



GROWER
TECHNICAL
SALES

PRODUCT CATALOG



Greenhouse Solutions From A
Name You Know and Trust

www.growertechsales.com

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DISCOVER

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GROWER
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ABOUT US



new construction - irrigation design - automation & equipment



The BWI Grower Technical Sales team is made up of trained specialists who work with our customers in the planning and purchasing of custom greenhouse projects, irrigation design, automation and equipment. We work in partnership with our outside sales staff and vendor partners to provide a level of service to our customer that is not only broad in its scope, but deep in its technical expertise.

New Construction

At BWI, we realize that your business is growing plants and not building greenhouses. However, building the right greenhouses with the right features at the right price is an important part of any successful greenhouse operation. That is why we have greenhouse specialists on staff to work with you through the process. We realize that there is no “one size fits all” approach to greenhouse design. Our specialists can work with you through the planning process, put a custom proposal together for you that will meet your needs and then oversee the construction process as one of our qualified greenhouse contractors completes the installation. From start to finish, our number one goal is to do a top quality job and to make sure that you are satisfied with the end product.

Irrigation Design

One of the most important factors in the success of any greenhouse or nursery operation is the quality and availability of water. As a result, the GTS staff includes an irrigation specialist trained by manufacturers of some of the best known and highest quality irrigation products on the market. This means that when you have irrigation problems you can count on us to help you find solutions. Whether you need filtration, fertigation, or total system design, we have the expertise and experience to put a first class system together for you. Also, this level of support is available to you free of charge as a BWI customer. Anyone can sell you irrigation pieces and parts, but GTS sells irrigation systems that provide solutions to your problems.

Automation & Equipment

There has never been a time in the history of our industry that labor has been more of a concern than now. We know that today the question many times is not whether you can find the right kind of worker, but rather, can you find any worker at all. That’s why we have made it our goal to partner with some of the highest quality and most dependable automation and equipment manufacturers in the world. Our equipment specialist and vendor partners can work with you to find ways to do more work with less people. Also, we realize that some times the importance of automation is not solely in the number of workers you replace but instead, in the level of efficiency you gain. And let’s face it; the more efficient you are in your operation the more money you apply to your bottom line. That’s the beauty of well planned automation and that’s the goal of our equipment specialists.



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SALES

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GROWER
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ONLINE

www.growertechnicalsales.com

BWI is proud to announce the release of our new Grower Technical Sales website.

Testimonials | Projects | Resources

Search for products Go ▶

Home About Us Products Services Contact Us

Greenhouse Irrigation Services

Greenhouse Solutions from a Name you Know and Trust

Our GTS team is ready to assist you with your next project. Whether you are constructing a new greenhouse, remodeling an existing one or simply updating equipment and irrigation, our staff has the technical expertise to guide you through the process and help you make the right decisions for your project. From start to finish our goal is to make sure the finished product meets your needs and is something that you will be proud to call your own.

Research & Education Retail Garden Centers Commercial Greenhouses

Product Categories

- [Greenhouses](#)
- [Irrigation](#)
- [Equipment](#)
- [Automation](#)
- [Coverings](#)
- [Chemical Applicators](#)

Contact Us

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Navigation

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Financing Available Through:

PINNACLE

The new BWI Grower Technical Sales (GTS) website highlights the products and services available through our GTS team. The products are broken down into intuitive categories that allow the customer to “drill down” to a particular product of interest. The service page has been divided into three broad areas of support with details related to each. Two noteworthy features are our customer testimonial page and recent products. These features allow any customer considering BWI as potential partner on a project to review what other customers have to say about their experience with the GTS team and look over a portfolio of recent projects. Finally, the site includes a resource page with helpful links, articles and other useful resources.



GROWER
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TESTIMONIALS

a word from GTS customers

“**Bonnie Plants** (Union Springs, AL) – Bonnie Plants has been associated with BWI Companies for many years. Bonnie Plants deals with many of their greenhouse and grower specialists around the country. From providing greenhouse specs to greenhouse construction, to greenhouse equipment, to plant grower expertise, BWI has the experts you need. BWI support specialists are among the best in the industry and are always there to help. We, at Bonnie Plants, are proud to have them as part of our industry team.” -Barry Culpepper

“**LSU Ag Center** (Port Sulphur, LA) – BWI’s Grower Technical Sales staff has done a great job in working with and providing the LSU Ag Center with products and services that include building two greenhouses in Port Sulphur, LA. Recently the GTS staff worked with us to take down those same greenhouses, and transport and store them in preparation for rebuilding on a new site. We look forward to working with the Grower Technical Sales staff on future projects.” -Dale Frederick

“**The Garden Center** (San Antonio, TX) – It’s one of the best decisions we’ve made in recent years. The guys that built the greenhouse were fantastic! The weather cooperated and they completed a 5000 square foot greenhouse in ten days. The support from BWI made the project run very smoothly with getting permits and anything else that came up. The greenhouse has been great for many reasons. Not only for plant protection but we’ve even hosted events and seminars in the greenhouse when the weather is bad. I would recommend the GTS team at BWI to anyone looking for a greenhouse” -Wayne Harrell



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Greenhouse Solutions From A Name You Know and Trust

Rising labor costs...water issues...energy costs... our GTS staff is ready to assist you in solving these kinds of problems and more.

The BWI GTS staff has the technical expertise to guide you through the process and help you find solutions that fit your budget and meet your needs. Our goal is to help you make wise business decisions that reduce cost and increase profit.

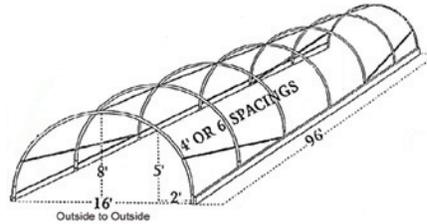
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GREENHOUSES

ATLAS cold frames

16' Hoop House

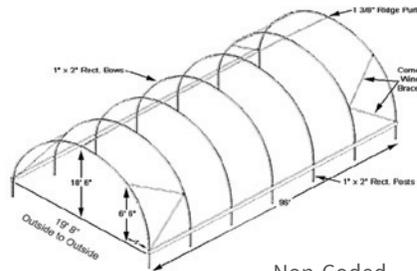


Non-Coded

Key Features

- 4' or 6' Spacings
- 1.029" (14 Ga) Ground Stakes
- 1.315" Bows (16 Ga)
- Assembly Hardware
- 1.315" (17 Ga) Ridge Purlin
- 4 Corner Braces
- 8 - 2" x 4" Framing Brackets
- Requires 28' Poly

20' RT™ Cold Frame

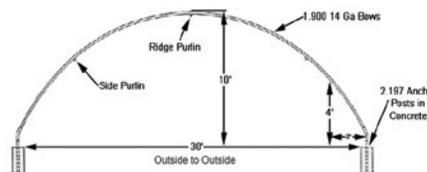


Non-Coded

Key Features

- 4', 5', or 6' Spacings
- 1" x 2" (16 Ga) Ground Stakes
- 1" x 2" Bows (16 Ga)
- Assembly Hardware
- 1.315" (17 Ga) Ridge Purlin
- 4 Corner Braces
- 16 - 2" x 4" Framing Brackets
- Requires 32' Poly

30' Price Buster

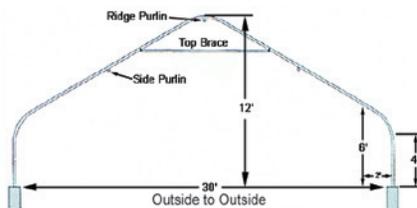


Non-Coded
3' Sides Available

Key Features

- 1.900" (14 Ga) Bows
- 2.197" (12 Ga) Anchor Posts
- 4', 5', or 6' Spacings
- 3 Purlins 1.315" (17 Ga)
- 4 Corner Braces
- 16 - 2" x 4" Framing Brackets
- Assembly Hardware

30' Budget Plus



Non-Coded
6' Sides Available

Key Features

- 1.900" (14 Ga) Bows
- 2.197" (12 Ga) Anchor Posts
- 4', 5', or 6' Spacings
- 3 Purlins 1.315" (17 Ga)
- Top Braces: Every Other bow
- 16 - 2" x 4" Framing Brackets
- Assembly Hardware

GREENHOUSES

ATLAS free-standing

Atlas understands that growers need versatility, strength, and labor-saving construction. The Snow Arch Series offers the strength and versatility to accommodate various widths, sidewall heights, drop-down or roll-up curtains, roof ventilation, fans, shutters, and/or cooling pad systems. The Snow Arch Series has proven to be a very popular and affordable multiple-purpose greenhouse for growers around the country.

These structures can be easily customized to suit your width and height requirements or any unique circumstance.

Snow Arch Series



Key Features

- 16' to 30' Widths
- 4' or 6' Sidewalls Available
- Customized to Suit Your Application
- 6/12 Pitch Reduces Random Condensation
- Virtually Any Width or Length
- 4', 5', or 6' Spacings
- Higher Snow & Wind Loads Per Dollar Spent
- Extremely Easy to Build

Specifications

- 2.197" (12 Ga) Anchor Post
- 1.900" (14 Ga) Bow Assemblies
- 1.315" (17 Ga) Purlins (3 Runs); 30' Wide Has 5 Runs
- 1.660" (16 Ga) Cross Trusses
- 1.315" (17 Ga) Corner Wind Braces
- Complete Assembly Hardware

The RT Max Muscle offers growers the ultimate in strength and versatility. Available with sidewall heights measuring from 4' to 10' and adaptable for roll-up sidewalls, roof vents, fans, shutters, and/or evaporative cooling system. The RT Max Muscle is widely used by wholesale growers, hydroponic growers, and transplant growers.

The perfect structure for natural ventilation.

RT Max Muscle Series



Key Features

- 30' and 35" Clear Span Width
- 4' to 10' Sidewalls
- 4', 5', or 6' Spacings
- Gothic Pitch Reduces Condensation Drip
- Ideal Structure for Natural Ventilation
- Maximizes Strength and Versatility
- Snow and Wind Load Certified

Specifications

- 2" x 4" (14 Ga) Column Post
- Massive 2" x 3" (14 Ga) Rectangular Bow Assemblies
- 1.315" Purlins (2 Runs)
- Galvanized Ridge Hat Purlin
- 1" x 2" Rectangular Cross Trusses
- Complete Assembly Hardware

The Atlas Super Arch is the newest addition to Atlas' line of free-standing greenhouses. With pre-punched two-square framing, this series offers superior strength while enabling ease of installation. The standard 30' and 35' width base models, with approximately 8' truss height, are ideal for hanging basket applications. It can easily be modified "High Tunnel" use, which needs a wide width and superior strength.

Equip the Super Arch with Atlas' "EZ Rollup" curtain system, and you achieve nearly 30% of open structure for natural ventilation.

Super Arch Series



Key Features

- Choice of 30' or 35' Clear Span Widths
- 4', 5', or 6' Spacings
- Pre-punched Holes for Easy Ventilation
- Excellent for Natural Ventilation

Specifications

- 2" Square 14 Gauge Bows
- 5 Runs 1.315" (17 Ga) Purlins

GREENHOUSES

gutter connect

Snow Arch Series 20', 24', & 28'

When it comes to saving big money on construction and finding a versatile structure, the Snow Arch Series gutter connected greenhouse has proven to be an excellent all-around structure. It is the most affordable professional-grade structure due to the fact that no outside gutters are required. Plus, the posts and bows are spaced according to your choice of 4', 5', or 6' apart, therefore eliminating the need for huge column posts. In addition, there are no expensive brackets used to attach the gutters to posts. The frame supports the gutters as opposed to the gutters supporting the frame! The attractive shape and style make the Snow Arch Series gutter connected greenhouse very popular for retail sales. 20', 24', and 28' wide bays and 8' to 10' gutter heights available.

VERSATILE • STRONG • AFFORDABLE



Key Features

- Easy to Customize without High Costs
- Extruded Aluminum Gutters with Built-In Snap Lock
- Choice of 20', 24', or 28' Wide Bays
- 8' to 10' Gutter Heights Available
- Ready to Hang Baskets from Trusses
- 6/12 Gothic Pitch Reduces Condensation
- Snow and Wind Load Certified

Specifications

- 2.197" (12 Ga) Post
- 1.900" (14 Ga) Bows
- 1.315" (17 Ga) Purlins (3 Runs)
- 1.660" (17 Ga) Cross Trusses
- 1.315" Corner Braces
- Overhead Cable Braces
- Complete Assembly Hardware

Pro-Com Series 22' & 28'

The Pro-Com Series greenhouse is fully engineered and is the most cost-effective model in its class. With extruded aluminum gutters and fewer parts overall, the Pro-Com Series will significantly reduce your setup costs. It is designed and engineered to withstand most wind and snow loads without any changes or modifications. That makes the standard model code approved in over 75% of the United States.

