMS

## Monorail Assembly Parts

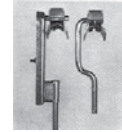
### Rail Stops (for rail supports)

Used to stop and collect trolleys or hangers on rails at desired points.



Part #	Tube Size	Dimensions						Wt/100 Pcs	Pcs/ Carton
		A	B	C	D	E	F		
101	1-5/16"	4-7/8"	1-1/8"	1"	1-3/4"	1/4"	1/2"	62 lbs	100

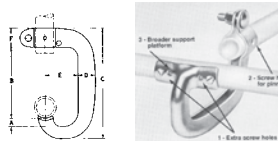
### Trolley Heads



Two wheel trolley head:  
1" wide steel wheels

### Rail Supports

Designed for 3/4" pipe drop used with 1-5/16" (1.315) rail tubing.



Part #	Size I.P.S.	Dimensions						Load Cap.	Mat'l	Wt/100 Pcs
		A	B	C	D	E	F			
0030	3/4"	1/2"	4-1/4"	6-5/8"	1"	2"	1-1/8"	750 lbs	Steel	80 lbs

### Close Rail Supports

This Close Rail Support bolts directly to angle iron, underside of beams and door frames. Used where other pipe suspensions are not practical.



Part #	Dimensions					Load Cap.	Mat'l	Wt/ 100 Pcs
	A	B	C	D	E			
2103	1/2"	1-15/16"	5-3/8"	2-11/16"	3/16"	500 lbs	Steel	160 lbs

### Speed Rail & Speed Curves

**SPEED RAIL:** Tubing swedged on one end used as rail for monorail cart to travel on.

1.315, 14 gauge galvanized steel.

**SPEED CURVE:** 1.315, 14 gauge galvanized steel tubing. Length: 6' long, swedged on one end. Use one 57° curve w/ curved switches to give a 90° turn.



### Single Arm Brackets

Uses U-Bolt to lock any type of upright support without slipping.



Part #	Size	I.P.S.	Dimensions						Wt. per 100 Pcs.
			A	B	C	D	E	F	
2401	1"	1-7/8"	1/2"	7-1/4"	1-3/4"	9"	1-5/16"	235 lbs.	
2402	1"	1-7/8"	1/2"	10-1/4"	1-3/4"	12"	1-5/16"	300 lbs.	
2403	1"	1-7/8"	1/2"	11-3/4"	1-3/4"	13-1/2"	1-5/16"	315 lbs.	
2404	1"	2-1/8"	1/2"	13-1/4"	1-3/4"	15"	1-5/16"	335 lbs.	
2405	1-1/4"	1-7/8"	1/2"	10-1/4"	1-3/4"	12"	1-21/32"	305 lbs.	
2406	1-1/4"	1-7/8"	1/2"	11-3/4"	1-3/4"	13-1/2"	1-21/32"	320 lbs.	
2407	1-1/4"	2-1/8"	1/2"	13-1/4"	1-3/4"	15"	1-21/32"	350 lbs.	
2410	2"	2-1/8"	1/2"	13-1/4"	1-3/4"	15"	2-3/8"	370 lbs.	

Catalog #	CARTS	Each
018-036-000	Monorail Cart w/ 3 Shelves	\$213.12
018-040-000	Monorail Cart w/ 4 Shelves	\$254.96
018-050-000	Monorail Cart w/ 5 Shelves	\$296.32

NOTE: Does not include shelf bottoms (Frame Only)

Catalog #	SHELVES & INSERTS	Each
018-026-000	Monorail Shelf Frame Only	\$37.36
020-020-699	Expanded Metal Shelf Inserts - 6' x 2'	\$22.52
029-186-024	Polycarbonate Shelf Inserts - 6' x 2'	\$17.40

Catalog #	SWITCHES	Each
018-502-710	#2710R Right Curved Lever Switch	\$69.45
018-512-710	#2710L Left Curved Lever Switch	\$69.45
018-242-800	#2810R Right Drop-Off Curved Switch	\$79.45
018-452-810	#2810L Left Drop-Off Curved Switch	\$79.45
018-242-900	#2910 Straight Lever Switch	\$79.45
018-242-610	#2610 Straight Drop-Off Switch	\$93.95
018-222-151	#2151 Master Switch, crss thru manual	\$285.00
018-230-201	#2010RI Right Inside Master Switch	\$262.00
018-231-201	#2010LI Left Inside Master Switch	\$262.00
n/a	#2010RO Right Outside Master Switch	\$262.00
n/a	#2010LO Left Outside Master Switch	\$262.00
018-262-000	#2751 Knife Switch (R-7) 20" Long	\$114.50
018-212-851	#2851 Removable Bar Switch - 24" Long	\$181.00

Catalog #	BRACKETS	Each
018-492-401	Single Arm Bracket #2401	\$17.00
018-492-402	Single Arm Bracket #2402	\$17.25
018-492-403	Single Arm Bracket #2403	\$18.50
018-492-404	Single Arm Bracket #2404	\$19.30
018-492-405	Single Arm Bracket #2405	\$17.35
018-492-406	Single Arm Bracket #2406	\$18.50
018-492-407	Single Arm Bracket #2407	\$19.30
018-492-410	Single Arm Bracket #2410	\$19.75