THE MOST COST EFFECTIVE GUTTER-CONNECT IN ITS CLASS



Key Features/Specifications

- 3" x 3" Column Posts (12' Spacings)
- 1.900" (14 Ga) Bows
- 1.315" (17 Ga) Purlin
- Extruded Aluminum Gutters
- Choice of 22' or 28' Width Bays

GREENHOUSES

ATLAS gutter connect

RT Series 21', 24', & 30'

The 21', 24' and 30' wide Atlas RT Gutter Connect uses an all rectangular tube frame that offers incredible strength, versatility and labor saving construction. The "RT" Series is an excellent choice if you choose to use natural ventilation. With gutter heights from 8' to 12' you can get the height you need and still save money. All feature an extruded aluminum gutter, double bolt track on each side for easy bow attachment, and poly fasteners extruded inside the gutter eliminating screws and bolts that are usually required to attach lock. Our 30' wide has an arched style roof design that offers an 8' rise from the truss to the peak, our 21' & 24' wide structures incorporate a Quonset roof design, thus providing cooler temperatures from floor to truss. Sidewall heights from 8' to 12' provide more room for tall plants and vegetables.

STRONG, EASY TO BUILD, VERSATILE, & AFFORDABLE



Key Features/Specifications

- 2" x 4" Column Posts
- 1" x 2" (16 Ga) Bows
- 1" x 2" (16 Ga) Trusses
- 1.315" (17 Ga) Purlin
- Overhead Cable Braces
- Extruded Aluminum Gutter

Super Arch Series

The Super Arch series is Atlas' newest addition to its gutter connect line of greenhouses. It offers superior strength for high snow load applications, but still maintains a cost that is well within a grower's budget. Product to product, cost to cost, growers will not find a more economical gutter connect structure. Standard 21', 24', and 30' width models are available with gutter heights up to 12'. Equip the Super Arch Structure with Atlas' "EZ Rollup" curtain systems and Ridge Vent for energy efficient natural ventilation or fans and shutters for traditional passive ventilation, the choice is yours.

WHEN YOU NEED THE ULTIMATE IN STRENGTH & EASE OF INSTALLATION!



Key Features

- Choice of 21', 24', or 30' Clear Span Widths
- 4' or 6' Bow Spacing
- 8' to 12' Sidewall Heights
- Pre-punched Holes for Easy Installation
- Excellent for Natural Ventilation
- Aluminum Gutter with Built-In Snap Lock

Specifications

- 3" x 3" (12 Ga) Column Posts
- 2" Square (14 Ga) Bows
- 2" Square (14 Ga) Truss Chord
- 1.315" (17 Ga) Purlins (3 Runs) on 21' & 24' Models
- 1.315" (17 Ga) Purlins (5 Runs) on 30' Model

GREENHOUSES

ATLAS educational

The Educator™



Designed Specifically for Schools & Plant Science Research

The Educator™ Package Includes

- Fire Safe 8 mm PCSS Covering
- Cooling & Heating Equipment
- Temperature Control Station
- All Metal Benches
- Hanging Basket Rails
- Complete Irrigation System
- Turn-Key Installation Available

Available Options

- 24', 28', and 30' Widths
- Any Length in 6' Increments
- 4' to 10' Sidewalls
- Custom Sizes Available

Key Features

- Vertical Sidewalls
- Gothic Roof Design
- A.D.A. Approved Doors
- Engineered for Code Compliance

The Scholar



An Excellent Structure for the Smaller Class Size!

The Scholar Package Includes

- Commercial Grade Exhaust Fans
- Evaporative Cooling System
- Heavy-Duty Expanded Metal Benches
- LP/Natural Gas-Fired heaters
- Environmental Controls

Key Features

- 2" x 2" Square Galvanized Steel Frame
- 8 mm Twinwall PCSS Glazing
- Aluminum Extrusions
- ADA Compliant Entrance Door
- 5'-8' Sidewall Heights

ATLAS shade structures

Flat Top Shade Center



The new Flat-Top Shade Structure will save you lots of money on initial construction costs and future expansion.

The Atlas EZ Fit 4 Way Connector allows you to add on to the existing structure without disassembling or changing any parts. Each 15' x 15' section is covered individually with your choice of either black woven shade or Alumitex and secured in place using stretch bungies. Simply add to it when and where you need.

Key Features

- Save on Construction Costs
- Very Easy to Expand
- Shade is Attached in 15' x 15' Blocks
- Black Shade or Alumitex

This is a non-coded structure and is not designed for snow loads.

Cable Shade System



Our new cable shade system is the economical and efficient solution for those larger shading projects.

Designed utilizing 20' x 50' pieces of shade attached with slide rings on the cable, allowing for the shade cloth to be retracted during inclement weather conditions.

Sizes

- 10' Side Wall Height
- 20' Wide Bay Spacings
- 25' Column Spacings

Key Features

- 63% Shade Standard
- 3" x 3" (14 Ga) Column Posts
- Auger Anchors with Cables for Side and End Wall Bracing
- Assembly Hardware Included

GREENHOUSES



cold frames

CF Series 1000



16' & 20' Wide • Ground to Ground
Conley's CF Series 1000 represents one of the strongest ground to ground designs on the market. These structures have been employed throughout the world in some of the harshest environments imaginable. Roll-Form arches and purlins help to set this house apart from other competitors. In addition to maximizing the strength characteristics of each metal member supplies, Roll-Form components "stack" in tight shipping

bundles thereby reducing freight costs. This structure is designed specifically for poly or shade cloth coverings.

Key Features

- Two-piece Arch Lap and Bolt Together
- Simple to Install
- Arches Nest Together for More Efficient Shipping
- Economically Priced

CF Series 1100



20' & 24' Wide • With Sidewalls
Incorporating all the positive virtues associated with Roll-Form, the CF Series 1100 represents one of the most versatile cold frames on the market. Available in a 3' - 6" tall, or optional 6' tall, straight sidewall height, this house can be employed for many different growing conditions. Add roll-up curtains, fans and/or heaters to optimize the growing potential of this structure. The CF Series 1100 has been successfully incorporated in

mild to extreme climates throughout the country. This structure is designed specifically for poly or shade cloth covering.

Key Features

- Economically Priced
- Heavy-Duty Column to Arch Adapters
- Roll-Form Arch Design
- Three Runs of Purlins
- Easy Installation

CF Series 1200



30' to 35' Wide • With Sidewalls
Conley's CF Series 1200 represents one of the strongest, most durable, structures on the market today. Utilizing 3" tall Roll-Form arch assemblies designed to support substantially more snow and ice than similarly sized houses in its class. Each of the five purlin assemblies provided per house are double bolted to each arch substantially increasing the structure's resistance to wind. Designed for poly or shade cloth covering,

the CF Series 1200 is available in either a 4' tall or 6' tall sidewall height.

Key Features

- Superior strength 3" tall Roll-Form arch design
- Five runs of "double-bolted" purlins per house
- Heavy-duty arch to column connection
- 12' - 6" Or 14' tall at the peak
- Easy installation



free-standing

Ranger Series 2000



30' Wide • With Sidewalls
Whether starting out or in an expansion mode, the versatility of the Ranger Series 2000 offers a natural no-nonsense solution for obtaining maximum productivity while reducing capitol investments. The Ranger Series 2000 is equally at home as a growing area or sophisticated retail center. It can be covered with polyethylene, shade cloth, or rigid coverings including polycarbonates.

Key Features

- Roll-Form arches, legs, and purlins insure unmatched structural integrity
- Gothic arch design is engineered to reduce roof snow build-up and provide maximum headroom
- Engineered to meet the stringent standards of the international building codes

GREENHOUSES

gutter connect

Superstar Series 3000

Conley's Superstar 3000 greenhouse offers the grower a unique combination of increased strength at extremely affordable prices. Certified to meet up to 70 mph wind loads and 10 lb snow loads, this structure incorporates Conley's Roll-Form arch and purlin assemblies. Provided by Conley's as an all bolt-together design, this greenhouse is considered one of the easiest structures in the industry to build. A fully functional greenhouse, this structure can be fitted with roof vents, sidewall vents, fans, heaters, shade/heat retention systems, benches, etc.

Components are shipped pre-punched and cut to length, simplifying the installation.

This structure is engineered to meet the stringent International Building Code (IBC) specifications.



Key Features

- Superior strength Roll-Form arches, purlins, and gutters insure unmatched structural integrity
- Large easy-to-walk-in gutters are lapped one into the other and cantilevered for increased strength
- 4' Arch spacing for increased strength and reliability

Superstar Series 3600

The Superstar Series 3600 represents one of the real “workhorses” within Conley's line of poly covered roof greenhouses. Incorporating 3” tall Roll-Form arch assemblies, this greenhouse is as equally comfortable in warmer regions as it is in extreme snow and wind climates. Utilize this house in conjunction with Conley's ridge vents to create one of the more optimum environments your plants may ever thrive in.

Components are shipped pre-punched and cut to length, simplifying the installation.

This structure is engineered to meet the stringent International Building Code (IBC) specifications.



Key Features

- Superior strength Roll-Form arches, purlins, and gutters insure unmatched structural integrity
- Large easy-to-walk-in gutters are lapped one into the other and cantilevered for increased strength
- 6' Arch spacing



A LEADER IN GREENHOUSE DESIGN SINCE 1946



GREENHOUSES



gutter connect

Conley's Free Air Series 5000 line of greenhouse combines proven ventilation technology with structural ingenuity. The arched roof profile of this structure is ideally suited for polyethylene covering, giving the grower optimized growing environments at reduced capital investments. The Free Air Series 5000 represents one of the most efficiently designed, naturally ventilated greenhouses existing on the market today. This structure is engineered to meet stringent International Building Code (IBC) specifications.

Free Air Series 5000



Key Features

- Superior strength Roll-Form arches, purlins, and gutters insure unmatched structural integrity
- Large easy-to-walk-in Roll-Form gutters are lapped one into the other and cantilevered for increased strength
- Arches spaced on 6' centers
- Available with extended columns to accommodate overhead retractable shade systems

Conley's Arch Series 6500 represents one of the most versatile greenhouses on the market today. Incorporating Conley's superior strength Roll-Form arches and purlins, this structure is as strong as it is functional. With its flush mounted purlin design, the Arch Series 6500 can be adapted to polyethylene or rigid covered roofs all while promoting built in condensate control features. Engineered for moderate to extreme wind and snow environments. This structure is engineered to meet stringent International Building Code (IBC) specifications.

Arch Series 6500



Key Features

- Superior strength Roll-Form gothic arches and Roll-Form purlins insure unmatched structural integrity
- Each Arch is produced from one Roll-Form component, no splices required, from peak to gutter
- Condensate control features built into Roll-Form arches and purlins
- Can be covered with polyethylene or rigid coverings

An industry standard, Conley's Gable Series 7500 greenhouse is equally at home as a production greenhouse or a sophisticated retail structure. Compatible with multiple covering options and ventilation designs, this greenhouse offers an ideal environment for almost any application. Superior strength Roll-Form truss and purlin assemblies offer maximum strength and other amenities such as built-in condensate control features. This structure is engineered to meet stringent International Building Code (IBC) specifications.

Gable Series 7500



Key Features

- Superior Roll-Form trusses and Roll-Form purlins insure unmatched structural integrity
- Each truss assembly is produced from one Roll-Form component, no splices required, from peak to gutter
- Condensate control features built into Roll-Form arches and purlins
- Can be covered with polyethylene or rigid coverings

GREENHOUSES



shade structures

Rigid Frame Fixed Roof

Conley's Rigid Frame Fixed Roof Systems offer an ideal shaded environment for plants and personnel. Typically incorporated into retail sales areas, the frame is engineered to meet a minimum 85 mph wind (Exposure "B") and 12 lb live load per the International Building Code (IBC).

Covering

- Roof can be glazed with any woven or knitted porous shade fabric
- Fabric attached to roll-formed truss via washered tek screws
- Sides and ends can be glazed with any woven or knitted porous shade fabric

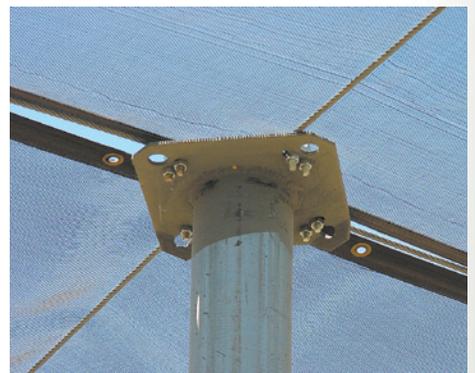


Cable Frame Fixed Roof

Conley's cable frame fixed roof systems provide an economical alternative to standard shade systems. Typically used in growing applications, this system will offer the grower years of valuable use. This structure represents a Non-Code design with certification unavailable. Not recommended for regions of snow or high wind.

Covering

- Roof can be glazed with any woven or knitted porous shade fabric
- Fabric is secured to cable via metal hooks, cable ties, or fabric clips
- Sides and ends can be glazed with any woven or knitted porous shade fabric



GREENHOUSE ACCESSORIES

ATLAS curtain systems

Economy



Atlas' Economy Curtain for our 16' Hoop House or the RT Cold Frame. The perfect low cost addition for natural ventilation comes complete with Crank Handle, Crank Rod, Curtain Guides, and all hardware necessary to install.

Key Features

- Provides Natural Ventilation
- Crank Handle
- Crank Rod
- Curtain Guides
- All Necessary Hardware

Z-Lock™ Drop-Down



Atlas' Z-Lock™ Curtain System drops down for ventilation and is best suited for 4' to 6' high sidewalls. Our exclusive Z-Lock Eave Flange allows the curtain to seal and "locks" the roof poly securely in place. Includes everything you need except the 2" x 6" pressure-treated lumber required for the base. Optional galvanized Hat base is available.

Key Features

- Designed for 4', 5', or 6' Sidewalls
- Aluminum Extrusions for Attachment
- Special 12 mil. Super Strong Fabric (Not Plastic)
- Retrofits to Most Houses with Straight Sidewalls Up to 6' High
- Steel Curtain Guides

E-Z Roll-Up



AFFORDABLE AND EASY TO OPERATE WITH NATURAL VENTILATION

The E-Z Roll-Up Curtain System includes everything you will need. No lumber and no extra poly fasteners to purchase. Choose between a manual crank or an incrementally automatic system. The fabric is a heavy-duty 12 mil. coated 10' x 10' weave fabric, strong enough to withstand the abuse of windy conditions and even rocks thrown by lawn mowers and weed-eaters. Curtains roll up from the middle as opposed to rolling up from the bottom; crank rotations are reduced by 50%, and curtains are kept straight. Affordable and easy to operate natural ventilation as well as adaptable to any greenhouse with straight sidewalls.

Atlas Offers

- 6', 8', 10', or 12' Systems
- Manual Crank Packages
- Atlas Motorized Crank System with Guide Pipe and Hardware
- 24v Incremental Temperature Control System (Controls 2 Curtains)

Crank Packages

Motorized Crank Package with Environmental Control for the E-Z Roll-Up Curtain System

Allows growers to have complete environmental control. The controller is easily programmed to your preferred setting and has high/low temperature alarm capabilities. The perfect alternative to manual cranks.



Incremental Curtain Controller



Curtain Motor



For Z-Lock™ Drop-Down Curtain



For E-Z Roll-Up Curtain

Manual Crank Package

Heavy-duty manual crank for the drop down curtain. Includes guide pipe, guiding unit and hand brace crank. Comes with post, winch and crank handle. Also available to be operated with a cordless drill. 13:1 gear reduction drive. Automatic Brake.

GREENHOUSE ACCESSORIES

ATLAS vent systems

Wall Vents



Atlas' automatic wall vent protects and seals off the cooling pad system. In addition, it offers superior intake ventilation compared to shutters.

Complete system includes rack and pinion drive, crank pipe, and 115 volt motor.

Ridge Vents



Atlas' poly covered Ridge Vents offer maximum natural ventilation at an affordable price.

Key Features

- Heavy aluminum extrusion for poly attachment
- Heavy-duty rack and pinion drive assembly
- Manual or motor driven
- Opens at the peak
- Retrofits to your existing structure

ATLAS doors

Roll Up Doors



COMMERCIAL GRADE!

- 8' x 8'
- 10' x 10'
- 12' x 12' (Chain Operated)
- Optional Motor & Remote Control Available

PCSS Sliding Doors



CUSTOM SIZES AVAILABLE!

Polycarbonate Covering, Track, Hangers, Flashing, and hardware (Lock and Key not included)

- 4' x 7' Single Slide
- 8' x 7' Single Slide
- 8' x 7' Double Slide

Swing Doors



MANY TYPES IN STOCK!

- 42" x 6'-8" 3/4 Glass
- 48" x 72" Econo Solid Vinyl
- 36" x 6'-8" Solid Vinyl Steel
- 3' x 6'-8" Insulated Half Glass, Half Solid Door

Roll Up Curtain Door



- 8' x 8' - Fits All Sizes
- 10' x 8' - Fits 20' to 35' Structures
- 12' x 8' - Fits 24' to 35' Structures
- 16' x 8' - Fits 30' to 35' Structures

Complete with Door Guides, Crank Assembly, and Mounting Hardware

GREENHOUSE ACCESSORIES



shade & heat retention systems

Internal Retractable Shade/Heat Retention

Conley's Internal Retractable Shade/Heat Systems offer one of the fastest returns on investment available in the greenhouse industry today. As a shade system, Conley's use of reflective curtain fabric works to deflect heat producing rays away from plants and personnel. As a heat retention system, the insulating qualities of the fabric re-radiate precious heat energy back down to plants and products. Conley's can even provide blackout fabric for light control.

Features

- Reflective curtain fabrics direct heat-producing rays away from plants
- Heavy-duty rack and pinion drive reduces ongoing maintenance
- Reliable drive motors complete with safety limit switches
- Conley's "Triple Set" fastening system

Value

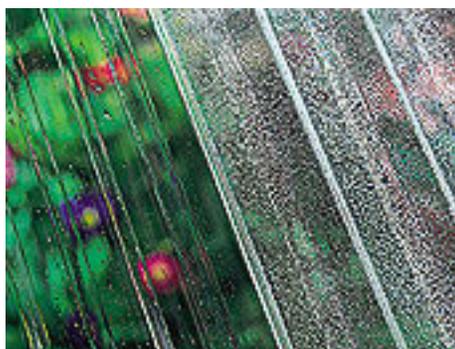
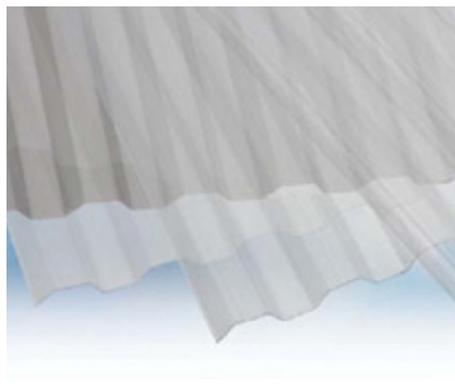
- Reduces plant stress
- Increases plant production
- Reduces watering demands
- Reduces energy consumption



GREENHOUSE COVERINGS

Green.tek polycarbonate

DynaGlas® Plus Corrugated Polycarbonate



DynaGlas® was the first corrugated polycarbonate ever introduced to the commercial greenhouse market more than two decades ago. Since then, DynaGlas has become an industry standard against which all other corrugated polycarbonate products for the horticulture market are compared. DynaGlas® Plus features built-in condensate control that is so effective, it's guaranteed for 10 years. DynaGlas Plus is made with an exclusive manufacturing process that results in the industry's first and most extensive 10-year condensate control warranty.

Applications

- Roofs
- Side Walls
- Partitions
- Barriers
- Doors

Features & Benefits

- Available in a variety of tints and surface textures
- Up to 92% PAR Light Transmission
- Up to 100% Diffusion
- Highly impact resistant
- More than 200 million square feet installed over the past 25 years
- Zero claims for yellowing or loss of light transmission
- 10-Year limited warranty against yellowing
- 10-Year warranty for condensation control performance
- 5-Year warranty against damage due to hail

Item No.	Description	Pack Size
CASPSCL4X8	DynaGlas Plus Clear 4' x 8'	Each
CASPSCL4X10	DynaGlas Plus Clear 4' x 10'	Each
CASPSCL4X12	DynaGlas Plus Clear 4' x 12'	Each
CASPSCL4X14	DynaGlas Plus Clear 4' x 14'	Each

ThermaGlas Multi-Wall Polycarbonate



ThermaGlas® multi-wall Polycarbonate Sheet is designed and engineered specifically for commercial greenhouse use. ThermaGlas products are available in 4-foot or 6-foot widths in clear, or with specially formulated colors and tints. ThermaGlas offers 99.5% UV protection. The multiwall design and light weight of the sheet enables a reduction in the cost of the supporting structure. Shatterproof polycarbonate coupled with integrated UV resistant co-extruded layer yields long service periods backed up by a 10 year limited warranty. The cellular multi-layer structure reduces heating costs in winter while minimizing excessive heat in summer. A special coating on the bottom side eliminates condensation dripping.

Applications

- Greenhouses
- Garden Centers
- Other agricultural covering applications

Features & Benefits

- Superb thermal insulation—saves energy
- Impact resistance—virtually unbreakable
- Light weight
- Weather and UV resistant
- Low flammability (available with CC1 rating)

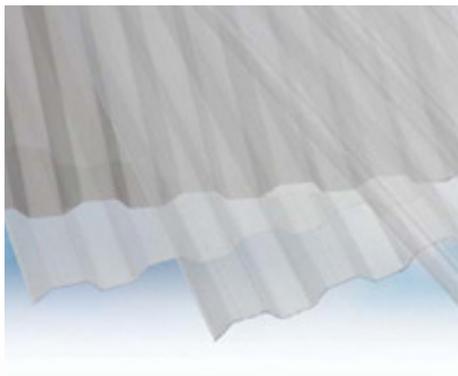
Features & Benefits

- Easy to work with and install using ordinary tools
- Rigid, yet capable of cold-forming to an arch
- Wide service temperature range
- 10-year limited warranty
- Available in 47-1/4", 48", 71-1/4" and 72" widths

GREENHOUSE COVERINGS

Green.tek polycarbonate & film

DynaGlas® SolarSoft Corrugated Polycarbonate



DynaGlas® SolarSoft features all the advanced technology of DynaGlas Plus, such as 100% UV protection and guaranteed condensate control, but with SolarSoft pigmentation, you reap the benefits of up to 100% light diffusion.

DynaGlas SolarSoft diffuses the light that is transmitted through the sheet, while still transmitting a high level of PAR light (85% or 90%). The mechanical can be considered the same as other types of DynaGlas, such as Clear, LDT, White/Opal or Gray.

Diffusing the sun's direct radiation has been found to be beneficial for plants. With DynaGlas SolarSoft, plants or flowers get very high levels of PAR light, but direct radiation of infrared is removed, which helps to reduce leaf temperature and plant burning. Furthermore, light penetrates deeper into the canopy, improving plant growth.

SolarSoft can also be beneficial for humans. A person standing under DynaGlas SolarSoft, while receiving almost the same amount of light as with Clear or LDT, will not feel harsh heatgiving radiation from the sun, and therefore will feel much more comfortable. The SolarSoft resin component is UV protected with the same co-extrusion protection as all other DynaGlas products (99.9% UV protection).

Applications

- DynaGlas SolarSoft™ is the first corrugated panel to offer up to 100% light diffusion while also transmitting a minimum of 85% of the sun's valuable light.
- The light diffusion properties are comparable to polyethylene film. While also transmitting a high percentage of the sun's valuable PAR light. The result is excellent growth, but a significantly reduced need for shading during hotter periods.
- SolarSoft 90 is recommended for virtually any greenhouse application where light diffusion is desired.
- SolarSoft 85 is recommended for high light areas where shading is typically required during summer months, or where growers desire light transmission and diffusion similar to double-poly film or fiberglass.

GT4 Performance Films



GT4 films are produced using advanced technology, resulting in a greenhouse film that is tough and clear long lasting greenhouse film.

Manufactured with state-of-the-art extrusion equipment and new high tech polymers, GT4 products offer growers:

- Superior Strength and Toughness
- Higher Light Transmission
- Guaranteed Longer Life -- 4 years

GT4 offers the best value in a 6-mil, 4-year greenhouse film with the following improved properties over our older generations of greenhouse covers.

- Folds up to 210% stronger
- Tear Strength up to 164% higher
- Puncture Force up to 12% higher
- Advanced UV up to 33% longer life

GREENHOUSE EQUIPMENT

Quietaire ventilation

Aluminum Wall Fans - Series GHA - Angle Flow Design

THE ULTIMATE IN GREENHOUSE VENTILATION

Two inch oversize blade design means more CFM/WATT and lower fan blade RPM for longer life. These fans are constructed of heavy gauge, die formed aluminum and have a deep spun orifice. Tubular bearing and motor supports are welded to the frame for a strong unitized construction.



Features and Accessories

- Aluminum construction
- Quiet operation at low RPM
- Dust, dirt, and moisture proof bearings
- High efficiency, heavy-duty, totally enclosed motors have a low operating cost; available in single phase or three phase
- All aluminum gravity or motor operated dampers
- Permanently lubricated fan shaft ball bearings
- Optional belt tightener - eliminates belt tension problems and one maintenance operation, not available on 1-½ and 2 HP fans
- Two speed motors optional
- Completely assembled ready for installation and wiring
- Aluminum guards

Special Additional Features of Angle Flow

- Angle flow shutter guard is mounted to shutter which eliminates another maintenance procedure
- Choose fan performance at .05 due to increased air flow efficiency
- Lowers heating cost with shutters on inside of fan (air entering and saves up to 4000 BTU per hour)

Galvanized Wall Fans - Series GCS - Angle Flow Design

SUPERIOR DESIGN AND PERFORMANCE

The six-bladed propeller with high efficiency design produces more CFM/WATT at lower RPM. These fans are constructed of heavy gauge, die formed galvanized steel and have deep spun orifice. Tubular bearing and motor supports are welded to the frame for a strong unitized construction.