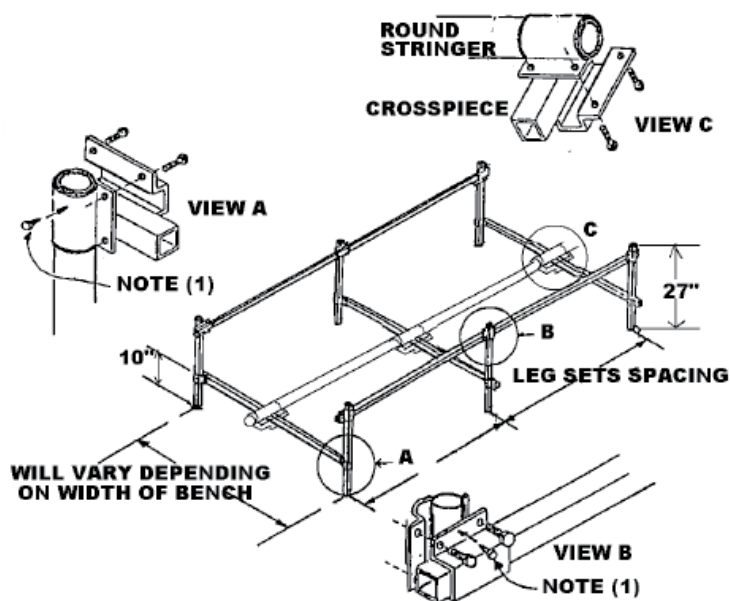
Catalog #	CLAMPS & MORE	Each
018-992-111	#2111 Strap Clamp	\$0.45
018-900-031	Steel Clamp Set #0031	\$7.30
018-900-032	Steel Clamp Set #0032	\$7.30
018-900-033	Steel Clamp Set #0033	\$7.30
018-900-034	Steel Clamp Set #0034	\$7.30
018-900-035	Steel Clamp Set #0035	\$7.30
018-900-136	Steel Clamp Set #0036	\$7.30
018-721-000	#C15540 Two Wheel Trolley Head	\$22.10
018-800-300	Rail Support #C00300	\$4.25
018-881-010	Rail Stop #1010	\$21.50
018-882-103	Close Rail Support #2103	\$6.35
018-545-000	45 degree Speed Curve	\$17.00
018-557-000	57 degree Speed Curve	\$17.00
018-590-000	90 degree Speed Curve	\$19.00



## E-z-y Grower Bench Frame



Adding benches to your house is an effective way to maximize growing area without adding additional structures. The benches can be set in concrete or placed above ground on a solid foundation. Leg sets are made of 14 gauge steel tubing. Bench framing is made of aluminum "F" rail around the perimeter, connected every 2' with a 1" sq. piece of steel tubing or a 1½" aluminum "I" beam depending on the type of "F" rail selected. Hot dip galvanized, 13 gauge expanded metal is used to finish the bench tops. E-z-y Grower benches are made of the best materials available and are designed for easy assembly...



(1) AFTER IMPORTANT LEVELING OF FRAMEWORK, INSTALL A #10 X 3/4" TEK SCREW TO LOCK FRAME IN PLACE.

### Advantages Offered Over The Competition:

- Bench top cross pieces are 1' x 1' and 1' x 2' 16 gauge steel; not 18 gauge as many.
- We use 1' x 2' rectangular steel where ends of expanded metal join for easier more positive support.
- Rollers are 14 gauge steel 1-3/8" not 16 or 17 gauge that others use or 1-1/4" diameter, which in time becomes egg shaped. Option of using 1-3/8" diameter is offered for extra long benches or benches that are heavily loaded.
- For retail use we offer optional attractive high density polyethylene rounded corners.
- We use round tubing for legs for easier installation.

Choose the options you need and call for your customized quotation today!

- Rolling or Stationary
- Bench width of 3', 4', 5', 5½', 6', or 6½'
- Legs set in concrete or on solid foundation
- Lengths divisible by 6' or 8' are standard, other lengths are considered custom.
- Steel Corner splices or PVC corners.

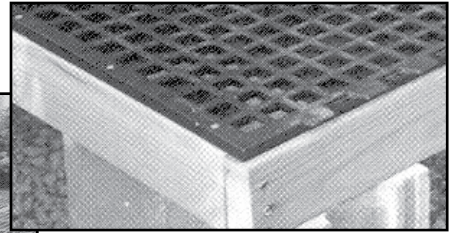
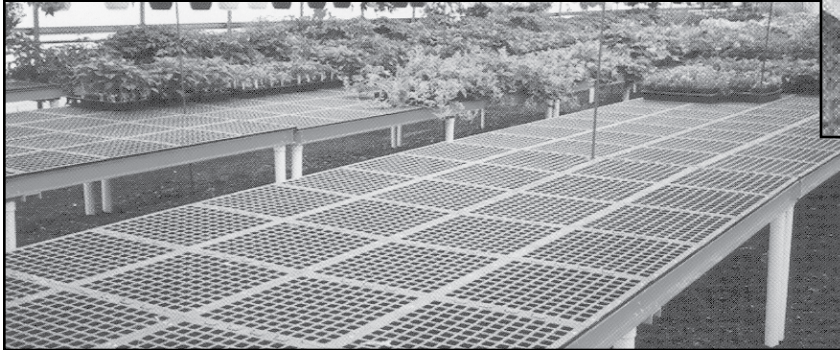
## Expanded Metal Sheets for Bench Tops