Features and Accessories

- Galvanized construction
- Quiet operation at low RPM
- Dust, dirt, and moisture proof bearings
- High efficiency, heavy-duty, totally enclosed motors have a low operating cost; available in single phase or three phase
- All aluminum gravity or motor operated dampers
- Permanently lubricated fan shaft ball bearings
- Optional belt tightener - eliminates belt tension problems and one maintenance operation, not available on 1-½ and 2 HP fans
- Two speed motors optional
- Completely assembled ready for installation and wiring
- PVC coated guards

Special Additional Features of Angle Flow

- Angle flow shutter guard is mounted to shutter which eliminates another maintenance procedure
- Choose fan performance at .05 due to increased air flow efficiency
- Lowers heating cost with shutters on inside of fan (air entering and saves up to 4000 BTU per hour)

GREENHOUSE EQUIPMENT

Quietaire ventilation

Self Contained Stainless Steel Cooling System

NO SUMP REQUIRED

This system is a highly corrosion resistant system that has almost unlimited life.



Features

- Self-contained water trough
- No troublesome installation and maintenance of the sump
- Standard bleed line to prevent buildup of salts and minerals in recirculating water
- Stainless steel pipe cover - except when used with Aqua-Cell Pads
- Simple, efficient design, lets Quietaire offer its product at extremely competitive prices
- Float Valve water hose attachment automatically refills trough as evaporation occurs
- Extremely long life
- Supplied in 10 foot sections - can be custom cut
- For use with 4" or 6" pads

Aluminum Wall Shutters



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

The shutters are easily mounted and come in dimensions to fit all Quietaire wall-mounted fans. Other sizes are also available.

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

Single and Double Panel shutters available in a wide range of dimensions.

- **Model HD** - Gravity operated
- **Model HDE** - Electric motor operated. Available in 12V, 115V, 230V or 440V
- **Model HDM** - Manual pull chain operated

QuietCool Portable Coolers



Works great in stuffy areas such as factory shops, loading docks, greenhouses, garages, sporting events, livestock and even outdoor dining areas like a company picnic. It's quick, it's quiet, it's cool. QuietCool Portable Evaporative coolers are engineered efficient.

Model QC36B1 - 36"

Belt Drive - ½ hp 1 speed belt drive; Fan - Industrial duty 9,700 @ .15 SP; Motor - High efficiency, totally enclosed ½ hp 120v 7.4 Amps; Pump - Submersible 1/6 hp 120v, 5 amps; Total Amps - 12.4; Total Watts - 1488; Size - 61-½" W x 63" H x 32-½" D. NSN - 4120-01-449-7532.

Model QC36B3 - 36"

Belt Drive - ½ hp 3 speed belt drive; Fan - Industrial duty 9,700 cfm @ .15 SP
Motor - High efficiency, moisture resistant designed for totally enclosed coolers. ½ Pump - Submersible 1/6 hp 120v, 5 amps hp 120v 8.9/6.3/3.2 amps; Pump - Submersible, 1/6 hp 120v, 5 amps; Total Amps - 13.9; Total Watts - 1668; Size - 61-½" W x 63" H x 32-½" D; NSN - 4120-01-449-7535.

Several 36" models and a 48" model are available.

GREENHOUSE EQUIPMENT



ventilation

Fiberglass Flush-Mount Exhaust Fans

Schaefer's narrow profile, fiberglass housing exhaust fans are designed to exhaust large volumes of air at high efficiency. All fans ship fully assembled and have self-adjusting belt tensioners and heavy-duty aluminum shutters installed.

Use flush-mount exhaust fans for large exhaust airflow requirements in factories, warehouses and other locations where long life and efficient air movement matter.

Several Direct-drive and Belt-drive models available ranging in size from 36" to 52".



Features

- Large radius fiberglass venturi for maximum airflow, long life and good looks
- 3 or 5-wing, galvanized, stainless steel or cast aluminum blades for high performance and long life
- Heavy-duty, totally enclosed, maintenance free and energy efficient motors
- Fans ship fully assembled
- 15-year limited housing warranty
- Made in the USA

Galvanized Slant Wall Exhaust Fans

Ideal for greenhouses, factories, and warehouses where you want to exhaust a lot of air at a low cost.

Several Direct-drive and Belt-drive models available ranging in size from 36" to 52".



Features

- Heavy gauge galvanized materials
- Heavy-duty, totally enclosed, maintenance free, energy efficient motors
- 2, 3 and 5-wing galvanized blades
- Cast iron pillow block bearings
- Automatic belt tensioners
- Aluminum shutters
- Fans ship fully assembled
- 2-year limited warranty
- Made in the USA



Need help cooling your greenhouse? Contact our GTS staff and let one of our greenhouse specialists custom design a ventilation system based on your needs and budget.

Call toll free at 888.447.3403.



GREENHOUSE EQUIPMENT



ventilation

Deep Guard Circulation Fans

Reduce heat stress and increase productivity with Schaefer circulation fans. The deep guard design allows for greater air movement at very low noise levels. Improve air quality and working conditions by strategically placing Versa-Kool circulations fans using optional wall or ceiling mounts.

The VK12 is Schaefer's #1 greenhouse horizontal air flow (HAF) fan.



VK20 - 20" - 1/3 HP



VK12 - 12" - 1/10 HP

Item No.	Description	Pack Size
CAHVT12	Schaefer 12" HAF Fan	Each
CAHVT20	Schaefer 20" HAF Fan	Each

Features & Benefits

- Extremely rugged guards and housings
- Patented deep guard spacing and custom engineered blades result in greater air movement at lower noise levels
- Depth of front guard makes fan extremely safe, but not OSHA compliant if mounted below seven feet
- Steel guards are powder coated over zinc for corrosion resistance
- Heavy-duty, totally enclosed, maintenance free motors
- Variable speeds with optional motor speed control
- Variety of mounting options
- Two-year limited warranty
- Made in the USA

Green.tek ventilation

HAF Basket Series

HAF Fan Series gives you the great performance, energy efficiency and an air pattern that is designed for heat de-stratification. The OSHA approved guard means the fan can be mounted at any height. Our totally enclosed air over motor can be used in the harshest greenhouse environments. GT HAF Fans are easy to install and will give years of trouble free service. The ideal spacing is every 50'. Consult with our design ventilation engineers for proper sizing of your HAF Fan or a recommendation of a Green-Tek complete greenhouse environmental system.



Applications

- Great air throw pattern for heat de-stratification
- Ideal greenhouse spacing 50', but call your Green-Tek ventilation engineer for proper design recommendations.
- Air de-stratification in buildings can reduce heating and cooling bills by up to 35%
- Ideal for Greenhouses, Industrial and Agricultural applications
- Create an air exchange when placed in a wall
- Low horse power motor means low energy cost
- Machine, people and compressor cooling
- Heat stress relief
- Insect control when creating an air velocity of 300 FPM or more

Item No.	Description	Pack Size
CAHAF20X	Green-Tek 20" HAF Fan	Each

GREENHOUSE EQUIPMENT

MODINE gas-fired unit heaters

Effinity⁹³ High Efficiency Gas Fired Unit Heater (PTC)

THE MOST EFFICIENT GAS FIRED CONDENSING UNIT HEATER AVAILABLE IN NORTH AMERICA

The Effinity⁹³ is the most efficient unit heater for greenhouse applications in North America, bringing the green to your greenhouse. With eight models available – from 85,000 to 310,000 BTU/hr – all operating at 93% efficiency, the Effinity⁹³ will dramatically lower energy costs.



Key Features

- Modine's exclusive Conservicore™ technology withstands acidic condensate
- Designed with contractors in mind: faster installation and lower installation costs
- All Effinity⁹³ box sizes are equal to a corresponding HDS or PTS model
- The standard Contractor Convenience Package allows for easy connectivity and troubleshooting
- Optional finger-proof fan guard for operation at low mounting heights
- Totally enclosed motors
- Vented with PVC pipe
- Made in the USA

Horizontal Power Vented Unit Heater (PTP)

Introducing the new horizontal power vented, PTP unit heater line. This unit was specifically designed with the customer in mind to provide high value at a reasonable cost. The PTP delivers 80% thermal efficiency in a small business-friendly package. This unit features a stainless steel tubular heat exchanger as standard on all units with a 10-year heat exchanger warranty that provides customers with a peace of mind. The PTP is available in 7 different models sizes – 150,000 to 400,000 BTU/hr.



Key Features

- Stainless steel heat exchanger comes STANDARD on all units, extending the life of your investment
- Bent tube, low-profile design
- Totally enclosed fan motors and all controls mounted inside the cabinet for protection from airborne moisture and dust
- 10-year heat exchanger warranty, even in greenhouse applications
- Quick and easy installations with wiring terminals and knockouts for quick access to gas and electricity, and a roomy controls cabinet for ease of work
- Standard power exhaust simplifies side-wall or roof venting with small diameter vent pipe

Vertical Power Vented Unit Heater (PDP)

Modine's PDP power vented unit heaters are inexpensive to install, easy to use and offer excellent in-service economy. Our gas fired heaters are available in units rated from 150,000 to 400,000 BTU/hr. These units provide air circulation to reduce dead spots in the greenhouse, reducing high moisture areas that promote mold growth. Heaters are indirect fired, allowing all combustion products to be vented to the exterior of the greenhouse and protecting sensitive plants from toxins found in the products of combustion



Key Features

- Versatility allows air to blow from the top of the greenhouse or through ducts
- Modine gas-fired unit heaters maintain a minimum 80% efficiency, maximizing seasonal efficiency through the use of a collector box and the power exhauster
- A 100% shut-off, intermittent pilot-ignition system with continuous retry, at no extra charge. The ignition system allows for units to be field-converted to propane, if desired
- A safety pressure-switch to assure safe venting conditions
- Designed to utilize the smallest-diameter vent pipe possible

PDP150 - PDP250 models stocked in most warehouses.

GREENHOUSE EQUIPMENT



hot water heating systems

Delta T hot water heating systems utilize the physics of heat to efficiently heat plants. Putting the heat under the plant allows the heat source to react faster to temperature changes at the plant level. Heating from below offers a more constant temperature, better plant quality and lowers heating costs.

No matter what you're growing - or where you're growing it - our advanced technology greenhouse systems can make a noticeable difference to your operation in both plant quality and bottom line cost. You can count on Delta T to bring you the technology that will maximize the efficiency and effectiveness of your operation.

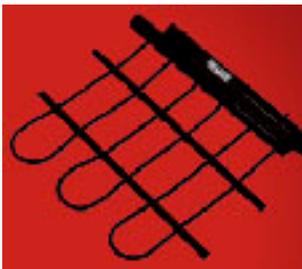
Delta-Tube™ SD



The Delta-Tube™ EPDM SD rubber tube bench system heats the greenhouse starting at the soil level. Heat rising from the bench warms the soil and the plant roots. Tubing spaced 2 to 3 inches apart provides even soil temperatures, which prove extremely beneficial to propagators. Seed germinators and plug producers have found that by heating the soil, they achieve a higher germination rate and quicker production time. Growers have found a reduction in rooting cuts by heating the soil directly.

The Delta-Tube EPDM rubber tubing used in this hot-water heating system offers superior heat transfer capabilities as well as excellent resistance to temperature degradation and chemicals. The SD system's small tube design reduces water volume, enabling the system to respond quickly and efficiently.

Delta-Tube™ LD



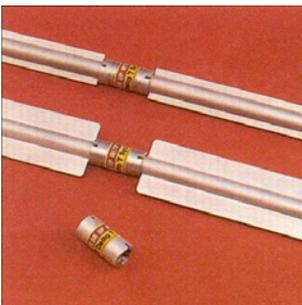
Similar in concept to the Delta-Tube™ EPDM SD system, with the same productivity and fuel saving advantages, this hot water heating system with its 4 to 6 inch tube spacing is the system of choice for starter houses. It also excels in the nursery industry for general growing. Growers using this system for heating soil or nutrient bags of tomatoes and cucumbers have shown a 50% increase in yield. Grape growers have found a quicker and more even callusing pattern by using bottom heat to callus grade stock.

Delta-Tube™ PEX



The Delta-Tube™ PEX heating system heats the greenhouse from the floor by running hot water through a grid of durable, cross-linked high-density polyethylene polymer tubing installed in the concrete. Using the concrete floor as a radiant surface, heat radiates from the floor into the greenhouse and directly to the plants. The direct contact between the root zone and the warm floor provides for maximum soil and plant temperature control, resulting in consistent temperatures and even crop growth. Compatible with any type of heat source, the Delta-Tube PEX floor system allows for different temperature zones, increasing grower flexibility. Because it eliminates the need for loud and unsightly unit and infrared heaters, it is an excellent choice for a retail area. In fact, retail garden centers report that customers stay longer and buy more because this silent and comfortable heating system makes for a great shopping environment.

Delta-Fin™ TF 1 & 2



The Delta-Fin™ aluminum under-bench heating system heats the greenhouse by running hot water at temperatures of up to 230°F through the fin tube system. The fin tube then heats the air around it, distributing heat to the soil, roots and foliage of the plants through a combination of natural convection and radiation. Even temperatures are maintained throughout the system and the growing media.

Two fin sizes allow for targeted applications:

- TF1 two-fin aluminum with $\frac{3}{8}$ " fins is ideal for climates that have low heat requirements or need closer temperature control, like plug production
- TF2 two-fin aluminum with 1" fins has the added surface area for more heat transfer to meet high heat requirements

GREENHOUSE EQUIPMENT



control systems

As a leader in the development and sales of watering systems, propagation, misting and fogging, sensors and custom built contractor cabinets, Micro Grow products set the new standard for cost effective and efficient growing.

State-of-the-art computer-based control systems give you the power to meet demands placed upon the busy greenhouse grower without the need to understand the complexity of a computer. A toggle switch front panel and pre-set factory settings take the worry out of your hands. Micro Grow controls, either single or multiple zones, are customized for your growing needs.

Growmaster
Procom



Key Features

- Energy saving features for commercial growers
- Precise automation for research applications
- Sensor history record and display for 30 days
- State of the art software and equipment operations
- Irrigation and misting control based on time, or soil moisture
- Accurate microprocessor control of your entire environment
- Fully expandable with additional output modules
- Add your PC to your Procom system for endless possibilities
- Companion VPD irrigation and propagation system available

Growmaster
Growcom



Enjoy the same precision control of our Growmaster Procom in a single zone environment with our Growcom system. We have packed the most common environmental control equipment in use in a single zone control system. A zone temperature sensor, as well as a solar sensor, come standard with the Growcom. The Growcom features four separate daily operation modes including DIF. Low voltage 24 VAC operation.

Key Features

- Use as a stand alone system, or with your PC with our Growlink system
- Cooling, air circulation, ventilation, and shading equipment
- All heating equipment including hot water valves and boilers
- Full alarm functions and sensor history record and display for 30 days

Growmate Plus



An affordable choice for many growing operations, the Growmate Plus puts the power of a microprocessor based control system in your hands at a price that anyone can afford.

Key Features

- Accurate microprocessor control
- Large digital display and convenient program switches
- Five cooling stages, two heating stages
- Air circulation output for HAF fans
- DIF operations are standard
- Optional humidity sensor available

Ventmate Plus



The Ventmate Plus has the same enhanced features of the Growmate Plus system, yet it is designed for use with ventilation cooled structures. Two separate ventilation outputs can control roof vents, side vents, roll up walls, or retractable roof ranges. Vents may be operated in up to eight separate stages of operation. Separate day and night temperature settings, as well as DIF come standard. Low voltage 24 VAC operation.

Key Features

- Heating, ventilation and air circulation
- Accurate microprocessor control
- Large digital display
- DIF operations are standard

GREENHOUSE EQUIPMENT



Growing healthy uniform plants requires accurate control of the greenhouse environment. Precise control of the growing environment also allows growers to maximize the inputs used in the growing process while minimizing waste, reducing labor and reducing energy consumption. This type of control can only be accomplished through the use of a computer based environmental control.

STEP Up Control™



STEP Up to improved control and increased profits. This control is an approved energy saving device.

- 6 stages: 2 stages of heating and 4 stages of cooling
- 3 setpoint temperature periods — day, night, and DIF
- Modulates vents and curtains
- Alarm output
- Large menu-driven screen displays current temperature, time, date, grow weeks, equipment status
- Records and stores temperature data
- Solar-guarded aspirated temperature sensor and 100' of cable3

MiniSTEP Control™



Switch from thermostats and save money. Research shows that using a simple, centralized control reduces energy consumption. The single temperature sensor prevents heating and cooling equipment from operating simultaneously.

- 4-stages, 1 for heating and 3 cooling
- Day and night setpoint periods
- LCD screen
- Keypad provides easy operation
- Solar-guarded aspirated temperature sensor and 75' of cable3
- This is a complete package including controller, contactor panel and blueprints

Vent Automation - Drive Units
VC-100A & VC-2000

VC-100A



WADSWORTH'S DRIVE UNITS SET THE STANDARD FOR SMOOTH OPERATION AND RELIABILITY.

Wadsworth's drive units come with a dual output shaft. All units can be ordered to fit either 1-3/8" or 1-5/8" shaft. Measure the outside diameter of your shaft to determine which size is right for your greenhouse.

Key Features

- Thermal overload protection - automatic reset
- Quick reversing
- Adjustable torque limit switch assembly
- Output gear reducer
- Dual output shaft

VC-2000



VC-100A

- 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

VC-2000

- 1/5 Horsepower - TEFC, Continuous Duty
- 115 Volt - 60 Hz - 2.5 amp
- 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

GREENHOUSE EQUIPMENT

PARsource[®] supplemental lighting

PARsource's Beamflicker Photoperiod Lighting System is an innovative and efficient photoperiod control light system. The Beamflicker has an oscillating parabolic reflector with a high-intensity sodium lamp that broadcasts beams of light from one end of the greenhouse to the other, providing intermittent light across the entire crop. This system is for photoperiod control and is not recommended for supplemental light needs. Available in both 400W, 600W, 120V, and 240V models.

Beamflicker™



Beamflicker Mirrod Aluminum Reflector, Motor Housing, and High Intensity Sodium Lamp

Key Features

- Highly efficient, cost-saving oscillating light source
- Can cover up to 30' x 90' area depending on lighting requirements and hang height
- Delivers enough light throughout a greenhouse to meet long-day photoperiod requirements
- Saves up to 80% in energy costs versus traditional photoperiod lighting systems
- Lasts up to 20 times longer than traditional incandescent lighting
- Lightweight and easy to install
- Microprocessor controlled electronic ballast provides a higher light output compared magnetic ballasts
- 2-year warranty on ballast; 1-year warranty on reflector, motor, and bulb

Next generation electronic ballasts are more efficient compared to traditional magnetic ballasts. An internal electronic microprocessor allows the ballasts to run at a higher working frequency, creating a higher lumen output. This higher output means you can run fewer fixtures and save on energy and equipment costs, compared to traditional magnetic ballasts. PARsource ballasts come fully equipped with our patented Lock and Seal connector and a universal reflector adapter, all protected by our 2-year warranty.

Electronic Ballast



GLX Remote Ballast System

Key Features

- More lumen output and more energy efficient than magnetic ballasts
- Run fewer fixtures for same light, resulting in equipment and energy savings
- Silent operation
- For use with metal halide or high pressure sodium bulbs
- Wall mount or hang
- Smaller, light weight
- Available in 400, 600, 750, and 1000W
- Available voltages: 120, 208, 240, 277, 347, 480 volts
- Patented Lock & Seal Plug System
- Sealed ballast for greenhouse environments

The T5 Fluorescent lighting system is a energy efficient, high reflective system that utilizes T5 fluorescent tubes. The T5 System delivers performance, flexibility and high lumen output in any growing environment. This system allows you to choose multiple hanging configurations to meet your garden's design. PARsource's T5 System generates more than double the light energy compared to a typical T12 fluorescent light system. The fixtures come in three sizes to fit various growing areas.

T5 Fluorescent System



Dual On/Off Switches on 6 and 8 Tube Fixtures

Key Features

- Variety of sizes to fit many growing needs
- High performance specular aluminum reflectors for highest output
- Low profile
- UL Listed components
- Powder coated steel housing
- Hangs 3 ways - overhead, vertical, or horizontal for hanging flexibility
- Dual on/off switches on 6 and 8 tube and three switches for 12 tube fixtures to regulate light output
- 5-year ballast, 1-year bulb and reflector warranty

GREENHOUSE EQUIPMENT

greenhouse benches

Economy Benches

Atlas' bench systems are designed to cut labor, increase greenhouse efficiency, and last through years of heavy loading usage. Designed as an alternative to the high cost of galvanized expanded metal bench tops. In addition, our customers have requested a "flush" flat edge bench that allows flats and trays to overhang an inch or two, thus accommodating any odd sized tray or arrangement. Supporting framework for all benches is 1" x 2" rectangular tubing offering superior strength and longevity.

EVERYTHING IS INCLUDED FOR COMPLETE ASSEMBLY



Key Features

- Flush edges allow trays to overhang
- Extremely low cost alternative to expanded metal
- Heavy-duty 1" x 2" and C-Channel framework
- Uses 1" x 2" galvanized welded wire

Atlas Offers

- 3' x 4' Portable
- 4' x 12' Portable
- 6' x 12' Portable
- 4' Wide Continuous x Any Length
- 6' Wide Continuous x Any Length

Continuous & Portable Benches

Atlas' continuous and portable rolling bench systems are designed to cut labor, increase greenhouse efficiency, and last through years of heavy-duty usage. Our continuous benches are permanently fastened together above ground, creating a continuous bench up to whatever length you desire. Our portable benches are available in various widths and lengths and can be easily moved about inside the greenhouse by two people. Supporting framework for all benches is 1" x 2" rectangular tubing offering superior strength and longevity.

Available bench sizes: 3' x 10', 3' x 12', 4' x 10', 4' x 12', 5' x 10', 5' x 12', 6' x 10', and 6' x 12'

ALL BENCHES AVAILABLE WITH RETAINING LIP OR FLUSH EDGE



Key Features

- 1" x 2" rectangular legs
- 1" x 2" rectangular top lathing
- Heavy aluminum extrusions
- 13 gauge galvanized expanded metal bench top
- Ships in 3 days
- Available in 3', 4', and 6' widths
- Easy installation
- Affordably priced

GREENHOUSE EQUIPMENT



greenhouse benches

Rolling Benches



Engineered with a grower's needs in mind, Conley's Rolling Benches offer multiple labor-saving features. Conley's provides all its benches pre-punched, making the installation faster and more efficient. Conley's use of a tapered roll bar insures even the heaviest loaded benches will roll back and forth easier. Quality features combined with up-to-date technology help set this bench apart from the competitor.

Key Features

- Heavy gauge legs are supplied with a galvanized finish
- Tapered roll bars require less effort to move the benches
- Roll-Form components maximize structural integrity

Stationary Benches



Key Features

- Heavy gauge legs are supplied with a galvanized finish
- Roll-Form components maximize structural integrity
- One-piece aluminum bench top frame
- Benches are supplied pre-punched to reduce installation labor
- Leg anchor brackets attach directly to bench legs
- Multiple widths available - 3', 4', 5', 5-1/2', 6, 6-1/2'

SOUTHWEST **AGRI-PLASTICS, INC.**

greenhouse bench tops

Dura-Bench Ultra



Designed to replace traditional wood, metal and wire bench top, DURA-BENCH ULTRA and DURA-BENCH ORIGINAL offers a tougher, longer lasting growing surface while eliminating problems associated with other bench top materials.

- Engineered to replace wood, wire, and expanded metal on greenhouse benches
- The 2' x 4' non-porous polypropylene plastic panel is designed with 1.1" x 2.1" rectangular holes for easy cleaning
- Engineered to interconnect with other DURA-BENCH ULTRA panels with nylon clips to create a smooth, flat bench surface
- Durable, smooth, non-porous, and allows trays, flats, and pots to slide across the surface without snagging
- Will not corrode, rust or have sharp edges like expanded metal or wire tops.

Dura-Bench Original



- The 2' x 4' non-porous polypropylene plastic panel is designed with 1.1" x 1.1" square holes for easy cleaning
- Engineered to interconnect with other DURA-BENCH panels to create a smooth, flat bench surface
- The panels will not rot, crack, or splinter like wood products; and it will not corrode, rust or have sharp edges like expanded metal or wire tops
- Peak load tested at 630 lb and will not dent or warp

Item No.	Description	Pack Size
CADB24X48	Dura-Bench Ultra 24" x 48"	Each
CADB24X48BST	Dura-Bench Original 24" x 48"	Each

PRODUCTION EQUIPMENT

Kase automation Horticulture

The Kase Generation II B-Line is the latest state of the art machine when it comes to filling flats or plug trays evenly, quietly and precisely with little excess soil being recycled back in to the soil supply.

5343 B-Line Flat Filler



Key Features

- Easy to use
- Advanced soil feeding for greater capacity
- Variable filling speed to match your production requirements
- Quick adjust for change out of containers
- Versatile, fill flats, pots, and baskets
- Recycles and reuses excess potting media
- Steeper slopes on hopper for better soil feeding
- Hopper Capacity: Standard 1.5 yards
- Production Capacity: Flat up to 18" wide; Containers up to 11" tall

The Kase Mixers have an end discharge. The 2 and 4 yard models have a bolted replaceable bottom barrel, available in heavy duty abrasive resistant material.

3423 Batch Soil Mixer



Key Features

- Special paddle agitator for gentle but thorough mixing action
- Heavy duty construction for years of trouble free service
- Standard spray apparatus for moistening soil in the mixer
- Safety grate over the entire top with a splashguard
- Drop out seals to protect end bearings
- Abrasive resistant paddles and bottoms available for the 2-Yard & 4-Yard mixers
- Casters available for the 3/4, 1 1/4 and 2-Yard Mixers
- Removable, replaceable bottoms on the 2-Yard & 4-Yard mixers
- Adjustable legs on the 1 1/4 Yard & 2-Yard mixers

Watering Tunnels are used to water plant material that is planted in flats, pots, hanging baskets or other containers. Watering tables have a smaller Drip Nozzles placed over the conveying unit to moisten plug trays.

2211 Water Tunnel



Key Features

- Stainless steel enclosure
- Quad spray heads variety of nozzle size available
- High impact poly chain and sprockets
- Electric operated solenoid valve
- Brass Ball Valve
- Stainless slide racks
- Optional electronic control of water spray
- Variable drive speed
- Water Volume: 4 gpm to 16 gpm
- Belt Width: 12"
- Maximum Flat Width: 16"
- Adjustable Height of Conveyor: 24" to 36"

PRODUCTION EQUIPMENT

Kase automation
Horticulture

4100 Series Belt Conveyers

Kase Modular Belt Conveyers are built compact, durable and light in weight to use in a variety of applications for transporting different products from containers to bagged materials.