- Continuous Air Flow - Reduces fungus by allowing unrestricted air passage.
- Extra Long Life - Hot dip galvanized zinc coating after expansion. This is the best available and will greatly outlast cheaper grades that are galvanized before expansion.
- Drainage - 76% open area allows easy drainage.
- Strong - 13 gauge allows pots to sit level.
- No maintenance - Soil and water drop right through the bench - eliminating weed, soil, and water accumulation.
- Light Weight - 94 lb. per hundred square feet.
- Low Cost - You'll find this bench to be more economical than most bench material now used.

- **Only \$1.35 per sq.ft!**
- **Sizes: 6' or 8' stock lengths**  
in 4', 5', 5.5', 6', 6.5' widths

# A-V Lifetime Benches



A-V frames are stronger, lighter and more durable than wood. The 20,000 psi UV protected, fiberglass material resists weathering and will not rust or decay. Many standard sizes are available, custom sizes by request.

A.V. Lifetime Bench is a SPECIAL ORDER item, shipped direct from the factory. Please allow ample time for delivery. F.O.B. VA.

**Assembly:** Listed benches are shipped UNASSEMBLED. Assembled units are available, call for pricing.

**Legs:** Benches without legs DO NOT include: Legs, Leg Sockets, or Leg Hardware. Leg bracing is available @ \$14/Bench (recommended where heavy loading may occur).

**Splice Kits:** Recommended - 18"-54" wide benches (2 kits per seam). Above 54" wide - use 3 kits per seam.

**Splice Kits = \$2.50 each**

UNASSEMBLED BENCH					
Item #	Size	# of Legs	W/out Legs	Fixed Legs	Removeable Legs
BT24096	2' x 8'	6	\$108.00	\$157.50	\$157.50
BT48096	4' x 8'	6	\$147.00	\$196.50	\$196.50
BT72096	6' x 8'	6	\$210.00	\$259.50	\$259.50
BT96096	8' x 8'	9	\$289.00	\$363.25	\$363.25

# E-zy Stack Display Bench

Add an instant display anywhere with our quick set stackable benches. Sturdy yet elegant design with clear glass-look top, accents your mixed containers, baskets and tie in products for added impulse sales. E-zy Assembly.

Width x Length	Price
1' x 4'	\$73.00
1' x 6'	\$81.00
2' x 4'	\$98.00
2' x 6'	\$110.00
3' x 4'	\$123.00
3' x 6'	\$139.00
4' x 4'	\$148.00
4' x 6'	\$167.00

**Leg Height: 12"**



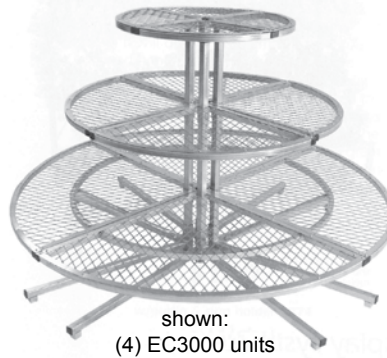
# End Cap Display: EC2000 & EC3000



The new EC2000 (2-tier) and EC3000 (3-tier) end cap displays are the finishing touch to our full line of displays. End caps virtually create another aisle for your customers to shop by making the ends of each regular aisle a showcase to display featured merchandise. Both the EC2000 and EC3000 are versatile displays that can be used in several configurations. They function as a corner unit when used alone or as an end cap display when you use two together. Four units create an eye-catching circular island display.

**Powder Coating available:  
black green or red**

**SPECIFICATIONS:**  
Construction: galvanized steel  
EC2000 base: 50" w x 35" d x 29.5" h  
EC3000 base: 50" w x 35" d x 44" h



shown:  
(4) EC3000 units



**EC3000:  
\$199.00**



**EC2000:  
\$180.00**

# Flex-Bench Display: XB5000



The new XB5000 flex-bench display is a multi-purpose display that changes as much as the seasons and your products. Featuring four different modes, it can display flats, large and small pots, seed, fertilizer, hard goods and anything else you need to show off to your customers. Quick to set up and available with optional casters and powder coating, this display is a true workhorse for your garden center.

**Powder Coating optional: black, green or red (add \$56)**  
**Caster optional: (add \$30)**



shown:  
XB5000  
w/ optional  
casters

**SPECIFICATIONS:**  
Construction: galvanized steel  
Capacity: (14) 1020-style flats  
Base: 47.5" deep x 72.25" long  
x 26" tall (30" with casters)



shown:  
XB5000 w/  
optional casters

**6' Display: \$242.00**

**Four Different  
Display  
Positions for  
Changing  
Seasons and  
Products:**