All of the supporting steel and the slider pan on our modular conveyers are below the conveying surface thus the belt can convey containers much wider than the belt. The structural slider pan is made from aircraft aluminum. All of the end take-ups and the head plates and motor mounts are fabricated from cold roll steel plate.

Slots in the side of the slider pan make it easy to adjust the tension on the conveying belt. These units are designed with a tracking V-guide on the belt operating in a center guide on the end rollers. This ensures smooth operation and low maintenance of these units.



Key Features

- Modular design portable conveyor
- Aluminum slider bed construction
- Each unit complete with motor
- Connect together for longer conveyor
- Conveys horizontal or up an incline
- Various accessories available
- Great to load or unload truck
- All belts are self-tracking with guide
- Quick shut off switch on each unit
- Belt width 10", Lengths 5', 12' 3" & 20-1/2'
- 55 FPM Load Capacity Dist. 200 lb
- Constant or variable speed drive options
- Designed to work as a single unit or in series

3561 Gobbler - Bale Processor

The Kase Model #3561 Gobbler, is designed for the 4' square x 8' tall bale of compressed mix or peat. It can also be used with the smaller bales. It is constructed with a hopper the full length of the inclined live bottom conveyor. This machine has a lift gate platform on the back of the machine which the tall bale is placed on either with a forklift or a pallet jack. The plastic is removed, then the lift gate platform is raised with hydraulic power to place the bale on to the inclined conveyor. At this point processing of the mix begins. When the entire bale is consumed, the pallet on which the bale was shipped on is removed from the machine.

Available in single phase 230ac as well as 3 phase 230ac and 460ac.



Key Features

- Uses any size bale up to 110 cu. ft. and 135 cu. ft.
- Pallet may be removed after bale is in place
- Fluffer with gentle handling clod release
- Hydraulic lift gate has separate electric release
- Load with forklift or with pallet jack
- Gathering auger with center discharge chute
- Automatic watering spray chamber
- All motors have manual overload protection
- Discharge 42 in. clearance x 14 in. wide
- Production Rate: 75 cu. yd. per hour possible of fluffed and moistened potting soil
- Automation packages available

PRODUCTION EQUIPMENT



Antal / Cayson Equipment

plug dislodger

Econo Popper



The Econo Popper is the first universal, hand-operated, portable dislodger. At only 40 lb, it's easy to transport between workstations. The unique pin lock system allows the extraction and hold down pins to be adjusted to fit virtually any standard 10" x 20" tray.



Key Features

- Portable
- Lightweight
- Hand Operated
- Assembly Required

Plug Popper



The Plug Popper dislodges your plugs from their tray in a matter of seconds. No more broken stems or damaged roots. This indispensable horticultural tool works with a simple foot-pedal operation. No cords, hoses, or motors to maintain. The Plug Popper is easy to use and handles any tray with the swap of an insert.

You will find that this heavy-duty workhorse pays for itself in a single season.

Greenhouse Automation

The production process in any greenhouse or nursery includes a number of operations that can and should be automated. Automation can not only reduce labor costs, but improve product quality, allow for tight production windows to be met and also replace unreliable and/or unavailable workers.

The GTS staff has the experience to help you identify labor intensive areas, prioritize your needs and ultimately evaluate possible greenhouse automation options.



CHEMICAL APPLICATORS

DRAMM applicators

Mini Autofog™



The Damm Mini Autofog is an easy to use, low volume chemical applicator designed with smaller greenhouses in mind. The MLVH can treat 5,000 sq. ft. automatically without an operator present. It can easily apply a wide variety of chemical formulations using a highly concentrated spray solution.

A specially designed nozzle generates billions of micro-particles (0.05 - 10.0 microns) that fill the entire treatment area with active chemical. These tiny particles ensure complete and even coverage of all plant surfaces. This “low-volume” method of applying chemical solutions eliminates costly run-off and reduces the amount of chemical needed.

Specifications

Tank Size: 8 Liters	Standard Treatment Area: Up to 5,000 sq. ft.
Agitation: Electro-mechanical (60 rpm)	Nozzle: Air atomizing, outputs 8 liters/4 hrs
Operating Pressure: 21 PSI	Voltage: 110v
Adjustable Nozzle Height: 5-7'	Dimensions: 10" (width); 5-7' (height)

Autofog™



The Damm Autofog™ is an air assisted, micro particle generator for applying chemicals in enclosed areas. Using the Ultra Low Volume principle, the Autofog™ creates billions of tiny particles (5μ average diameter) which completely fill the entire treatment area and evenly cover all surfaces. These particles circulate in the air pattern created by the Autofog's fan, ensuring even coverage throughout the greenhouse. Because of their extremely small size, these particles eliminate costly run off, unsightly residues and damaging burn.

The largest Damm Autofog™ can treat up to 120,000 sq ft automatically, without an operator, saving in labor costs and health risks. Simply move the Autofog™ to the desired location, mix your chemical, set your timers and leave. The Autofog™ will start automatically at the time you desire, pre-circulate the air, apply the chemical and shut itself off. After the appropriate REI has passed, ventilate the greenhouse and remove the machine.

Hydra 50 Sprayer



The Damm Hydra Multi-spray Hydraulic Sprayer is a high volume hydraulic sprayer capable of performing a variety of tasks. The Hydra is perfect for the application of insecticides, fungicides, growth regulators, fertilizers, disinfectants and other chemicals.

With a pump output of 4 gallons per minute, the Hydra offers enough volume to utilize a choice of guns and agitate the tank at the same time. The pump has a maximum operating pressure of 550 psi with a fully adjustable regulator. This allows for a variety of droplet sizes and spray distances. The Hydra uses a close-coupled pump to eliminate belt or chain maintenance and is run by a sealed 1.5 horse power electric motor.

The Hydra comes standard with a 50 gallon tank on a maneuverable cart with rear casters for easy turning when full. The unit includes 150 feet of hose on a variable drag reel.

Specifications

Tank Size: 50 gallons	Maximum Pump Output: 4 gpm
Hose Length: 150' standard	Amperage: 13.6a/7.5-6.8a
Maximum Pressure: 500 PSI	Voltage: 115v/208-230v
Motor RPM: 1750 RPM	Dimensions: 50" (L), 27" (W), 50" (H)

CHEMICAL APPLICATORS

DRAMM applicators

MSO Sprayer



The Dramm Heavy Duty MSO and MS-GAS sprayers might be small, but they pack a punch. With a low-flow gun and high pressure, each atomizes the spray into fine droplets for even coverage.

The electric MSO operates at a maximum of 500 psi while the MS-GAS operates at a top pressure of 350 psi. The MSO unit includes the pump, 33 foot discharge hose and the suction and bypass hoses. Different hose lengths and gun options are available.

Finally, both are available with our Bigfoot wheel package that adds pneumatic wheels and casters for more rough terrain.

Both pumps offer pressure adjustment for flexibility when spraying.

The MSO has full pressure adjustment while the MS-GAS has three pressures: 110, 220 and 350 psi.

MSO Features

- Fully adjustable pressure – up to 500 PSI
- Trigger Gun with adjustable spray pattern and output rates
- Solid bronze & stainless steel pump construction with oilless bearings
- Applies most chemical formulations.
- 33' or 100' Discharge hose

MS-GAS Sprayer



MS-GAS Features

- Dual piston pump with uniflow design minimizes pump wear
- Bronze and stainless steel pump construction
- Adjustable, trigger, spray-gun
- Three pressure regulator settings
 - Low 100 PSI
 - Medium 220 PSI
 - High 350 PSI
- Applies most chemical formulations
- Discharge hose

Chemdose™ 2 Sprayer



The new Chemdose™ 2 precisely doses chemical solutions directly to the pot or root zone. The Chemdose™ 2 measures doses as low as 2.5 ml accurately with +/- 1 ml precision and can apply each dose on a single dose or interval dose basis.

The Chemdose™ connects to your injector or hydraulic sprayer at pressures lower than 100 psi. Weighing less than 10 pounds, the Chemdose™ can be worn on the chest or mounted on a small cart. Programming is easy and self-explanatory. The unit is activated by two buttons on the wand.

For maximum portability, the Chemdose™ runs all day on a rechargeable 12 volt battery.

Key Features

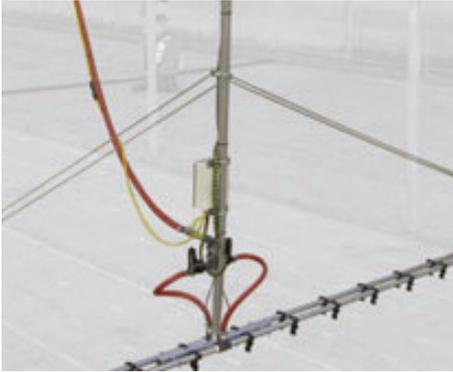
- Precisely measures chemical doses
- Works with either single shot or interval based doses
- Works with an injector or sprayer (any source less than 100 psi)
- Advanced features such as dose count, maximum number of doses, and control lock-out

IRRIGATION



automated systems

Single Rail Booms



OUR MOST COST-EFFECTIVE, AUTOMATED IRRIGATION SYSTEM IS DESIGNED WITH SIMPLICITY AND EFFICIENCY IN MIND.

This boom is ideally suited for smaller bays with simple watering requirements like monocropping. Designed to be simple, efficient and rugged, this boom is custom-built to handle almost any indoor growing environment.

Construction

This boom benefits from very simple construction. It's built with a spray bar that spans the width of your bay and is turned on and off by the controller using a single solenoid. The entire boom rides up and down the bay on a single rail.

Double Rail Booms



CHERRY CREEK'S DOUBLE RAIL BOOM OFFERS MORE VERSATILITY, WHILE STILL KEEPING EFFICIENCY IN MIND.

With the ability to irrigate the left or the right side completely independently of one another, this irrigation boom has full control over every application. With the stability of running on two rails, boom sway is eliminated. The central frame design allows for the ability to have a center walkway down the length of the bay. When combined with Cherry Creek's Network Irrigation Controller, the Double Rail Boom will handle the most complicated of greenhouse irrigation requirements, while assuring the precise application of fertilizers and chemicals.

General Specifications

- Recommended max width of 42 feet
- Recommended max length of 420 feet

Frame Unit

- Shipped pre-assembled from factory
- Carbon steel construction
- Heavy duty ¼ hp variable speed DC motor
- Four wheel drive design
- Dual solenoid manifold
- Amiad in-line water filter
- Telescopic spray bar support arms and hardware
- Plumbing w/ quick-disconnect & ¾" ball valve
- Dramm watering wand assembly w/ ¾" hose

IRRIGATION



automated systems

Echo Systems



- *Saves Labor*
- *Saves Time*
- *Saves on Water & Fertilizer*
- *Increases Plant Production*
- *Easy to Install*
- *Simple to Operate*
- *Durable*

HAVEN'T YOU PUT THIS OFF LONG ENOUGH?

The original and still the best -for more than 25 years, the ECHO® irrigation system has been the industry standard for automated hanging basket systems. The ECHO System is the most cost-effective way to increase plant quality and boost labor efficiency.

Central Location Watering - No more baskets dripping onto the plants below. No more irregular watering patterns. Gentle movement increases lighting exposure and air movement, resulting in healthier, stronger plants.

Plant Inspection & Control - Growers can easily inspect entire crops in a fraction of the time by having the plants come to them. Higher yields, better consistency and more crop turns per season will turn your greenhouse into a money-maker.

Hanging & Harvesting - Hanging your baskets cannot be made easier or done more efficiently. No moving of ladders, no hanging poles. Only one person at one location is all it takes.

Controllers



READY FOR A HASSLE FREE CONTROLLER?

The industry's most-logical controller solution - Have you ever tried to use your touch screen phone in the sun? The need for easy-to-read and operate controls continues to be at the forefront of our controller design. Cherry Creek's Boom and ECHO controllers are simple to operate while capable of performing complex tasks.

Easy to Program | Tough | Dependable | Upgradeable

Technology: Multiple crops can be programmed to irrigate separate parts of the bay using the same Boom. Cherry Creek's Boom controllers are smart enough to calibrate to the bay length and memorize its parameters, making the use of magnets all down the bay a thing of the past. Just key in the location of the crops using feet or meters and the boom will know where you want it to water and how.

Step. Stop. Water. Program: Cherry Creek's newest controller feature. This innovative program allows growers to water pots, containers or baskets in the bay. Since the boom can be programmed to step any given distance, stop on each row of pots and water, the grower can accurately control the amount of water each plant gets. This idea has also been incorporated into the Cherry Creek ECHO controller to maximize basket quality.

Automation: With a 24-hour time clock chip in every Boom controller, it can be guaranteed that the Boom will water what you want, when you want. It can be used to root cuttings in propagation, add to the greenhouse's relative humidity and in some cases be used to assist in height control. In just a few keystrokes, the Booms can be programmed to water based on the plants specific needs. What ever the need may be, Cherry Creek's controllers have the solution.

IRRIGATION



Netafim USA irrigation solutions allows BWI to offer their customers a unique service: A total systems approach to plan productions - from basic irrigation to fully automated, integrated growing systems.

WE HAVE THE EXPERIENCE

Netafim has been working over 30 years with greenhouses and nurseries of all sizes, from single hoop houses, to major integrated greenhouses and open field nurseries.

Labor Savings and **Energy Efficiency** are essential for profitable operation and to achieve these, we have the qualified staff to assist with your system design. **The Return on Investment** for a properly designed system is exceptional - most systems turn a profit in the first crop.

The following pages highlight only a few of the products available to you the grower. Please contact BWI GTS for a more complete listing. We look forward to being part of your future!

Spray Stake Assemblies

Pressure Compensating (PC) Spray Stake Assemblies

For greenhouses, nurseries and garden pot irrigation. Allows distribution of water over relatively large pot plant areas. Allows maximum flexibility in greenhouse and nurseries.

For a complete assembly, order one Dripper Assembly and one PC Spray Stake.

Item No.	Description	Pack Size
3.2 GPH PLUM STAKE - DRIPPER ASSEMBLY		
NF01PSD03236B	36" Tube Length	Pk/25
3.2 GPH PLUM - PC SPRAY STAKE		
NF01PSDSPL1B	Single Sided Spray Stake	Pk/50
6.6 GPH GREY STAKE - DRIPPER ASSEMBLY		
NF01PSD06636B	36" Tube Length	Pk/25
6.6 GPH GREY - PC SPRAY STAKE		
NF01PSDSGY1B	Single Sided Spray Stake	Pk/50
NF01PSDSGY2B	Double Sided Spray Stake	Pk/50



Spray Stake Non-Pressure Compensating Stakes

Item No.	Description	Pack Size
NF01SSYLB	3 GPH Yellow Stake	Pk/100
NF01SSAYL36	3 GPH Yellow Stake with 36" Tubing	Pk/25
NF01SSGNB	5 GPH Green Stake	Pk/100
NF01SSAGN36	5 GPH Green Stake with 36" Tubing	Pk/25
NF01SSBKB	7 GPH Black Stake	Pk/100
NF01SSABK36	7 GPH Black Stake with 36" Tubing	Pk/25



Tubing

Item No.	Description	Pack Size
FLEX BLACK POLYETHYLENE (PE) TUBING (5/3 MM)		
NF15FPE531000	Micro Tubing	1000' Roll
SUPER FLEX UV WHITE™ POLYETHYLENE (PE) TUBING (5/3 MM)		
NF15FPEW53	Micro Tubing	1000' Roll



IRRIGATION



Dripper & Stake Assemblies

SlimLine EZ Close™ Weight Assemblies - 0.5 GPH

Pressure compensating with check valve and shut-off feature. Standard with Super Flex UV White PE tubing.

Item No.	Description	Pack Size
NF01HBA2W18	18" Tube Length	Pk/25
NF01HBA2W24	24" Tube Length	Pk/25
NF01HBA2W36	36" Tube Length	Pk/25



Assembly Components

Item No.	Description	Pack Size
NF1109006B	5 mm Insert Connector - Barb X Threaded	Pk/250
NF1101001B	Angle Barbed Stake	Pk/250
NF1107008CB	Red Plastic Weight w/Shut-Off Feature	Pk/25
NF1107008SCB	Slimline EZ Close™ Weight - White	Pk/25

Dripper Assemblies & Drinker

Multi-Outlet Drinker (MOD) Assemblies

For a complete assembly, order one assembly and one 2.0 GPH pressure compensating junior drinker.

Item No.	Description	Pack Size
MOD ASSEMBLIES - STANDARD W/SUPER FLEX WHITE™ PE TUBING		
NF014DM1830F	18 & 30" Tube Length	Pk/25
NF014DM3030FX	30" Tube Length	Pk/25
NIPPLE OUTLET DRINKER		
NF01WPCJL8NB	WPC Jr. Drinker 2.0 GPH	Pk/250



Multi-Outlet Drinker Assembly Components

The flat manifold is ideal for field applications. It's low profile design and durable construction resists damage from field workers.

Item No.	Description	Pack Size
NF01ADP4WPFB	Flat 4-Way Manifold	Pk/100
NF01MODSAANGB	Angle Arrow Drinker Stake	Pk/100



Woodpecker Pressure Compensating Junior Drinker (WPCJ)

With CNL check valve feature and barbed outlet. Minimum operating pressure of 10 PSI. Used with SlimLine EZ Close™ Weight, Drinker Stake, and PCNL Spray Stake Assemblies.

Item No.	Description	Pack Size
NF01WPCJL2B	0.5 GPH Pressure Compensating Drip	Pk/250



Sprinkler, Mister, & Fogger Assemblies

Sprinkler Head Assemblies - Watering

SpinNet Sprinklers provide drip-less operation and the check valve prevents the line from draining onto the plants below. Sprinklers and misters should be spaced 3 feet apart.

Item No.	Description	Pack Size
SPINNET SPRINKLERS - 18.4 GPH		
NF0355120070BLB	Red/Red/Blue	Pk/25
NF03551200070LB	Red/Red/Grey	Pk/25
NF03551200070GLB	Red/Red/Green	Pk/25



Spinnet Sprinkler

Sprinkler Head Assemblies - Watering

Item No.	Description	Pack Size
VIBRONET SPRINKLER		
NF0354050LB	Green, 13.2 GPH @ 30 PSI	Pk/25



Vibronet Sprinkler

Misting Head Assemblies - Germinating

VibroNet Mistors are used when a light mist is required for watering, for example when germinating. Place misters 3 to 5 feet apart and 2 to 5 feet above the bench.

Item No.	Description	Pack Size
VIBRONET MISTER		
NF0354040LB	Blue Nozzle w/Check Valve, 10.4 GPH	Pk/25



Vibronet Mister

CoolNet Pro Fogger Head Assembly - Humidifying or Cooling

CoolNet Pro Foggers are used for propagation and cooling. Place the foggers 3 feet apart and 18 to 30 inches above the bench for 3 to 4 feet of coverage. Use multiple lines for wider benches. For cooling, place the foggers 5 to 10 feet apart and as high as possible.

Item No.	Description	Pack Size
COOLNET PRO FOGGER - 8.1 GPH		
NF0303420LLB	4-Way Fogger Assembly	Pk/25



Coolnet Pro Fogger

Base Assemblies

Hanging assembly for sprinklers, misters and foggers.

Item No.	Description	Pack Size
NF0300HSAC24	24" Tube Length	Each
NF0300HSAC30	30" Tube Length	Each
NF0300HSAC36	36" Tube Length	Each
NF0300HSAC48	48" Tube Length	Each

Assembly Components

Item No.	Description	Pack Size
BARB X FEMALE CONNECTOR		
NF03220WB	White, Adapts other sprinklers to Netafim	Pk/25
CHECK VALVE - PURPLE PIN		
NF0340017B	Prevents Leaks, Opens 28 PSI, Closes 13 PSI	Pk/25

IRRIGATION



Sprinkler, Mister, & Fogger Assemblies (continued)

½” Adapter for Pipe Thread

Item No.	Pack Size
NF03206BX	Pk/25



Retrofit Adapter

Connects Netafim head assemblies to other manufacturer's fittings.

Item No.	Pack Size
NF03302BX	Pk/25



Sprinklers & Sprinkler Components

MegaNet Rotating Impact Sprinkler - ½”

Item No.	Description	Pack Size
NFMGN24D154HO	Green Nozzle, 1.54 GPM, Male Threaded	Each
NFMGN24D286HO	Orange Nozzle, 2.86 GPM, Male Threaded	Each
NFMGN24D330HO	Red Nozzle, 3.30 GPM, Male Threaded	Each



MegaNet Road Guard

Combines with the MegaNet Sprinkler to make a ½ circle.

Item No.	Pack Size
NFMGNRG	Each

Vibro-Spray High Flow Sprinkler - ½”

Item No.	Description	Pack Size
NF0302210B	1 GPM @ 30 PSI, Female Threaded	Pk/25

Tubing

Polyethylene (PE) Tubing

Item No.	Description	Pack Size
UV WHITE™ TUBING		
NF14W082094	¾” Tubing	500’ Roll
BLACK TUBING		
NF1406207105	½” Tubing	500’ Roll
NF14062071	½” Tubing	1000’ Roll
NF14082094	¾” Tubing	500’ Roll
NF14106120	1” Tubing	500’ Roll



IRRIGATION



Filtration

Manual Disc Filters

Protect your irrigation system and equipment from clogging and/or abrasion with Netafim filters.

Item No.	Description	Pack Size
NF25A45120	¾" 120 Mesh	Each
NF25A45140	¾" 140 Mesh	Each
NF25A47140	1" 140 Mesh	Each
NF25A17120	1½" 120 Mesh	Each



Pressure Regulators

Low Flow and High Flow Pressure Regulators

Pressure regulators ensure outlet pressure remains constant regardless of inlet pressure.

Item No.	Description	Pack Size
¾" LOW FLOW PRESSURE REGULATORS		
NF32PRV75LF35V2	35 PSI, Flow Range: .25 to 4.4 GPM	Each
¾" HIGH FLOW PRESSURE REGULATORS		
NF32PRV7520V2K	20 PSI, Flow Range: 4.5 to 17.6 GPM	Each
NF32PRV7535V2K	35 PSI, Flow Range: 4.5 to 17.6 GPM	Each
NF32PRV7565V2K	65 PSI, Flow Range: 4.5 to 17.6 GPM	Each
1-½" HIGH FLOW PRESSURE REGULATORS		
NF32PRV1535V2K	35 PSI, Flow Range: 11 to 35 GPM	Each



Valves

Series 80 Electric Throttling 2-Way Valves - 24VAC

Quick reaction to opening and closing with a drip tight seal. Ideal for hydroponic and mist systems.

Item No.	Description	Pack Size
NF61ET1GH2	1" Standard with built-in 2-way Solenoid	Each



IRRIGATION

Senninger® Irrigation Inc. sprinkler systems

Senninger's Xcel-Wobbler employs a unique off-center rotary action that provides extremely uniform distribution pattern over a large area. Its counter balance design produces smooth, stable performance. It produces droplets which resist wind drift and are distributed in a gentle rain-like pattern. It is extremely durable with only one moving part.

The Xcel-Wobbler is constructed entirely of engineering grade thermoplastics for excellent corrosion resistance.

Xcel-Wobbler™



Key Features

- High angle and mid angle models available
- New balanced design produces smooth, stable performance
- Only one moving part for longer life
- Inlet sizes 1/2" or 3/4" NPT male
- Flow rates: 0.78 to 6.97 gpm (180 to 1584 L/hr)
- Low wind drift and evaporative loss at low pressures
- Built for strength and durability using high-impact engineering-grade thermoplastics, no metal parts
- Two-year warranty on materials, workmanship and performance
- Color-coded nozzles for easy size identification/warranted to maintain correct orifice sizes for five years

Senninger mini-Wobblers employ a unique off-center rotary action that provides an extremely uniform distribution pattern over a large area. Their gentle rain-like pattern has very low evaporative loss. They are extremely durable with only one moving part. The mini-Wobblers are constructed entirely of engineering grade thermoplastics for excellent corrosion resistance.

Outstanding Uniformity

mini-Wobbler® and i-mini-Wobbler®



mini-Wobbler®

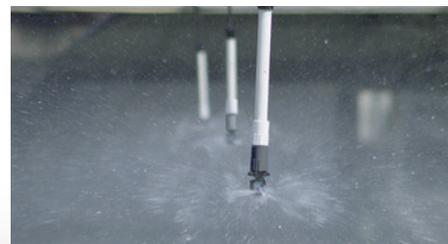


i-mini-Wobbler®

Key Features

- Models:
 - > Upright – multi-level throw approximately 10° (white deflector)
 - > Inverted – multi-level throw approximately 0° (blue deflector)
- Flows:
 - > Upright 0.42 – 2.61 gpm (95 – 593 L/hr)
 - > Inverted 0.75 – 2.61 gpm (170 – 593 L/hr)
- Base Pressure:
 - > Upright 15 – 25 psi (1.03 – 1.72 bar)
 - > Inverted 20 – 25 psi (1.38 – 1.72 bar)
- Connection: 1/2" M NPT.
- Backed by two-year warranty on materials, workmanship and performance
- Color-coded nozzles for easy size identification, 5-year warranty on nozzle orifice

Item No.	Description	Pack Size
NNMINIWOBLER7	i-mini-Wobbler	Each
NNMINIWOBLER8	mini-Wobbler	Each





sprinkler systems

423 AG - 1/2" Impact



Features

- Full and part circle impact - 25° trajectory
- 1/2" Male NPT
- Brass head and lever with cored water passages and double bridge construction
- Brass deflector, deflector disk, diffuser screw, part mechanism disks, connector tube, connector base, nozzle's nut, diffuser screw nut for added strength
- Stainless steel construction of hammer's shaft, sector shaft, drive spring, thrust spring, diffuser spring, sector spring provide long-wearing durability
- Hammer ensures all water inside pattern and prevents roads and neighbors

Applications

- Suitable for field crops like pulses, oil seeds, vegetables, sugarcane, cotton, cereals, tea, coffee, and fodder crops

Item No.	Nozzle Size	Pressure (PSI)	Flow Rate (GPM)	Wetted Diameter (Feet)
NN423WP	5/32" Black	30-60	3.8-5.2	82-92

429 AG - 1/2" Impact



Features

- Full and part circle impact - 26° trajectory
- 1/2" Male NPT
- Single bayonet constructed nozzles
- Integrated stream-straightening vane for maximum range
- Plastic head and lever for strength, durability, and consistent performance
- High Impact, heavy-duty plastic materials provide resistance to corrosion, chemicals, and UV radiation

Applications

- Specifically designed for irrigation of field edges

Item No.	Nozzle Size	Pressure (PSI)	Flow Rate (GPM)	Wetted Diameter (Feet)
NN427WP	5/32" Black	30-60	3.8-5.3	79-85
NN427-5WP	7/64" Orange	30-60	2.0-2.8	72-79

IRRIGATION

SUPERIOR™ controls

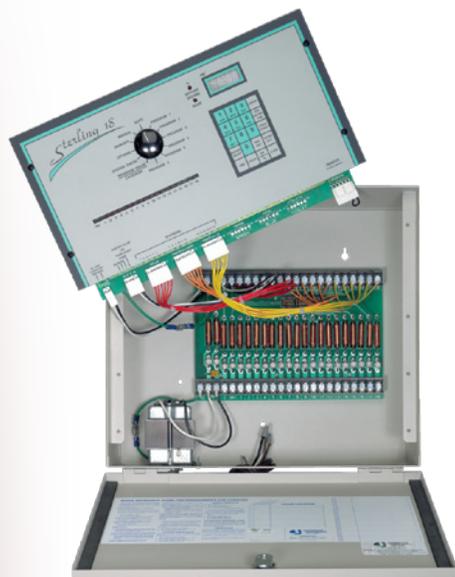
Sterling Series Controllers - 8, 12, 18 Station Models



Designed with the greenhouse grower in mind, the Sterling Controller is a highly versatile irrigation controller for all your watering requirements.

Features & Benefits

- Six independent programs that can run concurrently
- Station timing adjustable from 1 minute to 24 hours in 1 minute increments. For misting applications, the time base in all six programs can be changed to seconds/minutes so that station timing is adjustable from 1 second to 24 minutes in 1 second increments
- Up to 9 cycle start times per program; or, for misting applications, loop programming for unlimited cycles that can repeat immediately or after a programmed delay of 1 minute to 4 hours
- No limit on the number of programs to which a station can be assigned (all 6 if desired)
- Automatic, semi-automatic, manual, and timed manual operation
- Programmable watering calendar
- Programmable rain off up to 14 days. The controller will resume auto operation on the day following the last "off" day
- Program 6 can be activated by a sensor switch such as a thermostat. Ideal for frost protection or cooling
- Cycling can be started and stopped manually as well as automatically



Pedestal Specifications

- Heavy-duty steel, rust resistant
- Weather proof
- Removable cover with lock and key
- Partition to separate valve wires from power supply wires

Electrical Specifications

- Input: 120 VAC @ 50 or 60 Hz
- Output: 24 VAC @ 40 VA, 1.5 AMP MAX
- Maximum of three 4-watt solenoids per station

Item No.	Description	Pack Size
CASTRL12	Sterling 12-Zone Controller	Each
CASTRL18	Sterling 18-Zone Controller	Each
CASTRL8	Sterling 8-Zone Controller	Each

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IRRIGATION

RAIN BIRD controls

ESP Modular Controller

Large LCD Screen and Simple Dial

Bigger numbers and text messages make this controller very easy to use

365-day Calendar

Includes leap year intelligence, provides accurate odd/even calendar day watering

3 Programs Feature

A slide switch makes for easy program selection and reduces programming errors

Sensor Bypass Switch

Allows the user to override an active sensor for maintenance or run a station or program manually



Contractor Default™ Program

Allows you to set up a program, save it to memory, then recall it without having to reprogram the controller zone by zone. The benefit: easily reloads a schedule that has been accidentally altered by the homeowner, or replace a temporary schedule for new seed or sod

Enhanced Diagnostic Feedback™

Alerts the user to programming errors and other conditions that may prevent an irrigation schedule from running. The benefit: the homeowner can fix the problem so you don't have to make a service call



Permanent-Day-Off

Allows the user to set any day of the week as a non-watering day in any program or schedule, making it easy to comply with watering restrictions or other requirements, such as weekly lawn care or maintenance

IRRIGATION



fittings and filters

Power-Loc™ Fittings



Power-Loc™ Coupling



Power-Loc™ Tee



Power-Loc™ 90° Elbow



Power-Loc™ x Male Hose Adapter



Power-Loc™ with FHT Threaded Cap



Power-Loc™ Coupling with Ball Valve

For use with polyethylene irrigation tubing. Power-Loc™ Fittings are positive locking, insert type fittings with a threaded ring.

Product Features

- Very easy to install tubing over single barb
- Positive stop to assure tubing is fully installed
- Low effort, square thread drive ring quickly locks tubing in place — no tools needed
- Barb design ensures tubing will not slip out or blow off at high pressure and temperature
- Each fitting will accommodate a wide range of hose diameter and wall thickness
- Working pressure: 60 PSI
- Wide range of fitting configurations available
- Unique Patent Pending family of fittings for 50-70 series allows rapid response to custom configurations customer needs, including integral ball valve

Item No.	Description	Pack Size
NF31HC600	Power-Loc™ Coupling - 1/2"	Pk/5
NF31HC800	Power-Loc™ Coupling - 3/4"	Pk/5
NF31HC1000	Power-Loc™ Coupling - 1"	Pk/5
NF31HT666	Power-Loc™ Tee - 1/2"	Pk/5
NF31HT888	Power-Loc™ Tee - 3/4"	Pk/5
NF31HT111	Power-Loc™ Tee - 1"	Pk/5
NF31HE66	Power-Loc™ 90° Elbow - 1/2"	Pk/5
NF31HE88	Power-Loc™ 90° Elbow - 3/4"	Pk/5
NF31HE11	Power-Loc™ 90° Elbow - 1"	Pk/5
NF31H6TH75	Power-Loc™ x Male Hose Adapter (3/4" MPT) - 1/2"	Pk/5
NF31H8TH75	Power-Loc™ x Male Hose Adapter (3/4" MPT) - 3/4"	Pk/5
NF31H1TH10	Power-Loc™ x Male Hose Adapter (1" MPT) - 1"	Pk/5
NF31H6CAP	Power-Loc™ with 3/4" FHT Threaded Cap - 1/2"	Pk/5
NF31H8CAP	Power-Loc™ with 3/4" FHT Threaded Cap - 3/4"	Pk/5
NF31H1CAP	Power-Loc™ with 3/4" FHT Threaded Cap - 1"	Pk/5
NF31H6S	Power-Loc™ with 3/4" Female Hose Swivel with Washer - 1/2"	Pk/5
NF31H8S	Power-Loc™ with 3/4" Female Hose Swivel with Washer - 3/4"	Pk/5
NF12050614	Power-Loc™ with 3/4" Female Hose Swivel with Washer - 1"	Pk/5
NF31HV66	Power-Loc™ Coupling with Ball Valve - 1/2"	Each
NF31HV88	Power-Loc™ Coupling with Ball Valve - 3/4"	Each

Plastic Spin Clean Filters - Stainless Steel 200 Mesh Screens



Item No.	Description	Pack Size
CADF1	4E 3/4" MPT w/MHT Flush & Ball Valve (80 psi - 9 gpm max)	Each
CADFA20	4E 1" MPT w/MHT Flush & Ball Valve (80 psi - 18 gpm max)	Each
CADF2	4E 1-1/2" MPT w/MPT Flush & Ball Valve (150 psi - 55 gpm max)	Each
CADF3	4E 2" MPT w/MPT Flush & Ball Valve (150 psi - 110 gpm max)	Each

IRRIGATION

DOSATRON® injectors WATER POWERED DOSING TECHNOLOGY

Dosatron® Fertilizer Injectors ensure precise dosing continuously and economically. Ideal for dispersing fertilizer, fungicides, pesticides, algaecides, disinfectants, and surfactants.

Features

- Water powered, non electric
- Consistent fertilizer injection
- Proportional: compensates for changes in water flow and pressure

Benefits

- Simple installation
- Easy maintenance
- Over 35 years of product reliability

Advantages

- On-demand dispensing eliminates waste
- Economical operation
- Simple to use and maintain



CADS4



CADSA45



CADS2



CADS3

Item No.	Model	Flow Range	Pressure	Ratios	Unit Size	Pipe Size
CADS4	14 GPM	0.05 - 14 GPM	4.3 - 85 PSI	1:500 - 1:50	19-1/8" x 6-5/16"	3/4" NPT
CADSA45	20 GPM	0.4 - 20 GPM	7 - 70 PSI	1:500 - 1:66	24" x 7-1/2"	1" NPT
CADS2	40 GPM	2.2 - 40 GPM	2 - 110 PSI	1:500 - 1:50	25-1/4" x 8-1/2"	1-1/2" NPT
CADS3	100 GPM	5 - 100 GPM	2 - 120 PSI	1:500 - 1:50	55" x 15"	2" NPT

Hydro systems injectors A DOVER COMPANY

Dosmatic's patented line of non-electric, fluid-driven proportional injectors are used to ensure precise chemical injection directly into the water or fluid line under various flow rates, feed ratios and different ranges of pressure. All units are made of our patented proprietary engineered composite material for toughness and durability, while being compatible with most chemicals and acids. Dosmatic injectors will make a positive difference in your business. These non-electric compact injectors allow you to install anywhere and have a 3-year limited warranty - the best in the industry.



MiniDos



SuperDos 30



SuperDos 45



Chemilizer

Item No.	Model	Flow Range	Pressure	Ratios	Unit Size
CADMD112602	MiniDos 2.5%	0.03 - 12 GPM	6.0 - 140 PSI	1:200 - 1:40	3/4" NPT/BSP
CADMD113209	SuperDos 30 2.5%	0.15 - 30 GPM	5.0 - 100 PSI	1:500 - 1:40	1" BSP
CADMD113212	SuperDos 45 2.5%	0.50 - 45 GPM	5.0 - 100 PSI	1:500 - 1:40	1-1/4" NPT/BSP
Special Order	Chemilizer HN55 1-100 Viton	0.02 - 11 GPM	3.0 - 85 PSI	1:100	3/4" NPT/BSP

IRRIGATION

Accu-Tab chlorination system

Accu-Tab Chlorination System



Model 2075 GS



Blue Tablets

KILL BACTERIA, FIGHT MOLD AND CONTROL ALGAE IN AGRICULTURAL WATER

Farms and nurseries face the threat of hidden dangers in agricultural water every day. Bacteria including E. coli and Salmonella can result in foodborne illnesses, while water molds like Phytophthora and Pythium that stay in the soil can have devastating effects on plants and crops.

SAFE. SIMPLE. EFFECTIVE.

The Accu-Tab® tablet chlorination system offers a safer, versatile, and low-maintenance solution for improved operational performance of irrigation systems. Effectively chlorinating well water, surface water and reuse water supplies used for irrigation purposes, the Accu-Tab system kills harmful bacteria and fights water molds. In addition, the Accu-Tab system helps to reduce maintenance by controlling algae and iron build-up that can cause drip line clogs in irrigation systems.

With very low capital costs, the system is easy to install at multiple irrigation sites. The Accu-Tab system integrates with any type of irrigation system, including spray, overhead, drip and center pivot.

HORTICULTURE AND AGRICULTURE USES

Amid an increasing number of states imposing regulations within the horticultural industry, RFID technology in the agricultural industry and the financial impact and hardship associated with crop loss and product recalls, both horticultural and agricultural communities benefit from the value and effectiveness of the Accu-Tab system. Thousands of farms and nurseries across North and Central America rely on the Accu-Tab system as a dependable and simple solution.

SYSTEM BENEFITS

- SAFETY - Reduced risk of spills/leaks; no need for expensive safety systems or secondary spill containment
- MATERIAL COMPATIBILITY – More neutral pH and less corrosive
- DELIVERY CONTROL – Automated for consistent strength
- STORAGE CONVENIENCE – Pails stack for convenience, use less space than drums or cylinders and do not require a separate room
- MAINTENANCE – Few moving parts within chlorinator; in most cases, maintenance needed once per year

THE ACCU-TAB SYSTEM IS EASY TO INSTALL AND CAN BE INTEGRATED INTO ANY EXISTING SYSTEM WITH LOW CAPITAL INVESTMENT. ONCE IN PLACE, THE SYSTEM RUNS SIMPLY AND EFFICIENTLY WITH LITTLE TO NO MAINTENANCE.

Model Number	Chlorine Delivery Range (lb/hr)	Tablet Capacity (lb)	Unit Inlet Size (Socket)	Unit Outlet Size (Socket)
2075 GS	Up to 2.5	75	1-1/2"	1-1/2"
2150 GS	Up to 10.5	150	1-1/2"	1-1/2"
2300 GS	Up to 25	300	1-1/2"	1-1/2"
2600 GS	Up to 35	600	1-1/2"	2"



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